

# 2025-27 Capital Budget Request

*September 2024*



Tab A



**DEPARTMENT OF  
NATURAL RESOURCES**

**OFFICE OF THE COMMISSIONER  
OF PUBLIC LANDS**

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MS 47001  
OLYMPIA, WA 98504-7001

**360-902-1000**  
[WWW.DNR.WA.GOV](http://WWW.DNR.WA.GOV)

September 10, 2024

Pat Sullivan, Director  
Office of Financial Management  
PO Box 43113  
Olympia, WA 98504

**SUBJECT:** Department of Natural Resources 2025-27 Operating and Capital Budget Requests

Dear Director Sullivan,

The Department of Natural Resources (DNR) respectfully requests consideration of the following 2025-2027 Biennial Operating Budget and Capital Budget requests.

We took special care to align our requests with the extraordinary needs across the state. Our requests focus on maintenance of current programs, promoting good governance and accountability, investing in DNR's wildland fire suppression efforts, and ensuring safe and sustainable recreation on DNR-managed lands.

**A few areas of focus from our Operating Request include:**

- A \$10 million loan repayment request for the Teanaway Community Forest which was purchased under the terms set in 2SSB 5367 (2013). The purchase was funded in 2013 with \$89.3 million from state building construction account and \$10 million loaned from the natural resources real property replacement account (NRRPRA). Under the purchase terms, the loan to NRRPRA was to be paid back no later than June 30, 2025.
- A \$7.6 million request to continue the Post-Wildfire Response work established in 2023 under 2SHB 1578. The funding will allow DNR to implement a Burned Area Assessment, Stabilization, and Recovery Coordination Program and pilot projects that will reduce the adverse impacts of wildfires. This effort will fund burned-area assessments, create a burned-area emergency stabilization team, develop and manage a robust pilot-project program, and provide resources to effectively collaborate with federal, state, local, and tribal partners.
- A combined \$9.6 million request for Conservation Corps crew positions that provide crucial support to DNR's Aquatic Resources Division and Recreation and Conservation Division. Corps programs are an incredible opportunity for corps members, including BIPOC youth, veterans, and young people from underserved communities, to get exposure to job skills and natural resources careers.

Director Sullivan  
September 10, 2024  
Page 2 of 3

- A \$6.69 million request for DNR to replace and modernize multiple legacy systems to fully adopt One Washington's new Foundation Data Model. This request funds the replacement and modernization of DNR's Cost Allocation System, NaturE-FI, and Financial DataMart. Additionally, DNR will need to replace aging mainframe and SAP technologies. These system replacements will also enable DNR to fully transition from One Washington's Enterprise Integration Crosswalk by Phase 1B.

**A few areas of focus from our Capital request include:**

- A \$30 million request for the Trust Land Transfer program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership. This request funds eight transactions that would conserve 12,299 acres of forests and grasslands, and fund replacement of trust land. The sites will be transferred to Tribes and public agencies, including DNR's Natural Areas Program and the Washington Department of Fish and Wildlife.
- A \$7.4 million request to continue implementing the new Derelict Structure Removal Program established in 2023 under SSB 5433. The program removes broken-down and hazardous structures, tire reefs, and debris out of our waterways. This funding will allow DNR to complete planning and permitting for one of the four priority structures (Ballard Pier), continue work to refurbish the historic Lakebay Marina for recreational use, and initiate new projects.
- A \$13.5 million request to fund large vessel removals as part of the Derelict Vessel Removal Program. DNR has been inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This capital request will DNR to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state.
- A \$7.75 million request to fund Safe and Sustainable Recreation on DNR-managed lands. Demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. Without investment to update this infrastructure, the result will be increases in resource damage from overuse, environmental damage from sediment run-off, user conflicts from incompatible uses on trails, and impacts to Tribal and cultural resources.
- A \$29.5 million request to construct a complex of 14 buildings on an eight-acre site leased from the City of Omak at the Omak Airport. This project supports the DNR's Aviation Fire Program, Northeast Region's Fire Program, as well as forest resiliency, recreation, and other programs. A major component of this project is to establish suitable dormitory space for seasonal fire personnel.

Director Sullivan  
September 10, 2024  
Page 3 of 3

Thank you for your time and consideration of our Operating and Capital Budget requests. We look forward to supporting and working with your staff in the development of the Governor's budgets. We welcome any questions and are happy to provide additional information, as needed.

Sincerely,



Katy Taylor  
Chief Operating Officer  
Office of the Commissioner of Public Lands  
Washington State Department of Natural Resources

Cc: Jim Cahill, Senior Budget Advisor to the Governor, Natural Resources, OFM  
Lisa Borkowski, Budget Advisor to the Governor, Natural Resources, OFM  
Shelly Willhoite, Capital Budget Advisor to the Governor, Natural Resources, OFM  
Jed Herman, Senior Fiscal Analyst, Senate Ways & Means Committee  
Wendy Brown, Senior Fiscal Analyst, Senate Ways & Means Committee  
Dan Jones, Fiscal Analyst, House Appropriations Committee  
Rob Hatfield, Counsel, House Capital Budget Committee  
John Wilson-Tepeli, Fiscal Analyst, House Capital Budget Committee  
Ruth Musgrave, Senior Policy Advisor, Natural Resources, Office of the Governor  
Becky Kelley, Senior Policy Advisor, Climate, Office of the Governor  
Ryan Murphy, Deputy Chief of Staff, Department of Natural Resources  
Brian Considine, Legislative Director, Department of Natural Resources  
Olgy Diaz, Deputy Legislative Director, Department of Natural Resources  
Tristan Wise, Chief Financial Officer, Department of Natural Resources  
David Chertudi, Budget Director, Department of Natural Resources

**490 - Department of Natural Resources  
Ten Year Capital Plan by Project Class**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS001

Date Run: 9/10/2024 8:19PM

**Project Class: Preservation**

Agency Priority	Project by Account-EA Type	Estimated Total	Prior Expenditures	Current Expenditures	Reapprop 2025-27	New Approp 2025-27	Estimated 2027-29	Estimated 2029-31	Estimated 2031-33	Estimated 2033-35
<b>5</b>	<b>40000459 2025-27 Safe and Sustainable Recreation</b>									
	057- State Bldg Constr-Unknown									
	057-1 State Bldg Constr-State	7,758,000				7,758,000				
	<b>Project Total:</b>	<b>7,758,000</b>				<b>7,758,000</b>				
<b>6</b>	<b>40000467 2025-27 Natural Areas Facilities Preservation and Access</b>									
	057-1 State Bldg Constr-State	5,801,000				5,801,000				
<b>21</b>	<b>40000664 2025-27 Minor Works Preservation</b>									
	057-1 State Bldg Constr-State	7,644,000				7,644,000				
<b>99</b>	<b>40000143 Whiteman Cove Restoration</b>									
	057-1 State Bldg Constr-State	6,937,000		5,937,000	1,000,000					
<b>99</b>	<b>40000151 2023-25 Natural Areas Facilities Preservation and Access</b>									
	057-1 State Bldg Constr-State	5,092,000		2,307,000	2,785,000					
<b>99</b>	<b>40000154 2023-25 Minor Works Preservation</b>									
	057-1 State Bldg Constr-State	5,219,000		4,635,000	584,000					
	23N-1 MTC Capital Account-State	824,000		824,000						
	<b>Project Total:</b>	<b>6,043,000</b>		<b>5,459,000</b>	<b>584,000</b>					
<b>Total: Preservation</b>		<b>39,275,000</b>		<b>13,703,000</b>	<b>4,369,000</b>	<b>21,203,000</b>				

**Project Class: Program**



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Ten Year Capital Plan by Project Class**

2025-27 Biennium

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**Project Class: Program**

Agency	Estimated	Prior	Current	Reapprop	New	Estimated	Estimated	Estimated	Estimated
Priority	<u>Total</u>	<u>Expenditures</u>	<u>Expenditures</u>	<u>2025-27</u>	<u>Approp</u>	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
Project by Account-EA Type					2025-27				
<b>11</b>	<b>40000450 2025-27 Forest Riparian Easement Program</b>								
	26D-1 Natural Clim	4,900,000			4,900,000				
	Solu Ac-State								
<b>12</b>	<b>40000503 2025-27 Family Forest Fish Passage Program</b>								
	26D-1 Natural Clim	12,084,000			12,084,000				
	Solu Ac-State								
<b>13</b>	<b>40000601 2025-27 Rivers and Habitat Open Space Program</b>								
	26D-1 Natural Clim	4,631,000			4,631,000				
	Solu Ac-State								
<b>14</b>	<b>40000562 2025-27 Correction of Fish Passage Culverts</b>								
	057-1 State Bldg	3,260,000			3,260,000				
	Constr-State								
<b>15</b>	<b>40000561 2025-27 State Forest Land Replacement</b>								
	057-1 State Bldg	30,000,000			6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
	Constr-State								
<b>16</b>	<b>40000442 Bridge Remediation</b>								
	057-1 State Bldg	3,165,000			3,165,000				
	Constr-State								
<b>17</b>	<b>40000598 Sedro Woolley Fire and Dorm Building</b>								
	057-1 State Bldg	455,000			455,000				
	Constr-State								
<b>18</b>	<b>40000620 Enumclaw Equipment Shop</b>								
	057-1 State Bldg	682,000			682,000				
	Constr-State								
<b>19</b>	<b>40000586 Environmental Mitigation Projects</b>								
	23N-1 MTC Capital	997,000			997,000				
	Account-State								
<b>20</b>	<b>40000458 2025-27 Minor Works Programmatic</b>								
	057-1 State Bldg	6,153,000			6,153,000				
	Constr-State								
<b>22</b>	<b>40000440 Post-Wildfire Reforestation Grant Program</b>								









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**Total Account Summary**

<u>Account-Expenditure Authority Type</u>	<u>Estimated Total</u>	<u>Prior Expenditures</u>	<u>Current Expenditures</u>	<u>Reapprop 2025-27</u>	<u>New Approp 2025-27</u>	<u>Estimated 2027-29</u>	<u>Estimated 2029-31</u>	<u>Estimated 2031-33</u>	<u>Estimated 2033-35</u>
28M-1 Land Bank Account-State	50,000,000		20,000,000		30,000,000				
<b>Total</b>	<b>957,313,000</b>	<b>6,907,000</b>	<b>155,968,000</b>	<b>62,714,000</b>	<b>377,394,000</b>	<b>99,165,000</b>	<b>99,165,000</b>	<b>78,000,000</b>	<b>78,000,000</b>



**DEPARTMENT OF  
NATURAL RESOURCES**

**FOREST RESOURCES  
DIVISION**

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September 9, 2024

Nicole Dixon, Budget Manager  
Office of Finance, Budget, and Economics  
P.O. Box 47001  
Olympia, WA 98504-7001

**Re: Cultural Resource Assessment for 2025-2027 Biennium Capital Projects**

Greetings Nicole,

The Department of Natural Resources' (DNR) proposed capital budget list of projects for the 2025-2027 biennium has been reviewed for cultural resource compliance.

Due to the presence of Capital funding, most of the projects will be subject to Governor's Executive Order 21-02 (EO 21-02) to determine direct and indirect effects to cultural resources. Under the executive order, all projects (including land acquisitions) that use funds appropriated in the State's biennial Capital Budget and have passed legislature, must consider how the proposed projects may affect archaeological and historic archaeological sites, historic buildings/structures (45 years old or more), traditional cultural places, sacred sites, or other cultural resources. During the EO 21-02 process, consultation must occur with the Department of Archaeology and Historic Preservation (DAHP) and all interested Tribal entities.

Capital funded projects, including all land acquisitions are subject to EO 21-02 and must partake in tribal consultation prior to their acquisition. DNR land transactions and exchanges that are not capitolally funded may be subject to multiple DNR policies and are routinely reviewed under DNR Procedure PR15-007-024, and the protection of cultural resources are subject to DNR Policy PO06-001, PO08-034, and Washington State Law RCW 27.44 and RCW 27.53 for compliance. In addition, all DNR projects with ground-disturbing activities, including projects outside of State and Federal compliance requirements, utilize DNR's Cultural Resources Inadvertent Discovery Procedure set forth under agency procedure PR14-004-10 for the protection of cultural resources.

Of note, some projects may contain a federal nexus (from federal funding or permits) that will require federal agency review under Section 106 of the National Historic Preservation Act

(NHPA) of 1966. During these situations, the federal agency identified as lead, will be responsible for completing Section 106 compliance and the project will be exempt from EO 21-02 review. However, DNR archaeologists may aid in the collection of information, provide recommendations regarding cultural resources, and review completed cultural resource work in accordance with DNR agency policy.

Once funding is secured and preliminary project plans have been outlined, the project manager will then send a cultural resource request to the DNR archaeologist to perform a cultural review for the project. A preliminary desk review includes the examination of the local environment of the project area, historical maps, DAHP's database of archaeological and historical sites, GIS resources, DNR's Tract Book, and ethnohistoric information. It should be noted that under the cultural review process, all projects that have ground-disturbing activity will need a preliminary cultural field visit, during which time the extent of the necessary fieldwork would be determined. During cases where cultural resources of significance are identified, the project under most circumstances will avoid the resource, or in rare cases mitigation for potential negative impacts to the resource will be completed with consultation and collaboration from DAHP and interested tribal entities.

During the cultural review process, the project manager is the tribal consultation lead, and the DNR archaeologist works with the manager, interested tribal parties, and other agency archaeologists to ensure that all concerns are addressed. In keeping with state laws and agency policy, DNR strives for the preservation of cultural resources and their avoidance from impact during project activities.

If there are any questions or concerns regarding the requested review, please do not hesitate to contact me by email at [Louis.Fortin@dnr.wa.gov](mailto:Louis.Fortin@dnr.wa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Louis Fortin". The signature is written in black ink and has a fluid, connected style.

**Louis Fortin, Ph.D.**

Scientific Consultation Manager

Forest Resources Division

Washington Department of Natural Resources

490 - Department of Natural Resources  
**Capital FTE Summary**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS004

Date Run: 9/10/2024 3:41PM

**FTEs by Job Classification**

<u>Job Class</u>	Authorized Budget		2025-27 Biennium	
	2023-25 Biennium		2025-27 Biennium	
	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>
Architect 2			0.1	0.0
Civil Engineer 2			1.9	1.9
Civil Engineer 3			3.4	2.9
Civil Engineer 4			2.2	1.7
Construction Project Coordinator 3			3.7	3.0
Construction Project Coordinator 4			0.8	0.7
Environmental Engineer 6			0.5	0.5
Environmental Planner 3			1.3	1.0
Environmental Planner 4			0.3	0.0
Equipment Operator 1			0.1	0.0
Equipment Operator 2			0.1	0.0
Equipment Operator Lead			0.0	0.1
Equipment Operator Supervisor			0.1	0.1
Forest Check Cruiser 2			0.6	0.6
Forest Crew Supervisor-Corrections			0.1	0.1
IT Project Management - Manager			0.1	0.0
Management Analyst 3			0.3	0.3
NR Scientist 1			1.0	1.0
NR Scientist 2			1.5	1.5
NR Scientist 3			3.7	3.0
NR Scientist 4			0.2	0.0
NR Specialist 1			1.0	1.0
NR Specialist 2			5.8	5.8
NR Specialist 3			4.3	4.3
NR Specialist 4			3.8	3.8
NR Technician 3			1.1	1.1
NR Worker 2			0.1	0.1
Parks Planner 2			0.7	0.7
Parks Planner 4			0.5	0.0
Property & Acquisition Spec 2			0.7	0.1
Property & Acquisition Spec 4			1.8	1.1
Surveyor 3			0.1	0.0
WMS - Band 2			0.2	0.0
<b>Total FTEs</b>			<b>42.1</b>	<b>36.4</b>

**Account**

<u>Account - Expenditure Authority Type</u>	Authorized Budget		2025-27 Biennium	
	2023-25 Biennium		2025-27 Biennium	
	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>
057-1 State Bldg Constr-State			2	2
23N-1 MTC Capital Account-State			205	205

490 - Department of Natural Resources  
Capital FTE Summary

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS004

Date Run: 9/10/2024 3:41PM

Account (Continued)

<u>Account - Expenditure Authority Type</u>	Authorized Budget		2025-27 Biennium	
	2023-25 Biennium		2025-27 Biennium	
	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>
26D-1 Natural Clim Solu Ac-State			696	607
<b>Total Funding</b>			<b>903</b>	<b>814</b>

Narrative

Capital FTEs are used in direct support of the Department of Natural Resources (DNR) capital projects. In most cases involving land and easement purchases, the agency has staff working exclusively on those projects. On other capital projects such as those dealing with recreation, RMAPs and Natural Areas, staff funded primarily with operating budget funds will charge to specific capital projects where appropriate.

## **Maintenance Backlog Reduction Plan**

Department of Natural Resources: 2025-2027 Plan

Due to the age and condition of the Department's facility inventory, the agency must pursue a multi-biennium, multi-faceted approach to reducing the agency's backlog of facility maintenance. Ultimately, the only way the agency will truly eliminate facility maintenance backlog is to recapitalize through replacement of buildings constructed in the 1950s and 1960s. The majority of the Department's buildings that the agency works in are now well past the end of the life cycle. However, the crux of the Department's strategy recognizes the fiscal unlikelihood of wholesale facility replacement and focuses on methods to extend the life of existing structures while making incremental improvements to building systems affecting energy use, safety and facility conformity to current and future spatial functionality.

The balance of the Department's administrative square footage consists of support facilities (roughly two-thirds of administrative facility inventory) that house equipment, vehicles, and light industrial processes. The agency operates primarily from compounds that cluster from two to 35 individual buildings at sites. The ratio of support to office space combined with the rural locations from which the agency conducts business, limit opportunities to move from existing sites to new locations via leases. Increasing costs combined with the agency's unique condition as a collection of activities and programs drawing on more than 30 individual funding sources, have, over time, all but eliminated cyclic and routine facility maintenance and created an overreliance on capital funding to effect repairs past the point of failure rather than as a preventative measure.

The Department has long relied on a culture of self-reliance with respect to the Department's facility inventory. Many of the agency's buildings are the result of in-house design and construction using agency employees, equipment and inmate crews to save costs. The complexity of modern building requirements and ever increasing body of regulation associated with construction activities has eliminated the ability of the agency to operate in this manner. The same factors have affected the ability of employees to conduct maintenance of these same facilities over time. The skill sets necessary for self-reliance, once common in a high percentage of agency employees also gradually disappeared from the general population from which the agency draws its personnel. Changes occurred slowly, but the effects are cumulative. The unavailability of personnel to perform maintenance and a lack of funds to hire professionals to do the work contributed to the Department's current conditions. In short, the agency's facility inventory is old, isolated, and in disrepair.

The Department's strategy is to mitigate for age and solve disrepair through a series of measures that affect not just the means available to correct issues but also the ways by which the agency manages the activity. The following are the key constructs of the strategy.

First, establish an accurate understanding of facility condition. OFM requires reporting on facility condition, but the nature of the reporting mechanism for doing so focuses on services delivered in a leased arrangement rather than the condition of buildings owned by an agency. The skill sets necessary to assess building conditions are no longer widely available throughout the employee base. Facility inspections, therefore, compete for the attention of a very small number of technicians with a body of already identified necessary repairs at other locations. To overcome this condition, the Department has engaged third-party services to conduct targeted inspections and record results during the previous biennium, focused primarily on electrical systems.

Second, the Department must establish tailored cyclic maintenance requirements for each facility and facility site along with procurement and distribution of the appropriate operation and maintenance manuals for the equipment at each site. Prior to this the current biennium, the Department lacked a mechanism beyond a haphazard system of records storage at the local level. This step, in conjunction with a work-order management system provides a mechanism for automated signals for recurring cyclic requirements as well as tool for projecting future costs based on accumulation of data. In short, the agency owes managers at the local level the tools to understand the facilities they inhabit and the knowledge of type and frequency of cyclic maintenance necessary.

Third, the Department must establish a set of policies that assign and align both authority and responsibility with respect to facility condition and establish a system of accountability that is uniform throughout the agency. Crucial concepts within this policy effort require a more disciplined planning methodology and a mechanism that links actual facility cost to program occupation of facilities. The tools detailed in the in the second construct make possible a system of accountability, but only if the agency also addresses means.

Fourth, the Department must establish a sustainable budgeting process that accounts for true cost of operation and funds the infrastructure directly as opposed to the collection of programs operating from the infrastructure in a process utilizing OFM developed cost factors as a basis for development. Carry forward techniques for budgeting are of little use if managers do not know or have tools available to project facility operating costs, and if through inaction, maintenance activities continue to decline to a demand history of none. Budgets that comingle operating funds for multiple uses inject a level of discretion into the process that allows for decision making for short term solutions with long-term consequences, particularly for infrastructure. The use of OFM cost factors provides a basis for evaluating appropriation levels with respect to facilities, but equally important, allows for analysis of internal allocation.

Finally, the Department must enforce discipline on the various systems and planning processes to reduce reliance on capital funded repair work over time. The age and condition of the agency's facilities dictate that expensive repairs will be part of the future for some time to come. However, the nature of the repairs should change in character and frequency to that which are inevitable rather than those that might have otherwise remained preventable.

**TAB B**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

## Description

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

### Project Summary

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.7 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

### Project Description

#### Project Description:

Much of DNR's recreation infrastructure was designed and built decades ago. Not only for significantly fewer users, but often for different users or use-types altogether. Therefore, the type and scale of use the agency's trails, campgrounds, and day use areas are currently experiencing are resulting in impacts to Tribal and cultural resources, unnecessary environmental damage, negative user experiences and conflicts, and sometimes exclusion of historically underserved communities.

To address this problem, significant investment is needed to plan, renovate, and modernize DNR's recreation sites. Many of DNR's capital projects are eligible for grants administered by the Recreation and Conservation Office (RCO) and DNR receives between \$2M and \$3M in grant awards per biennium for development/renovation. However, these grant programs are oversubscribed and have funding limits that are less than actual project costs, which means many needed projects remained unfunded statewide. Additionally, current operating funding from the State General Fund and RCO grants are insufficient to keep up with regular maintenance needs and therefore cannot also address the larger capital projects necessary to maintain safe recreation facilities that provide quality user experiences, protect Tribal resources, and mitigate environmental impacts.

#### **What will the request produce or construct? When will the project start and be completed?**

To address the above issue, this proposal includes 44 sub-projects statewide that align with one or more of the following goals:

1. Increasing sustainability in high use areas
2. Addressing ORV impacts
3. Improving accessibility and user experience
4. Increasing public safety

Example deliverables include trail construction/modernization, ADA docks, ADA vault toilet installation, bridge replacements, ADA trailhead enhancements, shelter replacement, campground renovation, and more. The full construction list is available in the notes section of the sub-project list, which also includes goals that each sub-project achieves.

Projects are projected to be completed by June 2027.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

Each of the 44 sub-projects address the problem by achieving one or more of this proposal's goals to increase sustainability in high use areas, mitigate ORV impacts, improve accessibility and user experience, and increase public safety. You can refer to the attached sub-project list for details

#### **The results of not taking the proposed actions include:**

- Continued and/or increased unsafe conditions.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

## Description

- Increased future operational costs.
- Potential closure of roads and facilities.
- Failure to follow through on commitments to partners, stakeholders, and members of the public who were involved with multiple regional and local planning processes.
- Continued or worsened environmental degradation.
- Continued or worsened impacts to Tribal and cultural resources
- Continued or increased damage to DNR property and State Trust from theft and vandalism

### What alternatives were explored? Why were the recommended alternative chosen?

#### Solution Selection

Smaller renovation/replacement projects were selected by region management as the most cost-effective means to achieve the desired outcomes, such as replacing an outdated wooden pit toilet with a concrete vault toilet using a statewide contract. Larger development projects like trailheads or trail miles were selected in collaboration with the local community as part of larger planning processes, such as Baker to Bellingham.

#### Alternative Funding Options

In addition to this capital request, DNR Recreation will use RCO grant funding to partially fund many of these projects and use capital dollars as match for the grants and fully fund them. Generally, the program receives between \$2M and \$2.8M in additional development funding from RCO. RCO funds cannot be used as stand-alone funding for all projects due to grant limits, the need for match to be competitive, and/or a program is oversubscribed and has insufficient funding for all projects. Historically, the Recreation program used some capital funding to replace and fix failing infrastructure, as allowed by OFM rules. However, moving forward, many of those needs will be met with the new General Fund appropriation of \$10,000,000 for maintenance. This capital funding request is required because the maintenance funding is needed to fund staff, supplies, and materials to maintain current facilities and infrastructure. This leaves an existing need to fund larger development and renovation projects, which will be met with the combination of RCO grants and this capital request because neither source can completely fulfill the need.

### Which clientele would be impacted by the budget request?

This request serves a broad constituency of outdoor recreationists statewide and the public in general. This includes, but is not limited to, disabled recreationists, hikers, bikers, equestrian, ORV, motorcycle, and 4x4 recreationists. Others include campers, day-users, hunters, anglers, and foragers. Opportunities are spread throughout the state. The public at-large benefits from this project because it increases public safety on shared road systems and mitigates environmental impacts potentially affecting Washington's waterways.

Specific units, such as trail miles, bridges, or toilets, can be found in the sub-project list.

### Does this project or program leverage non-state funding? If yes, how much by source?

Many of the sub-projects included in this request are completed using volunteer labor and equipment donations. Each biennium, DNR recreation receives about \$2M in these donations, which offsets capital project costs. Additionally, the Recreation Program will use this request as match for at least \$660K in RCO grants.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

**DNR Strategic Priorities** - This project directly supports several of the DNR's strategic priorities including the following:

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

## Description

- Increasing public engagement and commitment to our public lands by working directly with the public and stakeholders on our recreational development opportunities. Increasing safe access to public lands is one tool to increase awareness and support for them.
- Strengthen the health and resilience of our lands and waters by strategically investing recreational dollars in areas where restoration is required to develop or enhance our land for recreational and ecological benefits. Examples of this includes modernizing trail systems to decrease environmental impact from current use types.
- Building strong and healthy rural communities by partnering with local groups like Towns to Teanaway, we work together to develop assets of statewide significance to support rural Washington. This often plays out through increased tourism because of an exciting new trail or through further statewide partnerships with recreational groups to bring events to the area. By focusing a targeted set of sub-projects at rural communities, we are ensuring that historically under resourced communities have access to quality outdoor recreation facilities and that tourism, which can benefit the local economy, can be accommodated.

**Performance Measures** - This project supports Recreation's performance measure for "Number of Sites Maintained Providing Recreational Opportunities and Trail Access for the General Public." Keeping the current number of sites open not only requires stable, ongoing operational funding, but it requires occasional capital investment when larger-scale renovation work is necessary.

**Recreation Plans** - This project supports nine adopted DNR recreation plans by addressing specific user and safety needs identified in them. These plans include the Ahtanum State Forest Recreation Plan, Baker to Bellingham Nonmotorized Recreation Plan, Capital State Forest Recreation Plan, Green Mountain and Tahuya State Forests Recreation Plan, the Naneum Ridge to Columbia River Recreation Plan, Reiter Foothills Forest Recreation Plan, Snoqualmie Corridor Recreation Plan, Teanaway Community Forest Management Plan, and the Western Yacolt Burn Forest Recreation Plan.

**Does this request include funding for any IT-related cost?**

No

***If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.***

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, by increasing recreation access and addressing some current or anticipated environmental degradation on public lands.

The Influential Outcomes directly advanced by this proposal include:

1.3 Restore natural flows, fish passage, flooding, and tidal inundation to freshwater and marine systems by removing structural barriers or altering their management

5.6 Ensure that the health of the human population of Puget Sound is improved in ecosystem conditions and vulnerable populations and underserved communities do not experience inequitable health outcomes

The Strategies, Actions, and Key Opportunities directly advanced by this proposal include:

Strategy 21: Increase access to and visibility of mental health connections to a healthy natural environment (ID # 158)

· Key opportunity: Manage and preserve natural areas for stress reduction, motivation, and long-term place attachments

· Key opportunity: Increase park and open space access, especially for marine shorelines, for all people and communities

Strategy 22: Identify and fund removal of barriers resulting in the exclusion of people from participating in recreation and stewardship activities. (ID #160)

Strategy 24: Increase number, accessibility, and protections for multi-use and multi-cultural natural spaces (for example, fish

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**Description**

and shellfish harvesting, camping, boating, and gardening, etc.), including green spaces and waterways. (ID #86)  
Strategy 24: Improve appropriate access opportunities for harvesting local foods and other culturally significant materials on public lands and shorelines. (ID #91)

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project helps to reduce greenhouse gas emissions by increasing the quality of local recreation opportunities, so recreationalists do not have to travel longer distance to recreate.

**How is your proposal impacting equity in the state?**

This project addresses equity in the following ways:

- By reducing environmental impacts, this project can also reduce impacts to Tribal and cultural resources.
- Projects in the Olympic, Northeast, and Southeast Regions invest in many of Washington's lowest income counties. Improved recreation opportunities not only benefit the health of those communities, but also benefit the local economies.
- The North Mountain Connection project connects a high-use mountain bike destination with the City of Darrington. This system was originally designed to stimulate their economy after the Oso landslide.
- By improving or adding ADA accessibility to bathrooms, campgrounds, day-use areas, and docks,
- Some project sites are served by Trailhead Direct shuttle stops, which allow people who do not own a vehicle to access public lands.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

Directing capital funding towards the four identified goals and their associated sub-projects allows DNR to focus on areas of critical concern and highest impact. It will also allow the agency to use the \$10M General Fund maintenance money for its intended purpose, while still investing in new opportunities to improve safety and resilience—all critical to accommodate soaring demand.

Additionally, many of these sub-projects are associated with either existing recreation plans or management plans, which project out 10-15 years of development for recreation on a specific landscape or are directly tied to existing infrastructure.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

N/A

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**Description**

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057	State Bldg Constr-Unknown					
057-1	State Bldg Constr-State	7,758,000				7,758,000
	<b>Total</b>	<b>7,758,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,758,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057	State Bldg Constr-Unknown					
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

**SubProjects**

SubProject Number: 40000460

SubProject Title: Dry Hill Parking Area

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000460

SubProject Title: Dry Hill Parking Area

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 1: Dry Hill Parking Area**

Build a parking area and trailhead for the Dry Hill Mountain bike area. Construct an informational kiosk at trailhead and install signage as needed. NOTE: Due to circumstances outside of DNR's control regarding timber harvests at the parking lot site, which must occur prior to construction, if this project is unable to occur during this biennium, we will then shift to the Sadie 4x4 parking area development that is slated for biennium 27-29. **Achieves goals 1, 3, 4.**

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	100,000				100,000
	<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000460

SubProject Title: Dry Hill Parking Area

Narrative

N/A

SubProject Number: 40000461

SubProject Title: Re-pave Leader Lake

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 2: Re-pave Leader Lake**

Repave deteriorating existing asphalt roadway from dam to campsites and boat launch on south side of lake. This will improve safety and user experience. **Achieves goals 1, 3, 4**

**Location**

City: Okanogan

County: Okanogan

Legislative District: 007

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	350,000				350,000
	<b>Total</b>	<b>350,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>350,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000461

SubProject Title: Re-pave Leader Lake

Operating Impacts

No Operating Impact

**Narrative**

n/a

SubProject Number: 40000463

SubProject Title: Motorized Planning and Development - Section 35

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 3: Motorized planning and development - section 35**

Plan and begin implementation of motorized recreation in the recently acquired "Section 35" to connect existing trails. This will serve the needs of the motorized recreation community to create safe loop options in the trail system that don't currently exist. **Achieves goals 1, 2, 3**

**Location**

City: Camas

County: Clark

Legislative District: 017

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	200,000				200,000
<b>Total</b>		<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000463

SubProject Title: Motorized Planning and Development - Section 35

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000464

SubProject Title: Olsen Creek Bridge

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 4: Olsen Creek Bridge

Install a large bridge in the Olsen Creek trail system to replace a current ford that is unsafe and delivers sediment into the creek. OC Priority Area 3 Critical area assessments contract. Priority Area 2 & 3 trail construction at Olsen Creek. Staff time to perform all prior mentioned tasks. **Achieves goals 1, 3, 4**

**Location**

City: Bellingham

County: Whatcom

Legislative District: 042

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000464

SubProject Title: Olsen Creek Bridge

Growth Management impacts

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	748,000				748,000
	<b>Total</b>	<b>748,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>748,000</b>

Future Fiscal Periods

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		057-1	State Bldg Constr-State	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000465

SubProject Title: Naneum Access Road

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000465

SubProject Title: Naneum Access Road

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 5: Naneum Access Road

Design and construction of a new road in Cooke Canyon to provide access to the Naneum Ridge State Forest, specifically the Cookie Cutter Trail System. The Naneum Ridge State Forest currently lacks public access and therefore our ability to apply for grants to implement the Naneum to Columbia Recreation Plan. This access is the priority for the Naneum Ridge to Columbia River Recreation Plan that was completed 8 years ago and has not been able to be implemented without this access.

**Achieves goals 1, 3**

**Location**

City: Ellensburg

County: Kittitas

Legislative District: 013

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	750,000				750,000
	<b>Total</b>	<b>750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>750,000</b>
<b>Future Fiscal Periods</b>						
		2027-29	2029-31	2031-33	2033-35	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000465

SubProject Title: Naneum Access Road

Narrative

N/A

SubProject Number: 40000466

SubProject Title: Elbe Hills Upper Elk Spur Trail Bridge Removal/Relocation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 6: Elbe Hills Upper Elk Spur Trail Bridge Removal/Relocation - Footing Failure**

An equestrian/hiking trail bridge, constructed of engineered glue-lam wood, is currently in imminent danger of falling into a tributary stream of Sahara Creek. One of the footings is becoming compromised by natural stream channel changes. Project would involve disassembling and removing or moving the trail bridge from its current stream crossing. Failure to act will lead to the bridge falling into the stream and causing a potential stream blockage and bridge damage. **Achieves goals 1, 3, 4**

**Location**

City: Eatonville

County: Pierce

Legislative District: 002

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	250,000				250,000
<b>Total</b>		<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000466

SubProject Title: Elbe Hills Upper Elk Spur Trail Bridge Removal/Relocation

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000468

SubProject Title: Straits Designated Moto Trail Improvements

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 7: Straits designated moto trail improvements

Build new motorized trails at Sadie and Foothills to get trail routes off active DNR roads for safety and improved user experience. **Achieves goals 1, 2, 3, 4**

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000468

SubProject Title: Straits Designated Moto Trail Improvements

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Approps</u>
057-1	State Bldg Constr-State	50,000				50,000
	<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000469

SubProject Title: Dry Hill Trail Modifications

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 8: Dry Hill trail modifications**

Prepare dry hill to be a designated mountain bike trail system by modifying existing trails and creating new ones that will be more accommodating to the public. **Achieves goals 1, 3, 4**

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**Project Type**

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

**Project Type**

SubProject Number: 40000469

SubProject Title: Dry Hill Trail Modifications

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	50,000				50,000
	<b>Total</b>	<b>50,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000470

SubProject Title: Toats Coulee Campground Outhouse Single

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000470

SubProject Title: Toats Coulee Campground Outhouse Single

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 9: Toats Coulee Campground Outhouse Single**

Replace existing old wooden outhouse with new concrete CXT outhouse. **Achieves goals 1, 3, 4**

**Location**

City: Riverside

County: Okanogan

Legislative District: 007

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period		
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations	
057-1	State Bldg Constr-State	55,000				55,000	
	<b>Total</b>	<b>55,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55,000</b>	
		<b>Future Fiscal Periods</b>					
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>		
057-1	State Bldg Constr-State						
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000471

SubProject Title: Toats Junction Outhouse Single

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 10: Toats Junction Outhouse Single

Replace existing old wooden outhouse with new concrete CXT outhouse. **Achieves goals 1, 3, 4**

**Location**

City: Riverside

County: Okanogan

Legislative District: 007

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	55,000				55,000
	<b>Total</b>	<b>55,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000473

SubProject Title: Three corner rock trail rehabilitation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 11: Three corner rock trail rehabilitation**

Rehabilitate and improve trail damaged by a timber sale, including trailhead and additional parking area. **Achieves goals 1, 3, 4**

**Location**

City: Washougal

County: Clark

Legislative District: 017

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	100,000				100,000
	<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000476

SubProject Title: Teanaway Trails & Recreation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 12: Teanaway Trails/Recreation**

This project is to continue implementation of the West Fork Teanaway Trails Plan and complete the associate sign plan for Phase 2. Other projects identified as a priority in the Teanaway Recreation Plan are planning for a renovation of 29 Pines Camping Area, planning for a water access site on the North Fork Teanaway River and renovating the West Fork Day Use area adjacent to the new West Fork Trailhead to mitigate impacts to the riparian area and water quality. **Achieves goals 1, 3, 4**

**Location**

City: Cle Elum

County: Kittitas

Legislative District: 013

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	250,000				250,000
	<b>Total</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000476

SubProject Title: Teanaway Trails & Recreation

No Operating Impact

Narrative

N/A

SubProject Number: 40000479

SubProject Title: Raging River Trail System - Final phase

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 13: Raging River Trail System – Final Phase Completion**

Additional funding needed to complete final phase of project for RCO 20-1445 grant deliverables due to cost increases.

Project needs to be completed by end of 2026, before final report is due to RCO. **Achieves goals 1, 3, 4**

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	100,000				100,000
	<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000479

SubProject Title: Raging River Trail System - Final phase

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000481

SubProject Title: Walker Valley Parking Lot Expansion A&E

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 14: Walker Valley Parking Lot Expansion A&E

Design support for expanding or moving the Walker Vally trailhead to accommodate 40-50 parking spaces. **Achieves goals 1, 2, 3, 4**

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000481

SubProject Title: Walker Valley Parking Lot Expansion A&E

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>		
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Approps</u>	
057-1	State Bldg Constr-State	80,000				80,000	
	<b>Total</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>	
		<u>Future Fiscal Periods</u>					
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>		
057-1	State Bldg Constr-State						
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000485

SubProject Title: Chopaka Dock Installation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 15: Chopaka Dock Installation**

Purchase and install Dock to improve accessibility, safety, and user experience. **Achieves goals 1, 3, 4**

**Location**

City: Riverside

County: Okanogan

Legislative District: 007

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000485

SubProject Title: Chopaka Dock Installation

Growth Management impacts

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	85,000				85,000
	<b>Total</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85,000</b>

Future Fiscal Periods

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		057-1	State Bldg Constr-State	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000487

SubProject Title: Motorized recreation gate installation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 16: Motorized recreation gate installation

Replace and improve gates for motorized trail system to prevent illegal use and resource damage. **Achieves goals 1, 2, 4**

**Location**

City: Camas

County: Clark

Legislative District: 017

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

**Project Type**

SubProject Number: 40000487

SubProject Title: Motorized recreation gate installation

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	150,000				150,000
<b>Total</b>		<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	0	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000489

SubProject Title: Reiter Trailhead Connection

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000489

SubProject Title: Reiter Trailhead Connection

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 17: Reiter Trailhead Connection

Design, permit, purchase, and install a bridge over Hogarty Creek to connect new trailhead to existing bouldering areas. This will increase safety by getting users to stop parking on Reiter road in an unsafe manner and start using the currently being built Reiter Trailhead. **Achieves goals 1, 3, 4**

**Location**

City: Monroe

County: Snohomish

Legislative District: 012

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	160,000				160,000
	<b>Total</b>	<b>160,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000489

SubProject Title: Reiter Trailhead Connection

Narrative

N/A

SubProject Number: 40000490

SubProject Title: Blue Lake Restoration

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 18: Blue Lake Restoration

Planning and implementation of a restoration project at Blue Lake in the Ahtanum State Forest to mitigate sediment delivery to the lake from growing hill climbs and illegal ORV use immediately adjacent to the lake. This would also include educational signage, a day use area and parking providing a sustainable way to enjoy the lake, which is accessed by a 4WD trail. Tribal engagement is planned through region archaeologists and monitoring will likely be required during implementation. **Achieves goals 1, 2, 3, 4**

**Location**

City: Yakima

County: Yakima

Legislative District: 014

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	500,000				500,000
<b>Total</b>		<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000490

SubProject Title: Blue Lake Restoration

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000492

SubProject Title: Green Mountain Horse Camp Shelter Replacement

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 19: Green Mountain Horse Camp Shelter Replacement

Purchase and contract installation to replace aging shelter at Green Mountain Horse Camp. Additional funding is to contract demolition of older structure and assembly of replacement shelter kit. **Achieves goals 3, 4**

**Location**

City: Bremerton

County: Kitsap

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000492

SubProject Title: Green Mountain Horse Camp Shelter Replacement

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Approps</u>
057-1	State Bldg Constr-State	150,000				150,000
	<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000493

SubProject Title: Snag and Western Lakes ADA boat launch dock

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 20: Snag and Western Lakes ADA boat launch dock**

Installing new ADA boat launch/dock to increase accessibility, safety, and user experience. **Achieves goals 1, 3, 4**

**Location**

City: Long Beach

County: Pacific

Legislative District: 019

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000493

SubProject Title: Snag and Western Lakes ADA boat launch dock

Growth Management impacts

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	150,000				150,000
	<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

Future Fiscal Periods

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000494

SubProject Title: Walker Valley Bridges

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000494

SubProject Title: Walker Valley Bridges

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 21: Walker Valley Bridges**

Purchase 4 ATV Bridges to replace failing timber bridges with FRP bridges. A&E work for additional trail ATV bridges including designs and permits. **Achieves goals 1, 2, 3, 4**

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	300,000				300,000
	<b>Total</b>	<b>300,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000495

SubProject Title: Buck Creek Trails Modernization

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 22: Buck Creek Trails Modernization

Archaeological survey, planning and implementation of updating the Buck Creek Trail System. This includes decommissioning a series of user-built mountain bike trails within the Buck Creek loop. These trails are not designed, permitted or approved and we would like to remove them from the landscape and restore the area. This trail system has been neglected due to lack of staffing and funds for at least 15 years. **Achieves goals 1, 3, 4**

**Location**

City: White Salmon

County: Klickitat

Legislative District: 014

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Approps
057-1	State Bldg Constr-State	100,000				100,000
	<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000495

SubProject Title: Buck Creek Trails Modernization

Narrative

N/A

SubProject Number: 40000497

SubProject Title: Tahuya Kammenga Canyon Campground Redesign

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 23: Tahuya Kammenga Canyon Campground Redesign**

Redesign, planning, and partial construction of improvements to campground. Current access to Kammenga Canyon and Spilman Campgrounds (2 of the 3 motorized campgrounds in Tahuya SF) will be eliminated/restricted with removal of fish barriers during upcoming timber sale. Current plans call for adding much-needed capacity at Kammenga Canyon and connecting it to NE Elfendahl Pass Rd. as a larger looped campground facility. This would mean modifying lease area, and retaining/improving haul road from timber sale, and the grading and improvement of additional sites. **Achieves goals 1, 3, 4**

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	100,000				100,000
<b>Total</b>		<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000497

SubProject Title: Tahuya Kammenga Canyon Campground Redesign

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000498

SubProject Title: Samish Overlook, Blanchard State Forest Trailhead Expansion AE

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 24: Samish Overlook, Blanchard State Forest Trailhead Expansion AE

A&E work including permits for construction-ready designs for trailhead expansion at the Samish Overlook in the Blanchard State Forest. **Achieves goals 1, 3, 4**

**Location**

City: Bellingham

County: Whatcom

Legislative District: 040

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000498

SubProject Title: Samish Overlook, Blanchard State Forest Trailhead Expansion AE

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Approps</u>
057-1	State Bldg Constr-State	250,000				250,000
	<b>Total</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000499

SubProject Title: North Slope CXT and ADA Lot

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 25: North Slope CXT and ADA Lot**

Funds will install accessible CXT and accessible parking area for North Slope Trailhead. This will complete the construction of the new trailhead as the adjacent parking lot was included in the previous biennium of Capital Funds. CXT will replace temporary Sani can for this very popular trailhead. **Achieves goals 1, 3, 4**

**Location**

City: McCleary

County: Grays Harbor

Legislative District: 035

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

**Project Type**

SubProject Number: 40000499

SubProject Title: North Slope CXT and ADA Lot

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	75,000				75,000
<b>Total</b>		<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	0	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000500

SubProject Title: Les Hilde Trailhead Control and Tenure

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000500

SubProject Title: Les Hilde Trailhead Control and Tenure

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 26: Les Hilde Trailhead Control and Tenure**

Control and Tenure for the Les Hilde Trailhead accessing the Harry Osborne Forest. This compensates the Trust for recreation use of the land. **Achieves goal 3**

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	80,000				80,000
	<b>Total</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

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SubProject Number: 40000504

SubProject Title: Porter Creek Campground CXT Upgrade

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 27: Porter Creek Campground CXT Upgrade

Replace three outdated and failing toilets at the popular and heavily used Porter Creek Campground. **Achieves goals 1, 3, 4**

**Location**

City: Elma

County: Grays Harbor

Legislative District: 019

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	150,000				150,000
	<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

		Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000505

SubProject Title: Walker Valley Sustainable Fun Area Phase 1 - Design

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 28: Walker Valley Sustainable Fun Area Phase 1 - Design**

A&E work including permits for construction to convert an existing, expired rock pit that's currently open to the public into a challenge area for motorized users. **Achieves goals 1, 2, 3, 4**

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	120,000				120,000
	<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000505

SubProject Title: Walker Valley Sustainable Fun Area Phase 1 - Design

Narrative

N/A

SubProject Number: 40000506

SubProject Title: Anderson Lake CXT Replacement

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 29: Anderson Lake CXT Replacement**

This would replace the current toilet at the lake. The current building is made with wood and no longer cost effective to repair. The new CTX would be made of concrete and would be able to withstand the weather much better and for a much longer time. **Achieves goals 1, 3, 4**

**Location**

City: Eatonville

County: Pierce

Legislative District: 020

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	100,000				100,000
	<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000506

SubProject Title: Anderson Lake CXT Replacement

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000507

SubProject Title: Reiter Foothills, Wallace Falls State Park Trail Connectors

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 30: Reiter Foothills, Wallace Falls State Park Trail Connectors

Permitting and trail construction between Reiter Foothills and Wallace Falls State Park. **Achieves goals 1, 3, 4**

**Location**

City: Monroe

County: Snohomish

Legislative District: 012

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000507

SubProject Title: Reiter Foothills, Wallace Falls State Park Trail Connectors

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>		
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Approps</u>	
057-1	State Bldg Constr-State	120,000				120,000	
	<b>Total</b>	<b>120,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120,000</b>	
		<u>Future Fiscal Periods</u>					
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>		
057-1	State Bldg Constr-State						
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000508

SubProject Title: Snoqualmie Corridor Vault Toilet Renovations

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 31: Snoqualmie Corridor Vault Toilet Renovations**

This project will renovate twelve concrete vault toilets located in the Snoqualmie Corridor. Work will include relocation of an existing vault toilet, demolition of a defunct composting toilet, and addressing numerous repairs from age and public abuse damage. **Achieves goals 1, 3, 4**

**Location**

City: Statewide

County: Statewide

Legislative District: 098

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

**Project Type**

SubProject Number: 40000508

SubProject Title: Snoqualmie Corridor Vault Toilet Renovations

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	200,000				200,000
	<b>Total</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	0	0	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000509

SubProject Title: North Mountain to Darrington Connection

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000509

SubProject Title: North Mountain to Darrington Connection

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 32: North Mountain to Darrington Connection**

This project will provide public access between the North Mountain Skills area and the City of Darrington. This completes the original North Mountain plan to stimulate the Darrington economy. **Achieves goals 1, 3, 4**

**Location**

City: Darrington

County: Snohomish

Legislative District: 039

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	100,000				100,000
	<b>Total</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000510

SubProject Title: North Slope Trail Re-route and bridge

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 33: North Slope Trail Re-route and bridge**

Re-route trail and install bridge to prevent mountain bike impacts to a stream and make the trail safe and sustainable.

**Achieves goals 1, 3, 4**

**Location**

City: McCleary

County: Grays Harbor

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	20,000				20,000
	<b>Total</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000510

SubProject Title: North Slope Trail Re-route and bridge

Narrative

N/A

SubProject Number: 40000511

SubProject Title: Reiter Road Safety Improvements

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 34: Reiter Road Safety Improvements**

Parking barrier adjustments, gate relocation, turnout improvements, kiosks, and signage to improve safety and access along Reiter Road. **Achieves goals 1, 2, 3, 4**

**Location**

City: Monroe

County: Snohomish

Legislative District: 012

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	60,000				60,000
	<b>Total</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000511

SubProject Title: Reiter Road Safety Improvements

Operating Impacts

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000512

SubProject Title: Elbe ORV Trails

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 35: Elbe ORV Trails

Rock for trail hardening on the ORV Trails. \$40,000 this would help get material to the trail, which will help hard pack the trails for easier maintenance and operation in the future years. **Achieves goals 1, 2, 3, 4**

**Location**

City: Eatonville

County: Pierce

Legislative District: 002

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

Funding

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	40,000				40,000
	<b>Total</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000512

SubProject Title: Elbe ORV Trails

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000513

SubProject Title: Tahuya connect 4x4 trail to Goat Ranch road

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 36: Tahuya connect 4x4 trail to Goat Ranch road - mitigating rec impacts

Adding a small full size vehicle bridge to connect the Western portions of the 4x4 trails to the G-4000 road to allow return access to the main campgrounds and trailheads. This would reduce gate damage from user getting stuck in the more remote sections of trail after mechanical issues. This could be bundled with the modifications and improvements to Kammenga Canyon Spilman campgrounds that will be needed with the removal of fish barriers eliminating current access routes during upcoming timber sale. **Achieves goals 1, 2, 3, 4**

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000513

SubProject Title: Tahuya connect 4x4 trail to Goat Ranch road

Growth Management impacts

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057	State Bldg Constr-Unknown					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	150,000				150,000
	<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

Future Fiscal Periods

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057	State Bldg Constr-Unknown				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Future Fiscal Periods

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000515

SubProject Title: Tiger Mountain - Poo Poo Point Viewpoint & Launch Zone Renovation

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000515

SubProject Title: Tiger Mountain - Poo Poo Point Viewpoint & Launch Zone Renovation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 37: Tiger Mountain - Poo Poo Point Viewpoint & Launch Zone Renovation**

This project will renovate the viewpoint and paragliding launch zone at Poo Poo Point as well as a 1 mile segment of the Chirico Trail. Work will restore access to this highly visited site following an upcoming timber harvest, help to address safety issues, and reduce resource damage from high levels of use. **Achieves goals 1, 3, 4**

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	75,000				75,000
	<b>Total</b>	<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000515

SubProject Title: Tiger Mountain - Poo Poo Point Viewpoint & Launch Zone Renovation

Narrative

N/A

SubProject Number: 40000517

SubProject Title: Margaret McKenney Campground and ADA Paving

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 38: Margaret McKenney Campground & ADA Paving**

Complete original plan of chip sealing campground loops in McKenney Campground. Roads have multiple potholes. Also includes paving of ADA accessible trail to accessible CXT. **Achieves goals 1, 3, 4**

**Location**

City: Tumwater

County: Thurston

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	65,000				65,000
	<b>Total</b>	<b>65,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000517

SubProject Title: Margaret McKenney Campground and ADA Paving

Operating Impacts

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000519

SubProject Title: Tahuya River Horse Camp

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 39: Tahuya River Horse Camp

Purchase and contract installation of a shelter at Tahuya River Horse Camp. Additional funding is to contract site preparation and installation of new shelter kit. This project could be bundled with similar project request to replace older shelter at Green Mountain Horse camp to streamline procurement of goods and services for similar projects. **Achieves goals 3, 4**

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	150,000				150,000
<b>Total</b>		<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000519

SubProject Title: Tahuya River Horse Camp

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000521

SubProject Title: Tiger Mountain State Forest Trails Reconstruction

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 40: Tiger Mountain State Forest Trails Reconstruction

This project will reconstruct approximately 2 miles of existing pedestrian and equestrian trails located in Tiger Mountain State Forest following two upcoming timber harvests. Work will include reroutes of unsustainable trail segments and reconstruction of degraded trail segments, as well as the installation of a trail bridge to replace an existing wet ford. **Achieves goals 1, 3, 4**

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000521

SubProject Title: Tiger Mountain State Forest Trails Reconstruction

Growth Management impacts

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	150,000				150,000
	<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

Future Fiscal Periods

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000522

SubProject Title: McLane Nature Trail Road Widening

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000522

SubProject Title: McLane Nature Trail Road Widening

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 41: McLane Nature Trail Road Widening**

Part of the McLane Master Plan. Widen the access road from Delphi to the main parking lot. Pave the new road and parking lot. Result will be increase in vehicle capacity to popular hiking area that is often full. **Achieves goals 1, 3, 4**

**Location**

City: Olympia

County: Thurston

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	250,000				250,000
	<b>Total</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000524

SubProject Title: Tahuya armor motorized sites

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 42: Tahuya armor motorized sites**

Armor around gates, campgrounds and trailheads in popular motorized recreation spots in Tahuya State Forest in order to prevent environmental damage and protect Trust and recreation assets. **Achieves goals 1, 2, 4**

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	70,000				70,000
	<b>Total</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000524

SubProject Title: Tahuya armor motorized sites

Narrative

N/A

SubProject Number: 40000525

SubProject Title: McLane Nature Trail Boardwalk Replacement

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

**Sub-Project Summary 43: McLane Nature Trail Boardwalk Replacement**

Replacement of broken and outdated boardwalks throughout 2-mile trail system to improve accessibility, user experience, and safety. Will include geotechnical study and engineering as well as County permits. **Achieves goals 1, 3, 4**

**Location**

City: Olympia

County: Thurston

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	200,000				200,000
	<b>Total</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000525

SubProject Title: McLane Nature Trail Boardwalk Replacement

Operating Impacts

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000526

SubProject Title: Capital Contingency Project

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 5

**Project Summary**

To enhance the availability of safe and sustainable recreation on DNR-managed lands, the request for \$7.753 million will support the funding of 44 sub-projects statewide. Current demand for recreation is straining existing infrastructure such as trails, trailheads, campgrounds, and day use facilities that were designed and built decades ago. The current infrastructure was originally designed for a smaller number of users and different purposes. Without investment to update this infrastructure, we will likely see increased resource damage from overuse, environmental harm from sediment runoff, user conflicts due to incompatible trail uses, and negative impacts on Tribal and cultural resources.

**Project Description**

Sub-Project Summary 44: Capital Contingency Project

Contingency for emergency repairs due to storm, flood, or fire damage, hazardous trees, illegal activities, or other conditions threatening public safety and ecosystem integrity. Components unknown at this time. **May achieve goals 2, 3, 4**

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

Funding

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	500,000				500,000
<b>Total</b>		<b>500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:41PM

Project Number: 40000459

Project Title: 2025-27 Safe and Sustainable Recreation

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**SubProjects**

SubProject Number: 40000526

SubProject Title: Capital Contingency Project

	Future Fiscal Periods			
	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

The 44 subprojects in this request reduce some environmental impacts and increase equitable access to the benefits of outdoor access in a variety of ways. Building and maintaining quality recreation infrastructure prevents environmental damage that can affect water quality and tribal rights. Additionally, some projects improve or add ADA accessibility to bathrooms, campgrounds, day-use areas, and docks, thereby adding outdoor opportunities for vulnerable populations. Additionally, projects in the Olympic, Northeast, and Southeast Regions invest in many of Washington's lowest income counties. Improved recreation opportunities not only benefit the health of those communities, but also benefit the local economies. Finally, some project sites are served by Trailhead Direct shuttle stops, which allow people who do not own a vehicle to access public lands using public transportation that originates from urban centers in King County.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Using GIS to overlay the OBC map and the latitude/longitude coordinates for each subproject, there are 12 projects, totaling \$1.7M in investments **in** overburdened communities. This equates to 22% of the funding and 28% of the projects.

Additionally, there are 13 more projects, totaling \$1.5M that are **adjacent to, or serve** OBCs. This was determined either due to proximity (under 30 minutes) and/or connected via public transportation via the Trailhead Direct service in King County. This equates to an additional 19% of the funding and 30% of the projects

Combining the projects *in* OBCs and projects *impacting* OBCs, the totals are: 25 projects (58%) and \$3.2M (41%).

See below table for OBC-related project details

Project Title	OBC?	Estimated Total \$
Dry Hill Parking Area	Y	100,000
Re-pave Leader Lake	Y	350,000
Elbe Hills Upper Elk Spur Trail Bridge Removal/Relocation - Footing Failure	Adjacent	250,000
Straits designated moto trail improvements	Y	50,000
Dry Hill trail modifications	Y	50,000
Toats Coulee Campground Outhouse Single	Y	55,000
Toats Junction Outhouse Single	Y	55,000
Raging River Trail System	Adjacent	100,000
Chopaka Dock	Y	85,000
Blue Lake	Y	500,000
Green Mountain Horse Camp Shelter Replacement	Adjacent	150,000
Snag and Western Lakes ADA boat launch dock	Adjacent	150,000
Buck Creek Trails	Y	100,000
Tahuya Kammenga Canyon Campground Redesign	Adjacent	100,000
North Slope CXT and ADA Lot	Adjacent	70,000
Porter Creek Campground CXT Upgrade	Y	150,000
Anderson Lake CXT Replacement	Y	100,000
Snoqualmie Corridor Vault Toilet Renovations	Adjacent	200,000
North Mountain to Darrington Connection	Y	100,000
North Slope Trail Re-route and bridge	Adjacent	20,000
Elbe ORV Trails	Adjacent	40,000
Tahuya connect 4x4 trail to Goat Ranch road - mitigating rec impacts	Adjacent	150,000
Margaret McKenney Campground Paving	Adjacent	65,000
Tiger Mountain State Forest Trails Reconstruction	Adjacent	150,000
Tahuya armor motorized sites	Adjacent	70,000

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Any public access to outdoor spaces has the potential for negative impacts on Tribes' rights and interests and these project sites are no exception. However, unmanaged public access to the same places can be an equal or greater threat. For this reason, DNR actively manages recreation sites with the knowledge and tools currently at its disposal to minimize those impacts. Recognizing that there is much improvement needed to better understand the impacts of the agency's management actions (or inactions), the recreation program staff are dedicated to engaging with the State-Tribal Recreation Impacts Initiative, convened in spring of 2023, that includes Tribes, GOIA, DNR, Parks, WDFW, and the Recreation and

Conservation Office. This group is currently working to develop objective, measurable metrics for recreation impacts, visitation monitoring, and possible management actions when needed.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

The projects in this request adhere to all SEPA and EO 21-02 requirements for Tribal consultation/feedback and some of them engaged Tribes during comprehensive “landscape planning” processes that occur years before development commences. However, DNR recognizes that this often falls short of “early and often” consultation. For this reason, in 2023 the DNR recreation program halted all new development projects that would result in expanded recreation on its landscapes until after the Outdoor Access and Responsible Recreation strategic plan (OARR) is completed and the Recreation Impacts Initiative develops an agreed-upon process that ensures Tribes are engaged in an appropriate manner, and at earlier times than the status quo. This means that all 44 included sub-projects fall into one of the following categories: management action to reduce impacts, renovation, or completion of an in-progress project.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

Reference 1: Projects & DeliverablesBS002 – Capital Project Request

Department of Natural Resources

Each of the 43 sub-projects addresses the problem by achieving one or more of this proposal's goals to increase sustainability in high use areas, mitigate ORV impacts, improve accessibility and user experience, and increase public safety. The below table highlights one example project from each region, including their deliverable, outcome, and goals achieved. All project outcomes and goals achieved can be found in the sub-project list in this document (pages 9-15).

Project	Deliverables	Goal # (Outcomes)
Tiger Mountain Trail Reconstruction (SPS)	Reconstruct 2 miles of trail and install a bridge to fix unsustainable trail segments, safety issues, and resource damage.	1, 3, 4
Blue Lake Restoration (SE)	Planning and implementation to mitigate sedimentation in the lake from illegal ORV use, including signage, day use area, and parking.	1, 2, 3, 4
Sadie and Foothills motorized trail improvements (OLY)	Build new trails to get current motorized trail routes off active DNR roads and unsanctioned trails.	1, 2, 3, 4
ATV Bridge Replacement and Design (NW)	Purchase and install 4 replacement ATV bridges and design work for additional bridges in high use, high impact areas.	1, 2, 3, 4
Leader Lake Road Improvement (NE)	Repave deteriorating existing asphalt roadway to campsites and boat launch.	1, 3, 4
Snag and Western Lakes ADA dock (PC)	Install a new ADA dock and boat launch to increase accessibility for fishing and kayaking at this popular destination.	1, 3, 4

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 7,753,000**

**Capital Project Name:** 25-27 Safe and Sustainable Recrea  
**Project #:**

- Project Types  
1: Health, safety & code req  
2: Facility preservation  
3: Infrastructure preservation  
4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
Dry Hill Parking Area	OLY	Port Angeles	48.095792, -123.523852	24	1,4	100,000	Build a parking area and trailhead for the Dry Hill mountain bike area. Construct an informational kiosk at trailhead and install signage as needed. NOTE: Due to circumstances outside of DNR's control regarding timber harvests at the parking lot site, which must occur prior to construction, if this project is unable to occur during this biennium we will then shift to the Sadie 4x4 parking area development that is slated for biennium 27-29.
Re-pave Leader Lake	NE	Okanogan	48.360128, -119.697664	7	1,3	350,000	Repave deteriorating existing asphalt roadway from dam to campsites and boat launch on south side of lake.
Motorized planning and development - section 35	PC	Camas	45.701064, -122.277089	17	4	200,000	Plan and begin implementation of motorized recreation in the recently acquired "Section 35" to connect existing trails.
Olsen Creek Bridge	NW	Bellingham	48.764157, -122.344648	42	1,4	748,000	and delivers sediment into the creek. OC Priority Area 3 Critical area assessments contract. Priority Area 2 & 3 trail construction at Olsen Creek. Staff time to perform all prior mentioned tasks.
Naneum Access Road	SE	Ellensburg	47.1198, -120.3831	13	4	750,000	Design and construction of a new road in Cooke Canyon to provide access to the Naneum Ridge State Forest, specifically the Cookie Cutter Trail System. The Naneum Ridge State Forest currently lacks public access and therefore our ability apply for grants to implement the Naneum to Columbia Recreation Plan. This access is the priority for the Naneum Ridge to Columbia River Recreation Plan that was completed 8 years ago and has not been able to be implemented without this access.
Elbe Hills Upper Elk Spur Trail Bridge Removal/Relocation - Footing Failure	SPS	Ashford	46.768689, -122.093056	2	1,3	250,000	imminent danger of falling into a tributary stream of Sahara Creek. One of the footings is becoming compromised by natural stream channel changes. Project would involve dissembling and removing or moving the trail bridge from its current stream crossing. Failure to act will lead to the bridge falling into the stream and causing a potential stream blockage and bridge damage.
Straits designated moto trail improvements	OLY	Port Angeles	48.124939, -123.894184	24	1,4	50,000	Build new motorized trails at Sadie and Foothills to get trail routes off of active DNR roads for safety and improved user experience.
Dry Hill trail modifications	OLY	Port Angeles	48.095792, -123.523852	24	1,4	50,000	Prepare dry hill to be a designated mountain bike trail system by modifying existing trails and creating new ones that will be more accommodating to the general public.
Single	NE	Loomis	48.849, -117.734	7	1,3	55,000	Replace existing old wooden outhouse with new concrete CXT outhouse.
Toats Junction Outhouse Single	NE	Loomis	48.849, -117.737	7	1,3	55,000	Replace existing old wooden outhouse with new concrete CXT outhouse.
Three corner rock trail rehabilitation	PC	Washugal	45.698770, -122.120420	17	4	100,000	Rehabilitate and improve trail damaged by a timber sale, including trailhead and additional parking area.
Teanaway Trails/Recreation	SE	Cle Elum	47.2596, -120.9042	13	1,3,4	250,000	This project is to continue implementation of the West Fork Teanaway Trails Plan and complete the associate sign plan for Phase 2. Other projects identified as a priority in the Teanaway Recreation Plan are planning for a renovation of 29 Pines Camping Area, planning for a water access site on the North Fork Teanaway River and renovating the West Fork Day Use area adjacent to the new West Fork Trailhead to mitigate impacts to the riparian area and water quality.
Raging River Trail System - Final phase completion	SPS	Issaquah	47.509346, -121.844617	5	4	100,000	Additional funding needed to complete final phase of project for RCO 20-1445 grant deliverables due to cost increases.

Walker Valley Parking Lot Expansion A&E	NW	Sedro Woolley	48.375329, -122.169678	39	1,4	80,000	Design support for expanding or moving the Walker Vally trailhead to accommodate 40-50 parking spaces.
Chopaka Dock Installation	NE	Loomis	48.914, -119.702	7	1,3,4	85,000	Purchase and install Dock to improve accessibility, safety, and user experience.
Motorized recreation gate installation	PC	mas/Battlegrou	45.696142, -122.122706	17	1,3	150,000	Replace and improve gates for motorized trail system to prevent illegal use and resource damage.
Reiter Trailhead Connection	NW	Monroe	47.841336, -121.604182	12	1,3	160,000	Design, permit, purchase, and install a bridge over Hogarty Creek to connect new trailhead to existing bouldering areas. This will increase safety by getting users to stop parking on Reiter road in an unsafe manner, and start using the currently being built Reiter Trailhead.
Blue Lake Restoration	SE	Yakima	46.5522, -121.2022	14	1,3	500,000	Planning and implementation of a restoration project at Blue Lake in the Ahtanum State Forest to mitigate sediment delivery to the lake from growing hill climbs and illegal ORV use immediately adjacent to the lake. This would also include educational signage, a day use area and parking providing a sustainable way to enjoy the lake, which is accessed by a 4WD trail. Tribal engagement is planned through region archaeologists and monitoring will likely be required during implementation.
Green Mountain Horse Camp Shelter Replacement	SPS	Bremerton	47.578021, -122.79297	35	1,3	150,000	Purchase and contract installation to replace aging shelter at Green Mountain Horse Camp. Additional funding is to contract demolition of older structure and assembly of replacement shelter kit.
Snag and Western Lakes ADA boat launch dock	PC	selle/Long Bea	46.419486, -123.814878	19	1,3	150,000	Installing new ADA boat launch/dock to increase accessibility, safety, and user experience.
Walker Valley Bridges	NW	Sedro Woolley	48.360966, -122.155003	39	1,3	300,000	Purchase 4 ATV Bridges to replace failing timber bridges with FRP bridges. A&E work for additional trail ATV bridges including designs and permits.
Buck Creek Trails Modernization	SE	Husum	45.8192, -121.5453	14	1,3	100,000	Archaeological survey, planning and implementation of updating the Buck Creek Trail System. This includes decommissioning a series of user built mountain bike trails within the Buck Creek loop. These trails are not designed, permitted or approved and we would like to remove them from the landscape and restore the area. This trail system has been neglected due to lack of staffing and funds for at least 15 years.
Tahuya Kammenga Canyon Campground Redesign	SPS	Belfair	47.479842, -122.918482	35	1,3	100,000	Redesign, planning, and partial construction of improvements to campground. Current access to Kammenga Canyon and Spilman Campgrounds (2 of the 3 motorized campgrounds in Tahuya SF) will be eliminated/restricted with removal of fish barriers during upcoming timber sale. Current plans call for adding much-needed capacity at Kammenga Canyon and connecting it to NE Elfendahl Pass Rd. as a larger looped campground facility. This would mean modifying lease area, and retaining/improving haul road from timber sale, and the grading and improvement of additional sites.
Samish Overlook, Blanchard State Forest Trailhead Expansion AE	NW	Bellingham	48.609590, -122.426196	40	4	250,000	A&E work including permits for construction-ready designs for trailhead expansion at the Samish Overlook in the Blanchard State Forest.
North Slope CXT and ADA Lot	SPS	McCleary	47.053312, -123.1949	35	1,4	70,000	Funds will install accessible CXT and accessible parking area for North Slope Trailhead. This will complete the construction of the new trailhead as the adjacent parking lot was included in the previous biennium of Capital Funds. CXT will replace temporary sanican for this very popular trailhead.
Les Hilde Trailhead Control and Tenure	NW	Sedro Woolley	48.544889, -121.984711	39	4	80,000	Control and Tenure for the Les Hilde Trailhead accessing the Harry Osborne Forest. This compensates the Trust for recreation use of the land.
Porter Creek Campground CXT Upgrade	SPS	Elma	46.974974, -123.256617	19	1,3	150,000	Replace three outdated and failing toilets at the popular and heavily used Porter Creek Campground.
Walker Valley Sustainable Fun Area Phase 1 - Design	NW	Sedro Woolley	48.372849, -122.141709	39	1,4	120,000	A&E work including permits for construction to convert an existing, expired rock pit that's currently open to the public into a challenge area for motorized users.
Anderson Lake CXT Replacement	SPS	Ashford	46.694961, -122.035923	20	1,3	100,000	This would replace the current toilet at the lake. The current building is made with wood and no longer cost effective to repair. The new CTX would be made of concrete and would be able to withstand the weather much better and for a much longer time.
Reiter Foothills, Wallace Falls State Park Trail Connectors	NW	Monroe	47.832155, -121.601728	12	4	120,000	Permitting and trail construction between Reiter Foothills and Wallace Falls State Park.
Snoqualmie Corridor Vault Toilet Renovations	SPS	Varies	47.487364, -121.709978	12	1,3	200,000	This project will renovate twelve concrete vault toilets located in the Snoqualmie Corridor. Work will include relocation of an existing vault toilet, demolition of a defunct composting toilet, and addressing numerous repairs from age and public abuse damage.
North Mountain to Darrington Connection	NW	Darrington	48.273878, -121.626897	39	1,4	100,000	Darrington. This completes the original North Mountain plan to stimulate the Darrington economy.

North Slope Trail Re-route and bridge	SPS	McCleary	47.05331, -123.194332	35	1,3	20,000	Re-route trail and install bridge to prevent mountain bike impacts to a stream and make the trail safe and sustainable.
Reiter Road Safety Improvements	NW	Monroe	47.832155, -121.601728	12	1,3	60,000	Parking barrier adjustments, gate relocation, turnout improvements, kiosks, and signage to improve safety and access along Reiter Road.
Elbe ORV Trails	SPS	Ashford	46.782642, -122.080450	2	1,3	40,000	Rock for trail hardening on the ORV Trails. \$40,000 this would help get material to the trail, which will help hard pack the trails for easier maintenance and operation in the future years.
Tahuya connect 4x4 trail to Goat Ranch road - mitigating rec impacts	SPS	Belfair	47.463452, -122.93158	35	1,3	150,000	Adding a small full size vehicle bridge to connect the Western portions of the 4x4 trails to the G-4000 road to allow return access to the main campgrounds and trailheads. This would reduce gate damage from user getting stuck in the more remote sections of trail after mechanical issues. This could be bundled with the modifications and improvements to Kammenga Canyon Spilman campgrounds that will be needed with the removal of fish barriers eliminating current access routes during upcoming timber sale.
Tiger Mountain - Poo Poo Point Viewpoint & Launch Zone Renovation	SPS	Issaquah	47.499513, -122.008443	5	1,3,4	75,000	This project will renovate the viewpoint and paragliding launch zone at Poo Poo Point as well as a 1 mile segment of the Chirico Trail. Work will restore access to this highly visited site following an upcoming timber harvest, help to address safety issues, and reduce resource damage from high levels of use.
Margaret McKenney Campground and ADA Paving	SPS	Tumwater	46.924442, -123.062754	35	1,3	65,000	Complete original plan of chip sealing campground loops in McKenney Campground. Roads have multiple potholes. Also includes paving of ADA accessible trail to accessible CXT.
Tahuya River Horse Camp	SPS	Belfair	47.467316, -122.942936	35	1,3	150,000	Purchase and contract installation of a shelter at Tahuya River Horse Camp. Additional funding is to contract site preparation and installation of new shelter kit. This project could be bundled with similar project request to replace older shelter at Green Mountain Horse camp to streamline procurement of goods and services for similar projects.
Tiger Mountain State Forest Trails Reconstruction	SPS	Issaquah	47.468309, -121.936724	5	1,3	150,000	This project will reconstruct approximately 2 miles of existing pedestrian and equestrian trails located in Tiger Mountain State Forest following two upcoming timber harvests. Work will include reroutes of unsustainable trail segments and reconstruction of degraded trail segments, as well as the installation of a trail bridge to replace an existing wet ford.
McLane Nature Trail Road Widening	SPS	Olympia	47.00032, -123.003113	35	1,3,4	250,000	Part of the McLane Master Plan. Widen the access road from Delphi to the main parking lot. Pave the new road and parking lot. Result will be increase in vehicle capacity to popular hiking area that is often full.
Tahuya armor motorized sites	SPS	Belfair	47.479863, -122.918437	35	1,3	70,000	Armor around gates, campgrounds and trailheads in popular motorized recreation spots in Tahuya State Forest in order to prevent environmental damage and protect Trust and recreation assets.
McLane Nature Trail Boardwalk Replacement	SPS	Olympia	47.00032, -121.003113	13	1,3	200,000	Replacement of broken and outdated boardwalks throughout 2 mile trail system to improve accessibility, user experience, and safety. Will include geotechnical study and engineering as well as County permits.
Capital project contingency (10%)	Statewide	Statewide	Statewide	Statewide	N/A	500,000	Contingency for cost escalation, emergency repairs due to storm, flood, or fire damage, hazardous trees, illegal activities, or other conditions threatening public safety and ecosystem integrity. Components: Unknown at this time
<b>Total</b>						<b>\$ 7,753,000</b>	

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

## Description

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

### Project Summary

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

### Project Description

#### Project Description:

DNR seeks to renovate and update existing public access on natural areas (including Natural Resources Conservation Areas and Natural Area Preserves) which have been acquired for the purposes of:

- Protecting ecosystems and habitat for rare or endangered species;
- Retaining important scenic and cultural values; and,
- Providing opportunities for educational, scientific and other low-impact recreation or environmental education uses.

This capital budget request funds 38 projects on 33 sites statewide for site protection features and public access improvements, including:

- Public access parking and trailhead facilities
- ADA access
- Fences and gates
- Trail renovations and connections
- Pedestrian trail bridges
- Toilet relocation, reconstruction, or installation
- Kiosks and interpretive shelters
- Viewing platforms
- Interpretive building preservation
- Environmental education and site signage
- Road maintenance improvements
- Relocating or renovating campsites
- Demolition of dilapidated and unsafe structures
- Road-to-trail abandonment and culvert removal
- Surveys, design, and permitting for capital projects

Development and preservation of facilities and infrastructure in conservation areas, or within preserve buffers are key strategies to providing appropriate public access while protecting the public's investment in conservation features. Projects in this small-works capital request are prioritized to achieve multiple goals of public access, environmental education, and conservation, often identified through a community-based planning process.

#### **What will the request produce or construct? When will the project start and be completed?**

Facilities past their useful life will be renovated to maintain current access opportunities that may otherwise be eliminated due to public safety concerns and environmental impacts. Natural features will be interpreted through environmental

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

## Description

education kiosks and signs. Natural features will be protected with repaired and improved fencing. The project list will be completed within the 2025-2027 Biennium.

### How would the request address the problem or opportunity? What would be the result of not taking action?

DNR-managed natural areas with planned opportunities for public access are improved with this facilities preservation and development proposal. Without facilities preservation projects, specific areas of trails have been closed due to resource damage, and in places where use can continue the quality is below public expectations. Without site protection measures, such as fences or road reconstruction, natural resources are at risk of continued impacts without further action.

### What alternatives were explored? Why was the recommended alternative chosen?

Not applicable.

### Which clientele would be impacted by the budget request?

This program will continue to work closely with the Natural Heritage Advisory Council, Pacific Education Institute, programs at local colleges and universities (e.g. UW Rare Care), Washington Environmental Council, Northwest Watershed Institute, The Nature Conservancy, the Trust for Public Land, and numerous land trusts across the state. DNR's work with these partners raises the agency's stature as a key proponent for conservation and highlights the importance of supporting the agency's work restoring ecosystems and providing public access. This statewide project list will improve public access and site protection for 33 project locations in 18 counties (and within 14 legislative districts). These projects benefit all Washingtonians in terms of maintaining conservation values statewide and enhancing quality outdoor experiences that Washingtonians have shown an increased need for since the COVID-19 pandemic. Specific projects will benefit students through increased environmental education access, recreational trail users, and researchers.

### Does this project or program leverage non-state funding? If yes, how much by source?

No.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

DNR-managed natural areas contribute to providing outdoor experiences that promote a greater understanding, and care for our natural world. This capital project funding provides the capacity to support public access and enjoyment of more natural areas statewide, and to preserve high-quality ecosystems and the best remaining habitat for native species to assure continued availability for scientific research and environmental education.

### DNR Strategic Priorities

This package directly supports the DNR Strategic Priority: "Strengthen the health and resilience of our lands and waters." Under Goal D.4: Restored ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity, Strategy D.4.2 reads: "Expand Natural Areas, Natural Heritage, Aquatic Reserves, and other research and conservation programs that support biodiversity and landscape connectivity."

This package also supports three other DNR strategic priorities: Build Strong and Healthy Rural Communities (primarily through increased recreational and environmental education access), Enhance Forest Health and Wildfire Management (by replacing degraded infrastructure with sustainable facilities), and Increase Public Engagement and Commitment to Our Public Lands (by providing public access to Natural Areas).

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

## Description

### Governor's Priorities

Governor Inslee's priorities include the Blue-Ribbon Task Force on Parks and Outdoor Recreation with the following goals:

- Enable outdoor experiences where children and their families can connect with, understand more deeply and grow to appreciate the outdoors.
- Foster a healthier planet so future generations have the same (if not better) opportunities we have today.
- Promote healthier lifestyles for children and adults, reducing obesity and reliance on health care services.
- Help other Washington businesses recruit and retain top-notch employees by drawing attention to our exceptional quality of life.

This project supports **Results Washington** as follows:

1. Healthy Fish and Wildlife: Protect and restore Washington's wildlife, by providing high-quality species habitat and improved watershed health.
2. Clean and Restored Environment: Keep our land, water, and air clean, by providing clean, cool water; watershed protection; healthy air; natural habitats and related ecosystem services.
3. Working and natural lands: Use of lands responsibly, by providing outdoor recreation and environmental education.
4. Reduce the rate of loss of priority habitats (oak woodlands), by providing conservation of oak woodlands within many natural areas.

### Does this request include funding for any IT-related cost?

Not applicable.

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

This proposal is directly aligned with Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, through conservation, research, education, and low-impact public recreation on ecologically important public lands.

The Influential Outcome directly advanced by this proposal include:

- 1.1 Protect habitat and habitat-forming processes from conversion and fragmentation

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy 1: Build Puget Sound wide support to prevent conversion of forests, farms, and natural areas and increase funding for conservation incentives. (ID #1)

Strategy 18: Expand monitoring, research, and assessment of the individual and cumulative impacts and risks of climate change on Puget Sound. (ID #131)

Strategy 18: Empower residents, visitors, climate migrants, and youth to be advocates for climate action. (ID #132)

Key opportunity: Improve awareness of resources and accessibility of relevant information (for example, through language translation and use of open-source resources) to empower residents to protect communities from climate-sensitive harms and advocate for climate action

Strategy 21: Increase access to and visibility of mental health connections to a healthy natural environment (ID # 158)

Key opportunity: Manage and preserve natural areas for stress reduction, motivation, and long-term place attachments

Key opportunity: Increase Park and open space access, especially for marine shorelines, for all people and communities

### The proposal contributes to a secondary priority in the Science Work Plan (SWP):

Supports continuity of scientific efforts

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**Description**

The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan Addendum:

**STRATEGY – Population Growth (3):** Increase and improve regulatory implementation, compliance, enforcement, education, and coordination to increase habitat protection.

Pop Growth: 3.5 Educate the public on the benefits of habitat protection to encourage behavior changes that protect shoreline.

**STRATEGY – Population Growth (6):** Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Capital funding for the Natural Areas Program will improve public access opportunities at natural areas serving local area recreation and environmental education needs.

**How is your proposal impacting equity in the state?**

DNR-managed natural areas, both preserves and conservation areas, are located throughout Washington, protecting the finest remaining examples of natural Washington ecosystems and conservation values. As such, most natural areas are located in rural communities, and many offer public access opportunities for both local and statewide visitors. Before a natural area is acquired, DNR hosts a public review of the proposal that includes a hearing in the community nearest the site. Site-specific management plans include public conversations and review, and projects are reviewed through both SEPA and Tribal consultation. Tribes continue to have traditional access and uses on DNR natural areas.

**Is this project eligible for Direct Pay?**

N/A

**Is there additional information you would like decision makers to know when evaluating this request?**

N/A

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

N/A

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

This project will not add any new Full-time employees (FTE)s to the program. However, in an average biennium, staff in DNR divisions and regions work on these projects and their time is supported by this request. One-time, incidental FTEs are included in the cost estimates for each project. The 2025-27 biennium funded FTEs are likely to include a variety of

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**Description**

department staff with specialty aspects of implementation, such as Natural Areas land management, engineering, cartography, environmental review, crew supervision, equipment operation, natural resources workers, contract administration, etc. Projected total staffing cost is \$859,000 for salary and benefits for the attached sub-project list, including staff in several DNR regions and divisions for approximately 3.44 FTEs. A significant amount of this request will be used for public works contracts or the purchase of materials, both of which provide jobs and economic benefits in the areas in which they are focused.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	5,801,000				5,801,000
	<b>Total</b>	<b>5,801,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,801,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000472

SubProject Title: Pinecroft NAP - Trail improvements and signs

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000472

SubProject Title: Pineroaft NAP - Trail improvements and signs

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Pineroaft NAP - Trail improvements and signs (Recsum text) #1:

Site Protection, including fence repairs, and sign installation and replacements, and creation of educational signs.

**Location**

City: Spokane

County: Spokane

Legislative District: 004

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	80,000				80,000
	<b>Total</b>	<b>80,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000474

SubProject Title: Morning Star NRCA - Toilet Installations

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Morning Star NRCA - Toilet Installations (Recsum text) #2:

Backcountry toilets at the various camping areas throughout the NRCA. Toilet procurement is underway with other funding during the 2023-25 biennium. This work will solve the long-standing issue of lack of human waste management in the NRCA.

**Location**

City: Everett

County: Snohomish

Legislative District: 039

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	136,000				136,000
	<b>Total</b>	<b>136,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>136,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000474

SubProject Title: Morning Star NRCA - Toilet Installations

Narrative

N/A

SubProject Number: 40000480

SubProject Title: Dabob Bay Natural Area - Site protection and hazard-structure

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Dabob Bay Natural Area - Site protection and hazard-structure elimination (Recsum text) #3;**

Demolition & removal of old structures at two newly acquired parcels. Purchase and installation of mulch and native plants throughout disturbed areas.

**Location**

City: Port Townsend

County: Jefferson

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	182,000				182,000
	<b>Total</b>	<b>182,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>182,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000480

SubProject Title: Dabob Bay Natural Area - Site protection and hazard-structure

Operating Impacts

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000482

SubProject Title: Lacamas Prairie Natural Area - Road repair and improvements

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Lacamas Prairie Natural Area - Road repair and improvements (Recsum text) #4;

Repair, maintain, or abandon existing road with grading and rock. Remove fencing. Create parking area.

**Location**

City: Camas

County: Clark

Legislative District: 017

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	45,000				45,000
	<b>Total</b>	<b>45,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000482

SubProject Title: Lacamas Prairie Natural Area - Road repair and improvements

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000488

SubProject Title: Rattlesnake Mtn Scenic Area - North Bend Connector Trail (PS)

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Rattlesnake Mtn Scenic Area - North Bend Connector Trail (Recsum text) #5:

Complete a hiking and biking connection between Rattlesnake Mountain Trailhead and the City of North Bend and Tennant Trailhead. This project is a multi-agency effort by DNR who obtained a WWRP grant (22-1559) and Si View Parks who obtained a King County Open Space Grant (114509) and King County Parks, who co-manages Rattlesnake Mountain Scenic Area with DNR. The project requires multiple trail bridges and boardwalks to complete.

**Location**

City: North Bend

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000488

SubProject Title: Rattlesnake Mtn Scenic Area - North Bend Connector Trail (PS)

Growth Management impacts

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	277,000				277,000
	<b>Total</b>	<b>277,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>277,000</b>

Future Fiscal Periods

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

Narrative

N/A

SubProject Number: 40000491

SubProject Title: Upper Dry Gulch NAP - Site protection fencing

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Upper Dry Gulch NAP - Site protection fencing (Recsum text) #6;

Install fence along recently acquired areas for site protection.

**Location**

City: Wenatchee

County: Chelan

Legislative District: 012

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

**Project Type**

SubProject Number: 40000491

SubProject Title: Upper Dry Gulch NAP - Site protection fencing

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	64,000				64,000
	<b>Total</b>	<b>64,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	0	0	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000501

SubProject Title: Statewide -- Capital Project Contingency Costs

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000501

SubProject Title: Statewide -- Capital Project Contingency Costs

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Statewide -- Capital Project Contingency Costs and Emergency Response (Recsum text) #7:**

Cost escalation retainer, and emergency repairs due to storm, flood, or fire damage, hazardous trees, illegal activities, or other conditions threatening public safety and ecosystem integrity.

**Location**

City: Statewide

County: Statewide

Legislative District: 022

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	127,000				127,000
	<b>Total</b>	<b>127,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>127,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000502

SubProject Title: Northeast Region Natural Areas - Fencing for site protection

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Northeast Region Natural Areas - Fencing for site protection and signs (Recsum text) #8:**

Create and install new signage on all (approximately 10) DNR Northeast Region natural areas, including boundary signs, site-identification signs, kiosks, and regulatory signs.

**Location**

City: Colville

County: Stevens

Legislative District: 007

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	59,000				59,000
	<b>Total</b>	<b>59,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000514

SubProject Title: Lummi Island NRCA - Camping renovations (PS)

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Lummi Island NRCA - Camping renovations (Recsum text) #9:

Lummi Island Camping Renovations, including completion of long-needed renovations to beach access, camp sites and trails in the Lummi Island camping area.

**Location**

City: Bellingham

County: Whatcom

Legislative District: 042

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	219,000				219,000
	<b>Total</b>	<b>219,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>219,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000514

SubProject Title: Lummi Island NRCA - Camping renovations (PS)

Narrative

N/A

SubProject Number: 40000516

SubProject Title: Olympic Region Natural Areas - Boundary markers

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Olympic Region Natural Areas - Boundary markers for site protection (Recsum text) #10;

Purchase, survey and installation of boundary signage for several natural areas: Crowberry Bog, plus the newly transferred lands at Dabob Bay and Devils Lake.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	262,000				262,000
	<b>Total</b>	<b>262,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>262,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000516

SubProject Title: Olympic Region Natural Areas - Boundary markers

Operating Impacts

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000518

SubProject Title: Washougal Oaks Natural Area - Road repair and fencing

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Washougal Oaks Natural Area - Road repair and fencing (Recsum text) #11;

Replace or add fencing for site protection along creek. Grade and rock roads.

**Location**

City: Washougal

County: Clark

Legislative District: 017

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	29,000				29,000
<b>Total</b>		<b>29,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000518

SubProject Title: Washougal Oaks Natural Area - Road repair and fencing

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000520

SubProject Title: Kennedy Creek Natural Area - Environmental education trails

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Kennedy Creek Natural Area - Environmental education trails, trailhead, parking, and signs (Recsum text) #12:**

To develop environmental education and low impact public use facilities that connect with the Kennedy Creek Salmon Trail. This is expected to include final design, permitting, construction of vault toilet, parking area, shelter, and interpretive trails.

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000520

SubProject Title: Kennedy Creek Natural Area - Environmental education trails

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	1,001,000				1,001,000
	<b>Total</b>	<b>1,001,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,001,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000523

SubProject Title: Trout Lake NAP - Public access improvements and signs

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Trout Lake NAP - Public access improvements and signs (Recsum text) #13;**

Create public access improvements, including kiosk and sign installation.

**Location**

City: White Salmon

County: Klickitat

Legislative District: 014

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000523

SubProject Title: Trout Lake NAP - Public access improvements and signs

Growth Management impacts

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	34,000				34,000
	<b>Total</b>	<b>34,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34,000</b>

Future Fiscal Periods

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		057-1	State Bldg Constr-State	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000527

SubProject Title: Little Pend Oreille NAP - Fencing for site protection

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Little Pend Oreille NAP - Fencing for site protection (Recsum text) #14;

Site Protection, including new fence plus fence repairs.

**Location**

City: Colville

County: Stevens

Legislative District: 007

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

**Project Type**

SubProject Number: 40000527

SubProject Title: Little Pend Oreille NAP - Fencing for site protection

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	25,000				25,000
	<b>Total</b>	<b>25,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	0	0	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000528

SubProject Title: Cypress Island Natural Area - Pelican Beach public access repairs

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000528

SubProject Title: Cypress Island Natural Area - Pelican Beach public access repairs

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Cypress Island Natural Area - Pelican Beach public access repairs and renovations (Recsum text) #15:

Including renovations and repairs to boardwalk, picnic shelter and other infrastructure at the Pelican Beach camping area. Also includes trail re-route and improvement work near the campsite area.

**Location**

City: Anacortes

County: Skagit

Legislative District: 040

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	158,000				158,000
	<b>Total</b>	<b>158,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>158,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000529

SubProject Title: Washougal Oaks Natural Area - Parking and road improvements

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Washougal Oaks Natural Area - Parking and road improvements (Recsum text) #16:**

Repair, maintain, or abandon existing road with grading and rock. Remove fencing. Create parking area.

**Location**

City: Washougal

County: Clark

Legislative District: 017

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	45,000				45,000
	<b>Total</b>	<b>45,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000530

SubProject Title: Mount Si NRCA - Parking and trailhead renovation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Mount Si NRCA - Parking and trailhead renovation with public access improvements and interpretive signs (Recsum tex #17);**

Repair subgrade and pave and stripe the existing gravel surfaced parking lot, add stormwater facilities, improve picnic area and add space for education, and work with Tribes to develop interpretive displays to inform the public about the importance of Mount Si, which is a sacred site.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

<u>Acct Code</u>	<u>Account Title</u>	<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
		<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	910,000				910,000
	<b>Total</b>	<b>910,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>910,000</b>

**Future Fiscal Periods**

	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000530

SubProject Title: Mount Si NRCA - Parking and trailhead renovation

Narrative

N/A

SubProject Number: 40000531

SubProject Title: Southeast Region - Multi-site fence repair and sign-kiosk install

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Southeast Region - Multi-site fence repair and sign-kiosk installations (Recsum text) #18;**

Repair or replace old fence, repair sign kiosk, and create and install signs for site protection.

**Location**

City: Ellensburg

County: Kittitas

Legislative District: 013

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	35,000				35,000
	<b>Total</b>	<b>35,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000531

SubProject Title: Southeast Region - Multi-site fence repair and sign-kiosk install

No Operating Impact

Narrative

N/A

SubProject Number: 40000532

SubProject Title: Loomis NRCA - Trail renovations and relocation for site protection

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Loomis NRCA - Trail renovations and relocation for site protection, including signs and trail markers (Recsum text) #19:**  
 Trail Renovations and Relocation, continuing Loomis NRCA management plan implementation for recreation access improvements, trail relocation, and trail markers and signs for resource protection.

**Location**

City: Tonasket

County: Okanogan

Legislative District: 007

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	76,000				76,000
<b>Total</b>		<b>76,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000532

SubProject Title: Loomis NRCA - Trail renovations and reloction for site protection

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000533

SubProject Title: Cattle Point NRCA - Interpretive building renovation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Cattle Point NRCA - Interpretive building renovation and site interpretive facilities (Recsum text) #20:

This project will conduct improvements to the interpretive building at Cattle Point, to protect it against deterioration over time, and to weather-proof it in preparation for eventual placement of interpretive signage within. Work will also include new informational signage, new picnic tables, and trail improvements.

**Location**

City: Friday Harbor

County: San Juan

Legislative District: 040

**Project Type**

Facility Preservation (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000533

SubProject Title: Cattle Point NRCA - Interpretive building renovation

Growth Management impacts

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	187,000				187,000
	<b>Total</b>	<b>187,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>187,000</b>

Future Fiscal Periods

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		057-1	State Bldg Constr-State	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

Narrative

N/A

SubProject Number: 40000534

SubProject Title: Pacific Cascade Region - Multi-site road repair and maintenance

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Pacific Cascade Region - Multi-site road repair and maintenance (Recsum text) #21;**

Road repair and maintenance for five natural areas, including brushing, grading and rock.

**Location**

City: Castle Rock

County: Cowlitz

Legislative District: 019

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

**Project Type**

SubProject Number: 40000534

SubProject Title: Pacific Cascade Region - Multi-site road repair and maintenance

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	31,000				31,000
	<b>Total</b>	<b>31,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	0	0	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000535

SubProject Title: Woodard Bay NRCA - New trail design and construction (PS)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000535

SubProject Title: Woodard Bay NRCA - New trail design and construction (PS)

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Woodard Bay NRCA - New trail design and construction (Recsum text) #22:

Design and construct Phase 1 of interpretive and recreation trails on recently acquired properties. Remove hazards, including trees and fire hazards from trails and structures.

**Location**

City: Olympia

County: Thurston

Legislative District: 022

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	352,000				352,000
	<b>Total</b>	<b>352,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>352,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000536

SubProject Title: Dishman Hills NRCA - Trail renovations and fencing

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Dishman Hills NRCA - Trail renovations and fencing for site protectiontext) #23:**

Implementing the Dishman Hills NRCA management plan for recreation access improvements, trail renovation/relocation, and fence installation for resource protection.

**Location**

City: Spokane

County: Spokane

Legislative District: 004

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	23,000				23,000
	<b>Total</b>	<b>23,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000536

SubProject Title: Dishman Hills NRCA - Trail renovations and fencing

Narrative

N/A

SubProject Number: 40000537

SubProject Title: Cypress Island Natural Area - Strawberry Bay abandoned facility

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Cypress Island Natural Area - Strawberry Bay abandoned facility deconstruction and removal (Recsum text) #24;

Demolition to remove structures and other outdated facilities on property acquired in Strawberry Bay.

**Location**

City: Anacortes

County: Skagit

Legislative District: 040

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	264,000				264,000
	<b>Total</b>	<b>264,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>264,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		057-1	State Bldg Constr-State		
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000537

SubProject Title: Cypress Island Natural Area - Strawberry Bay abandoned facility

No Operating Impact

Narrative

N/A

SubProject Number: 40000538

SubProject Title: Washougal Oaks Natural Area - Remove abandoned structures

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Washougal Oaks Natural Area - Remove abandoned structures and clear impacted area (Recsum text) #25:**

Deconstruct abandoned structures/facilities on recent conservation acquisition and protect site from invasive species.

**Location**

City: Washougal

County: Clark

Legislative District: 017

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

<u>Acct Code</u>	<u>Account Title</u>	<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
		<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	16,000				16,000
	<b>Total</b>	<b>16,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000538

SubProject Title: Washougal Oaks Natural Area - Remove abandoned structures

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000539

SubProject Title: Mount Si NRCA - CCC Bridge installation

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Mount Si NRCA - CCC Bridge installation (Phase 3 of connector trail) (Recsum text) #26:

Install bridge in phase 3 of the CCC-Teneriffe connector trail. This funding would be match to a pending WWRP grant.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000539

SubProject Title: Mount Si NRCA - CCC Bridge installation

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Approps</u>
057-1	State Bldg Constr-State	205,000				205,000
<b>Total</b>		<b>205,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>205,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000540

SubProject Title: Chehalis River Surge Plain NAP - Access Road

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Chehalis River Surge Plain NAP - Access road regrading and rocking plus culvert installation (Recsum text) #27;**  
 Grade, brush and add rock to access road. Rock and brush trail and boat launch. Add culvert for resource protection and replace trail lining.

**Location**

City: Cosmopolis

County: Grays Harbor

Legislative District: 019

**Project Type**

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

**Project Type**

SubProject Number: 40000540

SubProject Title: Chehalis River Surge Plain NAP - Access Road

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	33,000				33,000
	<b>Total</b>	<b>33,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

SubProject Number: 40000541

SubProject Title: Mount Si NRCA -- CCC-Teneriffe connector trail completion (PS)

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000541

SubProject Title: Mount Si NRCA -- CCC-Teneriffe connector trail completion (PS)

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Mount Si NRCA -- CCC-Teneriffe connector trail completion (Recsum text) #28:

Phase 3 completion of CCC-Teneriffe connector trail. This funding would be match to a pending WWRP grant.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	357,000				357,000
	<b>Total</b>	<b>357,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>357,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000542

SubProject Title: Elk River NRCA - Access road regrading and improvements

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

**Elk River NRCA - Access road regrading and improvements (Recsum text) #29:**

Grade and brush existing roads to improve site access for public access and site management or restoration projects. Includes Cultural resources review; all permitting; installation of native plantings for post-disturbance.

**Location**

City: Westport

County: Grays Harbor

Legislative District: 019

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	93,000				93,000
	<b>Total</b>	<b>93,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>93,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000543

SubProject Title: Skookum Inlet NAP - Fence and gate replacement

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Skookum Inlet NAP - Fence and gate replacement for site protection (Recsum text) #30:  
 Upgrade site protection fencing and gate security.

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	36,000				36,000
	<b>Total</b>	<b>36,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	0	0	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000544

SubProject Title: Mount Si NRCA - Design and engineering-permitting

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Mount Si NRCA - Design and engineering-permitting for construction of Teneriffe Falls viewpoint (Recsum text) #31: Architecture and engineering for the construction of a viewpoint at Teneriffe Falls. The viewpoint is currently experiencing heavy erosion and impacts from the number of visitors. Also, site study to identify the structure that would best serve the site.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropr	New Appropr
057-1	State Bldg Constr-State	224,000				224,000
	<b>Total</b>	<b>224,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>224,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000544

SubProject Title: Mount Si NRCA - Design and engineering-permitting

Narrative

N/A

SubProject Number: 40000545

SubProject Title: West Tiger Mountain NRCA - Trail renovation and improvements (PS)

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

West Tiger Mountain NRCA - Trail renovation and improvements (Recsum text) #32;

Trail renovation and maintenance.

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	164,000				164,000
	<b>Total</b>	<b>164,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>164,000</b>

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000545

SubProject Title: West Tiger Mountain NRCA - Trail renovation and improvements (PS)

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000546

SubProject Title: Middle Fork Snoqualmie NRCA - Trail renovation and improvements

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 6

**Project Summary**

The Department of Natural Resources (DNR) Natural Areas Program manages 169,000 acres at 97 conservation and recreation sites statewide for conservation, research, education, and public recreation. This small works capital project funding will support public access and facility preservation on 38 DNR Natural Areas in 18 counties and 14 legislative districts. The 33 projects include new or refurbished trailheads, renovated and improved trail networks, and new pedestrian bridges or boardwalks. This capital project is related to Puget Sound Action Agenda implementation, with 17 of the ecologically sustainable recreation and site protection projects occurring in Puget Sound watersheds in 8 counties.

**Project Description**

Middle Fork Snoqualmie NRCA - Trail renovation and improvements (Recsum text) #33:

Renovation of climbing access trails.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:55PM

Project Number: 40000467

Project Title: 2025-27 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000546

SubProject Title: Middle Fork Snoqualmie NRCA - Trail renovation and improvements

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	52,000				52,000
	<b>Total</b>	<b>52,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>52,000</b>

		<u>Future Fiscal Periods</u>			
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A



### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This capital request is a statewide project list of 33 projects in 18 counties for 38 DNR-managed natural areas. None of these projects create an environmental harm though some projects improve trails, parking or road areas and join sections of trail for recreational connectivity. DNR natural areas, both natural area preserves (NAPs), and natural resources conservation areas (NRCAs) protect high-quality and rare natural features throughout Washington, in perpetuity, for their ecological values and conservation of natural habitats and landscapes.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Eight of the 33 projects on this list are in areas identified on the OFM map. \$783,000 of the overall capital sub-project list of \$5,749,000, or 13.6 percent, fund the eight projects. These projects accomplish the following improvements to natural areas protection or improved, sustainable access: Site protection fencing and signs (for sites within GEOID numbers 53065950100, 53047970300, 53047970400, 53047971000, 53039950200, 53001950100, and 53031950702); Road and trail relocations and upgrades to eliminate environmental impacts and improve sustainability (GEOID numbers 53049950300); Site improvements for environmental education or sustainable low-impact public use (GEOID numbers 53063011702, 53073010900, and 53039950300).

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

DNR-managed natural areas are available for traditional cultural practices by state statute and by DNR policies for conservation land management in natural area preserves and natural resources conservation areas.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

For this capital budget request, once funded by the Legislature, the DNR Natural Areas Program conducts Tribal outreach for projects. During this outreach period, Tribal governments may choose to engage with the DNR to discuss the project scope and provide feedback. This outreach is conducted prior to other mechanisms like SEPA, to ensure the DNR is operating in partnership with Tribal governments and establishing protocol for protecting potentially present cultural resources during construction. Additionally, early outreach is conducted to maximize review time for Tribal government representatives and helps to focus capacity on projects that will actually occur, and lastly because DNR staff are funded on a project-by-project basis to implement this work.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not applicable. This project list is a routine, recurring land management budget request from the DNR Natural Areas Program.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.

# Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 5,800,600**

**Capital Project Name:** Natural Areas Facilities Preservation and Access  
**Project #:** #

Sites with “(PS)” are within Puget Sound watersheds

DRAFT #3 - August 5, 2024

Project Types  
1: Health, safety & code req  
2: Facility preservation  
3: Infrastructure preservation  
4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
Pineroft NAP - Trail improvements and signs	Northeast	Spokane Valley	47.682989 -117.230914	4	2	79,600	Site Protection, including fence repairs, and sign installation and replacements, and creation of educational signs.
Morning Star NRCA - Toilet Installations	Northwest	Everett	48.025609 -121.720071	39	1	136,600	Backcountry toilets at the various camping areas throughout the NRCA. Toilet procurement is underway with other funding during the 23-25 biennium. This work will solve the long-standing issue of lack of human waste management in the NRCA.
Dabob Bay Natural Area - Site protection and hazard-structure elimination	Olympic	Port Townsend	47.492493 -122.484184	24	4	181,600	Demolition & removal of old structures at two newly acquired parcels. Purchase and installation of mulch and native plants throughout disturbed areas. One demolition will be via Public Works Contract and the other will be completed with DNR Olympic Region staff.
Lacamas Prairie Natural Area - Road repair and improvements	Pacific Cascade	Camas	45.648124 -122.485492	17	3	45,600	Repair, maintain, or abandon existing road with grading and rock. Remove fencing. Create parking area.
Rattlesnake Mtn Scenic Area - North Bend Connector Trail <span style="color: red;">(PS)</span>	So. Puget Sound	North Bend	47.509379 -121.843821	5	4	276,600	Complete a hiking and biking connection between Rattlesnake Mountain Trailhead and the City of North Bend and Tennant Trailhead. This project is a multi-agency effort by DNR who obtained a WWRP grant (22-1559) and Si View Parks who obtained a King County Open Space Grant (114509) and King County Parks, who co-manages Rattlesnake Mountain Scenic Area with DNR. The project requires multiple trail bridges and boardwalks to complete

Upper Dry Gulch NAP - Site protection fencing	Southeast	Wenatchee	47.32947 -120.142715	12	4	64,600	Install fence along recently acquired areas for site protection.
Statewide -- Capital Project Contingency Costs and Emergency Response	Statewide	Olympia	statewide	22	1	126,600	repairs due to storm, flood, or fire damage, hazardous trees, illegal activities, or other conditions threatening public safety and ecosystem integrity.
Northeast Region Natural Areas - Fencing for site protection and signs	Northeast	Colville	48.324157 -117.54350	7	2	59,600	Create and install new signage on all (approximately 10) DNR Northeast Region natural areas, including boundary signs, site-identification signs, kiosks, and regulatory signs
Lummi Island NRCA - Camping renovations (PS)	Northwest	Bellingham	48.938661 -119.79072	42	2	218,600	Including completion of long-needed renovations to beach access, camp sites and trails in the Lummi Island camping area.
Olympic Region Natural Areas - Boundary markers for site protection	Olympic	Forks	47.572387 -124.23377	24	4	261,600	Purchase, survey and installation of boundary signage for several natural areas: Crowberry Bog, plus the newly transferred lands at Dabob Bay and Devils Lake.
Washougal Oaks Natural Area - Road repair and fencing	Pacific Cascade	Washougal	45.56485 -122.269312	17	3	29,600	Replace or add fencing for site protection along creek. Grade and rock roads.
Kennedy Creek Natural Area - Environmental education trails, trailhead, parking, and signs (PS)	So. Puget Sound	Shelton	47.09925 -123.086238	35	4	1,001,000	To develop environmental education and low impact public use facilities that connect with the Kennedy Creek Salmon Trail. This is expected to include final design, permitting, construction of vault toilet, parking area, shelter, and interpretive trails.
Trout Lake NAP - Public access improvements and signs	Southeast	White Salmon	46.002888 -121.33148	14	4	33,600	Create public access improvements, including kiosk and sign installation.
Little Pend Oreille NAP - Fencing for site protection	Northeast	Colville	48.354705 -117.325755	7	4	25,600	Site Protection, including new fence plus fence repairs.
Cypress Island Natural Area - Pelican Beach public access repairs and renovations (PS)	Northwest	Anacortes	48.603352 -122.704059	40	3	157,600	Including renovations and repairs to boardwalk, picnic shelter and other infrastructure at the Pelican Beach camping area. Also includes trail re-route and improvement work near the campsite area.
Washougal Oaks Natural Area - Parking and road improvements	Pacific Cascade	Washougal	45.335206 -122.16738	17	4	45,600	Repair, maintain, or abandon existing road with grading and rock. Remove fencing. Create parking area.
Mount Si NRCA - Parking and trailhead renovation with public access improvements and interpretive signs (PS)	So. Puget Sound	North Bend	47.487683 -121.723144	12	3	910,000	existing gravel surfaced parking lot, add stormwater facilities, improve picnic area and add space for education, and work with Tribes to develop interpretive displays to inform the public about the importance of Mount Si, which is a sacred site
Southeast Region - Multi-site fence repair and sign-kiosk installations	Southeast	Ellensburg	47.014493 -120.321890	13	4	34,600	Repair or replace old fence, repair sign kiosk, and create and install signs for site protection

Loomis NRCA - Trail renovations and relocation for site protection, including signs and trail markers	Northeast	Tonasket	48.938661 -119.79072	7	4	76,600	Trail Renovations and Relocation, continuing Loomis NRCA management plan implementation for recreation access improvements, trail relocation, and trail markers and signs for resource protection.
Cattle Point NRCA - Interpretive building renovation and site interpretive facilities (PS)	Northwest	Friday Harbor	48.271576 -122.574626	40	2	186,600	This project will conduct improvements to the interpretive building at Cattle Point, to protect it against deterioration over time, and to weather-proof it in preparation for eventual placement of interpretive signage within. Work will also include new informational signage, new picnic tables, and trail improvements
Pacific Cascade Region - Multi-site road repair and maintenance	Pacific Cascade	Castle Rock	47.052557 -123.054349	19	4	31,600	Road repair and maintenance for five natural areas, including brushing, grading and rock.
Woodard Bay NRCA - New trail design and construction (PS)	So. Puget Sound	Olympia	47.12699 -122.853576	22	4	351,600	Design and construct Phase 1 of interpretive and recreation trails on recently acquired properties. Remove hazards, including trees and fire hazards from trails and structures
Dishman Hills NRCA - Trail renovations and fencing for site protection	Northeast	Spokane Valley	47.649861 -117.297917	4	2	23,600	Implementing the Dishman Hills NRCA management plan for recreation access improvements, trail renovation/relocation, and fence installation for resource protection
Cypress Island Natural Area - Strawberry Bay abandoned facility deconstruction and removal (PS)	Northwest	Anacortes	48.56275 -122.718943	40	4	263,600	Demolition to remove structures and other outdated facilities on property acquired in Strawberry Bay
Washougal Oaks Natural Area - Remove abandoned structures and clear impacted area	Pacific Cascade	Washougal	45.340031 -122.151021	17	4	16,600	Deconstruct abandoned structures/facilities on recent conservation acquisition and protect site from invasive species.
Mount Si NRCA - CCC Bridge installation (Phase 3 of connector trail) (PS)	So. Puget Sound	North Bend	47.487683 -121.723144	12	4	204,600	Install bridge in phase 3 of the CCC-Teneriffe connector trail. This funding would be match to a pending WWRP grant
Chehalis River Surge Plain NAP - Access road regrading and rocking plus culvert installation	Pacific Cascade	Cosmopolis	46.564145 -123.385737	19	3	32,600	Rock and brush trail and boat launch. Add culvert for resource protection, and replace trail lining.
Mount Si NRCA -- CCC-Teneriffe connector trail completion (PS)	So. Puget Sound	North Bend	47.487683 -121.723144	12	4	357,600	Phase 3 completion of CCC-Teneriffe connector trail. This funding would be match to a pending WWRP grant
Elk River NRCA - Access road regrading and improvements	Pacific Cascade	Westport	46.495316 -124.001545	19	3	92,600	Grade and brush existing roads to improve site access for public access and site management or restoration projects. Includes Cultural resources review; all permitting; installation of native plantings for post-disturbance.
Skookum Inlet NAP - Fence and gate replacement for site protection (PS)	So. Puget Sound	Shelton	47.136126 -123.086896	35	4	35,600	Upgrade site protection fencing and gate security

Mount Si NRCA - Design and engineering-permitting for construction of Teneriffe Falls viewpoint <b>(PS)</b>	So. Puget Sound	North Bend	47.48768 -121.7231443	12	4	223,600	Architecture and engineering for the construction of a viewpoint at Teneriffe Falls. The viewpoint is currently experiencing heavy erosion and impacts from the number of visitors. Also, site study to identify the structure that would best serve the site.
West Tiger Mountain NRCA - Trail renovation and improvements <b>(PS)</b>	So. Puget Sound	Issaquah	47.529741 -121.995511	5	2	163,600	Trail renovation and maintenance.
Middle Fork Snoqualmie NRCA - Trail renovation and improvements <b>(PS)</b>	So. Puget Sound	North Bend	47.255282 -121.375634	12	2	51,600	Renovation of climbing access trails.
<b>Total</b>						<b>\$ 5,800,600</b>	<b>(PS) Total = \$4,402,200</b>

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

**Project Number:** 40000664**Project Title:** 2025-27 Minor Works Preservation**Description****Starting Fiscal Year:** 2026**Project Class:** Preservation**Agency Priority:** 21**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. This request is for \$7,646,275.

**Project Description****Project Description:**

The Department must complete a series of projects to replace or repair building components to sustain continued use of the agency's facility inventory across the state. Projects include the replacement of electrical panels and wiring, repair of a fire suppression system, roof repairs, replacement of heating, ventilating and air conditioning (HVAC) systems, replacement of a septic system and mitigation of lead and asbestos finishes. Additionally, the Department has identified five structures that are out of use and represent future liability risks to the agency if left standing.

**What will the request produce or construct? When will the project start and be completed?**

The sub-projects in this request make repairs or necessary modifications to various Department of Natural Resources facilities at multiple locations throughout the state. Two sub-projects remove a total of five unused structures that represent potential future liabilities, and multiple projects improve energy use efficiency as an added benefit to system replacement with equipment meeting current energy use standards. None of the projects has more than a single phase and all work will start and be complete during the '25-27 Biennium.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

The sub-projects in this decision package address requirements to repair or replace building systems or components that are necessary to support safe continued use. Failure to take action on the sub-projects detailed in this decision package will result in continued liability for safety and liability risks inherent in failure complete repairs, legal liability for failure to correct known issues of non-compliance with law or regulation, damage to structures, primarily from moisture intrusion, failure to provide employees with comfortable working conditions as a result of inoperable systems that heat, cool, and control humidity in buildings, increased risk of damage to government and employee owned vehicles due to surface conditions and potential future liability for environmental risks as a result of not removing structures that will release contaminants while in decay.

**What alternatives were explored? Why was the recommended alternative chosen?**

Apart from the two demolition projects, alternatives to repair or replacement were not considered as such courses of action involved relocation of activities that present significantly more inherent cost, or liability for not addressing. In the case of the two demolition projects, the cost of repair or continuing operations at the current locations was inherently more expensive without significant benefit to operations.

**Which clientele would be impacted by the budget request?**

Collectively, these projects directly affect the work environments and efficiency of approximately 400 Department of Natural

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

## Description

Resources employees at 10 sites across the state. The two-demolition project eliminate potential liabilities that indirect potential to affect the various trust beneficiaries of Department managed lands.

### Does this project or program leverage non-state funding? If yes, how much by source?

The sub-projects in this decision package do not leverage non-state funding.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

These projects directly relate to Department's Strategic Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by maintaining safe and adequate working conditions for agency personnel. These projects support Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by allowing the continued use of facilities that effectively position fire, forest health and forestry resources in positions to achieve positive outcomes and with the means to act effectively. Several projects on the sub-project list address this goal as well by preventing pollution of groundwater at specific sites.

### Does this request include funding for any IT-related cost?

The sub-projects in this decision package do not include funding for IT related costs.

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

The sub-projects in this decision package do not relate to the Puget Sound Action Agenda.

### How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?

The sub-projects in this decision package are for structures well below the square footage thresholds established by the Clean Building performance standards. However, several of the projects indirectly relate to reducing greenhouse gas emissions. The sub-projects at Tumwater Compound (two) will replace gas fired systems with electric systems as design criteria in order to reduce emissions. The sub-project to replace the roof at Ellensburg will reduce emissions significantly by reducing heat loss through the roof of the building therefore reducing energy use. The sub-project at Ahtanum to replace the heating system in the latrine/shower building will include transition from propane to electrical systems as design criteria. The sub-project at Menlo to replace the HVAC system(s) will replace older units with modern, more efficient electrical units.

### How is your proposal impacting equity in the state?

This sub-projects in this proposal relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards in Department of Natural Resources facilities. Environmental health includes industrial hazards, and the goal of this proposal is the reduction of environmental industrial hazards

### Is this project eligible for Direct Pay?

The sub-projects in this decision package are not eligible for Direct Pay

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**Description**

**Is there additional information you would like decision makers to know when evaluating this request?**

A slide with locations and photos is attached to this decision package.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

The sub-projects in this decision package do not relate to the Governor's Salmon Strategy.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	7,644,000				7,644,000
	<b>Total</b>	<b>7,644,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,644,000</b>
		<b>Future Fiscal Periods</b>				
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**No Operating Impact**

**Narrative**

There are no immediate effects on operating expenses and no anticipated increases to operating budget. The HVAC projects on the sub-project list and the roof replacement sub-project at Ellensburg should result in lower energy consumption in out-biennia and therefore reduced energy costs, although savings is likely marginal given the trajectory of rising energy costs. The two demolition sub-projects will eliminate a total five structures from the Departments inventory. Future savings from demolition will be limited as the structures draw relatively low amounts of power and other services.

**OFM**

**490 - Department of Natural Resources  
Capital Project Request**

**2025-27 Biennium**

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**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 7:48PM

**Project Number:** 40000664

**Project Title:** 2025-27 Minor Works Preservation

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**Operating Impacts**

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**SubProjects**

**SubProject Number:** 40000665

**SubProject Title:** Meridian Seed Orchard

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

## SubProjects

SubProject Number: 40000665

SubProject Title: Meridian Seed Orchard

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This sub-project includes replacement of feeder lines in addition to panels and wiring. Inspection of several panels indicates evidence of burn marks from overload to current panel boxes at the site in multiple buildings. This project repairs electrical service to six buildings including a greenhouse and the scope was determined by inspection by a third-party and the servicing public utility district (PUD).

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This sub-project includes burying electrical lines on site to reduce overhead hazards and outages in addition to replacement of panels and wiring in six buildings. This project also installs wiring for carbon dioxide monitors in the shower building. The scope for repairs and replacements of components was determined by a third-party inspection of the site.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This sub-project replaces an electrical panel and wiring in the vehicle shop at the Ellensburg shop.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**SubProjects**

SubProject Number: 40000668

SubProject Title: Glenwood electrical repairs

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project replaces several electrical panels and wiring in two buildings.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project is to make repairs to the fire suppression system for the main headquarters building. Project requires installation of new booster pump and apparatus, as well as installation of new sprinklers in portions of the building. Currently, the system does not provide adequate pressure to effectively operate the fire suppression system in the event of a fire.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project is to prevent freezing of pipes associated with both the HVAC and fire suppression systems in the attic space of the main building at the site. The attic has no insulation and pipes, including the fire suppression system, have failed resulting in water damage on multiple occasions. Due to the construction of the building, the only method to install insulation is to replace the roof and install rigid insulation panels as part of the roof membrane. This sub-project will improve the energy performance of the facility.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

## SubProjects

SubProject Number: 40000671

SubProject Title: Ahtanum Fire Camp septic replacement

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This sub-project replaces the failed septic system at Ahtanum Fire Camp that services the camp kitchen and latrine/shower facilities. A third-party inspection of the system indicated clear signs of system failure. The existing septic system dates to 1968. A new system will require significantly more drain field, a larger tank capacity and a new design to meet current code requirements.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This sub-project replaces the structural posts along the front face of the building of the shop building that support the building bays. The posts support the openings for the garage doors. The posts are original to the structure and have suffered damage from vehicles over decades of operation. The posts are no longer true and show evidence of structural stress.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This project mitigates the flow of storm water run-off from the county road to prevent continued flow and pooling against three buildings on the east side of the site. Repairs to the county road altered the drainage volume of water downhill from the road and increased the volume of water that inundates the soil adjacent to the buildings and pools in the crawl space underneath one of the buildings. This project will install new drainage structures to divert the run-off away from the structures and capture the runoff in an area where it can infiltrate into the soil.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**SubProjects**

SubProject Number: 40000674

SubProject Title: Chehalis Office asbestos &amp; Lead

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This project removes the original asbestos tiles from the floors and asbestos filler around windows as well as mitigates lead paint use in the original wing of the office building in Chehalis. This project will replace the original floor that is now damaged after decades of use.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project replaces plumbing, plumbing fixtures and the HVAC system for the shower and latrine building that supports the fire camp. The scope includes installation of a ventilation system to eliminate future damage from moisture. This sub-project also mitigates mold damage caused by the lack of ventilation in the facility.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project resurfaces two building roofs at the Menlo Work Center. Both the office building and the shop building require new roofs to remain weather tight.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**SubProjects**

SubProject Number: 40000677

SubProject Title: Longview Fire Station Roof Repair

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project replaces the roof surface for the portion of the building covered by a flat roof with a new membrane to keep the building weather tight.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project replaces the boiler that supplies hot water to the building. The current boiler is not functioning properly and is at the point of replacement. The Department plans to replace the natural gas boiler system with an electrical boiler system.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project repairs damage to a portion of the roof of the conference center building at the Department's compound in Forks to keep the building weather tight.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

## SubProjects

SubProject Number: 40000680

SubProject Title: Menlo Office HVAC replacement

### Project Description

This sub-project replaces the current furnace and several window-mounted air conditioning units with a more efficient system that provides air circulation as well as heating and cooling to the Department's Menlo Work Center office. The current system does not effectively provide adequate temperature control for the building and is past end of life cycle.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This sub-project replaces the failing HVAC system for the office building at the Department's Tumwater Compound. This project will install a new system that will perform more efficiently than the original system which has reached the end of its life cycle.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This project repairs select portions of the asphalt throughout the compound that have failed and corrects drainage flow and repairs several drain structures on the site so that run-off flows into the drains.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

### Project Summary

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

### Project Description

This sub-project removes the two buildings and the small outbuilding from the Department's site north of Morton. The buildings have been out of use for more than a decade and site conditions prevent future use. The site no longer has a water supply, and the site will not support replacement of the original septic systems. The buildings currently represent an attractive

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**SubProjects**

SubProject Number: 40000683

SubProject Title: Morton Building Demolition (2 buildings)

nuisance and a liability to the Department and have repeatedly received damage from gunfire.

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 21

**Project Summary**

The sub-project list of minor works preservation projects in this request addresses Department of Natural Resources (DNR) requirements to conduct deferred facility repairs or system replacements at multiple locations across the state. These sub-projects will eliminate liabilities, hazards to health, life and safety or will sustain facility use at various locations. Our sub-project request is \$7,646,275.

**Project Description**

This sub-project removes three buildings at Larch Camp that are not in use and represent potential environmental and safety liabilities if not removed. The three structures include an inactivated tree cooler (refrigerated building), an unconditioned storage building with failing structural members and the vehicle fuel point and fuel tanks.

**Location**

City: Castle Rock	County: Cowlitz	Legislative District: 020
City: Castle Rock	County: Cowlitz	Legislative District: 020
City: Chehalis	County: Lewis	Legislative District: 020
City: Chehalis	County: Lewis	Legislative District: 020
City: Ellensburg	County: Kittitas	Legislative District: 007
City: Ellensburg	County: Kittitas	Legislative District: 007
City: Forks	County: Clallam	Legislative District: 024
City: Lacey	County: Thurston	Legislative District: 002
City: Longview	County: Cowlitz	Legislative District: 019
City: Morton	County: Lewis	Legislative District: 004
City: Tumwater	County: Thurston	Legislative District: 022
City: Tumwater	County: Thurston	Legislative District: 022
City: Unincorporated	County: Klickitat	Legislative District: 014
City: Unincorporated	County: Pacific	Legislative District: 013
City: Unincorporated	County: Pacific	Legislative District: 019
City: Yacolt	County: Clark	Legislative District: 004
City: Yakima	County: Yakima	Legislative District: 015
City: Yakima	County: Yakima	Legislative District: 015
City: Yakima	County: Yakima	Legislative District: 015
City: Yakima	County: Yakima	Legislative District: 015

**Project Type**



490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**SubProjects**

SubProject Number: 40000665

SubProject Title: Meridian Seed Orchard

Growth Management impacts

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**SubProjects**

SubProject Number: 40000678

SubProject Title: Tumwater Office latrine boiler replacement

Growth Management impacts

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	489,000				489,000
057-1	State Bldg Constr-State	479,000				479,000
057-1	State Bldg Constr-State	53,000				53,000
057-1	State Bldg Constr-State	73,000				73,000
057-1	State Bldg Constr-State	389,000				389,000
057-1	State Bldg Constr-State	732,000				732,000
057-1	State Bldg Constr-State	329,000				329,000
057-1	State Bldg Constr-State	123,000				123,000
057-1	State Bldg Constr-State	506,000				506,000
057-1	State Bldg Constr-State	529,000				529,000
057-1	State Bldg Constr-State	447,000				447,000
057-1	State Bldg Constr-State	473,000				473,000
057-1	State Bldg Constr-State	323,000				323,000
057-1	State Bldg Constr-State	56,000				56,000
057-1	State Bldg Constr-State	273,000				273,000
057-1	State Bldg Constr-State	132,000				132,000
057-1	State Bldg Constr-State	1,415,000				1,415,000
057-1	State Bldg Constr-State	199,000				199,000
057-1	State Bldg Constr-State	254,000				254,000
057-1	State Bldg Constr-State	370,000				370,000
<b>Total</b>		<b>7,644,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,644,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

**SubProjects**

SubProject Number: 40000665

SubProject Title: Meridian Seed Orchard

		Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
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057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 7:48PM

**Project Number:** 40000664

**Project Title:** 2025-27 Minor Works Preservation

**SubProjects**

**SubProject Number:** 40000665

**SubProject Title:** Meridian Seed Orchard

No Operating Impact

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:48PM

Project Number: 40000664

Project Title: 2025-27 Minor Works Preservation

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**SubProjects**

SubProject Number: 40000665

SubProject Title: Meridian Seed Orchard

Narrative

N/A

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## **HEAL Act Questions**

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12)?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

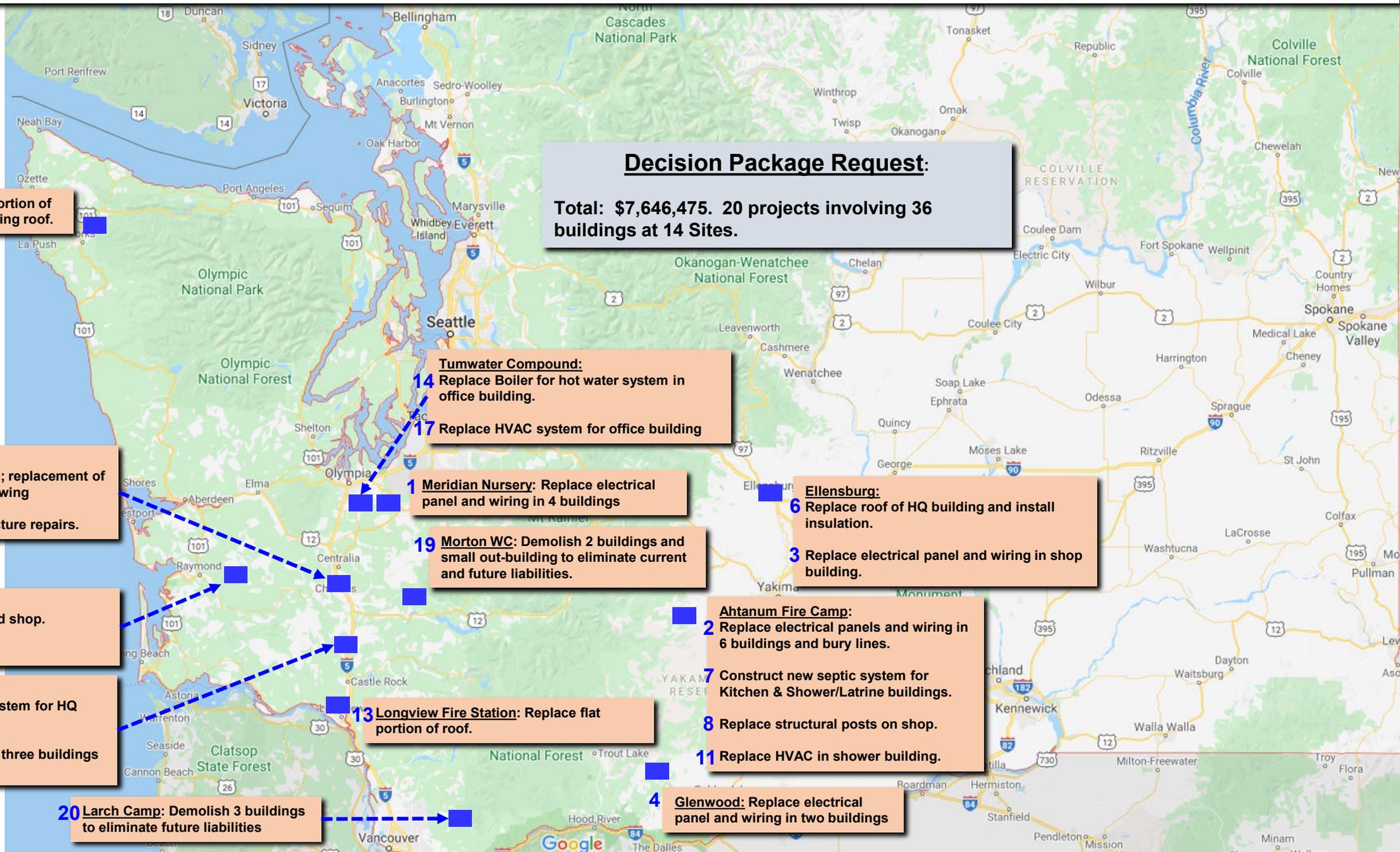
N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your

agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

# Proposed Capital Minor Works Preservation Projects – ‘25-’27 Budget Decision Package



**Decision Package Request:**  
**Total: \$7,646,475. 20 projects involving 36 buildings at 14 Sites.**

**15 Forks:** Replace portion of Conference Building roof.

**Chehalis:**  
**10** Asbestos & lead mitigation; replacement of surfaces in office building wing  
**18** Asphalt and drainage structure repairs.

**Menlo:**  
**12** Replace roofs on office and shop.  
**16** Replace HVAC in office

**Castle Rock:**  
**5** Repair fire suppression system for HQ building.  
**9** Storm water mitigation for three buildings to protect from run-off

**20 Larch Camp:** Demolish 3 buildings to eliminate future liabilities

**Tumwater Compound:**  
**14** Replace Boiler for hot water system in office building.  
**17** Replace HVAC system for office building

**1 Meridian Nursery:** Replace electrical panel and wiring in 4 buildings

**19 Morton WC:** Demolish 2 buildings and small out-building to eliminate current and future liabilities.

**13 Longview Fire Station:** Replace flat portion of roof.

**Ahtanum Fire Camp:**  
**2** Replace electrical panels and wiring in 6 buildings and bury lines.  
**7** Construct new septic system for Kitchen & Shower/Latrine buildings.  
**8** Replace structural posts on shop.  
**11** Replace HVAC in shower building.

**4 Glenwood:** Replace electrical panel and wiring in two buildings

**Ellensburg:**  
**6** Replace roof of HQ building and install insulation.  
**3** Replace electrical panel and wiring in shop building.



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:58PM

Project Number: 40000143

Project Title: Whiteman Cove Restoration

## Description

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 99

### Project Summary

With funding allocated in 2023, the Department of Natural Resources (DNR) has begun construction of the Whiteman Cove Restoration Project to reestablish fish passage between Whiteman Cove and Case Inlet in Puget Sound. Restoration at this site will meet the requirements of the 2013 federal court injunction, which requires fish passage for “all species of salmon at all life stages at all flows where the fish would naturally seek passage” (United States v. Washington). DNR is requesting reappropriation of \$1,000,000 to continue construction into the 2025-27 biennium. This work is related to the Puget Sound Action Agenda Implementation and implementing the Governor’s Salmon Strategy.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

Whiteman Cove is a historical pocket estuary, separated from Case Inlet by a natural spit. The historical opening to the cove, located at the northern end of the spit, was closed in 1962 by the Washington Department of Fisheries to create a perched brackish water lagoon that was intended for the rearing of juvenile salmon. Water levels in the cove are currently regulated by two tide gates (that are not operating as originally designed) that regulate minimal saltwater exchange between the perched lagoon and Case Inlet in order to maintain water levels in the cove. Freshwater input to the cove comes primarily from a small intermittent stream (Whiteman Creek) at the eastern end of the cove that drains the approximately 1.7-square-mile upland watershed. Properties adjacent to the cove include Joemma Beach State Park to the northwest, and private properties inland along the cove’s south shoreline and the northeast portion of the cove. Whiteman Cove itself includes Washington Department of Natural Resources (DNR) managed property along the northwest portion of the spit and YMCA Camp Colman south of the DNR parcel. The roadway berm, which separates Whiteman Cove from Case Inlet is managed by DNR at the north segment and by Camp Colman along the southern segment of the access road, which leads to Camp Colman to the west.

DNR has received funds to procure a construction contractor to complete the work and to contract a professional bridge engineering firm for construction inspection. DNR is requesting a reappropriation of \$1,000,000 to continue construction into the 2025-27 biennium. If current schedule is maintained, construction will be completed by June 30, 2025; however, any delays would result in continuation of work into the next biennium.

#### What will the request produce or construct? When will the project start and be completed?

This is the final phase of the Whiteman Cove Restoration Project, to be completed by June 30, 2025.

#### How would the request address the problem or opportunity? What would be the result of not taking action?

The request will allow DNR to complete removal of the fish barrier as required by the federal injunction. DNR would be in violation of United States v. Washington, Permanent Injunction regarding Culvert Correction if this action is not taken. The injunction required that fish passage at Whiteman Cove is re-established by 2016, and DNR is currently in non-compliance.

#### What alternatives were explored? Why was the recommended alternative chosen?

Because this project is required by the federal injunction and will be at or nearing completion by June 30, 2025, no alternatives were considered to this reappropriation request.

#### Which clientele would be impacted by the budget request

The following property owners are directly impacted by the project:

- Seattle YMCA Camp Colman
- Seventeen Whiteman Cove property owners/residents
- One shellfish farm (geoduck) on adjacent tidelands (temporal impact if any)

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:58PM

Project Number: 40000143

Project Title: Whiteman Cove Restoration

## Description

- Joemma Beach State Park (slight realignment of existing road on State Parks property)

Tribes, particularly Squaxin Island, Nisqually, and Puyallup Tribes, are directly and indirectly impacted by completion of this project, which is part of the United States v. Washington, Permanent Injunction regarding Culvert Correction.

**Does this project or program leverage non-state funding? If yes, how much by source?**

No.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project will fulfill DNR's obligation under United States v. Washington and the State's obligation to meet associated Treaty Rights. This project supports a top salmon restoration priority in the South Puget Sound identified by the South Sound Salmon Enhancement Group and Wild Fish Conservancy.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

Not applicable.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda by addressing a fish passage barrier and restoring pocket estuary habitat.

The Influential Outcomes directly advanced by this proposal include:

- 1.3 Restore natural flows, fish passage, flooding, and tidal inundation to freshwater and marine systems by removing structural barriers or altering their management
- 1.4 Restore habitat and habitat-forming processes to support biological communities
- 3.4 Ensure sustainable harvest of native wild fish and shellfish populations and support treaty reserved fishing rights
- 4.3 Increase the resilience of the Puget Sound ecosystem and recovery efforts by adapting to changing climate and ocean conditions when conducting protection and restoration activities

The Strategies, Actions, and Key Opportunities directly advanced by this proposal include:

Strategy 5: Increase the number and accelerate implementation of habitat acquisition and restoration projects as prioritized in salmon and watershed recovery plans. (ID #12)

Key opportunity: Remove culverts and other barriers to connectivity to improve and maintain streamflow functions within floodplains and their associated estuaries

Strategy 5: Implement habitat protection and restoration projects that restore or maintain natural nutrient attenuation functions and sediment processes in watersheds, estuaries, and tidal wetlands (ID #24)

Strategy 6: Inventory and assess all fish passage barriers (culverts, dams, etc.). Prioritize, sequence, and implement fish passage barrier correction or removal in watersheds. (ID #152)

Key opportunity: Fulfill the state's obligation to replace fish passage culverts

The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 45: Mitigate the impact of a changing climate by accelerating and increasing action to increase the resiliency and vitality of salmon populations and the ecosystems on which they depend

The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY - Estuaries (2):** Accelerate estuary restoration.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:58PM

Project Number: 40000143

Project Title: Whiteman Cove Restoration

**Description**

Estuaries: 2.2 Educate legislators, private property owners, ports, and public and private funders about the need for deltas and pocket estuary habitat for salmon recovery, how much work remains to be done, and set expectations for when results...

**STRATEGY - Climate (1):** Protect and restore critical habitats and ecosystem functions.

Climate: 1.4 Identify, protect and restore cold-water refugia (e.g., riparian areas, riffles, pools; remove fish passage barriers to expand access to spawning habitat).

**STRATEGY - Climate (2):** Improve coordination among and between practitioners to incentivize and advance climate-informed salmon recovery goals.

***How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clear Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?***

Not applicable.

**How is your proposal impacting equity in the state?**

The project is taking place on Key Peninsula and directly impacts Tribal Treaty Rights and the YMCA.

Under the 2013 federal court ruling *United States v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures." In accordance with the ruling, DNR is seeking to remove the tide gate under state ownership at Whiteman Cove and restore fish passage and a channel between Whiteman Cove and Case Inlet.

The YMCA of Greater Seattle's Camp Colman is located along the southwest shore of Whiteman Cove, which hosts an extensive aquatics program with the warm-lake-like waters of Whiteman Cove as a central feature of the Camp's identity and recreational amenities for the last several decades. Restoring free-flowing tidal influence to the estuary will inevitably change the landscape of Camp Colman, which presents an opportunity to reimagine environmental education programs while maintaining the mission of providing impactful outdoor experiences and water safety education. During the 2021 Legislative Session, the Washington State Legislature provided an appropriation for DNR and YMCA to scope, plan, and advance a Camp Coleman experience consistent with the estuary restoration. The plan includes a future vision for Camp Colman centered around environmental education, experiential learning, Pacific Northwest history, salmon lifecycles, marine ecosystems, shellfish, climate change, and the Coast Salish People, Squaxin Island Tribes, and other northwest indigenous cultures. The restoration of Whiteman Cove presents an incredible learning opportunity to be an endless source of adventure and inquiry for summer campers and guests year-round. Funding for Camp Coleman is addressed separately from this decision package but is relevant to the overall equity impacts of Whiteman Cove Restoration.

**Is this project eligible for Direct Pay?**

Not applicable.

**Is there additional information you would like decision makers to know when evaluating this request?**

The current configuration is a fish barrier that violates treaty rights and identified on the removal list under *United States v. Washington*. The removal of this barrier is important to Washington's Treaty Tribes and particularly the Squaxin Island Tribe. DNR has already missed the 2016 deadline for removing the barrier.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This project is linked to the Governor's Salmon Strategy Goal 3: "Correct fish passage barriers and restore salmon access to their historical habitat." It specifically supports the following action under Goal 3: "Complete the requirements of the culvert injunction for correcting state-owned fish barriers by 2030."

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:58PM

Project Number: 40000143

Project Title: Whiteman Cove Restoration

**Description**

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

**Location**

City: Unincorporated

County: Pierce

Legislative District: 026

**Project Type**

Remodel/Renovate/Modernize (Major Projects)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	6,937,000		5,937,000	1,000,000	
	<b>Total</b>	<b>6,937,000</b>	<b>0</b>	<b>5,937,000</b>	<b>1,000,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

Under the 2013 federal court ruling *United States v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at “dams, culverts, tide gates, dikes, and other instream structures.” DNR now working to remove the non-functioning tide gate and restore fish passage and a channel between Whiteman Cove and Case Inlet.

The project would improve fish access and allow juvenile salmonids to enter and rear in the pocket estuary over the majority of the tidal cycle similar to natural conditions. Studies from the Skagit River indicate that pocket estuaries can provide important rearing habitat for multiple salmonid species, but particularly Chinook salmon because they use estuarine habitats for longer periods of time than other salmonids. Studies at the Nisqually Delta have also shown that restoring tidal influence to formerly diked pastureland restored a mix of salt marsh and mudflat habitats that provided important prey resources for juvenile Chinook salmon. Marine fish are also anticipated to use the lagoon for rearing and spawning, including sculpin species. Mudflats and salt marshes are highly productive areas, and the export of nutrients, detritus, and insects from the lagoon would most likely further enhance the food web of Case Inlet. The new open channel would allow increased flushing and tidal exchange, which would be beneficial for both salmonids and marine fish species.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM’s [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

The project will not occur in an overburdened community and vulnerable population as shown in the OBC map. However, Tribes, particularly Squaxin Island, Nisqually, and Puyallup Tribes, are directly and indirectly impacted by completion of this project. The current configuration is a fish barrier that

violates treaty rights and identified on the removal list under *United States v. Washington*. The removal of this barrier is important to Washington's Treaty Tribes.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Under the 2013 federal court ruling *United States v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures." The current configuration is a fish barrier that violates treaty rights and identified on the removal list under *United States v. Washington*. The removal of this barrier is important to Washington's Treaty Tribes and particularly the Squaxin Island Tribe. DNR has already missed the 2016 deadline for removing the barrier.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support, and any direction provided by Tribes through this engagement.

Under the 2013 federal court ruling *United States v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures." The current configuration is a fish barrier that violates treaty rights and identified on the removal list under *United States v. Washington*.

DNR closely engaged with the tribes during the permitting process, which influenced design and monitoring of the work.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not applicable.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**Description**

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description*****Identify the problem or opportunity addressed. Why is the request a priority?***

The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**What will the request produce or construct? When will the project start and be completed?**

Continuation of existing funding would allow completion of projects, including some that are matching dollars for active grants in hand, to renovate or improve public access and minimize environmental impacts. Project components include:

- Public access parking and trailhead facilities (including toilets)
- ADA access
- Fences and gates
- Trail renovations and connections
- Pedestrian trail bridges
- Kiosks and interpretive shelters
- Environmental education and site signage

**How would the request address the problem or opportunity? What would be the result of not taking action?**

DNR-managed natural areas with planned opportunities for public access are improved with this facilities preservation and development proposal. Without facilities preservation projects, specific areas of trails have been closed due to resource damage, and in places where use can continue the quality is below public expectations. Without site protection measures, such as fences or road reconstruction, natural resources are at risk of continued impacts without further action.

**What alternatives were explored? Why was the recommended alternative chosen?**

N/A

**Which clientele would be impacted by the budget request?**

N/A

**Does this project or program leverage non-state funding? If yes, how much by source?**

N/A

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

DNR-managed natural areas contribute to providing outdoor experiences that promote a greater understanding, and care for,

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

## Description

our natural world. This capital project funding provides the capacity to support public access and enjoyment of more natural areas statewide, and to preserve high-quality ecosystems and the best remaining habitat for native species to assure continued availability for scientific research and environmental education.

### DNR Strategic Priorities

This package directly supports the DNR Strategic Priority: "Strengthen the health and resilience of our lands and waters." Under Goal D.4: Restored ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity, Strategy D.4.2 reads: "Expand Natural Areas, Natural Heritage, Aquatic Reserves, and other research and conservation programs that support biodiversity and landscape connectivity."

This package also supports three other DNR strategic priorities: Build Strong and Healthy Rural Communities (primarily through increased recreational and environmental education access), Enhance Forest Health and Wildfire Management (by replacing degraded infrastructure with sustainable facilities), and Increase Public Engagement and Commitment to Our Public Lands (by providing public access to Natural Areas).

### Governor's Priorities

Governor Inslee's priorities include the Blue-Ribbon Task Force on Parks and Outdoor Recreation with the following goals:

- Enable outdoor experiences where children and their families can connect with, understand more deeply and grow to appreciate the outdoors.
- Foster a healthier planet so future generations have the same (if not better) opportunities we have today.
- Promote healthier lifestyles for children and adults, reducing obesity and reliance on health care services.
- Help other Washington businesses recruit and retain top-notch employees by drawing attention to our exceptional quality of life.

This project supports **Results Washington** as follows:

1. Healthy Fish and Wildlife: Protect and restore Washington's wildlife, by providing high-quality species habitat and improved watershed health.
2. Clean and Restored Environment: Keep our land, water, and air clean, by providing clean, cool water; watershed protection; healthy air; natural habitats and related ecosystem services.
3. Working and natural lands: Use of lands responsibly, by providing outdoor recreation and environmental education.
4. Reduce the rate of loss of priority habitats (oak woodlands), by providing conservation of oak woodlands within many natural areas.

**Does this request include funding for any IT-related cost?**

No.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

The Influential Outcome **directly** advanced by this proposal include:

1.1 Protect habitat and habitat-forming processes from conversion and fragmentation

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy 1: Build Puget Soundwide support to prevent conversion of forests, farms, and natural areas and increase funding for conservation incentives. (ID #1)

Strategy 18: Expand monitoring, research, and assessment of the individual and cumulative impacts and risks of climate change on Puget Sound. (ID #131)

Strategy 18: Empower residents, visitors, climate migrants, and youth to be advocates for climate action. (ID #132)

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

## Description

· Key opportunity: Improve awareness of resources and accessibility of relevant information (for example, through language translation and use of open-source resources) to empower residents to protect communities from climate-sensitive harms and advocate for climate action

Strategy 21: Increase access to and visibility of mental health connections to a healthy natural environment (ID # 158)

· Key opportunity: Manage and preserve natural areas for stress reduction, motivation, and long-term place attachments

· Key opportunity: Increase park and open space access, especially for marine shorelines, for all people and communities

**The proposal contributes to a secondary priority in the Science Work Plan (SWP):**

· Supports continuity of scientific efforts

**The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan**

**Addendum:**

**STRATEGY – Population Growth (3):** Increase and improve regulatory implementation, compliance, enforcement, education, and coordination to increase habitat protection.

Pop Growth: 3.5 Educate the public on the benefits of habitat protection to encourage behavior changes that protect shoreline.

**STRATEGY – Population Growth (6):** Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

No.

**How is your proposal impacting equity in the state?**

DNR-managed natural areas, both preserves and conservation areas, are located throughout Washington, protecting the finest remaining examples of natural Washington ecosystems and conservation values. As such, most natural areas are often located in rural communities and many offer public access opportunities both local and for statewide visitors. The projects in this re-appropriation request are front-country sites near the state's largest urban areas that provide easy access to outdoor recreation. Before a natural area is acquired, DNR hosts a public review of the proposal that includes a hearing in the community nearest the site. Site-specific management plans include public conversations and review, and projects are reviewed through both SEPA and tribal consultation. Tribes continue to have traditional access and uses on DNR natural areas.

**Is this project eligible for Direct Pay?**

No.

**Is there additional information you would like decision makers to know when evaluating this request?**

No.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**Description**

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

n/a

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	5,092,000		2,307,000	2,785,000	
	<b>Total</b>	<b>5,092,000</b>	<b>0</b>	<b>2,307,000</b>	<b>2,785,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

These projects, whether for site protection or for facility improvements, in general reduce ongoing maintenance cost or the need for restoration of ecologically impacted areas. For any newly created facilities (as opposed to refurbishment) the projects will have a small, marginal amount of future ongoing operating allotments via a "maintenance level" budget request for future biennia.

**SubProjects**

SubProject Number: 40000483

SubProject Title: West Tiger Mountain - High Point Trailhead Improvements

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000483

SubProject Title: West Tiger Mountain - High Point Trailhead Improvements

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Construction of Mountains to Sound Greenway - High Point Gateway Trailhead & Facility Construction Phase 1, including interpretive gateway facility, parking, and educational elements. Partners include the City of Issaquah and King County, providing accesses to more than 60 miles of trails for hiking, mountain biking and equestrian use. Funds provide match to a 2020 RCO grant application.

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Operating Impacts****No Operating Impact**

SubProject Number: 40000484

SubProject Title: West Tiger Mountain - High Point Connector Trail

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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SubProject Number: 40000484

SubProject Title: West Tiger Mountain - High Point Connector Trail

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Construct new connector trail from new High Point Trailhead Expansion and Renovation to West Tiger Mountain hiking trail system. Provides safe and efficient connection between current and planned trailheads within the trail system.

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Operating Impacts**

No Operating Impact

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SubProject Number: 40000486

SubProject Title: West Tiger Mountain - Forest Loop Trail Access

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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SubProject Number: 40000486

SubProject Title: West Tiger Mountain - Forest Loop Trail Access

Starting Fiscal Year: 2026

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Expand and pave current trailhead parking for ADA access. Improve interpretive forest trails for safety and natural resource protection. Funds provide match for a 2020 RCO grant application

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Operating Impacts**

No Operating Impact

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SubProject Number: 40000286

SubProject Title: West Tiger Mtn. NRCA - Tradition Plateau Entry Access

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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SubProject Number: 40000286

SubProject Title: West Tiger Mtn. NRCA - Tradition Plateau Entry Access

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Construct Mountains to Sound Greenway Tradition Plateau Access including new forest entry circle, electrical relocation and King County regional trail connections under I-90. Grant match.

**Location**

City: Issaquah

County: King

Legislative District: 002

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Operating Impacts****No Operating Impact**

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SubProject Number: 40000306

SubProject Title: West Tiger Mtn. NRCA - New High Point Trail

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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SubProject Number: 40000306

SubProject Title: West Tiger Mtn. NRCA - New High Point Trail

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Construct new trail from Traditional Plateau Improvements to West Tiger Mountain hiking trail system. Provides safe and efficient connection between current and planned trailheads within the trail system. Grant match.

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

Operating Impacts

No Operating Impact

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SubProject Number: 40000308

SubProject Title: Rattlesnake Mountain Scenic Area (NRCA) - Connector Trail

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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SubProject Number: 40000308

SubProject Title: Rattlesnake Mountain Scenic Area (NRCA) - Connector Trail

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Complete 4 mile trail connection for Si View Parks/King County Parks Trailhead to Rattlesnake Mountain and install multiple trail bridges. Grant match.

**Location**

City: North Bend

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

Operating Impacts

No Operating Impact

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SubProject Number: 40000313

SubProject Title: Oak Patch NAP - Reconstruct Perimeter Fence for Site Protection

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

SubProject Number: 40000313

SubProject Title: Oak Patch NAP - Reconstruct Perimeter Fence for Site Protection

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Reconstruct perimeter fence after prescribed fire treatment to prevent potential resource damage.

**Location**

City: Bremerton

County: Kitsap

Legislative District: 035

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

Operating Impacts

No Operating Impact

SubProject Number: 40000314

SubProject Title: West Tiger Mtn. NRCA - ADA Trail Access

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Expand and pave parking for ADA access. Improve interpretive trails for safety and natural resource protections. Grant match.

**Location**

City: Issaquah

County: King

Legislative District: 005

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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**Project Type**

SubProject Number: 40000314

SubProject Title: West Tiger Mtn. NRCA - ADA Trail Access

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Operating Impacts**

No Operating Impact

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SubProject Number: 92000045

SubProject Title: Mount Si NRCA - Main Trailhead Survey/Permitting and Site Signs

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Complete King County permitting and survey to renovate the Mount Si Trailhead to improve capacity and safety at one of the most popular trailheads in Pacific Northwest. Collaboratively work with Snoqualmie Tribe and others to create land acknowledgement/interpretative signage at locations in the Middle Fork Snoqualmie Valley.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Operating Impacts**

No Operating Impact

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490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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SubProject Number: 92000046

SubProject Title: West Tiger Mtn. NRCA - Trail Relocation and Bridges Installation

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Improve popular trail system, with a focus on safety issues by improving pedestrian bridges and boardwalks and upgrading poorly aligned trails.

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

Operating Impacts

No Operating Impact

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SubProject Number: 92000048

SubProject Title: West Tiger Mtn. NRCA - Gateway Interpretive Shelter

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:36PM

Project Number: 40000151

Project Title: 2023-25 Natural Areas Facilities Preservation and Access

**SubProjects**

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SubProject Number: 92000048

SubProject Title: West Tiger Mtn. NRCA - Gateway Interpretive Shelter

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

This \$2,785,000 re-appropriation will allow the department to complete projects originally planned for the 2023-25 Biennium. The re-appropriated funds support public use on DNR-managed natural areas by preserving or constructing 11 public access and site protection projects on 4 DNR natural areas, all of which are within watersheds covered by the Puget Sound Action Agenda.

**Project Description**

Construct and install interpretive shelter at the High Point trailhead for educational field trips and environmental interpretation.

**Location**

City: Issaquah

County: King

Legislative District: 005

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

**Operating Impacts**

No Operating Impact

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## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This capital request is a multi-county project list of 11 projects in 2 counties for 4 DNR-managed natural areas. None of these projects create an environmental harm though some projects install fencing for site protection, improve trails, parking or road areas, and join sections of trail for recreational connectivity. DNR natural areas, both natural area preserves (NAPs) and natural resources conservation areas (NRCAs) protect high-quality and rare natural features throughout Washington, in perpetuity, for their ecological values and conservation of natural habitats and landscapes.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

None of the capital sub-projects is located within GEOID areas shown in OFM's OBC map.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

DNR-managed natural areas are available for traditional cultural practices by state statute and by DNR policies for conservation land management in natural area preserves and natural resources conservation areas.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms

for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

For this capital budget request, once funded by the Legislature, the DNR Natural Areas Program conducts Tribal outreach for projects. During this outreach period, Tribal governments may choose to engage with the DNR to discuss the project scope and provide feedback. This outreach is conducted prior to other mechanisms like SEPA, to ensure the DNR is operating in partnership with Tribal governments and establishing protocol for protecting potentially present cultural resources during construction. Additionally, early outreach is conducted to maximize review time for Tribal government representatives and helps to focus capacity on projects that will actually occur, and lastly because DNR staff are funded on a project-by-project basis to implement this work.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

Not applicable. This project list is a routine, recurring land management budget request from the DNR Natural Areas Program.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

## Capital Sub-Projects

### 2025-27 Capital Budget Re-Appropriation Request

**Total Request**

**Capital Project Name:** Natural Areas Facilities Preservation and Access - Re-Appropriation      **\$ 2,785,000**

**Project #:** 40000151  
**DRAFT #3 - August 6, 2024**

Project Types  
 1: Health, safety & code req  
 2: Facility preservation  
 3: Infrastructure preservation  
 4: Program

Sub Project Title Listed in Priority Order	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
West Tiger Mountain - High Point Trailhead Improvements	So. Puget Sound	Issaquah	47.5297 -121.996	5	4	270,000	Re-Appropriate 2021-23 funds that were re-appropriated into 2023-25 to use as match for recently extended construction grant. (Project Code ONO) Construction of Mountains to Sound Greenway - High Point Gateway Trailhead & Facility Construction Phase 1, including interpretive gateway facility, parking, and educational elements. Partners include the City of Issaquah and King County, providing accesses to more than 60 miles of trails for hiking, mountain biking and equestrian use. Funds provide match to a 2020 RCO grant application.
West Tiger Mountain - High Point Connector Trail	So. Puget Sound	Issaquah	47.5297 -121.996	5	4	86,000	Re-Appropriate 2021-23 funds that were re-appropriated into 2023-25 to use as match for recently extended construction grant. (Project Code ONM) Construct new connector trail from new High Point Trailhead Expansion and Renovation to West Tiger Mountain hiking trail system. Provides safe and efficient connection between current and planned trailheads within the trail system.
West Tiger Mountain - Forest Loop Trail Access	So. Puget Sound	Issaquah	47.5297 -121.996	5	4	214,000	Re-Appropriate 2021-23 funds that were re-appropriated into 2023-25 to use as match for recently extended construction grant. (Project Code ONL) Expand and pave current trailhead parking for ADA access. Improve interpretive forest trails for safety and natural resource protection. Funds provide match for a 2020 RCO grant application
West Tiger Mtn. NRCA - Tradition Plateau Entry Access	So. Puget Sound	Issaquah	47.5297 -121.996	5	2	500,000	Delayed - for permitting and project refocus. Ongoing discussion with Tribes. (Project Code GEJ) Construct Mountains to Sound Greenway Tradition Plateau Access including new forest entry circle, electrical relocation and King County regional trail connections under I-90. Grant match.
West Tiger Mtn. NRCA - New High Point Trail	So. Puget Sound	Issaquah	47.5297 -121.996	5	4	100,000	Delayed - for permitting and project refocus. Ongoing discussion with Tribes. (Project Code GEI) Construct new trail from Traditional Plateau Improvements to West Tiger Mountain hiking trail system. Provides safe and efficient connection between current and planned trailheads within the trail system. Grant match.
Rattlesnake Mountain Scenic Area (NRCA) - Connector Trail	So. Puget Sound	North Bend	47.5094 -121.844	5	4	520,000	Delayed - for redesign and project refocus. Ongoing meetings with Tribes regarding this project. (Project Code GDF) Complete 4 mile trail connection for Si View Parks/King County Parks Trailhead to Rattlesnake Mountain and install multiple trail bridges. Grant match.
Oak Patch NAP - Reconstruct Perimeter Fence for Site Protection	So. Puget Sound	Bremerton	47.4767 -122.92	35	3	20,000	Delayed - Staffing issues keeping from completing project. (Project Code GDC) Reconstruct perimeter fence after prescribed fire treatment to prevent potential resource damage.
West Tiger Mtn. NRCA - ADA Trail Access	So. Puget Sound	Issaquah	47.5297 -121.996	5	4	200,000	Delayed - Slow King County permitting process, DOT Hwy 18 project delays. Completion target is end of 2025-27 Biennium. (Project GDN) Expand and pave parking for ADA access. Improve interpretive trails for safety and natural resource protections. Grant match.
Mount Si NRCA - Main Trailhead Survey/Permitting and Site Signs	So. Puget Sound	North Bend	47.4877 -121.723	12	4	250,000	Re-Appropriate to use as match for construction grant next biennium. (Project Code GCZ) Complete King County permitting and survey to renovate the Mount Si Trailhead to improve capacity and safety at one of the most popular trailheads in Pacific Northwest. Collaboratively work with Snoqualmie Tribe and others to create land acknowledgement/interpretative signage at locations in the Middle Fork Snoqualmie Valley.
West Tiger Mtn. NRCA - Trail Relocation and Bridges Installation	So. Puget Sound	Issaquah	47.5297 -121.996	5	3	125,000	Delayed - staffing constraints. (Project Code GEK) Improve popular trail system, with a focus on safety issues by improving pedestrian bridges and boardwalks and upgrading poorly aligned trails.
West Tiger Mtn. NRCA - Gateway Interpretive Shelter	So. Puget Sound	Issaquah	47.5297 -121.996	5	4	500,000	Actively working with three Tribes on educational infrastructure and messaging and need more time to allow for the process. (Project Code GDQ) Construct and install interpretive shelter at the High Point trailhead for educational field trips and environmental interpretation.
<b>Total</b>						<b>\$ 2,785,000</b>	

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

## Description

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

### Project Summary

The sub-project list in this request addresses Department of Natural Resources requirements to conduct deferred facility repairs or system replacements at multiple locations across the state as minor works preservation projects to eliminate liabilities, hazards to health, life and safety or to sustain facility use at various locations. Specifically, this request for reappropriation involves a series of electrical projects delayed for reasons of material supply delays and protracted permitting timelines.

### Project Description

#### Project Description:

Electrical panel and wiring replacements. The Department must complete a series of projects to replace old electrical panels and wiring at the following sites to meet safety and current code requirements following inspections completed last year.

- 1) Glenwood. Replacement work in two buildings.
- 2) Highlands Fire Camp. Replacement work in four buildings.
- 3) Colville. Replacement work in one building.
- 4) Deer Park. Replacement work in five buildings.
- 5) Meridian Nursery. Replacement work in two buildings.
- 6) Goldendale. Replacement work in one building.
- 7) Ellensburg. Replacement work in the shop building.
- 8) Webster Nursery. Replacement work in one building.
- 9) Ahtanum Fire Camp. Replacement work in three buildings.

#### **What will the request produce or construct? When will the project start and be completed?**

The sub-projects in this request make repairs or necessary modifications to various Department of Natural Resources facilities at multiple locations throughout the state. Projects will finish during the '25-27 biennium.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The projects to complete electrical repairs at the remaining 9 locations across the state address health, life, and safety issues identified during inspections. The most direct concern is related to fire safety, but several of the projects also involve issues that present shock hazards as well. Failure to address these issues exposes the Department to liability and the risk of fire damage or injury to employees.

#### **What alternatives were explored? Why was the recommended alternative chosen?**

The projects to complete electrical repairs at 9 remaining locations across the state address health, life, and safety issues identified during inspections. The most direct concern is related to fire safety, but several of the projects also involve issues that present shock hazards as well. Failure to address these issues exposes the Department to liability and the risk of fire damage or injury to employees. The electrical projects are for repairs at existing Department owned sites. The Department did not examine alternatives as any alternative course of action would involve relocation to another site and involve a far greater expense.

#### **Which clientele would be impacted by the budget request?**

Collectively, these projects directly affect the work environments and efficiency of more than 420 Department of Natural

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

**Description**

Resources employees at nine remaining sites across the state.

**Does this project or program leverage non-state funding? If yes, how much by source?**

The projects on the sub-project list do not leverage non-state funding.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

These projects directly relate to Department's Strategic Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by maintaining safe and adequate working conditions for agency personnel. These projects support Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by allowing the continued use of facilities that effectively position fire, forest health and forestry resources in positions to affect positive outcomes and with the means to act effectively.

**Does this request include funding for any IT-related cost?**

No.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

No.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency? (**

These projects do not directly affect energy efficiency or carbon pollution. However, these projects directly address personnel and infrastructure safety with respect to energy use.

**How is your proposal impacting equity in the state?**

This proposal relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards in Department of Natural Resources facilities. Environmental health includes industrial hazards, and the goal of this proposal is the reduction of environmental hazards

**Is this project eligible for Direct Pay?**

No.

**Is there additional information you would like decision makers to know when evaluating this request?**

No.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

The sub-projects are not linked to the Governor's Salmon Strategy.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

**Description**

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Facility Preservation (Minor Works)

**Growth Management impacts**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	5,219,000		4,635,000	584,000	
23N-1	MTC Capital Account-State	824,000		824,000		
	<b>Total</b>	<b>6,043,000</b>	<b>0</b>	<b>5,459,000</b>	<b>584,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
23N-1	MTC Capital Account-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

**SubProjects**

SubProject Number: 40000333

SubProject Title: Electrical: Glenwood (2 buildings)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

**SubProjects**

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SubProject Number: 40000333

SubProject Title: Electrical: Glenwood (2 buildings)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Sub-project achieves electrical panel and wiring replacements in two buildings.

**Project Description**

N/A

**Location**

City: Unincorporated

County: Klickitat

Legislative District: 014

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None.

**Operating Impacts**

No Operating Impact

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SubProject Number: 40000334

SubProject Title: Electrical: Highlands Fire Camp (4 buildings)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Highlands Fire Camp Sub-project achieves electrical panel and wiring replacements in four buildings.

**Project Description**

n/a

**Location**

City: Unincorporated

County: Okanogan

Legislative District: 007

**Project Type**

Health, Safety and Code Requirements (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

**SubProjects**

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SubProject Number: 40000334

SubProject Title: Electrical: Highlands Fire Camp (4 buildings)

Growth Management impacts

None.

Operating Impacts

No Operating Impact

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SubProject Number: 40000335

SubProject Title: Electrical: Colville (1 building)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Colville Sub-project achieves electrical panel and wiring replacement work in one building.

**Project Description**

n/a

**Location**

City: Colville

County: Stevens

Legislative District: 007

**Project Type**

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

None.

Operating Impacts

No Operating Impact

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SubProject Number: 40000336

SubProject Title: Electrical: Deer Park (5 buildings)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

**SubProjects**

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SubProject Number: 40000336

SubProject Title: Electrical: Deer Park (5 buildings)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Deer Park Sub-project achieves electrical panel and wiring replacements in five buildings.

**Project Description**

n/a

**Location**

City: Deer Park

County: Spokane

Legislative District: 007

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None.

**Operating Impacts**

No Operating Impact

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SubProject Number: 40000338

SubProject Title: Electrical: Meridian (2 buildings)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Sub-project achieves electrical panel and wiring replacements in two buildings.

**Project Description**

n/a

**Location**

City: Lacey

County: Thurston

Legislative District: 002

**Project Type**

Health, Safety and Code Requirements (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

---

**SubProjects**

SubProject Number: 40000338

SubProject Title: Electrical: Meridian (2 buildings)

Growth Management impacts

None

Operating Impacts

No Operating Impact

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SubProject Number: 40000339

SubProject Title: Electrical: Goldendale (1 buiding)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Sub-project achieves electrical panel and wiring replacement work in one building.

**Project Description**

n/a

**Location**

City: Goldendale

County: Klickitat

Legislative District: 014

**Project Type**

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

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SubProject Number: 40000340

SubProject Title: Electrical: Ellensburg (shop building)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

**SubProjects**

---

SubProject Number: 40000340

SubProject Title: Electrical: Ellensburg (shop building)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Ellensburg Sub-project achieves electrical panel and wiring replacement work in the shop building.

**Project Description**

n/a

**Location**

City: Ellensburg

County: Kittitas

Legislative District: 013

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

**Operating Impacts**

No Operating Impact

---

SubProject Number: 40000346

SubProject Title: Electrical: Webster Nursery (1 building)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Sub-project achieves electrical panel and wiring replacement work in one building.

**Project Description**

n/a

**Location**

City: Tumwater

County: Thurston

Legislative District: 035

**Project Type**

Health, Safety and Code Requirements (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:57PM

Project Number: 40000154

Project Title: 2023-25 Minor Works Preservation

**SubProjects**

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SubProject Number: 40000346

SubProject Title: Electrical: Webster Nursery (1 building)

Growth Management impacts

None

Operating Impacts

No Operating Impact

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SubProject Number: 40000347

SubProject Title: Electrical: Ahtanum Fire Camp (3 buildings)

Starting Fiscal Year: 2024

Project Class: Preservation

Agency Priority: 99

**Project Summary**

Sub-project achieves electrical panel and wiring replacements in three buildings.

**Project Description**

n/a

**Location**

City: Unincorporated

County: Yakima

Legislative District: 014

**Project Type**

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

None

Operating Impacts

No Operating Impact

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## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## **HEAL Act Questions**

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12)?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental

harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

## Capital Sub Projects 2023-25 Biennium

**Total Request**  
\$ 583,662.00

**Capital Project : Minor Works Preservation**  
**Project # Minor Works Preservation**

Project Types  
1: Health, safety & code req  
2: Facility preservation  
3: Infrastructure preservation  
4: Program

Sub Project Title	Region	County	Lat/Long	Nearest City	Leg Dist	Project Type	Estimated Total \$	Notes
Electrical Panel Replacements/electrical work		Below		Below				
Glenwood (2 buildings)	Southeast	Klickitat	46.019870, -121.288733	Glenwood	14	1	\$ 59,528.00	
Highlands Fire Camp (4 buildings)	Northeast	Okanogan	48.783080, -119.644845	Loomis	7	1	\$ 106,238.00	
Colville (1 building)	Northeast	Stevens	48.542314, -117.887722	Colville	7	1	\$ 76,088.00	
Deer Park (5 buildings)	Northeast	Spokane	47.954136, -117.462582	Deer Park	7	1	\$ 95,888.00	
Meridian (2 buildings)	Forest Resources	Thurston	46.989028, -122.739041	Lacey	2	1	\$ 81,608.00	
Goldendale (1 buiding)	Southeast	Klickitat	45.829628, -120.832576	Goldendale	14	1	\$ 40,328.00	
Ellensburg (shop building)	Southeast	Kittitas	47.029918, -120.539650	Ellensburg	13	1	\$ 40,328.00	
Webster Nursery (1 building)	Forest Resources	Thurston	46.947360, -122.957506	Tumwater	35	1	\$ 40,328.00	
Ahtanum Fire Camp (3 buildings)	Southeast	Yakima	46.515847, -121.020924	Ahtanum	14	1	\$ 43,328.00	
<b>Total</b>							<b>\$ 583,662.00</b>	

**TAB C**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000685  
**Project Title:** Trust Land Transfer Program

## Description

**Starting Fiscal Year:** 2026  
**Project Class:** Program  
**Agency Priority:** 1

### Project Summary

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

### Project Description

The Department of Natural Resources (DNR) trust lands are intended for revenue production, but not all lands held by the trust are suitable for this purpose and would be better managed as natural areas, parks, habitat or open space. Under the State Constitution, the trust must be compensated at fair market value for lands it transfers. The Trust Land Transfer program provides a mechanism for the trust to receive full compensation for its lands and for the trust to maintain the asset base by using those funds to replace the transferred property. Under the new revitalized TLT program, transferred lands are deeded to other state agencies, counties, cities or Tribes or become part of DNR's natural areas program.

### What will the request produce or construct? When will the project start and be completed?

This request provides the necessary funding to transfer non- or marginal-revenue generating trust lands with property better suited and more socially acceptable for that purpose. Designated land transfers will take place within the biennium. Under RCW 79.17.300, the purchase of replacement lands should occur as quickly as possible.

### How would the request address the problem or opportunity? What would be the result of not taking action?

Parcels selected for transfer are first evaluated to determine if they are in the best interest of the trust to transfer. Parcels are then scored and ranked by an advisory committee. Not funding the request means that non-performing assets remain in trust status and act as a liability rather than a benefit to the trusts.

### What alternatives were explored? Why was the recommended alternative chosen?

DNR has considered harvesting the timber on these parcels, leasing the properties for grazing and agricultural revenue, and selling these properties at public auction, but due to legislative and societal values that have been expressed to DNR, these alternatives were deemed less satisfactory than TLT program proposal. The alternative is to retain the properties proposed for transfer as trust lands or sell them to other parties. Retaining un-productive lands will reduce trust revenue to schools and other institutions over time. Often properties in this program are transferred to public agencies that would not have the means to pay for the properties, such as county park districts.

### Which clientele would be impacted by the budget request?

Clients include the trust beneficiaries, tribes, public entities receiving lands through the Trust Land Transfer program, and the public, both locally and statewide, who receive recreational opportunities, open space, conservation lands, and fish and wildlife habitat and other ecosystem services. Recipients will be able to meet social and ecological needs through ownership and/or management of desirable properties that most recipients would not be able to purchase using their existing funding sources. Transferred properties in Puget Sound Partnership Action Areas contribute to healthy salmon habitat through protection of forest lands.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**Description****Does this project or program leverage non-state funding? If yes, how much by source?**

No other funding source is known or expected but contributions from partners may be possible and will be utilized when available.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

The Trust Land Transfer (TLT) program relates to many elements in the DNR Strategic Plan. Funding of this package and the associated capital budget request support the following Strategic Plan goal, "B 1.2 Make new investments that strengthen the asset portfolio and increase returns to the beneficiaries."

Projects funded by this package will place deed restrictions onto the conserved lands that relate to the following two Strategic Plan goals, "4.1 Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative upland and nearshore protection and restoration activities. 4.2 Expand Natural Areas, Natural Heritage, Aquatic Reserves, and other research and conservation programs that support biodiversity and landscape connectivity".

This package will also support two other Strategic Plan goals through transfer to public agencies that support environmental education and respectful stewardship to include, "E 2.3 Increase the public's awareness of, and access to, our public lands in ways that are compatible with the land's purpose, cultural resources, and natural resources. E 2.4 Work with partners to increase outdoor recreation opportunities and investments while respecting the land's purpose and cultural uses."

**Does this request include funding for any IT-related cost?**

No

**If the project is linked to the Puget Sound Action Agenda?**

No

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Transfer of several of these parcels will indirectly assist DNR with compliance of RCW 70A.45.050 through the conveyance of scattered and more remote trust properties which will reduce future transportation trips and emissions to manage these properties. DNR anticipates most replacement trust lands will be in existing and more energy efficient commuting distances for staff. Deed restrictions for the perpetual conservation of the forested parcels are anticipated to result in long-term carbon sinks and to assist with mitigating climate change impacts.

**How is your proposal impacting equity in the state?**

Six of the eight projects are transfers to Tribal Communities. These transfers would allow several of these tribes to acquire ownership of their ancestral lands and allow for those communities to engage in cultural activities on these lands in perpetuity.

**Is this project eligible for Direct Pay?**

No

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**Description**

If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action

No

List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

- PAS4 - 9 months in FY1 and 1 month in FY2, \$68,762.
- PAS2 - 8 months in FY1, 1 in FY2, \$50,790.
- Surveyor 3 - 1 month in FY1, \$7,589.
- NR Scientist 3 - 1 month in FY1, \$7,400.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	30,000,000				30,000,000
	<b>Total</b>	<b>30,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,000,000</b>
<b>Future Fiscal Periods</b>						
		<b>2027-29</b>	<b>2029-31</b>	<b>2031-33</b>	<b>2033-35</b>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**SubProjects**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000686

SubProject Title: Beckler 6 - Tualalip Tribes

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 676 acres of forest lands in King County to the Tualalip Tribes. A one mile stretch of the Beckler River runs through the property and the property would be managed for conservation and cultural resource gathering.

**Location**

City: Index

County: King

Legislative District: 012

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	4,000,000				4,000,000
	<b>Total</b>	<b>4,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,000,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
**Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000687

SubProject Title: Okanogan G - Confederated Colville Tribes

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 42 acres of land in Okanogan County to the Confederated Tribes of the Colville Reservation. This property is adjacent to the Methow River, and the recipient intends to use the property for Tribal access and restoration.

**Location**

City: Twisp

County: Okanogan

Legislative District: 007

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	450,000				450,000
	<b>Total</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,000</b>
<b>Future Fiscal Periods</b>						
		2027-29	2029-31	2031-33	2033-35	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000688

SubProject Title: Tract C East - Yakama Nation

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 2,965 acres in Yakima County to the Confederated Tribes and Bands of the Yakama Nation. These lands, adjacent to the Yakama Reservation are located within Tract C, which is the original boundary of the Yakama Nation. These lands would be utilized by the tribe for timber harvest, forest health treatments, wetland and meadow restoration, and cultural resource gathering.

**Location**

City: Unincorporated

County: Yakima

Legislative District: 014

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Approps
057-1	State Bldg Constr-State	4,400,000				4,400,000
	<b>Total</b>	<b>4,400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,400,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000689

SubProject Title: Tract C South - Yakama Nation

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 2,405 acres in Yakima County to the Confederated Tribes and Bands of the Yakama Nation. These lands, adjacent to the Yakama Reservation are located within Tract C, which is the original boundary of the Yakama Nation. These lands would be utilized by the tribe for timber harvest, forest health treatments, wetland and meadow restoration, and cultural resource gathering

**Location**

City: Unincorporated

County: Yakima

Legislative District: 014

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropr
057-1	State Bldg Constr-State	6,800,000				6,800,000
	<b>Total</b>	<b>6,800,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,800,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000690

SubProject Title: Tract C North - Yakam Nation

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 4,566 acres in Yakima County to the Confederated Tribes and Bands of the Yakama Nation. These lands are in a checkerboard ownership with other lands owned by the Yakama Nation are located within Tract C, which is the original boundary of the Yakama Reservation. These lands would be utilized by the tribe for timber harvest, forest health treatments, wetland and meadow restoration, and cultural resource gathering.

**Location**

City: Unincorporated

County: Yakima

Legislative District: 014

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Approps
057-1	State Bldg Constr-State	3,700,000				3,700,000
	<b>Total</b>	<b>3,700,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,700,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000691

SubProject Title: Babcock Bench - WDFW

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 1,071 acres of land in Grant County to Washington State Department of Fish and Wildlife. The property will be included in the Columbia Basin Wildlife area and will be used to provide habitat and recreation.

**Location**

City: Unincorporated

County: Grant

Legislative District: 013

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	850,000				850,000
	<b>Total</b>	<b>850,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>850,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000692

SubProject Title: South Lake Ozette - Quileute Tribe

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 372 acres of land in Clallam County to the Quileute Tribe. This land would be used by the tribe for conservation and cultural resource gathering.

**Location**

City: Unincorporated

County: Clallam

Legislative District: 024

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	8,900,000				8,900,000
	<b>Total</b>	<b>8,900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,900,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:34PM

Project Number: 40000685

Project Title: Trust Land Transfer Program

**SubProjects**

SubProject Number: 40000693

SubProject Title: Middle Fork Snoqualmie - NRCA

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 1

**Project Summary**

This request funds the Trust Land Transfer (TLT) program which allows the state to transfer underperforming or non-performing trust lands with significant ecologic or recreation features into other governmental ownership such as State Park or County Parks. The fair market value of the property will be deposited into either the Real Property Replacement Account or the Parkland Trust Revolving Account depending on the underlying trust and the funds will be used to purchase replacement trust land.

**Project Description**

Proposed transfer of 95 acres of land in King County to DNR's Natural Areas program to be added to the Middle Fork Snoqualmie Natural Resources Conservation Area (NRCA). This transfer would connect two portions of the current NRCA and would provide habitat conservation and recreation.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Expenditures</u>		<u>2025-27 Fiscal Period</u>	
			<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	900,000				900,000
	<b>Total</b>	<b>900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>900,000</b>

**Future Fiscal Periods**

	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Six of the eight proposals are transfers to tribes whose intent is to manage these areas for conservation and cultural use.

### If you answer YES to any of the above questions, please complete these additional questions.

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

An additional benefit of the transfers to the tribes will ensure continued use and access to these lands in perpetuity.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Over 94% of the requested funds would fund transfers to tribes.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Six of the eight proposed transfers are to four different tribes and in some cases, lie within original tribal boundaries. In addition, the proposals have tribal support and would continue the current access granted to the tribes in each treaty area.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

DNR conducted tribal outreach to all tribes within a treaty area of a proposed transfer. Additionally, there were four tribes represented on the Trust Land Advisory Committee that

scored and ranked the applications. Finally, applications received no points in the Tribal Support scoring criteria if any tribe opposed the application which had the potential to significantly impact the scoring of any proposal.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

No

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

No.



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000583

**Project Title:** Derelict Structure Removal Program

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 2

### Project Summary

In 2023, the Legislature established the Derelict Structure Removal Program (DSRP) to remove or refurbish derelict structures in the aquatic environment (RCW 79.160). The Department of Natural Resources (DNR) received funding to build a program and remove four priority structures, plus a proviso to remove marine tire piles. DNR is proposing to continue the critical work initiated in 2023 to:

- Complete removal of two of the four priority structures
- Continue to refurbish the historic Lakebay Marina
- Initiate new structure removals, including tire “reef” piles
- Fund the stewardship grant program established in RCW 79.160.070
- Request appropriation from the Derelict Structure Removal Account (operating DP submittal)

### Project Description

*Identify the problem or opportunity addressed. Why is the request a priority?*

**Derelict Structure Removals and Refurbishments:** DNR is requesting funding to complete planning and permitting for one of the four priority structures (Ballard Pier), continue work to refurbish the historic Lakebay Marina for recreational use, and initiate new projects. This is a continuation of work under the newly established Derelict Structure Removal Program (DSRP).

During the 2023-25 biennium, DNR will have fully removed two of the four priority structures: Dickman Mill and Former High Tides Seafood Pier, amounting to 1,810 piling and 26,150 sq/ft of overwater structure removed from the aquatic environment. DNR will have completed project sequencing for Shannon Point Seafoods, which is a complex project that includes a potential historic structure and the demolition of an overwater building. DNR’s original budget request included sufficient funding to complete removal of the Shannon Point Seafoods pier and building, with reappropriation into the 2025-27 biennium. DNR will have completed a feasibility study for Ballard Pier to evaluate different options for demolishing a portion of a shared-ownership pier. DNR is now seeking additional funding to complete planning and permitting for the Ballard Pier. Ballard Pier is complex site that requires partial removal and reinforcement of an active-use pier, removal and preservation of a historic sign, and negotiation with neighbors in a high-density urban area. A feasibility study, to be completed by June 2025 will inform final scope and cost of the partial pier removal.

Prior to the establishment of the DSRP, DNR purchased and began planning efforts for the refurbishment of the historic Lakebay Marina with funding from a Washington State Recreation and Conservation Office (RCO) grant. While not funded under the 2023-25 Derelict Structure funding, this project was an example to the Legislature of what could be accomplished under the DSRP. DNR has completed removal of the derelict boats and docks, technical surveys, a robust planning effort including community and tribal outreach and conversations with boating and parks partners that resulted in the completion of 30% designs for restoration and marina redevelopment. By the end of the 2023-25 biennium, DNR will also have fully removed an underground storage tank (UST) and small area of contaminated soil around the UST. It is clear from the outreach efforts that the historic overwater building is incredibly important to the community. DNR is now looking for funding to start the planning process to see what is possible for this historic structure. DNR will need to conduct a feasibility study, hazardous materials survey, alternatives analysis, design, and permitting work to determine the best path forward for renovating the building and replacing the deteriorating wood pilings underneath. Along with this work, DNR will need to protect the only freshwater well and pump house on the property, located directly adjacent to the shoreline. To protect the well, DNR will need to pay for design, permitting, and construction of a small bulkhead around the existing pump house infrastructure on the property.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 40000583

Project Title: Derelict Structure Removal Program

## Description

DNR is also requesting funding to initiate new projects under the Derelict Structure Removal Program. In the decision package for the Derelict Structures bill, DNR established the expectation that it will take 1-3 years of planning and 1-2 years of construction to remove and restore many of the larger structures due to the complexity and cost of removal and acquisition. DNR will identify 1-2 projects that may be fully completed in the 2025-27 biennium as well as 1-2 more complex projects that will require planning and feasibility efforts in the 2025-27 biennium with removal and possibly acquisition in a later biennium. By the end of the 2023-25 biennium, DNR will have developed best management practices for future removals, completed removal at 2 of the 14 known tire pile locations, and obtained permits for 2 additional sites for removal in the 2025-27 biennium. DNR is proposing to remove up to 4 additional tire piles in the 2025-27 biennium.

DNR is requesting 1.0 project FTE at a biennial cost of \$311,600 to maintain current staffing capacity for this work. While most of the staff implementing the Derelict Structure Removal Program are funded from the carryforward operating budget, a project Natural Resource Specialist 3 was hired under the \$1 million tire removal proviso to implement tire "reef" pile removals. To continue this work, DNR will extend the project position and continue this very important work.

**Marine Debris Removal Program (MDRP):** Since 2010 the DNR has acted as the state's sole source for responding to the widespread impacts of diffuse marine debris and creosote that has broken free from derelict structures. This program responds throughout the entire Puget Sound and currently consists of one full time staff and one contracted WCC crew. With a focus on year-round removal utilizing specialized permits and equipment, this program removes an average of 210 tons of marine debris each year with a program total of 2,916 tons removed since 2010, the equivalent of 16 Boeing 747 airplanes. The MDRP has established a wide network of partners and has been tracking reports of marine debris using the MyCoast reporting app since 2018. This work was previously funded from DNR's aquatic restoration budget but is more appropriately tied to derelict structure removal, as the debris removed are primarily a by-product of derelict structures. DNR is also proposing to opportunistically remove small structures, such as docks or buildings. These have become dislodged and are large marine debris that have historically been too large for this program to address. In addition to current staffing and program costs, DNR is requesting 1.0 new project FTE with a biennial cost of \$285,000 to address logistical challenges, expand our network of partners, and increase productivity.

**Stewardship Grant:** RCW 79.160.070 established a grant program for lessees of state-owned aquatic land who need financial assistance to improve structures that are failing or need replacement to meet habitat stewardship requirements. However, the grant program was not funded in the 2023-25 biennium. DNR is now seeking funding to fully develop and fund the stewardship grant.

**Derelict Structure Removal Account Appropriation (Operating Budget):** All qualifying removal projects must be submitted to the Puget Sound Partnership (PSP) Nearshore Conservation Credit Program or similar credit program. Payments from the sale of credits will be directed to the Derelict Structure Removal Account (DSRA). Money in the account may only be spent after appropriation. As a component of the overall decision package, DNR is requesting \$2,105,000 appropriation from the DSRA as an Operating Budget request.

### What will the request produce or construct? When will the project start and be completed?

Project outcomes in the 2025-27 biennium include:

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 40000583

Project Title: Derelict Structure Removal Program

## Description

- Completion of planning, permitting, and construction for Ballard Pier (one of the four priority structures identified in 2023).
  
- Continuation of work on the Lakebay Marina including:
  - o Feasibility study, hazardous materials survey, alternatives analysis, design, and permitting for renovation of the overwater building and pilings, and
  - o Design, permitting, and construction of a small bulkhead to protect the existing freshwater well and pump house.
  
- Removal of 1-2 new derelict structures.
  
- Completion of planning and feasibility for 1-2 new complex projects for removal, acquisition, and/or renovation in a future biennium.
  
- Removal of 2-4 tire “reef” piles.
  
- Maintaining the state’s Marine Debris Removal Program (MDRP).
  
- Opportunistically removing small structures that have become large, free-floating marine debris, which have historically been too large for the MDRP.
  
- Providing habitat stewardship grants to support lessees in need of financial assistance.

The request can be scaled or phased by reducing or delaying the number of projects targeted (see attached budget worksheet per project).

### How would the request address the problem or opportunity? What would be the result of not taking action?

If funding is not received, DNR would be forced to finalize projects based on remaining funds and discontinue progress made by the Derelict Structure Removal Program. This would be a significant loss to the State of Washington. In just two years, DNR will have already built a new program and removed two highly impactful derelict structures and two tire “reef” piles amounting to 2,670 tires, 1,810 piling and 26,150 sq/ft of overwater structure removed from the aquatic environment. The 2023 legislature recognized the importance of these efforts in RCW 79.160.005:

“(1) The legislature finds that nearshore habitat is amongst the most important for threatened and endangered species of salmon, yet nearshore habitat in populated areas is often negatively impacted by man-made structures. There is a growing problem where aquatic or overwater structures become derelict or fall into disrepair. These derelict aquatic structures are public nuisances and safety hazards as they can pose risks to navigation, harm nearshore habitat for threatened and endangered species, detract from the aesthetics of Washington’s waterfronts, and threaten the environment with the potential

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 40000583

Project Title: Derelict Structure Removal Program

## Description

release of hazardous materials.

(2) The legislature further finds that the costs associated with the proper removal or repair of derelict aquatic structures are substantial and that in many cases owners of these structures lack the financial means to address the safety and environmental hazards the structures pose. As a result, the costs associated with the removal or repair of derelict structures becomes a burden on public entities and the taxpaying public.

(3) The legislature also finds that removal of derelict aquatic structures and restoration of surrounding habitat improves nearshore habitat quality.”

### What alternatives were explored? Why was the recommended alternative chosen?

DNR considered alternatives of more and less projects for the next biennium. The current alternative was chosen as an achievable yet ambitious volume of work.

Alternative of less projects: Given the program’s success thus far and the importance of the work, DNR intends to keep pushing forward at an ambitious pace. The number and types of projects included in this request would make a significant progress toward addressing derelict structures and marine debris to accomplish tangible habitat benefits and reduction of contamination sources. An alternative of less projects would reduce the benefits to Washington’s aquatic lands and fail to capitalize on the program’s current momentum. At a time when Washington’s iconic salmon and Orca populations continue to be imperiled, this alternative is less workable and would not make sense.

Alternative of more projects: While implementation may occur quickly during a single field season, planning and permitting a project takes considerable time and effort. A higher number of projects would require increasing staff capacity. Since the Legislature approved the program in 2023, DNR has made significant strides in establishing the program and implementing long-term tools for program success (such as implementing processes for reimbursement from the Puget Sound Partnership Nearshore Conservation Credit Program). The next biennium will give the program time to use and improve the processes put in place and prepare for future expansion.

### Which clientele would be impacted by the budget request?

The impact of the request is statewide. Removal of derelict structures and marine debris will improve environmental and human health and safety as well as benefit aquatic-based economies throughout the state. Clientele most directly impacted include the local communities adjacent to derelict structure projects and aquatic land lessees that receive stewardship grants. In addition, all users of Puget Sound directly benefit from the Marine Debris Removal Program.

### Does this project or program leverage non-state funding? If yes, how much by source?

No.

**Describe how this project supports the agency’s strategic master plan or would improve agency performance.**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 40000583

Project Title: Derelict Structure Removal Program

## Description

Removal of derelict structures and marine debris will improve environmental and human health and safety as well as benefit Washington's aquatic-based economies. Restoration of these sites will reduce potential hazards and contamination and will make our shorelines more resilient in the face of climate change. Submission of qualifying projects to the Nearshore Conservation Credit Program will create a sustainable source of funding that will then be used to implement more restoration projects.

This proposal aligns with DNR's Agency Strategic Plan Goal D4 "Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity" and Strategy D4.1 "Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities." It also aligns with Goal D1 "Lands and waters that remain productive and adapt to changing conditions, including climate change and a growing population" and Strategy D1.3 "Expand efforts to use natural systems to buffer against floods, stormwater, sea level rise, and droughts stemming from changing conditions."

This proposal aligns with DNR's Plan for Climate Resilience 3-Year Update. Action items for Aquatic Resources include "Develop strategies to protect and restore aquatic habitats that provide refuge for sensitive species and also support resilience from climate-related impacts" and "Accelerate salmon and orca recovery efforts."

In addition, this proposal aligns with Aquatic Resources Division's Strategic Framework Goal 2 "Provide long-term sustainability and resilience of aquatic habitats through science-based conservation and restoration actions" and Goal 4 "Generate self-sustaining revenue to manage and protect state-owned aquatic lands for future generations."

The proposal also aligns with the 2021 Washington Marine Debris Action Plan, which is a framework for strategic action developed by the National Oceanic and Atmospheric Administration (NOAA) in collaboration with over 50 Washington marine debris stakeholders, representing federal and state governments, tribes, non-governmental organizations, industry, and academia. DNR's Marine Debris Removal Program is mentioned in over 50 actions to help reduce the impacts of marine debris on Washington State and its coasts, people, and wildlife.

### Does this request include funding for any IT-related cost?

No.

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

This proposal is linked to the Puget Sound Action Agenda, particularly Strategies 3, 8, 10, and 22.

Under Strategy 3 – Healthy Shorelines, a program target for the Nearshore Conservation Credit Program is the removal of 930 tons of creosote from Puget Sound. DNR's Restoration Programs and Derelict Structure Removal Programs are the mechanisms for meeting this target. Strategy 8 – Toxic Chemical Pollution identifies an end goal of increasing creosote piling

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 40000583

Project Title: Derelict Structure Removal Program

**Description**

removal sound-wide. Strategy 10 – Stormwater Runoff and Legacy Contamination and Strategy 22 – Outdoor Recreation and Stewardship specifically identify DNR’s Marine Debris Removal Program as an ongoing program that implements these strategies. Removal of derelict structures and marine debris will improve environmental and human health and safety as well as benefit Washington’s aquatic-based economies. Restoration of these sites will reduce potential hazards and contamination and will make our shorelines safer and more resilient.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Not applicable.

**How is your proposal impacting equity in the state?**

The impact of the proposal is statewide. Communities directly impacted include the boating community, recreational community, and local communities adjacent to each vessel. This includes a mix of rural and urban areas and various levels of environmental health disparity. In addition to directly benefiting communities adjacent to the vessels, this work broadly supports the management of state-owned aquatic lands, which benefits the general public, including tribal and underserved communities.

Marine debris removal benefits salmon and improves the health of higher trophic levels. Likewise, because salmon are both an important food source and critical cultural touchstone in the Northwest, especially to Indigenous people and local Tribal Nations, improving salmon populations will lead to more robust local economies and improved cultural and physical health of Washington residents.

**NEW: Is this project eligible for Direct Pay?**

Not applicable.

**Is there additional information you would like decision makers to know when evaluating this request?**

No.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This proposal is not directly linked to strategy actions under the Governor’s Salmon Strategy. However, it does contribute to salmon recovery. Salmon in Washington state face numerous challenges, including lack of spawning and rearing habitat and water quality impairments. Marine debris and derelict structures contribute to degraded habitat and water quality which negatively impact salmon populations. By funding the Marine Debris Removal Program and Derelict Structure Removal Program, DNR can accelerate the pace of salmon recovery within Washington state. The benefits to kelp and eelgrass, salmon, forage fish, and marine mammals will be sustained long beyond the life of each project. There will be immediate habitat improvements from debris and structure removal; but, more significantly, this work will address a source of

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 40000583

Project Title: Derelict Structure Removal Program

**Description**

contamination, providing long-term benefits for sediment and water quality.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

Natural Resource Specialist 3: DNR is requesting 1.0 project FTE at a biennial cost of \$311,600 to maintain current staffing capacity for Derelict Structure Removal Program, including tire "reef" removals. While most of the staff implementing the Derelict Structure Removal Program are funded from the carryforward operating budget, a project Natural Resource Specialist 3 was hired under the \$1 million tire removal proviso to implement tire "reef" removals. To continue this work, DNR will extend the project position.

Natural Resource Specialist 2: DNR is requesting 1.0 new project FTE with a biennial cost of \$285,000 to expand the capacity of the Marine Debris Removal Program. This position would address logistical challenges, expand our network of partners, and increase program productivity.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Remodel/Renovate/Modernize (Major Projects)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
23N-1	MTC Capital Account-State	7,399,000				7,399,000
27T-1	Derelict Struc Remov-State					
	<b>Total</b>	<b>7,399,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,399,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
23N-1	MTC Capital Account-State					

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 40000583

Project Title: Derelict Structure Removal Program

**Funding**

		Future Fiscal Periods			
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
27T-1	Derelict Struc Remov-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

**Total one time start up and ongoing operating costs**

<u>Acct Code</u>	<u>Account Title</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>
27T-1	Derelict Struc Remov-State	680	1,425	500	500
	<b>Total</b>	<b>680</b>	<b>1,425</b>	<b>500</b>	<b>500</b>

**Narrative**

Yes. In 2023, the Washington State Legislature established the Derelict Structure Removal Program to remove or refurbish derelict structures in the aquatic environment. All qualifying removal projects must be submitted to the Puget Sound Partnership (PSP) Nearshore Conservation Credit Program or similar credit program. Payments from the sale of credits will be directed to the newly established Derelict Structure Removal Account (DSRA). Money in the account may only be spent after appropriation. DNR is submitting an Operating DP to request a \$2,105,000 appropriation from the DSRA. The appropriation would be used to support the projects and programs outlined in this Capital DP.

## HEAL Act Requirements

### (ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW [70A.02](#)) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW [70A.02.080](#), beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW [70A.02.110](#).

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW [70A.02.010\(12\)](#) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW [34.05.328](#).
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW [70A.02.060](#).

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No. There is no agency request legislation associated with this package.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No. The total funding request is under \$12,000,000.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes. This funding would support the Derelict Structure Removal Program and Marine Debris Removal Program, which provide environmental benefits through the reduction of environmental harms.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This proposal is anticipated to provide environmental benefits from the removal of marine debris and derelict structures, which are sources of habitat impacts and contamination. Salmon in Washington state face numerous challenges, including lack of spawning and rearing habitat and water quality impairments. Marine debris and derelict structures contribute to degraded habitat and water quality which negatively impact salmon populations. By funding the Marine Debris Removal Program and Derelict Structure Removal Program, DNR can accelerate the pace of salmon recovery within Washington state.

Salmon population recovery confers benefits to both the ecosystem and human populations of Washington state. Chinook and other salmon are an especially important prey for large marine mammals in the region including Orca whales. Marine debris removal, which benefits salmon, improves the health of higher trophic levels, as well. Likewise, because salmon are both an important food source and critical cultural touchstone in the Northwest, especially to Indigenous people and local Tribal Nations, improving salmon populations because of expanded marine debris removal will lead to more robust local economies and improved cultural and physical health of Washington residents.

Marine debris removal also improves kelp and eelgrass health and recovery, a priority for DNR under the Statewide Kelp Forest and Eelgrass Meadow Health and Conservation Plan. The availability of habitat is a critical factor in kelp and eelgrass health, and marine debris and other physical impediments take up space that is needed for vegetation, forage fish, salmon and all other species in this vibrant ecosystem. Likewise, vessels left in the environment can contribute contaminants to sediment and water, reducing water quality for kelp and eelgrass and associated species. In a region with high population growth levels and related increases in vessel traffic, recreational boating and more, ensuring that debris is removed, prevention and interception tools are in place, and kelp and eelgrass can be protected from human impacts is a consistent need.

The benefits to kelp and eelgrass, salmon, forage fish, and marine mammals will be sustained long beyond the life of the project. There will be immediate habitat improvements from debris and structure removal; but, more significantly, this work will address a source of contamination, providing long-term benefits for sediment and water quality.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

None of the derelict structures identified for removal or refurbishment are located within overburdened communities and vulnerable populations as defined in OFM's OBC map. However, the funding for the Marine Debris Removal Program will benefit the entirety of Puget Sound, including direct benefits to overburdened communities, vulnerable populations, and tribal lands located in the Sound. In addition, the stewardship grant will be used to support lessees of state-owned aquatic land who need financial assistance to improve structures that are failing or need replacement to meet habitat stewardship requirements. These two buckets of funding make up approximately 22% of the funding request. Therefore, up to 22% of the requested funds will directly benefit these communities, with the entirety of the request having indirect benefits.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No significant impact to Indian Tribes is expected.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Tribes have not been directly consulted in developing this proposal. However, Tribes were strong supporters of the legislation that created the Derelict Structure Removal Program, and Tribes are a partner in marine debris removal. In addition, tribal consultation is built into our permitting, cultural resources, and public works processes for each individual projects. The program maintains active long-term partnerships with seven different area Tribes focused on marine debris removal, shoreline restoration, armor removal, and derelict gear removal.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not applicable.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000587**Project Title:** Derelict Vessel Removal Program

## Description

**Starting Fiscal Year:** 2026**Project Class:** Program**Agency Priority:** 3

### Project Summary

In 2023 and 2024, the Department of Natural Resources (DNR)'s Derelict Vessel Removal Program (DVRP) was inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This request will allow DVRP to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state. Vessel removal creates immediate habitat and water quality improvement, but more significantly, vessel removal and interception provide long-term ecological and socio-economic benefits to Washington's communities. This package is directly related to implementing the Governor's Salmon Strategy.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

DVRP is the state's key mechanism for addressing the problem of derelict and abandoned vessels and is widely considered the most successful program in the nation. In 2022, the Legislature recognized the value of the program by establishing sustainable funding using a portion of the watercraft excise tax that increased the program's biennial budget to approximately \$10 million. In the 2023-25 biennium, over \$1.5 million of the DVRP budget was diverted to address the imminent threat from just six large derelict vessels and another large vessel's deconstruction has been postponed due to the very high cost (likely \$3M to remove, which is 33% of the entire biennial funding).

Many of the large abandoned and derelict vessels proposed for removal in this package were previously owned and auctioned by the federal government. It is normal practice for the federal government to auction vessels that are no longer useful for their intended purpose. When these vessels become abandoned or derelict, they are very expensive to remove and quickly deplete DVRP's budget. The Hero is an example of a high-profile formerly federal derelict vessel that was recently removed using one-time funding from the Legislature.

DNR's Aquatic Resources Division is proposing one-time funding to remove several, specific large vessels. This request is based on removal costs for the following large derelict and abandoned vessels. The top four vessels are the priority for DVRP. Note that this request is scalable, depending on how many vessels are targeted for removal.

#### **Pacific Producer – Removal Cost of \$3 million \*PRIORITY\***

On August 13, 2023, the U.S. Coast Guard (USCG) responded to an ammonia leak on the Pacific Producer, a 169-foot seafood processing vessel, in the Thea Foss Waterway, Tacoma. The USCG found the vessel actively sinking while positioned over a protective sediment cap within the Commencement Bay Nearshore Tide Flats Superfund Site. If allowed to sink, it would have damaged the cap and released hazardous material into the waterway. DVRP joined the Department of Ecology, City of Tacoma, USCG, and U.S. Environmental Protection Agency to identify next steps and determined that DNR was the only agency with the ability to prevent the vessel from sinking over the Superfund Site. DVRP took emergency custody of the vessel, made repairs to prevent sinking, and found new moorage. Until funding becomes available, the vessel will be stored at a moorage facility with weekly checks at an approximate cost of \$120,000 per year.

#### **Sunken WW2 Sub-Chaser – \$3 million \*PRIORITY\***

On June 28, 2022, a 110-foot wooden World War II sub-chaser sank in Willow Grove, a side channel of the mainstem Columbia River near Longview. The vessel has been slowly shifting towards the navigation channel and is becoming a hazard for boaters. If the vessel were to break apart, costs and safety risks would increase exponentially. In addition, pieces may damage private infrastructure, impede Columbia River shipping lanes, and impact salmonid habitat upstream and downstream. Funding would ensure DVRP is able to remove the vessel before it breaks apart or shifts into the navigation channel.

#### **Sunken U.S. Coast Guard Cutter – \$1 million \*PRIORITY\***

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

## Description

This vessel is an 83-foot former Coast Guard cutter built in 1944. The vessel sank near Irondale Beach in September 2023. The sunken vessel is located in a heavily used anchor location and poses a hazard to boaters and an ongoing threat to natural resources in the area.

### **Cairdeas – \$1 million \*PRIORITY\***

The *Cairdeas* is a 108-foot former Navy sub-chaser built in 1943, DNR has been tracking this vessel since 2018, with new concern arising in 2023. In January 2023, the vessel was reported attached to an unauthorized mooring buoy in Port Hadlock. The vessel moved to Seabeck, where it trespassed on a USCG buoy. It was then moved to the Boy Scout Camp pier in Dabob Bay, causing \$1500 worth of damage, until returning to trespass in Seabeck. After being posted for DVRP custody, the vessel was moved to Dyes Inlet where the hull was painted while in the water. In June 2024, the vessel ran aground on private property near Silverdale. During that time, another vessel became tangled in the anchor line. The owner refloated the vessel, but the hull was damaged while grounded. DNR anticipates that DVRP removal of this vessel will be necessary in the near future. Removal before the vessel sinks will be significantly more cost effective, meaning timing for funding is critical.

### **Onondaga – \$2.5 million**

The *Onondaga* is a 165-foot former U.S. Coast Guard "A" class cutter and ice breaker built in 1934. The *Onondaga* sank in the 1980s in Salmon Bay and remains there to this day. It is a source of pollution, partially blocking a commercial dock, and a navigation hazard in a high-use area.

### **O&M No.1 aka Western Marine Construction – \$3 million**

The *O&M No.1* is a 101-foot former Navy seaplane wrecking derrick built in 1994. It was abandoned by Western Marine Construction, Inc. on the shore of a Snohomish River slough and area that falls within DNR's Watershed Resilience Action Plan (WRAP). It is an agency priority under the WRAP to remove derelict vessels from this area. The Snohomish Watershed is one of the primary producers of anadromous fish in the state, home to nine salmonid species, three of which are protected under the Endangered Species Act (ESA).

### **What will the request produce or construct? When will the project start and be completed?**

Project outcomes include the removal of six large, high-cost vessels, which has the benefit of removing the impactful vessels while also maintaining the DVRP budget for the critical work of removing and intercepting hundreds of smaller vessels across the state. The vessel removals will provide specific, tangible public safety improvements, habitat improvements, and elimination of point source pollution. They also provide lasting benefits to state resources by removing environmental hazards, improving habitat quality within areas of seagrass and kelp habitat, and benefiting populations of diadromous fish and species of concern like chinook salmon and marine mammal populations within Puget Sound and the Coast. The project would start as soon as funding is received and would be completed during the 2025-27 biennium.

This request is scalable, depending on how many vessels are targeted for removal. The top four vessels are the priority for DVRP (See attached Table sheet, figure 1.).

### **How would the request address the problem or opportunity? What would be the result of not taking action?**

If one-time funding is not received, DVRP will be forced to prioritize between removing these large, impactful vessels or multiple smaller vessels.

Action for the *Cairdeas* would depend on its threat to public safety and the environment. Most likely, the sunken vessels (WW2 sub-chaser, U.S. Coast Guard cutter, *Onondaga*, *O&M No. 1*) would be left in place, where they would continue to slowly leach contaminants, block habitat, and pose a risk to other boaters. This would allow DNR to respond to emergency situations to prevent additional vessels from sinking and creating new, acute impacts. Responding to vessels before they sink or accepting vessels that have been raised by the US Coast Guard is significantly more cost-effective than raising already

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

## Description

sunken vessels.

Due to ongoing cost of moorage, the Pacific Producer would be deconstructed, using approximately 33% of the program's biennial budget. This would take the place of removing or intercepting nearly 250 smaller vessels (based on the program's average cost of \$12,150 per vessel in recent years).

### What alternatives were explored? Why was the recommended alternative chosen?

Alternative #1 – **Preferred alternative** – DNR requests one-time funding to remove specific problem vessels. This alternative was chosen because it allows DVRP to accomplish the goals of removing these large vessels while minimizing ongoing cost to the state.

Alternative #2 – DNR considered requesting an increase to the percentage of Watercraft Excise Tax that is dedicated to the Derelict Vessel Removal Account. This would provide sustainable funding for DNR to address large vessels beyond the 2025-2027 biennium. This alternative was not chosen because it would require legislative changes to RCW 82.49.030(2) (See Figure 1. In attachment). One-time funding is deemed sufficient for these specific problem vessels.

Alternative #3 – DNR considered not requesting additional funding and allowing these vessels to remain in the environment. This alternative was not chosen due to the ongoing safety and environmental threats posed by these vessels.

Alternative #4 – DNR considered using the existing funding level to remove these large vessels, however, if this alternative was selected it would mean that the hundreds of smaller vessels being removed by DVRP would need to stop and total vessel removals per biennia would decrease significantly.

### Which clientele would be impacted by the budget request

The impact of the proposal is statewide. Specific locations of the six large vessels are as follows: (See attached Table sheet, figure 2.)

Clientele directly impacted include the boating community and local communities adjacent to each vessel. However, this work broadly supports the management of state-owned aquatic lands, which benefits the general public, including tribal and rural communities.

### Does this project or program leverage non-state funding? If yes, how much by source?

DNR is attempting to secure federal grant funding to help further the mission of DVRP. The decision on this grant is expected by October 2024.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

Removal of derelict and abandoned vessels will improve environmental and human health and safety. Vessel removal will reduce potential hazards and contamination and will protect the value and ecological integrity of state-owned aquatic lands. This proposal aligns with DNR's [Agency Strategic Plan](#):

- Goal D1: Lands and waters that remain productive and adapt to changing conditions, including climate change and a growing population.
- Goal D4: Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.
- Strategy D4.1: Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

## Description

This proposal aligns with Goal 1 of the Watershed Resilience Action Plan for the Snohomish Watershed:

- Goal 1: Protect and Clean up Aquatic Habitat
- Action 2: Improve Aquatic Lands and Riparian Habitat in the Estuary
- Outcome 4: Improve aquatic lands, including removal of 100% of current derelict vessels by 2026
- Near-Term Implementation Action 2.1: Expand reach of Voluntary Turn-in Program (VTiP) through enhanced communication, proactively reaching out to potential customers. Prevent derelict vessels from sinking/grounding on habitat.
- Near-Term Implementation Action 2.5: Derelict Vessel Removal Program will accelerate removal of vessels by bundling multiple vessels in removal contracts and including priority "3" along with "2" vessels. Remove 50% of current vessel list.
- 10-Year Action 2.8: Remove all derelict vessels on current list by 2026.

This proposal aligns with DNR's Plan for Climate Resilience 3-Year Update's metrics and actions for Aquatic Resources Division:

- Program Metric 12.1: Complete 100% of the Watershed Resilience Action Plan 3-year outcomes by 2025.
- Program Metric 12.3: Improve aquatic lands by removing 100% of current derelict vessels of concern by 2031. \*using a baseline inventory of 320 vessels
- Action Item: Develop strategies to protect and restore aquatic habitats that provide refuge for sensitive species and also support resilience from climate-related impacts.
- Action Item: Accelerate salmon and orca recovery efforts.
- Action Item: Anticipate and prepare for increases in derelict vessels and structures on state-owned aquatic lands.

This proposal aligns with Aquatic Resources Division's Strategic Framework:

- Goal 2: Provide long-term sustainability and resilience of aquatic habitats through science-based conservation and restoration actions.
- Goal 3: Manage state-owned aquatic lands for a balance of uses.

### Does this request include funding for any IT-related cost?

No. No fiscal/operation impacts are anticipated for IT. The funding would be used for vessel removal contracts (using a DES master contract) and would not result in changes to staffing or hardware/software needs.

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, by increasing the number of derelict vessels removed and preventing contamination from abandoned and sunken materials. The Action Agenda includes a target to remove or prevent 180 or more derelict vessels from entering Washington's waterways. In just two years, DVRP has already met the target thanks to a sustainable funding increase from the Washington State Legislature in 2022. One-time funding is needed to remove very large vessels.

The Influential Outcome directly advanced by this proposal:

2.4 Prevent spills of oil and hazardous substances

The Strategies and Actions directly advanced by this proposal include:

Strategy 13: Analyze the cumulative risk and consequences of oil spills, assess the effectiveness and feasibility of mitigation measures, and target additional spill prevention efforts. (ID #64)

Strategy 16: Fully implement and enforce available protections for submerged aquatic vegetation through existing regulations, programs, and policies. (ID #26)

Strategy 17: Reduce the abandonment of vessels and expand and accelerate derelict vessel removal programs. (ID #67)

### The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 24: Reduce the threat of oil spills in Puget Sound to the survival of Southern Residents.

**The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

## Description

### Addendum:

**STRATEGY - Water Quality (8):** Prevent oil spills and develop oil spill disaster preparedness and response plans.

**STRATEGY - Low Smolt Survival (2):** Reduce predation impacts from pinnipeds and marine birds at hotspots.

Smolt: 2.3 Obstruct or remove log booms and other artificial haul-outs and monitor for unintended consequences (e.g., predation pressure shifts).

**STRATEGY - Water Quality (8):** Prevent oil spills and develop oil spill disaster preparedness and response plans.

WQ: 8.4 Support the removal of derelict vessels from Puget Sound waters.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Not applicable.

### How is your proposal impacting equity in the state?

The impact of the proposal is statewide. Communities directly impacted include the boating community and local communities adjacent to each vessel. This includes a mix of rural and urban areas and various levels of environmental health disparity. In addition to directly benefiting communities adjacent to the vessels, this work broadly supports the management of state-owned aquatic lands, which benefits the general public, including tribal and underserved communities. Marine debris removal, including derelict vessel removal, benefits salmon and improves the health of higher trophic levels. Likewise, because salmon are both an important food source and critical cultural touchstone in the Northwest, especially to Indigenous people and local Tribal Nations, improving salmon populations will lead to more robust local economies and improved cultural and physical health of Washington residents.

### Is this project eligible for Direct Pay?

Not applicable.

### If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action

This proposal is directly related to implementing the Governor's Salmon Strategy through Action 2: Invest in clean water infrastructure for salmon and people (toxics reduction) with benefits to Action 1: Protect and restore vital salmon habitat. Salmon in Washington state face numerous challenges, including lack of spawning and rearing habitat and water quality impairments. Marine debris, such as derelict vessels, contribute to degraded habitat and water quality which negatively impact salmon populations. By expanding existing vessel removal capacity, DNR can accelerate the pace of salmon recovery within Washington. The benefits to kelp and eelgrass, salmon, forage fish, and marine mammals will be sustained long beyond the life of a single vessel removal. There will be immediate habitat improvements from vessel removal; but, more significantly, vessel removal and interception will address a source of contamination, providing long-term benefits for sediment and water quality.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

Not applicable.

### Location

City: Statewide

County: Statewide

Legislative District: 098

### Project Type

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

**Description**

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State					
23N-1	MTC Capital Account-State	13,500,000				13,500,000
	<b>Total</b>	<b>13,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,500,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
23N-1	MTC Capital Account-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

**SubProjects**

SubProject Number: 40000602

SubProject Title: Pacific Producer

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

**SubProjects**

SubProject Number: 40000602

SubProject Title: Pacific Producer

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 3

**Project Summary**

In 2023 and 2024, The Department of Natural Resources (DNR)'s Derelict Vessel Removal Program (DVRP) was inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This request will allow DVRP to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state. Vessel removal creates immediate habitat and water quality improvement, but more significantly, vessel removal and interception provide long-term ecological and socio-economic benefits to Washington's communities.

**Project Description****Sub-Project Summary (Recsum text) #1:****Pacific Producer – Removal Cost of \$3 million**

On August 13, 2023, the U.S. Coast Guard (USCG) responded to an ammonia leak on the Pacific Producer, a 169-foot seafood processing vessel, in the Thea Foss Waterway, Tacoma. DVRP took emergency custody of the vessel, made repairs to prevent sinking, and found new moorage. Until funding becomes available, the vessel will be stored at a moorage facility with weekly checks at an approximate cost of \$120,000 per year.

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 3

**Project Summary**

In 2023 and 2024, The Department of Natural Resources (DNR)'s Derelict Vessel Removal Program (DVRP) was inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This request will allow DVRP to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state. Vessel removal creates immediate habitat and water quality improvement, but more significantly, vessel removal and interception provide long-term ecological and socio-economic benefits to Washington's communities.

**Project Description****Sub-Project Summary (Recsum text) #2:****Sunken WW2 Sub-Chaser – \$3 million**

On June 28, 2022, a 110-foot wooden World War II sub-chaser sank in Willow Grove, a side channel of the mainstem Columbia River near Longview. The vessel has been slowly shifting towards the navigation channel and is becoming a hazard for boaters. If the vessel were to break apart, costs and safety risks would increase exponentially. In addition, pieces may damage private infrastructure, impede Columbia River shipping lanes, and impact salmonid habitat upstream and downstream. Funding would ensure DVRP is able to remove the vessel before it breaks apart or shifts into the navigation channel.

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 3

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

## SubProjects

SubProject Number: 40000605

SubProject Title: Former U.S. Coast Guard Cutter

### Project Summary

In 2023 and 2024, The Department of Natural Resources (DNR)'s Derelict Vessel Removal Program (DVRP) was inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This request will allow DVRP to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state. Vessel removal creates immediate habitat and water quality improvement, but more significantly, vessel removal and interception provide long-term ecological and socio-economic benefits to Washington's communities.

### Project Description

#### Sub-Project Summary (Recsum text) #3:

#### **Sunken U.S. Coast Guard Cutter – \$1 million**

This vessel is an 83-foot former Coast Guard cutter built in 1944. The vessel sank near Irondale Beach in September 2023. The sunken vessel is located in a heavily used anchor location and poses a hazard to boaters and an ongoing threat to natural resources in the area.

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 3

### Project Summary

In 2023 and 2024, The Department of Natural Resources (DNR)'s Derelict Vessel Removal Program (DVRP) was inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This request will allow DVRP to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state. Vessel removal creates immediate habitat and water quality improvement, but more significantly, vessel removal and interception provide long-term ecological and socio-economic benefits to Washington's communities.

### Project Description

#### Sub-Project Summary (Recsum text) #4:

#### **Cairdeas – \$1 million**

The Cairdeas is a 108-foot former Navy sub-chaser built in 1943. In January 2023, the vessel was reported attached to an unauthorized mooring buoy in Port Hadlock. After being posted for DVRP custody, the vessel was moved to Dyes Inlet. In June 2024, the vessel ran aground on private property near Silverdale. The owner refloated the vessel, but the hull was damaged while grounded. DNR anticipates that DVRP removal of this vessel will be necessary soon. Removal before the vessel sinks will be significantly more cost effective, meaning timing for funding is critical.

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 3

### Project Summary

In 2023 and 2024, The Department of Natural Resources (DNR)'s Derelict Vessel Removal Program (DVRP) was inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This request will allow DVRP to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state. Vessel removal creates immediate habitat and water quality improvement, but more significantly, vessel removal and interception provide long-term ecological and socio-economic benefits to Washington's communities.

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

**SubProjects**

SubProject Number: 40000607

SubProject Title: Onondaga

**Project Description**

Sub-Project Summary (Recsum text) #5:

**Onondaga – \$2.5 million**

The Onondaga is a 165-foot former U.S. Coast Guard “A” class cutter and icebreaker built in 1934. The Onondaga sank in the 1980s in Salmon Bay and remains there to this day. It is a source of pollution, partially blocking a commercial dock, and a navigation hazard in a high-use area.

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 3

**Project Summary**

In 2023 and 2024, The Department of Natural Resources (DNR)’s Derelict Vessel Removal Program (DVRP) was inundated with an unprecedented number of very large abandoned and derelict vessels ranging from 60 to 170 feet in length. These vessels pose a significant risk to the environment and are extremely costly to remove. This request will allow DVRP to address large, high-risk vessels while continuing the critical work of removing and intercepting hundreds of smaller vessels across the state. Vessel removal creates immediate habitat and water quality improvement, but more significantly, vessel removal and interception provide long-term ecological and socio-economic benefits to Washington’s communities.

**Project Description**

Sub-Project Summary (Recsum text) #6:

**O&M No.1 aka Western Marine Construction – \$3 million**

The O&M No.1 is a 101-foot former Navy seaplane wrecking derrick built in 1994. It was abandoned by Western Marine Construction, Inc. on the shore of a Snohomish River slough and area that falls within DNR’s Watershed Resilience Action Plan (WRAP). It is an agency priority under the WRAP to remove derelict vessels from this area. The Snohomish Watershed is one of the primary producers of anadromous fish in the state, home to nine salmonid species, three of which are protected under the Endangered Species Act (ESA).

**Location**

<b>City:</b> Everett	<b>County:</b> Snohomish	<b>Legislative District:</b> 039
<b>City:</b> Longview	<b>County:</b> Cowlitz	<b>Legislative District:</b> 019
<b>City:</b> Seattle	<b>County:</b> King	<b>Legislative District:</b> 036
<b>City:</b> Seattle	<b>County:</b> King	<b>Legislative District:</b> 036
<b>City:</b> Statewide	<b>County:</b> Statewide	<b>Legislative District:</b> 098
<b>City:</b> Unincorporated	<b>County:</b> Jefferson	<b>Legislative District:</b> 024

**Project Type**

- Program (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

**SubProjects**

SubProject Number: 40000602

SubProject Title: Pacific Producer

Growth Management impacts

N/A

New Facility: No

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
23N-1	MTC Capital Account-State	3,000,000				3,000,000
23N-1	MTC Capital Account-State	3,000,000				3,000,000
23N-1	MTC Capital Account-State	1,000,000				1,000,000
23N-1	MTC Capital Account-State	1,000,000				1,000,000
23N-1	MTC Capital Account-State	2,500,000				2,500,000
23N-1	MTC Capital Account-State	3,000,000				3,000,000
<b>Total</b>		<b>13,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,500,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:53PM

Project Number: 40000587

Project Title: Derelict Vessel Removal Program

**SubProjects**

SubProject Number: 40000602

SubProject Title: Pacific Producer

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
23N-1 MTC Capital Account-State				
23N-1 MTC Capital Account-State				
23N-1 MTC Capital Account-State				
23N-1 MTC Capital Account-State				
23N-1 MTC Capital Account-State				
23N-1 MTC Capital Account-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

**Narrative**

N/A

**Narrative**

N/A

**Narrative**

N/A

**Narrative**

N/A

**Narrative**

N/A

**Narrative**

N/A



### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No. There is no agency request legislation associated with this package.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No. The total funding request is over \$12,000,000 but would support multiple vessel removals, not a single capital project, grant, or loan award.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes. This funding would support the Derelict Vessel Removal Program that provides environmental benefits through the reduction of environmental harms.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This proposal is anticipated to provide environmental benefits from the removal of abandoned and derelict vessels, as marine debris and a source of habitat impacts and contamination. Salmon in Washington state face numerous challenges, including lack of spawning and rearing habitat and water quality impairments. Marine debris, such as derelict vessels, contribute to degraded habitat and water quality which negatively impact salmon populations. By expanding existing vessel removal capacity, DNR can accelerate the pace of salmon recovery within Washington state.

Salmon population recovery confers benefits to both the ecosystem and human populations of Washington state. Chinook and other salmon are an especially important prey for large marine mammals in the region including orca whales. Marine debris removal which benefits salmon improves the health of higher trophic levels, as well. Likewise, because salmon are both an important food source and critical cultural touchstone in the Northwest, especially to Indigenous people and local Tribal Nations, improving salmon populations as a result of expanded marine debris removal will lead to more robust local economies and improved cultural and physical health of Washington residents.

Marine debris removal also improves kelp and eelgrass health and recovery, a priority for DNR under the Statewide Kelp Forest and Eelgrass Meadow Health and Conservation Plan. The availability of habitat is a critical factor in kelp and eelgrass health, and marine debris and other physical impediments take up space that is needed for vegetation, forage fish, salmon, and all other species in this vibrant ecosystem. Likewise, vessels left in the environment can contribute contaminants to sediment and water, reducing water quality for kelp and eelgrass and associated species. In a region with high population growth levels and related increases in vessel traffic, recreational boating and more, ensuring that debris is removed, prevention and interception tools are in place, and kelp and eelgrass can be protected from human impacts is a consistent need.

The benefits to kelp and eelgrass, salmon, forage fish, and marine mammals will be sustained long beyond the life of the project. There will be immediate habitat improvements from vessel removal; but, more significantly, vessel removal and interception will address a source of contamination, providing long-term benefits for sediment and water quality.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Approximately 22% (\$3,000,000 for *O&M No. 1*) will be spent in an overburdened community and vulnerable population per OFM's Overburdened OBC map.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No significant impact to Indian Tribes is expected.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Not applicable.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not applicable.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.

1. [RCW 82.49.030\(2\)](https://app.leg.wa.gov/rcw/default.aspx?cite=82.49&full=true#82.49.030) (<https://app.leg.wa.gov/rcw/default.aspx?cite=82.49&full=true#82.49.030>)
2. [Agency Strategic Plan](https://www.dnr.wa.gov/publications/em_strategic_plan_2022.pdf) ([https://www.dnr.wa.gov/publications/em\\_strategic\\_plan\\_2022.pdf](https://www.dnr.wa.gov/publications/em_strategic_plan_2022.pdf))
3. [Watershed Resilience Action Plan](https://www.dnr.wa.gov/publications/em_watershed_resilience_plan_feb_2022.pdf)  
([https://www.dnr.wa.gov/publications/em\\_watershed\\_resilience\\_plan\\_feb\\_2022.pdf](https://www.dnr.wa.gov/publications/em_watershed_resilience_plan_feb_2022.pdf))
4. [Climate Resilience 3-Year Update](https://www.dnr.wa.gov/publications/em_climate_resilience_plan_3_year_update.pdf)  
([https://www.dnr.wa.gov/publications/em\\_climate\\_resilience\\_plan\\_3\\_year\\_update.pdf](https://www.dnr.wa.gov/publications/em_climate_resilience_plan_3_year_update.pdf))
5. [Aquatic Resources Division's Strategic Framework](http://sharepoint/sites/aqr/Shared%20Documents/AQStrategicFramework_20220810.pdf)  
([http://sharepoint/sites/aqr/Shared%20Documents/AQStrategicFramework\\_20220810.pdf](http://sharepoint/sites/aqr/Shared%20Documents/AQStrategicFramework_20220810.pdf))

Figure 1.

Vessel	Location	Cost
<i>Pacific Producer</i> <b>*PRIORITY*</b>	Originally located in Pierce County (District 27), the vessel is now moored in Seattle (District 36) under DNR's custody	\$3,000,000
Former WW2 Sub-Chaser <b>*PRIORITY*</b>	Longview, Cowlitz County, District 19	\$3,000,000
Former U.S. Coast Guard Cutter <b>*PRIORITY*</b>	Port Hadlock, Jefferson County, District 24	\$1,000,000
<i>Cairdeas</i> <b>*PRIORITY*</b>	Transiting from Port Hadlock to Seabeck to other areas of Kitsap County, Districts 23, 24, and 35	\$1,000,000
<b>Subtotal for Priority Vessels</b>		\$8,000,000
<i>Onondaga</i>	Salmon Bay, Seattle, District 36	\$2,500,000
<i>O&amp;M No. 1</i>	Snohomish River Estuary, Districts 38 and 39	\$3,000,000
<b>Total</b>		\$13,500,000

Figure 2.

Vessel	Location
<i>Pacific Producer</i>	Originally located in Pierce County (District 27), the vessel is now moored in Seattle (District 36) under DNR's custody
Former WW2 Sub-Chaser	Longview, Cowlitz County, District 19
Former U.S. Coast Guard Cutter	Port Hadlock, Jefferson County, District 24
<i>Cairdeas</i>	Still under owner's control and transiting in areas of Kitsap County, Districts 23, 24, and 35
<i>Onondaga</i>	Salmon Bay, Seattle, District 36
<i>O&amp;M No. 1</i>	Snohomish River Estuary, Districts 38 and 39

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 13,500,000**

**Capital Project Name:** Derelict Vessel Removal Program - Large Vessel Removal Fu  
**Project #:** \_\_\_\_\_

Sub Project Title <b>Listed in Priority Order</b>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$
Pacific Producer	Originally located in Pierce County, now moored in Seattle under DNR's custody	Tacoma; Seattle	47.654193, -122.366490	27, 36	4	3,000,000
Former WW2 Sub-Chaser	Cowlitz County	Longview	46.172761, -123.063681	19	4	3,000,000
Former U.S. Coast Guard Cutter	Jefferson County	Port Hadlock	48.04, -122.76	24	4	1,000,000
Cairdeas	Transiting within Jefferson and Kitsap Counties	Various	Various	23, 24, 35	4	1,000,000
Onondaga	Salmon Bay	Seattle	47.665970, -122.390999	36	4	2,500,000
O&M No. 1	Snohomish River Estuary	Everett	47.989689, -122.152780	38,39	4	3,000,000
<b>Total</b>						<b>\$ 13,500,000</b>

Project Types

- 1: Health, safety & code req
- 2: Facility preservation
- 3. Infrastructure preservation
- 4. Program

<b>Notes</b>
This vessel is actively moving around the Puget Sound; therefore, a Lat/Long could not be provided.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000650  
**Project Title:** Webster Nursery Expansion

## Description

**Starting Fiscal Year:** 2026  
**Project Class:** Program  
**Agency Priority:** 4

### Project Summary

This project constructs greenhouse and grow pad infrastructure at Webster Nursery to double the nursery's seedling production output to meet the State's demand for reforestation efforts.

### Project Description

#### ***Project Description:***

Significant increases in wildfire acres burned in the western United States and forest nursery closures during the last two decades have resulted in a decreased ability for public and private forest nursery infrastructure to meet seedling demand in the Pacific Northwest. This project would leverage the existing Webster Forest Nursery facility to increase seedling production to meet the demand for post disturbance reforestation efforts and support new initiatives to restore riparian areas and mitigate climate change impacts in Washington. The intent of this project is to increase production of an additional four million seedlings per year.

#### ***What will the request produce or construct? When will the project start and be completed?***

This request is to support the second phase of a three-phase project to expand Nursery production. The first phase (2023-25 Project #4000157), a full pre-design inclusive of a storm water mitigation design is in progress currently. The results of the pre-design progress are the basis for this request. The second phase of the project, occurring during the 2025-27 Biennium will deliver a full design and construction of storm water mitigation structures. The third and final phase of the project will take place during the 2027-29 Biennium and deliver construction of a greenhouse, grow pads, and a refrigerated warehouse structure. Specifically, this request is to construct the storm water structures per the plan developed during the pre-design phase and to complete a full design of above ground facilities including greenhouses and warehouse. This request also includes funding required by Thurston County as mitigation of gopher habitat through payment to the Thurston County Gopher Bank Fund. The ongoing pre-design is finalizing the archaeological study and mitigation requirements. The design produced during this requested phase will establish the cost estimation necessary for the third and final phase of the project.

#### ***How would the request address the problem or opportunity? What would be the result of not taking action?***

The end state of this project is to double the seedling production capacity at Webster Nursery. This project will double the available greenhouse space at the Nursery and increase the grow pad space by a factor of four. By achieving this measure, the Nursery will be able to double seedling output capacity without a requirement for additional land or planted fields. The result of not undertaking this project is to operate Webster Nursery at current production levels and a failure to meet increasing demands across the state for seedling product to support reforestation.

#### ***What alternatives were explored? Why was the recommended alternative chosen?***

The Department reviewed the potential of leasing or purchasing a greenhouse facility at off-site locations. This action is not cost effective, because splitting operations require hiring what amounts to a second set of staff to operate an additional site. An additional site would require additional infrastructure to support storage, care, treatment, handling, and transport of seedlings, in addition to life support space for the additional staff a second site would require. Operation of an additional greenhouse at the existing Webster site does not require additional staff to operate and has the advantages of support from existing nursery infrastructure. Movement to an off-site location would incur intermodal transportation costs and overhead costs otherwise saved by operations from the existing Nursery site.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:17PM

Project Number: 40000650

Project Title: Webster Nursery Expansion

## Description

***Which clientele would be impacted by the budget request?***

This project will increase seedling production capacity. The clientele ultimately benefitting from this project are the private and governmental customers of the Department's Nursery.

***Does this project or program leverage non-state funding? If yes, how much by source?***

No

***Describe how this project supports the agency's strategic master plan or would improve agency performance.***

This project supports Strategic Priority D, "Strengthen the Health and Resilience of Our Lands and Waters," and Strategic Priority E, "Increase Public Engagement and Commitment to our Public Lands" respectively by more effectively delivering seedling production and seedling availability to support reforestation efforts throughout the state.

***Does this request include funding for any IT-related cost?***

No

***If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.***

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, by expanding the seedling production for reforestation efforts.

The Influential Outcome directly advanced by this proposal include:

1.4 Restore habitat and habitat-forming processes to support biological communities

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy 4: Establish and implement science-based riparian protection, restoration, and management policies that result in a minimum 'Site Potential Tree Height' forested riparian area standard. (ID #11)

**Key opportunity:** Establish a riparian plant propagation program at public and private nurseries to meet future riparian restoration needs

Strategy 25: Support natural resource sector jobs and production opportunities. (ID #165)

The proposal is aligned with and implements strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY – Low Summer Flows (3):** Protect and manage headwaters and upland forest to improve hydrologic function of watersheds.

Low Flow: 3.1 Prevent the conversion of forests and promote restoration of riparian areas.

**STRATEGY - Water Quality (2):** Control and prevent nonpoint source pollution that affects salmon.

WQ: 2.6 Communicate the need for nurseries to supply native trees in the numbers needed to support riparian plantings long Puget Sound streams to help filter pollutants.

***How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clear Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or***

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:17PM

Project Number: 40000650

Project Title: Webster Nursery Expansion

## Description

### *improve energy efficiency?*

The end state of this project is the eventual construction of agricultural buildings (greenhouses) and an industrial building (partially refrigerated warehouse). The ongoing pre-design is attempting to identify cost effective electrical greenhouse heating units for use in place of natural gas units. Due to the categorization of the structure as agricultural, the greenhouse structures are exempt from Tier II requirements of the Clean Buildings Act and the warehouse structure will be smaller than Tier II size thresholds.

### *How is your proposal impacting equity in the state?*

This project expands the capacity of the Department's seedling production activity in support of reforestation efforts across the state including those areas at increased ecological risk due to recent and future wildfire activity.

### *Is this project eligible for Direct Pay?*

No

### *Is there additional information you would like decision makers to know when evaluating this request?*

Webster Nursery is the primary agency contact point for over 400 public customers every year. Please see the attached slide for visual depiction of project scope.

### *If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.*

This project indirectly relates to the Governor's Salmon Strategy by way of the availability of seedling production affecting reforestation efforts in the future.

### **List all FTE including job classification, staff months, and work to be performed by each position for this project.**

Both positions will plan and oversee the project:

Construction Project Coordinator 4 - 0.37 FTE

Natural Resource Scientist 3 - 0.17 FTE

## Location

City: Tumwater

County: Thurston

Legislative District: 035

## Project Type

Infrastructure (Major Projects)

## Growth Management impacts

None

New Facility: No

## Funding

Expenditures

2025-27 Fiscal Period

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:17PM

Project Number: 40000650

Project Title: Webster Nursery Expansion

**Funding**

Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	5,591,000				5,591,000
	<b>Total</b>	<b>5,591,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,591,000</b>

Future Fiscal Periods

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

Per requirements noted above, this project will exceed the \$12 Million dollar threshold during the construction phase during the '27-29 biennium but will not during the phase specifically requested in this decision package.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This project expands the capacity of the Department's seedling production activity in support of reforestation efforts across the state including those areas at increased ecological risk due to recent and future wildfire activity.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Per the OBC map and the intersection with recent fire history up to 50% of seedling production potentially will distribute to areas identified on the map.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Tribals consultation with regard to the site has been ongoing prior to initiation of the pre-design, particularly with regard to potential archaeological condition proximate to the site.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

The Department is fully engaged with the Chalis tribe regarding the siting of the improvements.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

The threshold of cost requiring an environmental justice assessment will not occur until the third phase of the project. The Department will include the necessary assessment in conjunction with the request to complete the third phase of the project.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

The threshold of cost requiring an environmental justice assessment will not occur until the third phase of the project. The Department will include the necessary assessment in conjunction with the request to complete the third phase of the project.

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	Webster Nursery Production Expansion
OFM Project Number	40000157

Contact Information	
Name	wayne Skill
Phone Number	360-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet	83,000	MACC per Gross Square Foot	\$249
Usable Square Feet	83,000	Escalated MACC per Gross Square Foot	\$283
Alt Gross Unit of Measure			
Space Efficiency	100.0%	A/E Fee Class	C
Construction Type	Greenhouses	A/E Fee Percentage	9.40%
Remodel		Projected Life of Asset (Years)	
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	No
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	8.30%	Location Used for Tax Rate	Thurston County
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	
Project Administered By	Agency		

Schedule			
Pre-design Start	December-23	Pre-design End	June-25
Design Start	September-25	Design End	June-27
Construction Start	October-27	Construction End	June-29
Construction Duration	20 Months		

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Project Cost Summary			
Total Project	<b>\$27,302,948</b>	Total Project Escalated	<b>\$30,875,540</b>
		Rounded Escalated Total	<b>\$30,876,000</b>
Amount funded in Prior Biennia			\$0
<b>Amount in current Biennium</b>			<b>\$1,768,000</b>
Next Biennium			\$0
Out Years			<b>\$29,107,000</b>

Acquisition			
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0

Consultant Services			
Pre-design Services	\$25,000		
Design Phase Services	\$1,425,073		
Extra Services	\$35,000		
Other Services	\$633,511		
Design Services Contingency	\$105,929		
<b>Consultant Services Subtotal</b>	<b>\$2,224,513</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$2,416,923</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$20,705,000	Maximum Allowable Construction Cost (MACC) Escalated	\$23,492,953
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$1,035,250		\$1,175,941
Non-Taxable Items	\$0		\$0
Sales Tax	\$1,804,441	Sales Tax Escalated	\$2,047,542
<b>Construction Subtotal</b>	<b>\$23,544,691</b>	<b>Construction Subtotal Escalated</b>	<b>\$26,716,436</b>

Equipment			
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$0</b>	<b>Equipment Subtotal Escalated</b>	<b>\$0</b>

Artwork			
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0

Agency Project Administration			
Agency Project Administration Subtotal	\$1,533,745		
DES Additional Services Subtotal	\$0		
Other Project Admin Costs	\$0		
<b>Project Administration Subtotal</b>	<b>\$1,533,745</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$1,742,181</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$27,302,948</b>	Total Project Escalated	<b>\$30,875,540</b>
		Rounded Escalated Total	<b>\$30,876,000</b>

# C-100(2024)

Updated June 2024

## Quick Start Guide

### GENERAL INFORMATION

- 1) The intended use of the C-100(2024) is to enable project managers to communicate their project cost estimates to budget officers in the standard format required for capital project budget requests/submittals to OFM.
- 2) This workbook is protected so that the worksheets within it cannot be moved or deleted in the usual manner. This protection is necessary to ensure that the cost estimate details and formulas align with the estimating application in the Capital Budgeting System.
- 3) The estimating format to develop the maximum allowable construction cost (MACC) is presented in Uniformat II.
- 4) Form-calculated costs such as A/E Basic Design Service fees and Agency Project Management costs are dependent on other estimated project costs such as MACC, equipment, etc.
- 5) Project estimates generated with this tool are not sufficient for budget request submittals to OFM. Use the Capital Budgeting System to submit capital project budget requests and attach the C-100 form.
- 6) Contact your assigned OFM Capital Budget Analyst with questions.

[OFM Capital Budget Analyst](#)

### INSTRUCTIONS

- 1) Only green cells are available for data entry.
- 2) Fill in all known cells in the 'Summary' tab prior to moving on to the cost entry tabs A-G.
- 3) It is recommended, but not required, to fill out cost entry tabs in the following order:  
A. Acquisition, C. Construction Contracts, D. Equipment, G. Other Costs, B. Consultant Services, F. Project Management, then E. Artwork.
- 4) If additional rows are inserted to capture additional project costs, a description must be provided in the Notes column or within Tab H. Additional Notes. Be particularly detailed for additional costs estimated for contingencies and project management.

### FORM-CALCULATED COSTS (FEE CALCULATIONS)

- 1) A/E Basic Design Services:  $AE\ Fee\ \% \times (MACC\ or\ TCC + Contingency)$
- 2) Design Services Contingency:  $Contingency\ \% \times Consultant\ Services\ Subtotal$
- 3) Construction Contingency:  $Contingency\ \% \times MACC\ or\ TCC$
- 4) Artwork:  $0.5\% \times Total\ Project\ Cost$
- 5) Agency Project Management (Greater than \$1million):  $(AE\ Fee\ \% - 3\%) \times (Acquisition\ Total + Consultant\ Services\ Total + MACC + Construction\ Contingency + Other\ Costs)$

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$0				\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$2,416,923		\$1,700,200		\$716,723
<b>Construction</b>					
Construction Subtotal	\$26,716,436				\$26,716,436
<b>Equipment</b>					
Equipment Subtotal	\$0				\$0
<b>Artwork</b>					
Artwork Subtotal	\$0				\$0
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$1,742,181		\$68,000		\$1,674,181
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0
<b>Project Cost Estimate</b>					
Total Project	\$30,875,540	\$0	\$1,768,200	\$0	\$29,107,340
	\$30,876,000	\$0	\$1,768,000	\$0	\$29,107,000
Percentage requested as a new appropriation			6%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**

This phase, this C100: Design of 66,000 square feet of greenhouses and 17,000 square feet of refrigerated warehouse

A separate C100 in this request covers storm water construction also occurring in this phase.

*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**

Phase I ('23-25) is delivering a pre-design for the project and a storm water mitigation plan.

*Insert Row Here*

**What is planned with a future appropriation?**

Phase III ('27-29) will deliver construction of 66,000 square foot of greenhouses and 17,000 square feet of refrigerated warehouse.

*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition					
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

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## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis	\$25,000				
Environmental Analysis					
Predesign Study					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$25,000</b>		<b>1.0324</b>	<b>\$25,810</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$1,410,073				69% of A/E Basic Services
Other	\$15,000				Cost estimating
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$1,425,073</b>		<b>1.0624</b>	<b>\$1,513,998</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)	\$35,000				
Geotechnical Investigation					
Commissioning					
Site Survey					
Testing					
LEED Services					
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)					
Landscape Consultant					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$35,000</b>		<b>1.0624</b>	<b>\$37,184</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$633,511				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$633,511</b>		<b>1.1359</b>	<b>\$719,606</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$105,929				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$105,929</b>		<b>1.1359</b>	<b>\$120,325</b>	Escalated to Mid-Const.

**CONSULTANT SERVICES TOTAL**

**\$2,224,513**

**\$2,416,923**

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation	\$50,000				
G20 - Site Improvements	\$20,000				
G30 - Site Mechanical Utilities	\$25,000				
G40 - Site Electrical Utilities	\$450,000				
G60 - Other Site Construction					
Site water Utilities	\$300,000				
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$845,000</b>		<b>1.1053</b>	<b>\$933,979</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements					
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	
<b>3) Facility Construction</b>					
A10 - Foundations	\$2,400,000				
A20 - Basement Construction	\$0				
B10 - Superstructure	\$560,000				
B20 - Exterior Closure	\$6,000,000				
B30 - Roofing	\$850,000				
C10 - Interior Construction	\$1,000,000				
C20 - Stairs					
C30 - Interior Finishes	\$150,000				
D10 - Conveying					
D20 - Plumbing Systems	\$500,000				
D30 - HVAC Systems	\$3,000,000				
D40 - Fire Protection Systems	\$300,000				
D50 - Electrical Systems	\$1,900,000				
F10 - Special Construction	\$2,000,000				
F20 - Selective Demolition	\$0				
General Conditions	\$1,200,000				
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$19,860,000</b>		<b>1.1359</b>	<b>\$22,558,974</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$20,705,000</b>			<b>\$23,492,953</b>	
	\$249			\$283 per GSF	

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**7) Owner Construction Contingency**

Allowance for Change Orders	\$1,035,250		
Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$1,035,250</b>	<b>1.1359</b>	<b>\$1,175,941</b>

**8) Non-Taxable Items**

Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.1359</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$1,804,441</b>		<b>\$2,047,542</b>
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<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$23,544,691</b>		<b>\$26,716,436</b>
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## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings					
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$0</b>			<b>\$0</b>	

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## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$0				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$1,533,745				
Additional Services					
Other					
Insert Row Here					
<i>Subtotal of Other</i>	\$0				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$1,533,745</b>		<b>1.1359</b>	<b>\$1,742,181</b>	

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## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

*Insert Row Here*

**Tab B. Consultant Services**

Consultant services are for design of structures on site. Storm water costs on separate C100

*Insert Row Here*

**Tab C. Construction Contracts**

Baseline construction costs estimated at \$200/sf and refrigerated warehouse at \$600/sf to determine A&E costs.

*Insert Row Here*

**Tab D. Equipment**

*Insert Row Here*

**Tab E. Artwork**

industrial buildings closed to public

*Insert Row Here*

**Tab F. Project Management**

*Insert Row Here*

**Tab G. Other Costs**

*Insert Row Here*

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	Webster Nursery Production Expansion
OFM Project Number	40000157

Contact Information	
Name	Wayne Skill
Phone Number	360-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet	0	MACC per Gross Square Foot	
Usable Square Feet	0	Escalated MACC per Gross Square Foot	
Alt Gross Unit of Measure			
Space Efficiency		A/E Fee Class	C
Construction Type	Civil Construction	A/E Fee Percentage	11.43%
Remodel		Projected Life of Asset (Years)	
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	No
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	8.30%	Location Used for Tax Rate	Thurston County
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	
Project Administered By	Agency		

Schedule			
Pre-design Start	December-23	Pre-design End	June-25
Design Start	September-25	Design End	June-27
Construction Start	October-27	Construction End	June-29
Construction Duration	20 Months		

Green cells must be filled in by user

Project Cost Summary			
Total Project	\$4,032,334	Total Project Escalated	\$4,416,842
		Rounded Escalated Total	\$4,417,000
Amount funded in Prior Biennia			\$0
<b>Amount in current Biennium</b>			<b>\$3,823,000</b>
Next Biennium			\$0
Out Years			\$594,000

Acquisition			
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0

Consultant Services			
Pre-design Services	\$670,000		
Design Phase Services	\$198,745		
Extra Services	\$0		
Other Services	\$89,291		
Design Services Contingency	\$47,902		
<b>Consultant Services Subtotal</b>	<b>\$1,005,938</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$1,058,693</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$2,400,000	Maximum Allowable Construction Cost (MACC) Escalated	\$2,652,720
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$120,000		\$136,308
Non-Taxable Items	\$0		\$0
Sales Tax	\$209,160	Sales Tax Escalated	\$231,489
<b>Construction Subtotal</b>	<b>\$2,729,160</b>	<b>Construction Subtotal Escalated</b>	<b>\$3,020,517</b>

Equipment			
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$0</b>	<b>Equipment Subtotal Escalated</b>	<b>\$0</b>

Artwork			
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0

Agency Project Administration			
Agency Project Administration Subtotal	\$297,237		
DES Additional Services Subtotal	\$0		
Other Project Admin Costs	\$0		
<b>Project Administration Subtotal</b>	<b>\$297,237</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$337,632</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$4,032,334</b>	Total Project Escalated	<b>\$4,416,842</b>
		Rounded Escalated Total	<b>\$4,417,000</b>

# C-100(2024)

Updated June 2024

## Quick Start Guide

### GENERAL INFORMATION

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[OFM Capital Budget Analyst](#)

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### FORM-CALCULATED COSTS (FEE CALCULATIONS)

- 1) A/E Basic Design Services:  $AE\ Fee\ \% \times (MACC\ or\ TCC + Contingency)$
- 2) Design Services Contingency:  $Contingency\ \% \times Consultant\ Services\ Subtotal$
- 3) Construction Contingency:  $Contingency\ \% \times MACC\ or\ TCC$
- 4) Artwork:  $0.5\% \times Total\ Project\ Cost$
- 5) Agency Project Management (Greater than \$1million):  $(AE\ Fee\ \% - 3\%) \times (Acquisition\ Total + Consultant\ Services\ Total + MACC + Construction\ Contingency + Other\ Costs)$

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$0				\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$1,058,693	\$0	\$670,000		\$388,693
<b>Construction</b>					
Construction Subtotal	\$3,020,517		\$3,025,716		-\$5,199
<b>Equipment</b>					
Equipment Subtotal	\$0				\$0
<b>Artwork</b>					
Artwork Subtotal	\$0				\$0
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$337,632	\$0	\$126,950		\$210,682
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0

<b>Project Cost Estimate</b>					
Total Project	\$4,416,842	\$0	\$3,822,666	\$0	\$594,176
	\$4,417,000	\$0	\$3,823,000	\$0	\$594,000
Percentage requested as a new appropriation			87%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**  
 This C100 covers the storm water construction portion of phase II of project. A separate C100 will cover building design in the decision package.  
 This C100 includes Thurston County Gopher Bank costs for the 6 acre project site.  
*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**  
 Phase I ('23-25) included project pre-design and storm water mitigation design.  
*Insert Row Here*

**What is planned with a future appropriation?**  
 Phase III will cover construction of buildings (greenhouses, warehouse) designed during phase II  
*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition					
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis					
Environmental Analysis					
Predesign Study					
Thurston County Gopher Bank	\$670,000				Gopher Mitigation
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$670,000</b>		<b>1.0324</b>	<b>\$691,708</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$198,745				69% of A/E Basic Services
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$198,745</b>		<b>1.0624</b>	<b>\$211,147</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)					
Geotechnical Investigation					
Commissioning					
Site Survey					
Testing					
LEED Services					
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)					
Landscape Consultant					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.0624</b>	<b>\$0</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$89,291				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$89,291</b>		<b>1.1359</b>	<b>\$101,426</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$47,902				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$47,902</b>		<b>1.1359</b>	<b>\$54,412</b>	Escalated to Mid-Const.

**CONSULTANT SERVICES TOTAL**

**\$1,005,938**

**\$1,058,693**

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation					
G20 - Site Improvements					
G30 - Site Mechanical Utilities					
G40 - Site Electrical Utilities					
G60 - Other Site Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements					
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention	\$2,400,000				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$2,400,000</b>		<b>1.1053</b>	<b>\$2,652,720</b>	
<b>3) Facility Construction</b>					
A10 - Foundations					
A20 - Basement Construction					
B10 - Superstructure					
B20 - Exterior Closure					
B30 - Roofing					
C10 - Interior Construction					
C20 - Stairs					
C30 - Interior Finishes					
D10 - Conveying					
D20 - Plumbing Systems					
D30 - HVAC Systems					
D40 - Fire Protection Systems					
D50 - Electrical Systems					
F10 - Special Construction					
F20 - Selective Demolition					
General Conditions					
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$2,400,000</b>			<b>\$2,652,720</b>	
	NA			NA per 0	

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**7) Owner Construction Contingency**

Allowance for Change Orders	\$120,000		
Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$120,000</b>	<b>1.1359</b>	<b>\$136,308</b>

**8) Non-Taxable Items**

Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.1359</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$209,160</b>		<b>\$231,489</b>
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<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$2,729,160</b>		<b>\$3,020,517</b>
-------------------------------------	--------------------	--	--------------------

Green cells must be filled in by user

## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings					
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$0</b>			<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$0				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$297,237				
Additional Services					
Other					
Insert Row Here					
<i>Subtotal of Other</i>	\$0				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$297,237</b>		<b>1.1359</b>	<b>\$337,632</b>	

Green cells must be filled in by user

## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

*Insert Row Here*

**Tab B. Consultant Services**

Gopher Bank cost are required to permit the storm water constuction occurring '25-27.

*Insert Row Here*

**Tab C. Construction Contracts**

Note: construction totals are for storm water construction costs. 60% design estimate from A&E firm is attached to DP.

These are 25-27 costs. See attached Estimate form for detailed stormwater construction costs.

*Insert Row Here*

**Tab D. Equipment**

*Insert Row Here*

**Tab E. Artwork**

No Artwork: Regrigerated warehouse not open or accessible to public

*Insert Row Here*

**Tab F. Project Management**

*Insert Row Here*

**Tab G. Other Costs**

*Insert Row Here*

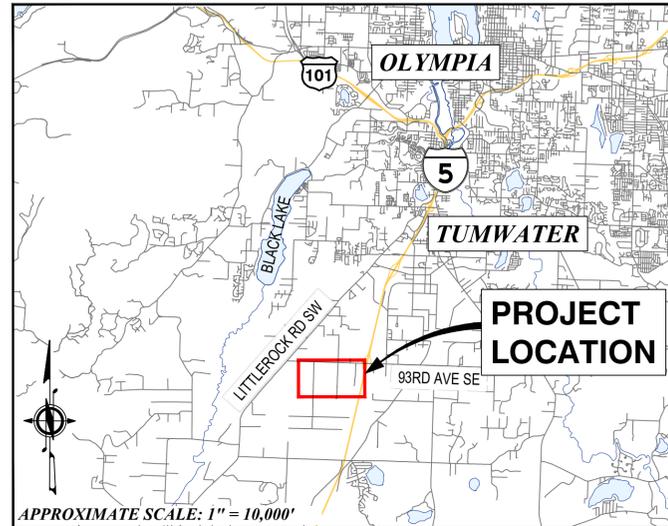


# STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

## WEBSTER STORMWATER PREDESIGN AND DESIGN

PRELIMINARY REVIEW  
DRAWINGS

### PROJECT VICINITY MAP



### CONTACT PERSONNEL

CONTACT	AGENCY	PHONE
BRANDON HASKINS (PROJECT MANAGER)	WA DEPARTMENT OF NATURAL RESOURCES	360.890.0297
CALVIN OHLSON-KIEHN (ASSISTANT DIVISION MANAGER)	WA DEPARTMENT OF NATURAL RESOURCES	360.701.1452
CARLOS GANTZ (NURSERY MANAGER)	WA DEPARTMENT OF NATURAL RESOURCES	564.669.9206
BRET BEAUPAIN, P.E. (PROJECT MANAGER)	RH2 ENGINEERING	360.684.1564
ORIN PAUL, P.E. (PROJECT ENGINEER)	RH2 ENGINEERING	360.684.1556
KAYLIE DENNEHY (STAFF ENGINEER)	RH2 ENGINEERING	360.599.7474

### DRAWING INDEX

Sheet Number	Sheet Title	Dwg No
1	COVER	COV
2	GENERAL NOTES	G01
3	SURVEY CONTROL MAP	--
4	EXISTING CONDITIONS I	--
5	EXISTING CONDITIONS II	--
6	EXISTING CONDITIONS III	--
7	EXISTING CONDITIONS VI	--
8	EXISTING CONDITIONS V	--
9	EXISTING CONDITIONS VI	--
10	EXISTING SITE SEPTIC AND WATER SYSTEMS	G02
11	DEMOLITION & TESC PLAN I	P01
12	DEMOLITION & TESC PLAN II	P02
13	DEMOLITION & TESC PLAN III	P03
14	STORMWATER PLAN I	SD01
15	STORMWATER PLAN II	SD02
16	PROPOSED SITE PLAN I	C01
17	PROPOSED SITE PLAN II	C02
18	PROPOSED SITE PLAN III	C03
19	PROPOSED SITE PLAN IV	C04

### SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED.

**REFERENCE BUBBLES**

PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.

DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

WHERE, X = SECTION/DETAIL REFERENCE ID\*  
X## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

\*SECTION/DETAIL REFERENCE ID CONVENTIONS:  
SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE ID (A - ZZ) AND DETAILS SHOULD HAVE A NUMERICAL REFERENCE ID (0 - 999)

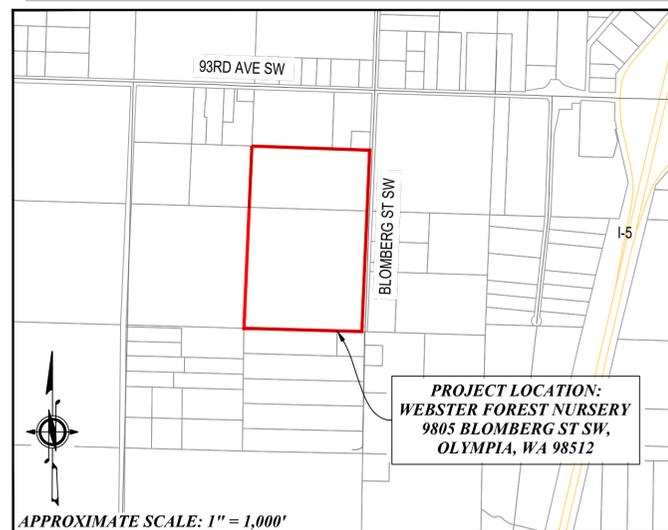
### ABBREVIATIONS

CB	CATCH BASIN	N	NORTHING
CONC	CONCRETE	PE	POLYETHYLENE
CL	CENTERLINE	PROP	PROPOSED
CPEP	CORRUGATED POLYETHYLENE	PVC	POLYVINYL CHLORIDE
CSBC	CRUSHED SURFACING BASE COURSE	R	RIGHT
CSTC	CRUSHED SURFACING TOP COURSE	RT	RIGHT
DIAM	DIAMETER	ROW	RIGHT-OF-WAY
DI	DUCTILE IRON	SPEC	SPECIFICATIONS
DWG	DRAWING	SS	SANITARY SEWER
E	EASTING	SSMH	SANITARY SEWER MANHOLE
ELEV	ELEVATION	ST	STORM
EOP	EDGE OF PAVEMENT	STA	STATION LINE
EX	EXISTING	STD	STANDARD
HMA	HOT MIXED ASPHALT	SY	SQUARE YARDS
L	LEFT	TYP	TYPICAL
LT	LEFT	W	WATER
LF	LINEAR FEET		

### SURVEY NOTES

FOR SURVEY NOTES, CONTROL POINTS, AND PROJECT VERTICAL AND HORIZONTAL DATUMS, REFER TO SURVEY CONTROL MAP, SHEET 3, THIS PLAN SET.

### PROJECT LOCATION MAP



CALL 48 HOURS BEFORE YOU DIG  
ONE CALL 811  
REPORT ALL SPILLS  
DEPT. OF ECOLOGY 1-800-258-5990



# LEGEND

## EXISTING LEGEND

- VALVE
- WATER METER
- HOSE BIB
- WELL - FROM ASBUILT
- STORM DRAIN MANHOLE
- CATCH BASIN (ROUND)
- CATCH BASIN (RECTANGULAR)
- CULVERT DAYLIGHT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- UTILITY POLE
- UTILITY GUY ANCHOR
- UNDERGROUND POWER
- OVERHEAD POWER
- SANITARY SEWER
- SANITARY SEWER - FROM ASBUILT
- SEWER FORCE MAIN
- STORM DRAIN CULVERT
- STORM DRAIN DITCH
- STORM DRAIN LINE
- STORM DRAIN LINE- FROM ASBUILT
- WATER LINE
- WATER LINE - FROM ASBUILT
- WATER SERVICE LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- BUILDING EDGE
- BUILDING DOORS
- FENCE
- TOE TOE OF SLOPE
- TOPO TOP OF SLOPE
- BOLLARD
- TREE (CONIFER)
- SITE ASPHALT
- SITE CONCRETE
- DIRT ROAD

## DEMOLITION LEGEND

- CLEARING AND GRUBBING AREA
  - STABILIZED CONSTR. ENTRANCE
  - INLET PROTECTION
  - TREE REMOVAL
  - SILT FENCE
  - HIGH VISIBILITY FENCE
- ## PROPOSED STORM LEGEND
- STORMWATER PIPE
  - PERF STORMWATER PIPE
  - TYPE 1 CATCH BASIN
  - TYPE 2 CATCH BASIN
  - OVERFLOW STRUCTURE
  - SUBGRADE INFILTRATION TRENCH

## PROPOSED SITE LEGEND

- FUTURE BUILDING
- INFILTRATION POND
- SWALE
- SITE ASPHALT
- ROAD PAVING

# GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE THURSTON COUNTY CODE, THE 2024 EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AND ANY PROJECT SPECIFIC SPECIAL PROVISIONS OR CONDITIONS AND REQUIREMENTS.
2. CONTRACTOR SHALL REFER TO AND COMPLY WITH THE PROJECT CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDED IN THE PROJECT SPECIFICATIONS.
3. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.
4. THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS BUT HAVE NOT BEEN EXPOSED AND MEASURED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK TO AVOID DAMAGE OR DISTURBANCE, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. IT IS UNDERSTOOD THAT OTHER ABOVE GROUND AND UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. WHERE THESE UTILITIES CROSS THE PROPOSED PIPE, THE DEPTH OF EACH IS SHOWN ON THE PROFILES AND IS BASED ON TYPICAL LAYING DEPTHS FOR EACH OF THESE UTILITIES. ACTUAL DEPTHS ARE UNKNOWN AND MAY VARY SIGNIFICANTLY. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF UTILITY CROSSING DEPTH CONFLICTS ARISE.
5. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING UNDERGROUND LOCATE AT 1-800-424-5555 OR (811) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION WORK.
6. ALL NON-FERROUS PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS DETECTABLE MARKING TAPE PLACED APPROXIMATELY 1 FOOT ABOVE THE TOP OF THE LINE AND SHALL EXTEND ITS FULL LENGTH. DETECTABLE MARKING TAPE SHALL MEET THE REQUIREMENTS OF SECTION 9-15.18.
7. THE CONTRACTOR SHALL HAVE A COPY OF THE APPROVED PLANS AT THE CONSTRUCTION SITE AT ALL TIMES.
8. THE CONTRACTOR SHALL CLEANUP ALL AREAS AFFECTED BY THEIR ACTIVITIES TO THE SATISFACTION OF THE LOCAL JURISDICTION REPRESENTATIVE BY THE END OF EACH WORKING DAY OR MORE FREQUENTLY IF REQUIRED BY THE LOCAL JURISDICTION REPRESENTATIVE. THIS INCLUDES REMOVAL OF ALL DUST, MUD, ROCKS, ASPHALT DEBRIS, AND REFUSE FROM STREETS, SIDEWALKS, DRIVEWAYS, AND ANY OTHER AREAS AFFECTED BY THE CONSTRUCTION ACTIVITIES. FAILURE TO CLEANUP TO THE SATISFACTION OF THE LOCAL JURISDICTION REPRESENTATIVE WILL NECESSITATE A SHUTDOWN OF THE PROJECT UNTIL CLEANUP IS PROPERLY PERFORMED. DAILY CLEANUP IS AN INTEGRAL PART OF EROSION AND POLLUTION CONTROL.



**DEPT. OF NATURAL RESOURCES**  
**WEBSTER STORMWATER DESIGN**



**GENERAL NOTES**

NO.	DATE	DESCRIPTION	BY	REVIEW
<b>REVISIONS</b>				
		<b>PRELIMINARY REVIEW DRAWINGS</b>		

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2'

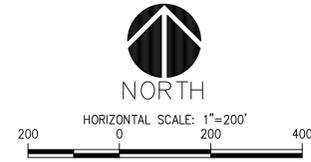
# WEBSTER FOREST NURSERY

## BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY

### PORTIONS OF THE N.E. 1/4 OF SECTION 20, TOWNSHIP 17 NORTH, RANGE 2 WEST, W.M., THURSTON COUNTY, WASHINGTON STATE

62' R/W PER THURSTON COUNTY GIS  
(30' SOUTH HALF BY VOL. 1749, PG. 324;  
ADDITIONAL 2' ON SOUTH HALF BY VOL. 2441, PG. 385)

**93RD AVENUE SW**  
S88°08'10"E 2638.89'



#### HORIZONTAL DATUM

WASHINGTON PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/1991 AS DEFINED BY THURSTON COUNTY HOLDING NORTH 01°29'42" EAST BETWEEN THURSTON COUNTY MONUMENT NUMBERS 1248 AND 1954 BASED ON GPS OBSERVATION UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN).

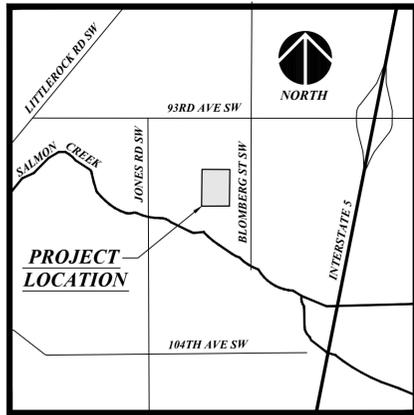
#### VERTICAL DATUM

NGVD 29  
THURSTON COUNTY CONTROL POINT NUMBER 1248  
SURFACE MONUMENT  
PUBLISHED ELEVATION: 182.999

TEMPORARY BENCHMARK - MAG NAIL NO. 6; EL: 190.23  
DESCRIPTION: MAG NAIL IN ASPHALT; ON SOUTHWEST EDGE OF NORTH DRIVE TO SITE

#### NOTES

- EQUIPMENT USED: CARLSON CR2+ ROBOTIC TOTAL STATION AND TOPCON HIPER VR RTK/GPS
- THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE AND RELATIVE POSITIONAL ACCURACY STANDARDS CONTAINED IN W.A.C. 332-130-085 AND W.A.C. 332-130-090. THE RELATIVE POSITIONAL ACCURACY OF THE POSITIONS LOCATED HEREON MEETS OR EXCEEDS 2 CM (0.07 FT.) PLUS 50 PARTS PER MILLION BETWEEN ANY TWO TESTED POSITIONS. ALL MEASUREMENTS WERE MADE WITH A CARLSON CR2+ TOTAL STATION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON (R.C.W.) 58.09 AND THE WASHINGTON ADMINISTRATIVE CODE (W.A.C.) 332-130, THIS SURVEY MAY DEPICT OCCUPATIONAL INDICATORS THAT DIFFER FROM THE DEEDED LOT LINES. THESE INDICATORS, IF AT ALL PRESENT, MAY REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT PURPORT TO RESOLVE SUCH ITEMS.
- FIELD WORK PERFORMED IN NOVEMBER, 2023, UNDER SITTS & HILL JOB NUMBER 20325.
- UTILITIES AS SHOWN HEREON ARE BASED ON FIELD SURVEY OBSERVATION OF UTILITY LOCATE SERVICES PERFORMED BY MOUNTAIN VIEW LOCATING SERVICES IN NOVEMBER, 2023 FOR THIS SURVEY. THIS HAS BEEN SUPPLEMENTED BY RECORD INFORMATION PROVIDED BY THE CLIENT. RECORD UTILITY LINES SHOWN HEREON ARE DEPICTED WITH A DASHED LINETYPE AS SHOWN IN THE LEGEND. UTILITIES OTHER THAN SHOWN MAY EXIST ON THE SITE. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY AND PAINTED UTILITY LOCATE LINES. COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA IS CONSISTENT WITH QUALITY LEVEL B OF THE ASCE STANDARD GUIDELINES 38-02.
- SITTS & HILL ENGINEERS, INC. HAS RELIED UPON TITLE INFORMATION NOTED IN COMMITMENT FOR TITLE INSURANCE PREPARED BY STEWART TITLE GUARANTY COMPANY OF WASHINGTON, COMMITMENT NUMBER G-6329-000013704, DATED 10/18/2023. IN PREPARATION OF THIS SURVEY, SITTS AND HILL ENGINEERS, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS SITTS AND HILL ENGINEERS, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND/OR DISCLOSED BY SAID TITLE COMPANY'S ORDER. SITTS & HILL ENGINEERS, INC. HAS RELIED WHOLLY ON SAID TITLE COMPANY'S REPORT AND THEREFORE QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.
- THIS SURVEY COMPLIES WITH W.A.C. 332-130-145. THE CONTOURS DEPICTED HEREON ARE BASED ON DATA FROM DIRECT FIELD MEASUREMENTS. SPOT ELEVATIONS ARE BASED ON DIRECT FIELD MEASUREMENTS AND ARE DEPICTED FOR REFERENCE. THE PURPOSE OF THIS TOPOGRAPHIC MAP IS TO SERVE AS A BASE MAP FOR CONTEMPLATED SITE IMPROVEMENTS AND DESIGN.



**VICINITY MAP**  
N.T.S.

#### LEGEND

- MONUMENT AS NOTED
- SCRIBE/HUB/MAGNAIL CONTROL POINT
- TITLE REPORT EXCEPTION
- UTILITY EASEMENT
- PROPERTY LINE
- RIGHT OF WAY LINE
- SECTION LINE
- SECTION SUBDIVISION
- BUILDING EDGE

#### LEGAL DESCRIPTION

**PARCEL A:**  
THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 20, TOWNSHIP 17 NORTH, RANGE 2 WEST, W.M., IN THURSTON COUNTY, WASHINGTON.

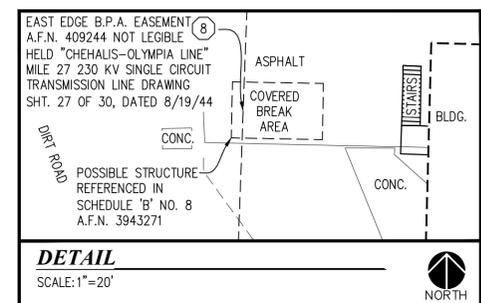
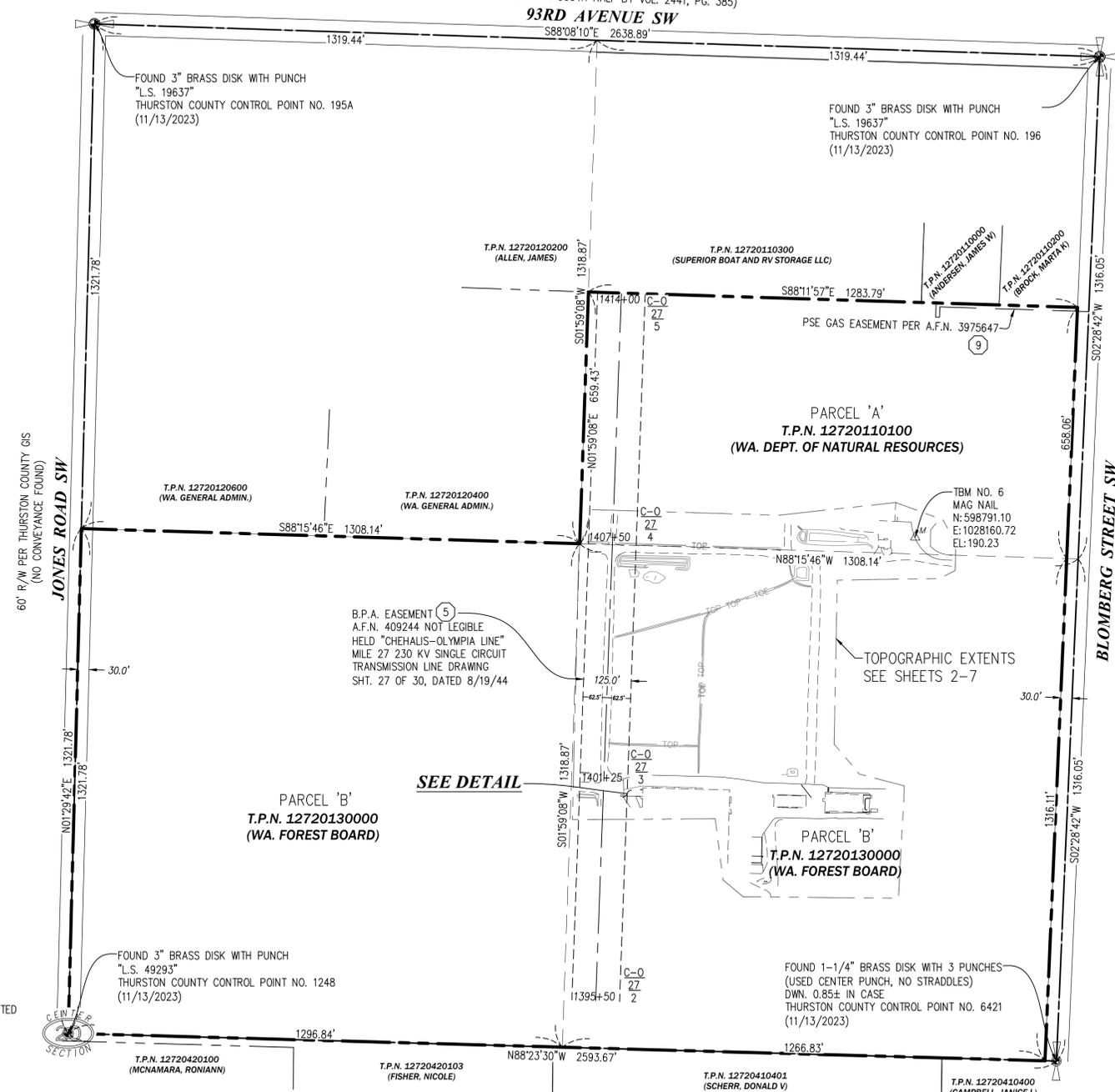
**PARCEL B:**  
THE SOUTH HALF OF THE NORTHEAST QUARTER OF SECTION 20, TOWNSHIP 17 NORTH, RANGE 2 WEST, W.M., IN THURSTON COUNTY, WASHINGTON.

#### SCHEDULE 'B', PART II EXCEPTIONS

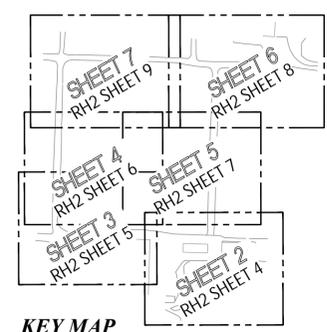
(PER STEWART TITLE GUARANTY COMPANY SUBDIVISION GUARANTEE NO. G-6329-000013704, DATED OCTOBER 18, 2023.

- NOTE LEGEND:  
 \* NOT A SURVEY MATTER, DESCRIPTION PROVIDED AS A COURTESY  
 \*\* CONTENT/DATA WITHIN INSTRUMENT IS INSUFFICIENT TO DETERMINE EXACT LOCATION  
 \*\*\* INSTRUMENT IS BLANKET IN NATURE OR AFFECTS ENTIRE PROPERTY  
 N/A NOT APPLICABLE  
 DNA DOES NOT AFFECT

EXCEPTION NUMBER	AFN	DESCRIPTION
1	*	N/A TAXES
2	*	N/A NO DEED OF TRUST
3	*	N/A UNRECORDED LEASEHOLDS
4	***	342183 CONVEYANCE W/MINERAL RESERVATION (E. 1/2, NE 1/4, SEC. 20)
5	**	409244 USA ELECTRIC TRANSMISSION EASEMENT - DOCUMENT NOT LEGIBLE
6	***	421555 CONVEYANCE W/MINERAL RESERVATION (SW 1/4, NE 1/4, SEC. 20)
7	*	3336349 RESTRICTIVE COVENANT (SE 1/4, NE 1/4, SEC. 20)
8	*	3943271 LIMITED CONSENT FOR BLDG. IN BPA EASEMENT
9	*	3975647 PSE EASEMENT - SHOWN (AFFECTS PARCEL 'A')
10	*	4953611 DRAINAGE DITCH RESOLUTION - AFFECTS THE SUBJECT AND OTHER PROPERTY.



- #### ABBREVIATION LEGEND
- T.P.N. TAX PARCEL NUMBER
  - A.F.N. AUDITOR FILE NUMBER
  - F.F. FINISHED FLOOR
  - B.P. BUILDING PEAK



**KEY MAP**  
NOT TO SCALE

REVISIONS

DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: 12/11/2023  
 SCALE: AS INDICATED



**sitts & hill**  
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<http://www.sitts-hill.com/>

**RH2 ENGINEERING, INC.**  
 1201 PACIFIC AVE., SUITE 1750  
 TACOMA, WA 98402  
 (253) 272-3059

**WEBSTER FOREST NURSERY**  
 BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY  
 OLYMPIA, WA  
 SHEET NO. \_\_\_\_\_

**1 OF 7**  
 PROJECT NO.  
**20325**

RH2 SHEET NO. 3 OF 19

© 2020/2023/2025/2025 - Topo Sheet 1.dwg - Topo Sheet 1.dwg - 12/11/23 11:04am by: SmoofR

MATCH LINE - SEE SHEET 5 OF 7



HORIZONTAL SCALE: 1"=20'  
20 0 20 40

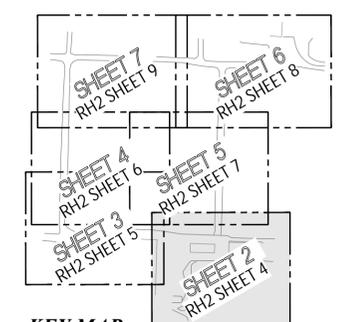
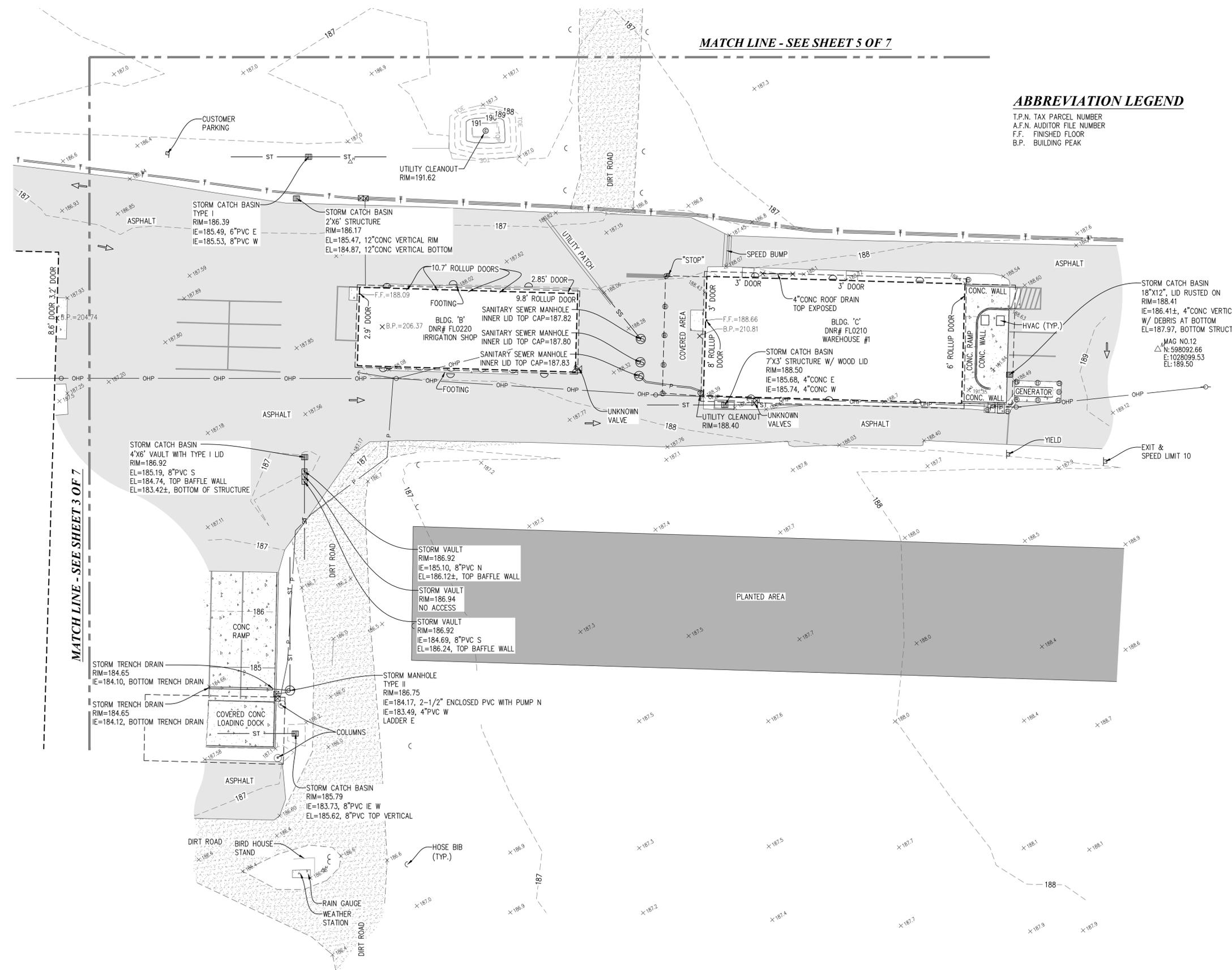
**ABBREVIATION LEGEND**

T.P.N. TAX PARCEL NUMBER  
A.F.N. AUDITOR FILE NUMBER  
F.F. FINISHED FLOOR  
B.P. BUILDING PEAK

**LEGEND**

- MONUMENT AS NOTED
- SCRIBE/HUB/MAGNAIL CONTROL POINT
- WATER VALVE
- WATER HOSE BIB
- STORM DRAIN MANHOLE
- CATCH BASIN (RECTANGULAR)
- CULVERT
- SANITARY SEWER MANHOLE
- MISC. CLEANOUT
- ROOF DRAIN
- POWER POLE
- POWER GUY ANCHOR
- POWER JUNCTION BOX
- POWER CABINET
- TREE (CONIFER)
- TREE (DECIDUOUS)
- BOLLARD
- SIGN
- UNDERGROUND TELECOM. LINE
- UNDERGROUND POWER
- OVERHEAD POWER
- SANITARY SEWER
- STORM DRAIN LINE
- WATER LINE
- UTILITY EASEMENT
- PROPERTY LINE
- RIGHT OF WAY LINE
- SECTION LINE
- SECTION SUBDIVISION
- BUILDING EDGE
- BUILDING OVERHANG
- APPROXIMATE TREE DRIP-LINE
- ASPHALT
- CONCRETE
- GRAVEL/DIRT
- LANDSCAPING (PLANTINGS)

MATCH LINE - SEE SHEET 3 OF 7



KEY MAP  
NOT TO SCALE

REVISIONS  
APPROVALS  
SEAL  
PREPARED BY  
PREPARED FOR

DESIGNED	RS
DRAWN	GOL
CHECKED	AS
DATE	12/11/2023
SCALE	AS NOTED



**sitts & hill**  
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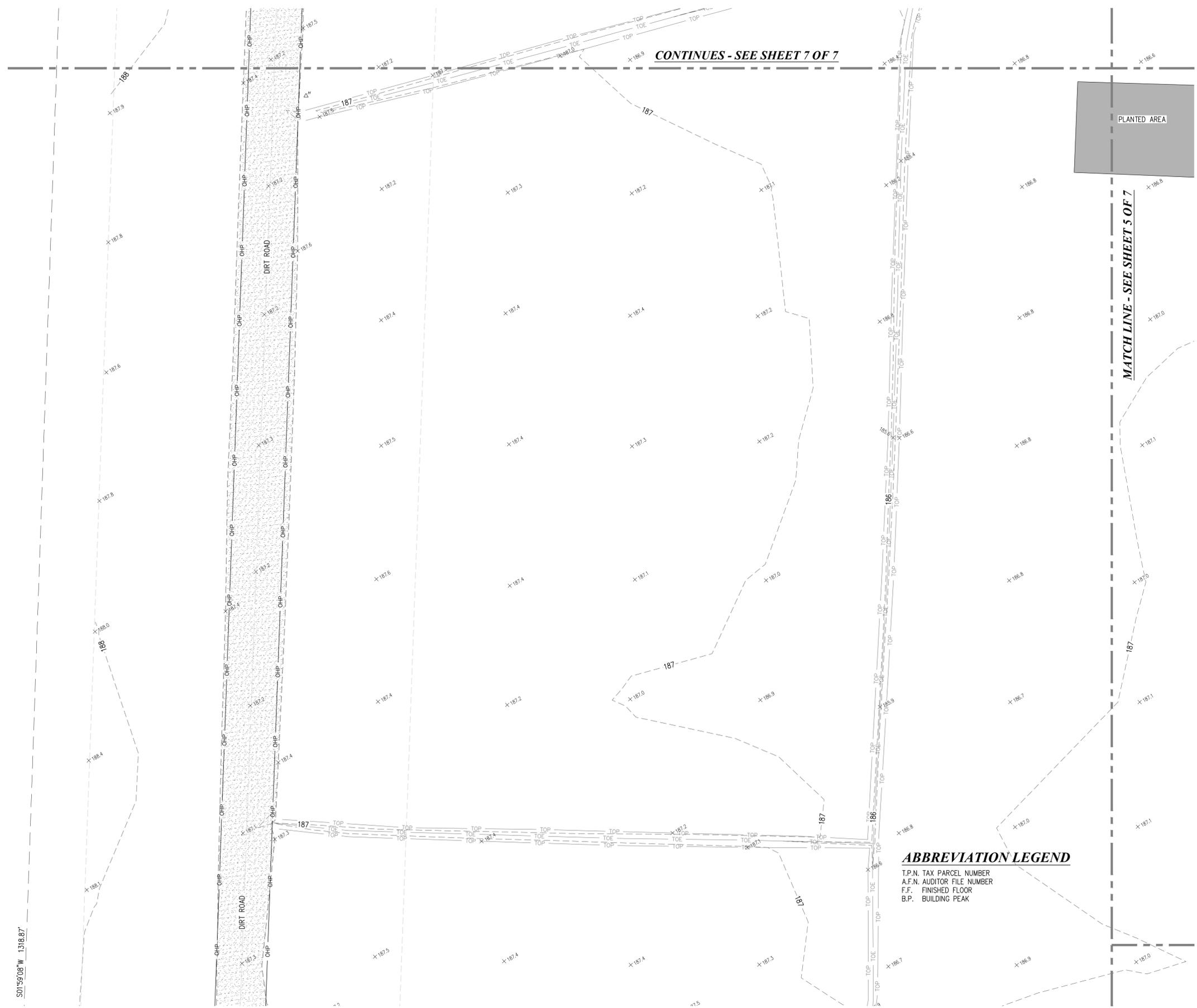
PROJECT: WEBSTER FOREST NURSERY  
 BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY  
 OLYMPIA, WA  
 SHEET NO. 2 OF 7  
 SITE DETAILS

PROJECT NO. 20325  
 RH2 SHEET NO. 4 OF 19

© 2020/03/25/Drawings/2025 - Topo Sheet 2.dwg last edited: 12/11/23 7:05am by: SmoofR



S01°59'08"W 1318.87'



CONTINUES - SEE SHEET 7 OF 7

MATCH LINE - SEE SHEET 5 OF 7



NORTH  
HORIZONTAL SCALE: 1"=20'  
0 20 40

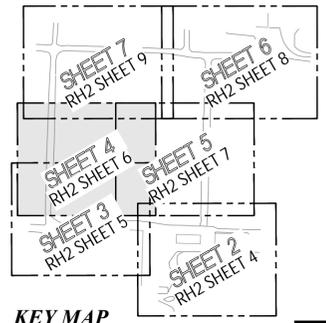
**LEGEND**

- MONUMENT AS NOTED
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- TREE (CONIFER)
- TREE (DECIDUOUS)
- BOLLARD
- SIGN

- T UNDERGROUND TELECOM. LINE
- P UNDERGROUND POWER
- OHP OVERHEAD POWER
- SS SANITARY SEWER
- ST STORM DRAIN LINE
- W WATER LINE
- UTILITY EASEMENT
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**ABBREVIATION LEGEND**

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- A.F.N. AUDITOR FILE NUMBER
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KEY MAP  
NOT TO SCALE

REVISIONS

DESIGNED	DRAWN	CHECKED	DATE
RS	RS	GOL	12/11/2023
		AS NOTED	



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PROJECT: WEBSTER FOREST NURSERY  
 BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY  
 OLYMPIA, WA  
 SHEET NO. 4 OF 7  
 SHEET TITLE: SITE DETAILS

RH2 SHEET NO. 6 OF 19

4 OF 7  
 PROJECT NO. 20325

CONTINUES - SEE SHEET 4 OF 7



MATCHLINE - SEE SHEET 6 OF 7

MATCHLINE - SEE SHEET 2 OF 7



NORTH  
HORIZONTAL SCALE: 1"=20'  
0 20 40

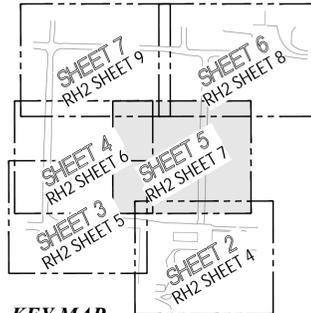
**LEGEND**

- MONUMENT AS NOTED
- SCRIBE/HUB/MAGNAIL CONTROL POINT
- WATER VALVE
- WATER HOSE BIB
- STORM DRAIN MANHOLE
- CATCH BASIN (RECTANGULAR)
- CULVERT
- SANITARY SEWER MANHOLE
- MISC. CLEANOUT
- ROOF DRAIN
- POWER POLE
- POWER GUY ANCHOR
- POWER JUNCTION BOX
- POWER CABINET
- TREE (CONIFER)
- TREE (DECIDUOUS)
- BOLLARD
- SIGN

- T UNDERGROUND TELECOM. LINE
- P UNDERGROUND POWER
- OHP OVERHEAD POWER
- SS SANITARY SEWER
- ST STORM DRAIN LINE
- W WATER LINE
- UTILITY EASEMENT
- PROPERTY LINE
- RIGHT OF WAY LINE
- SECTION LINE
- SECTION SUBDIVISION
- BUILDING EDGE
- BUILDING OVERHANG
- APPROXIMATE TREE DRIP-LINE
- ASPHALT
- CONCRETE
- GRAVEL/DIRT
- LANDSCAPING (PLANTINGS)

**ABBREVIATION LEGEND**

- T.P.N. TAX PARCEL NUMBER
- A.F.N. AUDITOR FILE NUMBER
- F.F. FINISHED FLOOR
- B.P. BUILDING PEAK



KEY MAP  
NOT TO SCALE

DESIGNED BY: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DATE: 12/11/2023 SCALE: AS NOTED

APPROVALS

SEAL

PREPARED BY: \_\_\_\_\_

PROJECT: WEBSTER FOREST NURSERY BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY OLYMPIA, WA SHEET NO. 5 OF 7

RHO ENGINEERING, INC. 1201 PACIFIC AVE., SUITE 1750 TACOMA, WA 98402 (253) 272-3059

PROJECT NO. 20325



**sitts & hill**  
 CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY  
 4815 CENTER STREET | TACOMA, WA 98409  
 PHONE: (253) 474-8449 | FAX: (253) 474-0153  
<http://www.sittshill.com/>

**RHO ENGINEERING, INC.**  
 1201 PACIFIC AVE., SUITE 1750  
 TACOMA, WA 98402  
 (253) 272-3059

**WEBSTER FOREST NURSERY**  
 BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY  
 OLYMPIA, WA

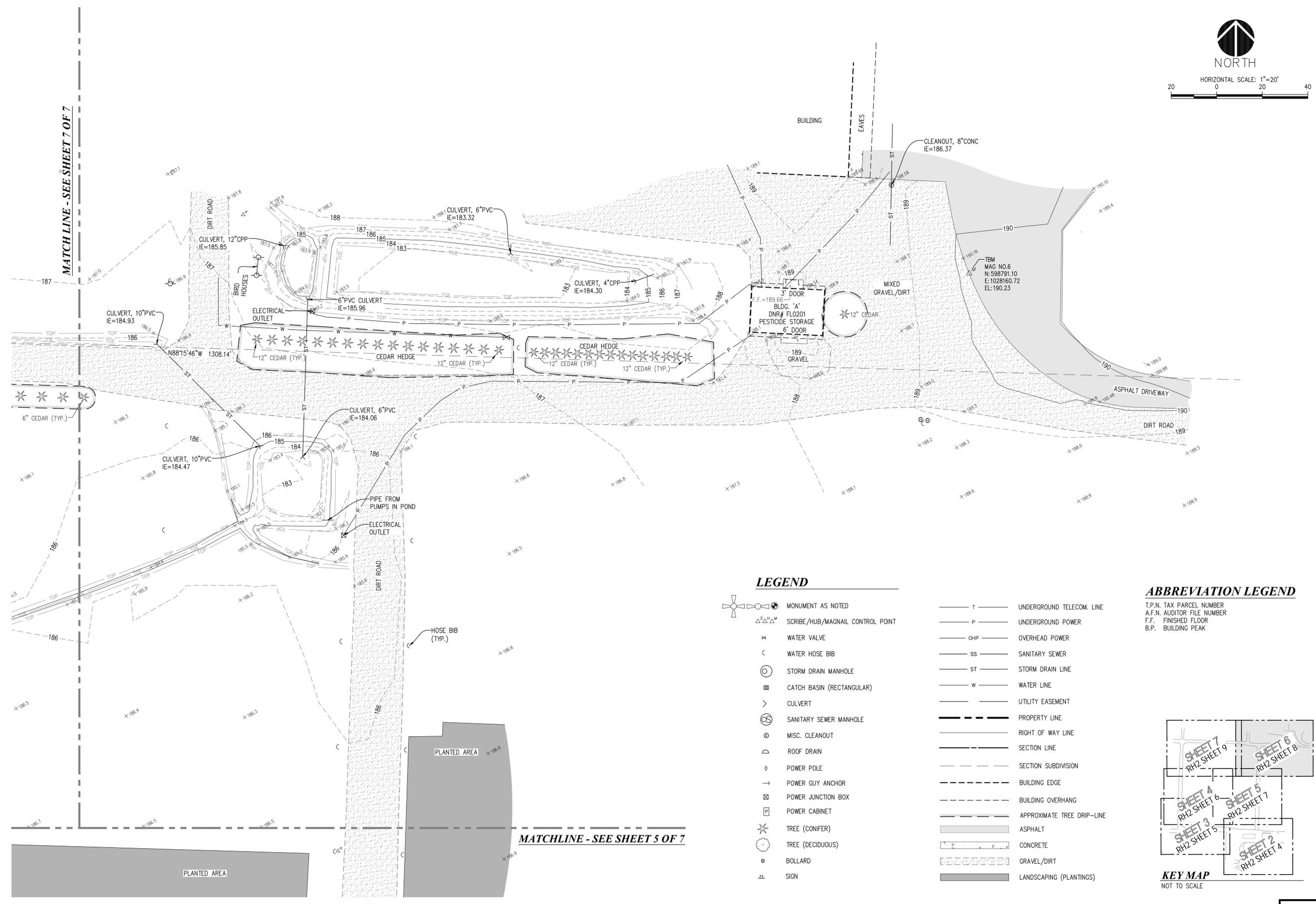
**5 OF 7**  
 SHEET NO.  
 PROJECT NO. 20325

RH2 SHEET NO. 7 OF 19



HORIZONTAL SCALE: 1"=20'  
0 20 40

MATCH LINE - SEE SHEET 7 OF 7



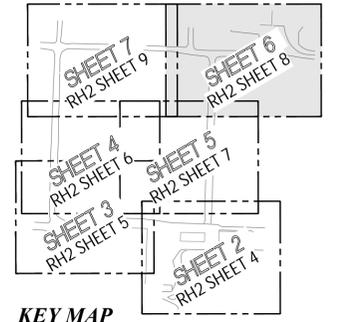
MATCHLINE - SEE SHEET 5 OF 7

### LEGEND

- MONUMENT AS NOTED
- SCRIBE/HUB/MAGNAIL CONTROL POINT
- WATER VALVE
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- ASPHALT
- CONCRETE
- GRAVEL/DIRT
- LANDSCAPING (PLANTINGS)

### ABBREVIATION LEGEND

- T.P.N. TAX PARCEL NUMBER
- A.F.N. AUDITOR FILE NUMBER
- F.F. FINISHED FLOOR
- B.P. BUILDING PEAK



KEY MAP  
NOT TO SCALE

REVISIONS

DESIGNED	---
DRAWN	RS
CHECKED	GOL
DATE	12/11/2023
SCALE	AS NOTED



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 TACOMA, WA 98402  
 (253) 272-3059

PROJECT: **WEBSTER FOREST NURSERY**  
 BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY  
 OLYMPIA, WA  
 SHEET NO. **8 OF 19**

**6 OF 7**  
 SHEET TITLE: **SITE DETAILS**  
 PROJECT NO.: **20325**

RH2 SHEET NO. 8 OF 19

© 2020/2023/Drawings/2025 - Topo Sheet 6.dwg last edited: 12/11/23 7:07pm by: SmoofR

**ABBREVIATION LEGEND**

T.P.N. TAX PARCEL NUMBER  
 A.F.N. AUDITOR FILE NUMBER  
 F.F. FINISHED FLOOR  
 B.P. BUILDING PEAK



NORTH

HORIZONTAL SCALE: 1"=20'  
 20 0 20 40

**LEGEND**

- MONUMENT AS NOTED
- SCRIBE/HUB/MAGNAIL CONTROL POINT
- WATER VALVE
- WATER HOSE BIB
- STORM DRAIN MANHOLE
- CATCH BASIN (RECTANGULAR)
- CULVERT
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- BUILDING OVERHANG
- APPROXIMATE TREE DRIP-LINE
- ASPHALT
- CONCRETE
- GRAVEL/DIRT
- LANDSCAPING (PLANTINGS)

MATCH LINE - SEE SHEET 6 OF 7

MATCHLINE - SEE SHEET 4 OF 7

PLANTED AREA

B.P.A. EASEMENT  
 A.F.N. 409244 NOT LEGIBLE  
 HELD "CHEHALIS-OLYMPIA LINE"  
 MILE 27 230 KV SINGLE CIRCUIT  
 TRANSMISSION LINE DRAWING  
 SH. 27 OF 30, DATED 8/19/44

C-0  
 1407+50  
 27  
 4

CULVERT, 8" PVC  
 IE=186.70

CULVERT, 8" PVC  
 IE=187.10  
 DIRT ROAD

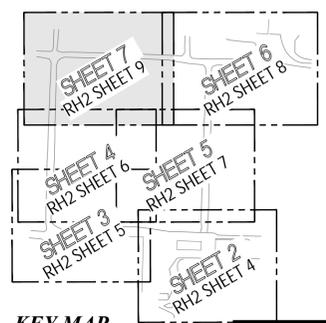
6" CEDAR (TYP.)

CEGAR HEDGE

6" CEDAR (TYP.)

BARK PILE

DIRT PILE



**KEY MAP**  
 NOT TO SCALE

RH2 SHEET NO.  
 9 OF 19

REVISIONS

APPROVALS

SEAL

PREPARED BY

PREPARED FOR

PROJECT

SHEET NO.

PROJECT NO.


DESIGNED	RS	GOL
DRAWN		
CHECKED		
DATE	12/11/2023	
SCALE	AS NOTED	

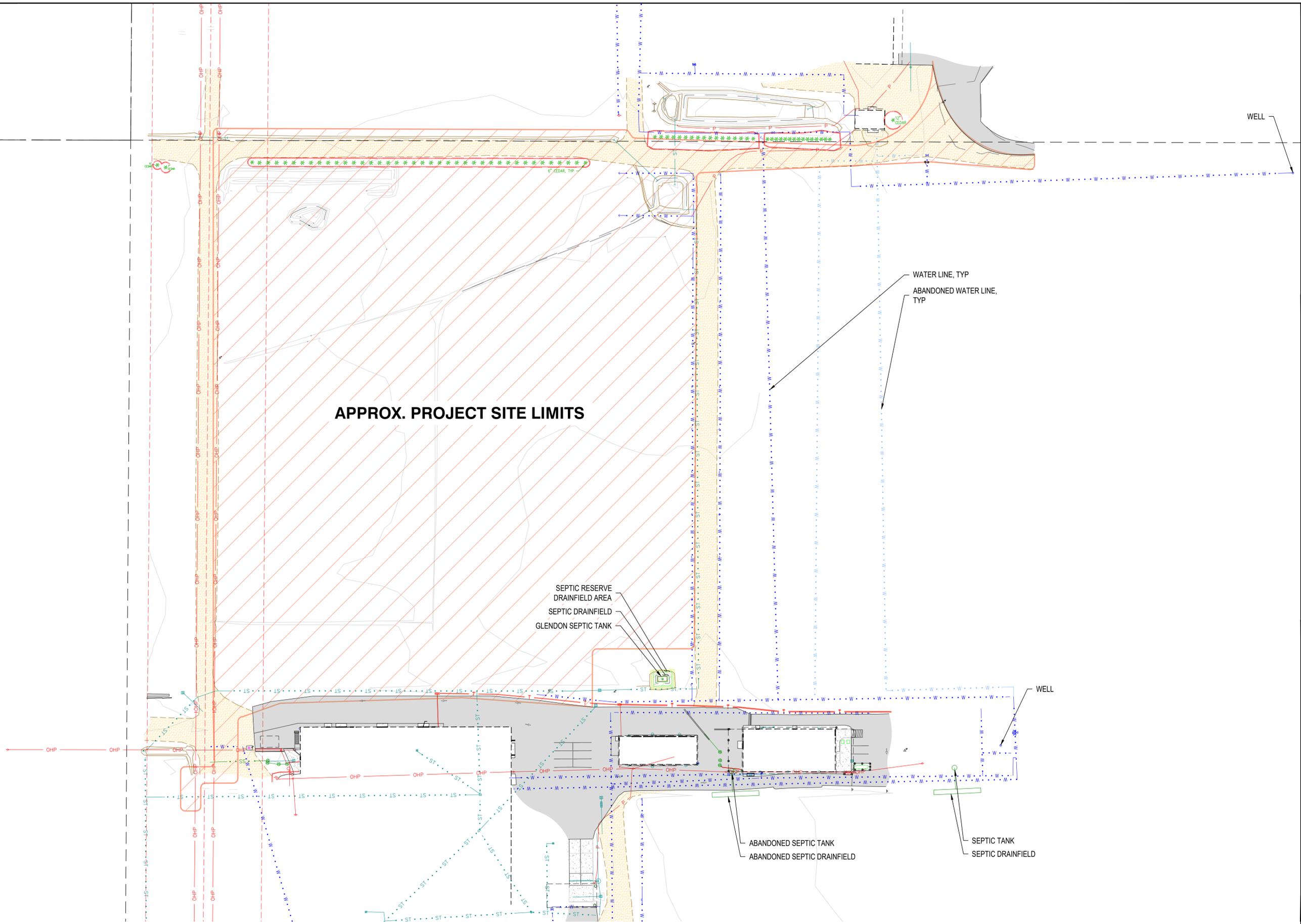


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**WEBSTER FOREST NURSERY**  
 BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY  
 OLYMPIA, WA

**7 OF 7**  
 SHEET NO.  
**20325**



APPROX. PROJECT SITE LIMITS

**EXISTING SITE SEPTIC AND WATER SYSTEMS**

1" = 50'



**DEPT. OF NATURAL RESOURCES**  
**WEBSTER STORMWATER DESIGN**

**EXISTING SITE SEPTIC AND WATER SYSTEMS**



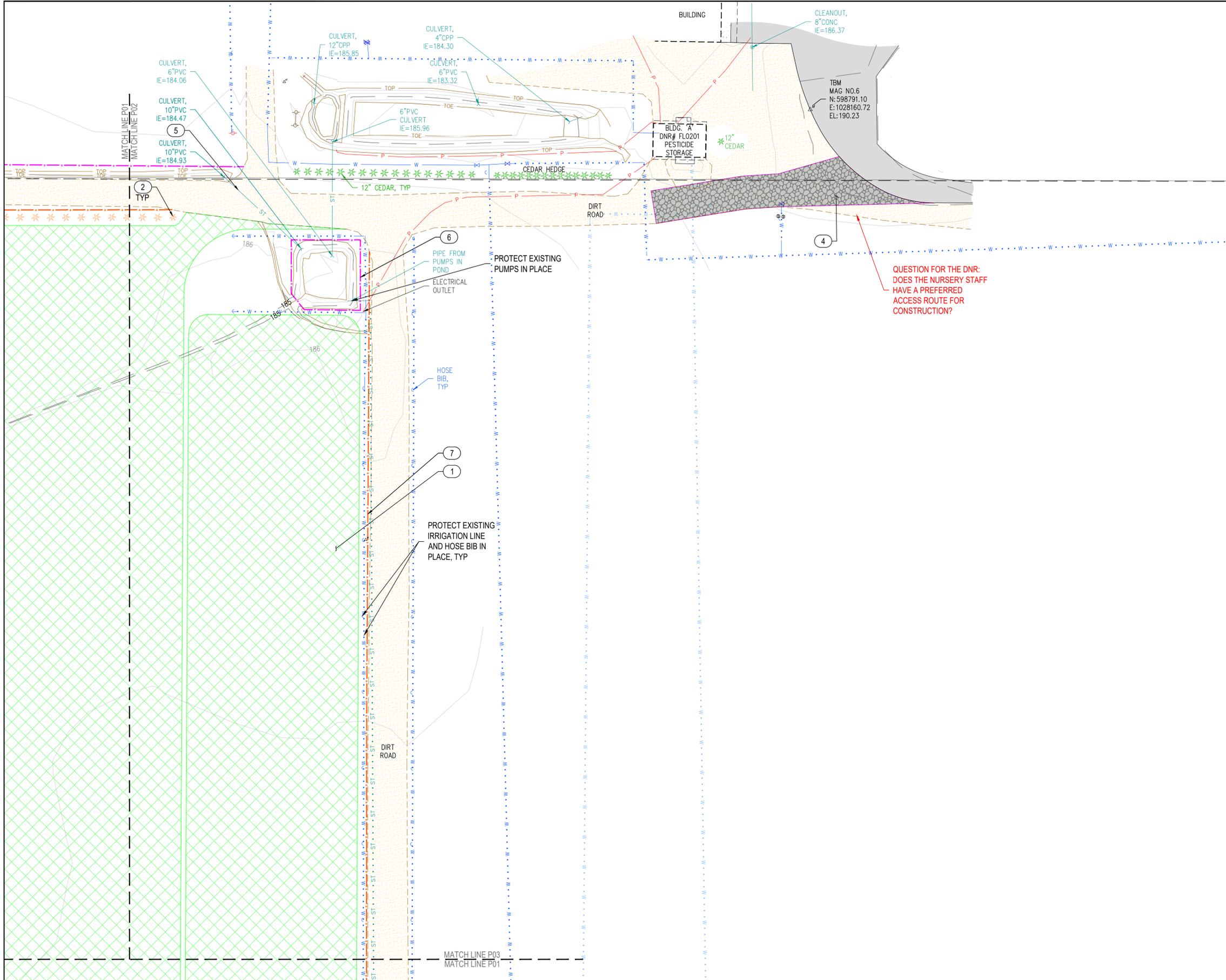
NO.	DATE	DESCRIPTION	BY	REVIEW
<b>REVISIONS</b>				

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2'

DWG NO.: **G02** SHEET NO.: **10** OF **19**

ENGINEER: KMD DATE: Apr 11, 2024 CLIENT: DNR JOB NO.: 200-153  
 REVIEWED: BEB DATE: Apr 11, 2024 FILENAME: WEBP-COV.DWG

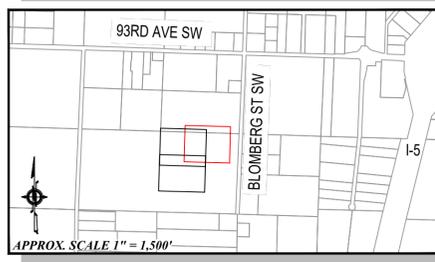


QUESTION FOR THE DNR:  
DOES THE NURSERY STAFF  
HAVE A PREFERRED  
ACCESS ROUTE FOR  
CONSTRUCTION?

**DEMOLITION NOTES**

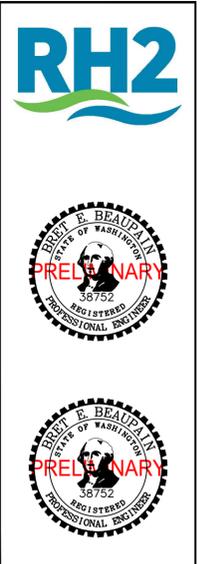
- 1 CLEARING AND GRUBBING TO THE LIMITS SHOWN.
- 2 REMOVE TREE
- 3 PROVIDE INLET PROTECTION PER WSDOT STANDARD PLAN I-40.20-00.
- 4 PROVIDE STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10.02.
- 5 REMOVE EXISTING CULVERT
- 6 PROVIDE SILT FENCE PER WSDOT STANDARD PLAN I-30.10-02.
- 7 PROVIDE HIGH VISIBILITY FENCE PER WSDOT STANDARD PLAN I-10.10-01.

**VICINITY MAP**



**DEMOLITION AND TESC PLAN I**

1" = 30'



**DEPT. OF NATURAL RESOURCES**  
**WEBSTER STORMWATER DESIGN**

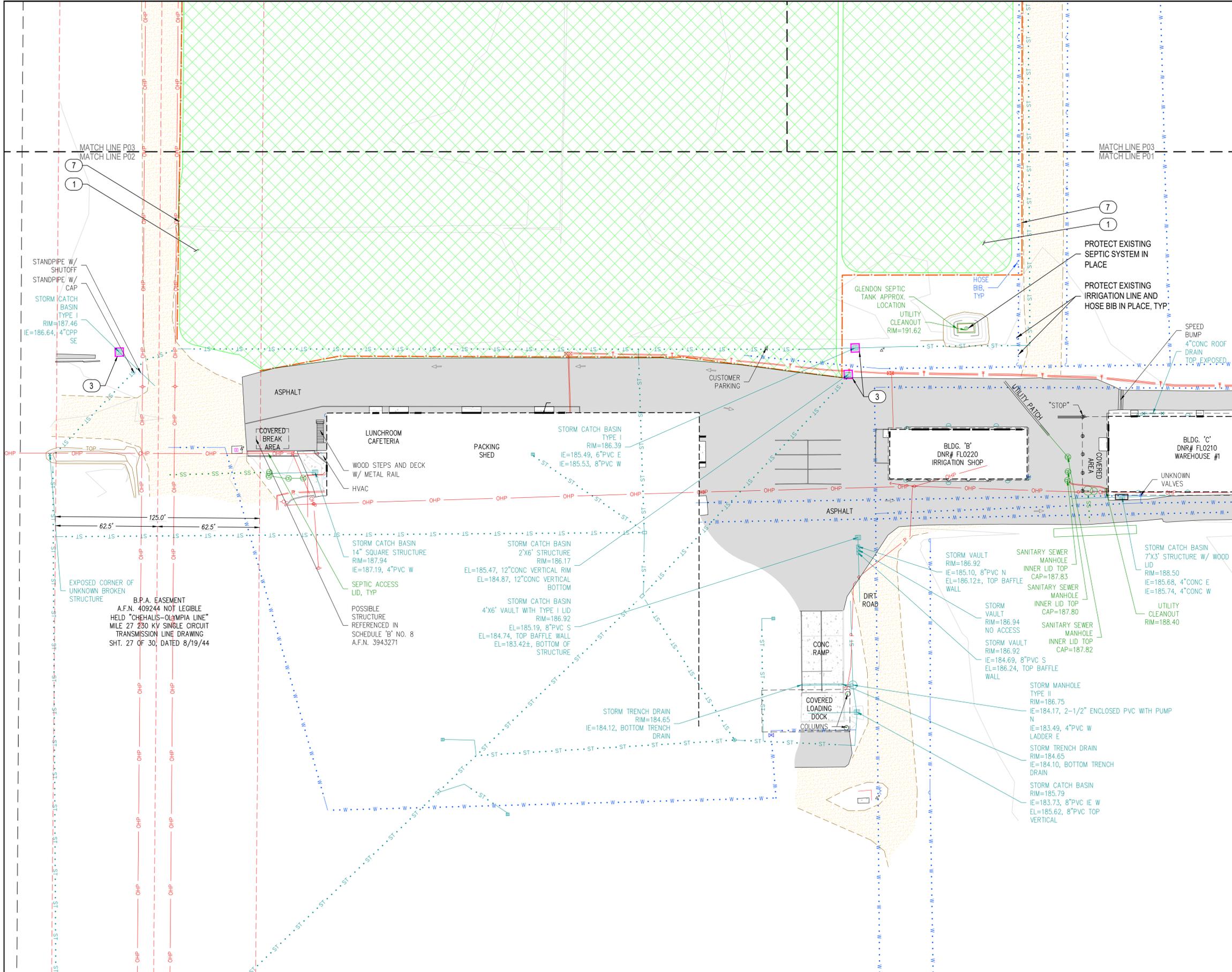


**DEMOLITION & TESC PLAN I**

NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: KMD	DATE: Apr 11, 2024	CLIENT: DNR	JOB NO.: 200-153
REVIEWED: BEB	DATE: Apr 11, 2024	FILENAME: WEBSP-PREP.DWG	
<b>REVISIONS</b>			
<b>PRELIMINARY REVIEW DRAWINGS</b>			
SCALE: SHOWN			
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"			
DWG NO.: P01	SHEET NO.: 11		





MATCH LINE P03  
MATCH LINE P02

MATCH LINE P03  
MATCH LINE P01

PROTECT EXISTING SEPTIC SYSTEM IN PLACE

PROTECT EXISTING IRRIGATION LINE AND HOSE BIB IN PLACE, TYP.

SPEED BUMP  
4" CONC ROOF DRAIN  
TOP EXPOSED

UTILITY PATCH

"STOP"

UNKNOWN VALVES

STANDPIPE W/ SHUTOFF

STANDPIPE W/ CAP

STORM CATCH BASIN TYPE I  
RIM=187.46  
IE=186.64, 4" CPP SE

ASPHALT

CUSTOMER PARKING

GLENDON SEPTIC TANK APPROX. LOCATION

UTILITY CLEANOUT RIM=191.62

HOSE BIB, TYP.

BLDG. 'B' DNR# FLO220 IRRIGATION SHOP

BLDG. 'C' DNR# FLO210 WAREHOUSE #1

WOOD STEPS AND DECK W/ METAL RAIL

HVAC

STORM CATCH BASIN TYPE I  
RIM=186.39  
IE=185.49, 6" PVC E  
IE=185.53, 8" PVC W

PACKING SHED

STORM CATCH BASIN 14" SQUARE STRUCTURE  
RIM=187.94  
IE=187.19, 4" PVC W

SEPTIC ACCESS LID, TYP

POSSIBLE STRUCTURE REFERENCED IN SCHEDULE 'B' NO. 8 A.F.N. 3943271

STORM CATCH BASIN 2'X6' STRUCTURE  
RIM=186.17  
EL=185.47, 12" CONC VERTICAL RIM  
EL=184.87, 12" CONC VERTICAL BOTTOM

STORM CATCH BASIN 4'X6' VAULT WITH TYPE I LID  
RIM=186.92  
EL=185.19, 8" PVC S  
EL=184.74, TOP BAFFLE WALL  
EL=183.42±, BOTTOM OF STRUCTURE

STORM VAULT RIM=186.92  
IE=185.10, 8" PVC N  
EL=186.12±, TOP BAFFLE WALL

STORM VAULT RIM=186.94  
NO ACCESS

STORM VAULT RIM=186.92  
IE=184.69, 8" PVC S  
EL=186.24, TOP BAFFLE WALL

STORM MANHOLE TYPE II  
RIM=186.75  
IE=184.17, 2-1/2" ENCLOSED PVC WITH PUMP N  
IE=183.49, 4" PVC W LADDER E

STORM TRENCH DRAIN RIM=184.65  
IE=184.10, BOTTOM TRENCH DRAIN

STORM CATCH BASIN RIM=185.79  
IE=183.73, 8" PVC IE W  
EL=185.62, 8" PVC TOP VERTICAL

SANITARY SEWER MANHOLE  
INNER LID TOP CAP=187.83  
INNER LID TOP CAP=187.80

SANITARY SEWER MANHOLE  
INNER LID TOP CAP=187.82

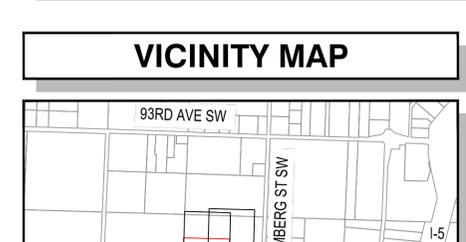
STORM CATCH BASIN 7'X3' STRUCTURE W/ WOOD LID  
RIM=188.50  
IE=185.68, 4" CONC E  
IE=185.74, 4" CONC W

UTILITY CLEANOUT RIM=188.40

EXPOSED CORNER OF UNKNOWN BROKEN STRUCTURE

B.P.A. EASEMENT A.F.N. 409244 NOT LEGIBLE HELD "CHEHALIS-OLYMPIA LINE" MILE 27 230 KV SINGLE CIRCUIT TRANSMISSION LINE DRAWING SHT. 27 OF 30, DATED 8/19/44

- ### DEMOLITION NOTES
- CLEARING AND GRUBBING TO THE LIMITS SHOWN.
  - REMOVE TREE
  - PROVIDE INLET PROTECTION PER WSDOT STANDARD PLAN I-40.20.00.
  - PROVIDE STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10.02.
  - REMOVE EXISTING CULVERT
  - PROVIDE SILT FENCE PER WSDOT STANDARD PLAN I-30.10.02.
  - PROVIDE HIGH VISIBILITY FENCE PER WSDOT STANDARD PLAN I-10.10-01.



## DEMOLITION AND TESC PLAN III

1" = 30'





**DEPT. OF NATURAL RESOURCES**

**WEBSTER STORMWATER DESIGN**

**DEMOLITION & TESC PLAN III**



REVISIONS		NO.	DATE	DESCRIPTION	BY	REVIEW
				<b>PRELIMINARY REVIEW DRAWINGS</b>		

ENGINEER: KMD  
REVIEWED: BEB

CLIENT: DNR  
FILENAME: WEBP-PREP.DWG

DATE: Apr 11, 2024  
PLOT DATE: Apr 11, 2024

JOB NO.: 200-153

SCALE: SHOWN

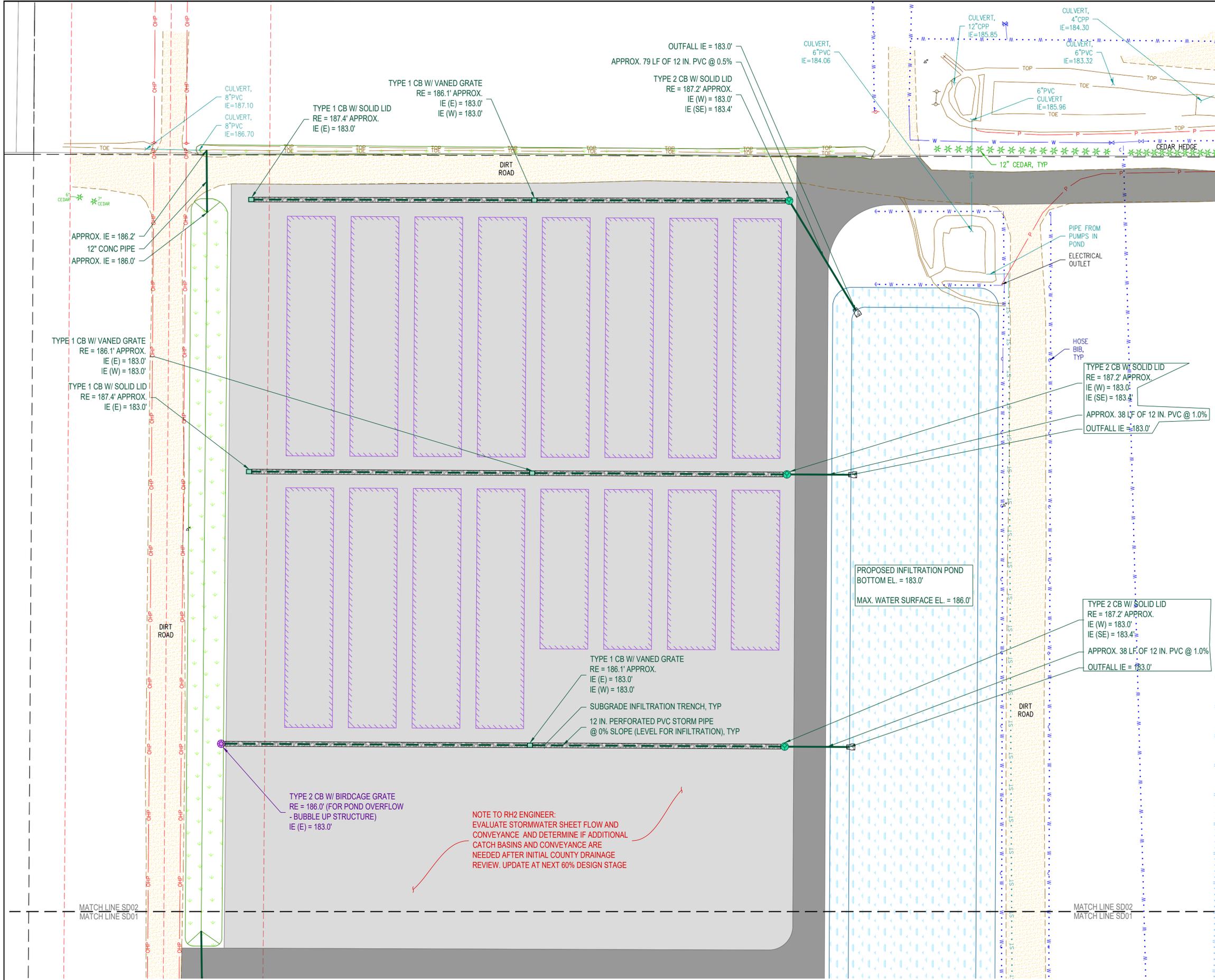
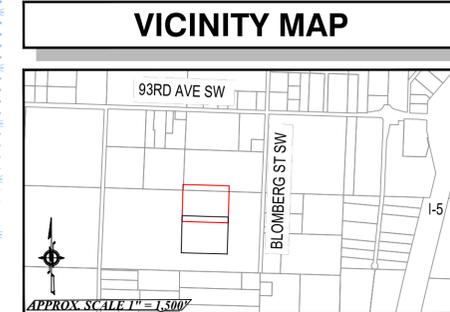
DWG NO.: P03

SHEET NO.: 13

19

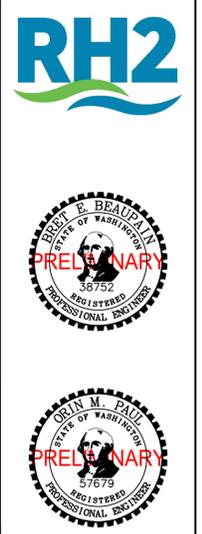
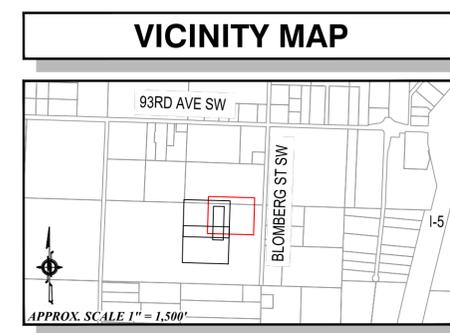
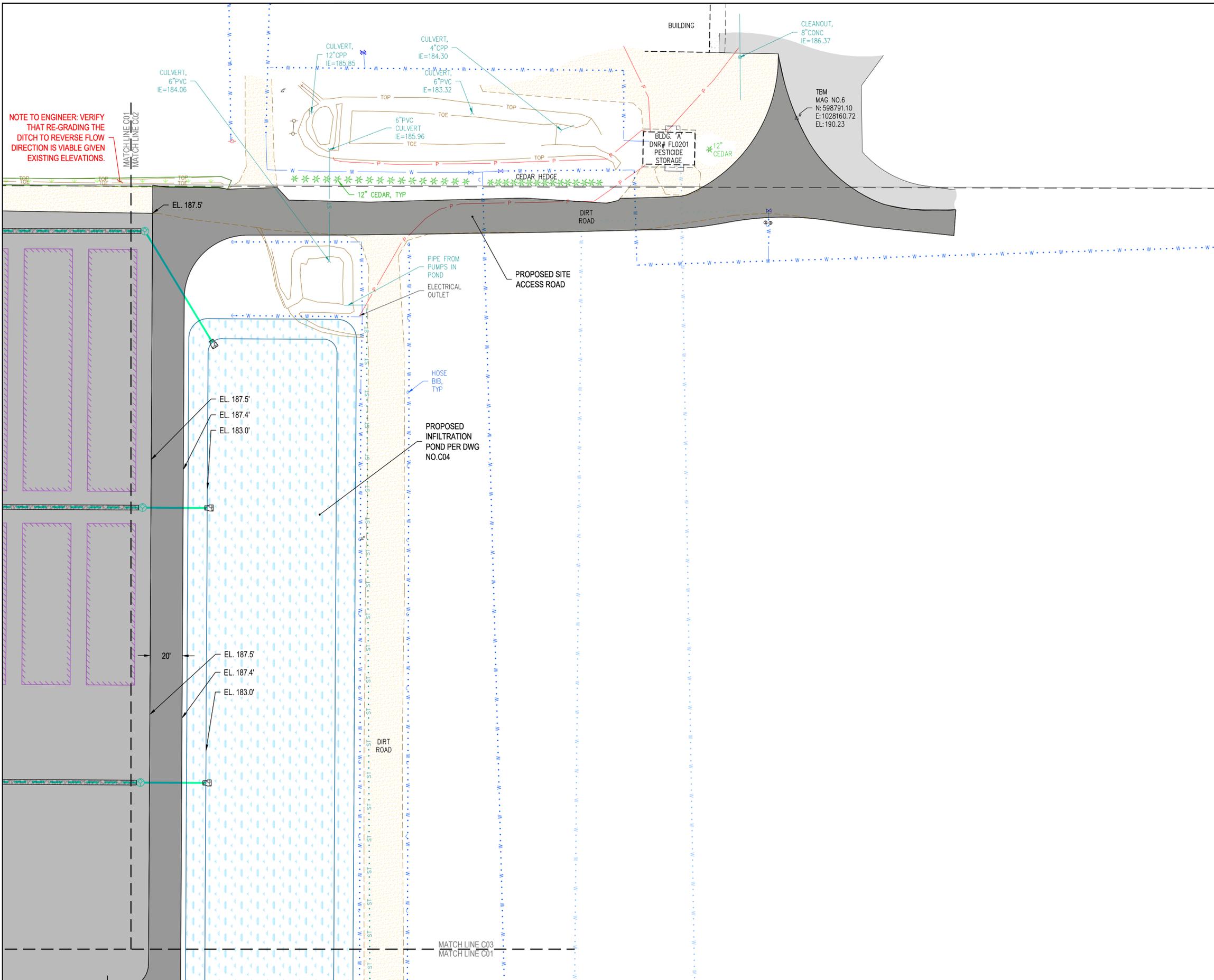
NO.	DATE	DESCRIPTION	BY	REVIEW
<b>REVISIONS</b>				
		<b>PRELIMINARY REVIEW DRAWINGS</b>		

ENGINEER: KMD	DATE: Apr 11, 2024	CLIENT: DNR	JOB NO.: 200-153
REVIEWER: BEB	DATE: Apr 11, 2024	FILENAME: WEBP-STORMP.DWG	
SCALE: SHOWN		DRAWING IS FULL SCALE WHEN BAR MEASURES 2"	
DWG NO.: SD01	SHEET NO.: 14	19	



**STORMWATER PLAN I**  
 1" = 30'





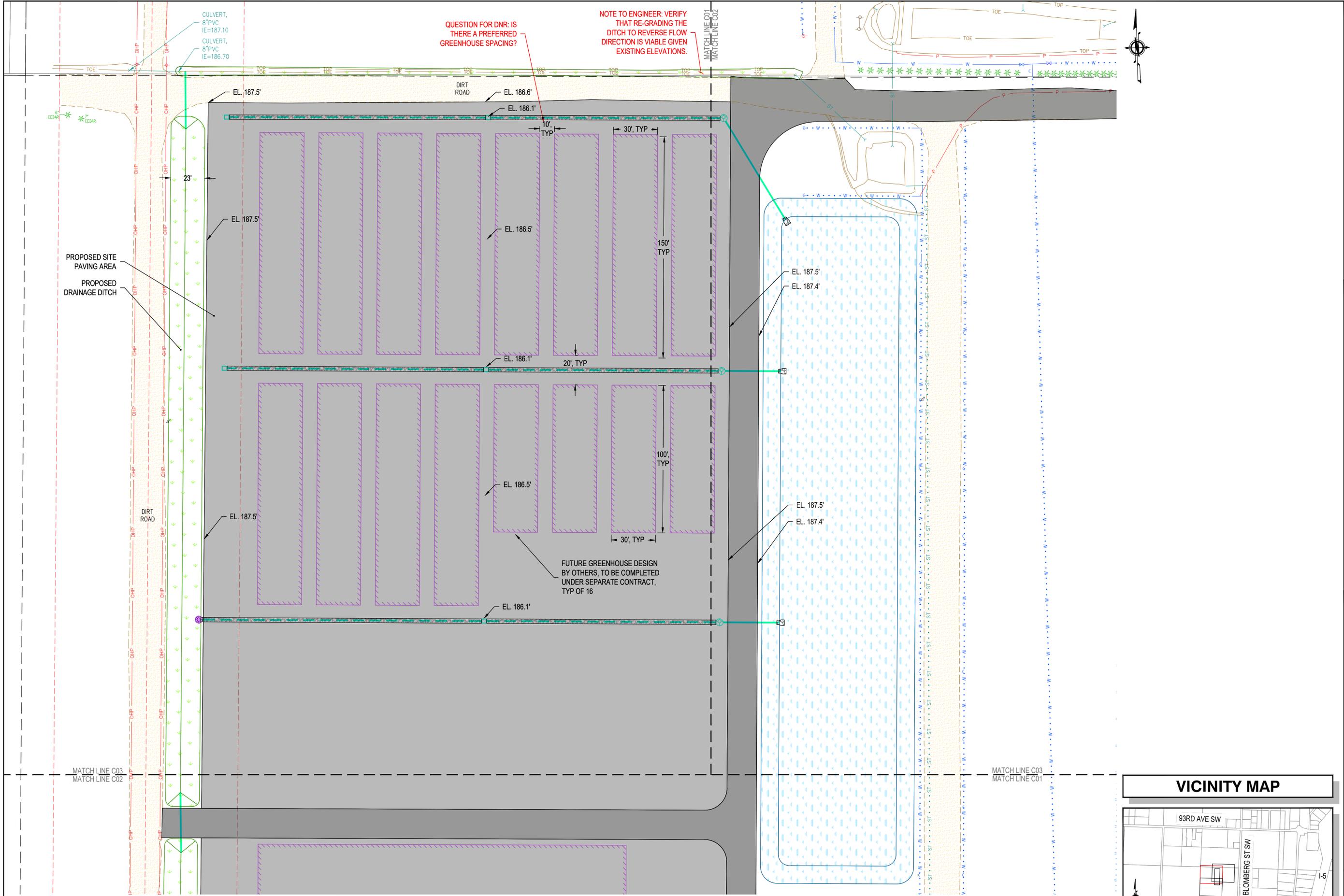
**DEPT. OF NATURAL RESOURCES**  
**WEBSTER STORMWATER DESIGN**

**PROPOSED SITE PLAN I**



NO.	DATE	DESCRIPTION	BY	REVIEW
<b>REVISIONS</b>				
		PRELIMINARY REVIEW		
		DRAWINGS		

ENGINEER: KMD	DATE: Apr 11, 2024	CLIENT: DNR	JOB NO.: 200-153
REVIEWED: BEB	DATE: Apr 11, 2024	FILENAME: WEBP-CIV.DWG	
DWG NO.: C01	SHEET NO.: 16	SCALE: SHOWN	



QUESTION FOR DNR: IS THERE A PREFERRED GREENHOUSE SPACING?

NOTE TO ENGINEER: VERIFY THAT RE-GRADING THE DITCH TO REVERSE FLOW DIRECTION IS VIABLE GIVEN EXISTING ELEVATIONS.

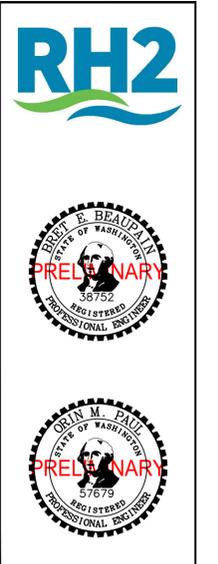
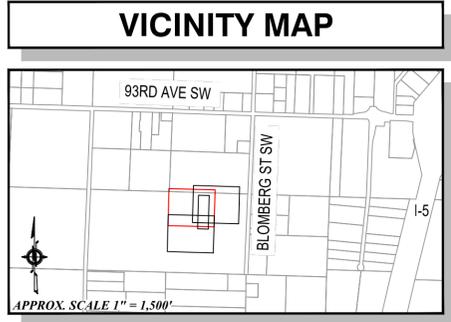
PROPOSED SITE PAVING AREA

PROPOSED DRAINAGE DITCH

FUTURE GREENHOUSE DESIGN BY OTHERS, TO BE COMPLETED UNDER SEPARATE CONTRACT, TYP OF 16

**PROPOSED SITE PLAN II**

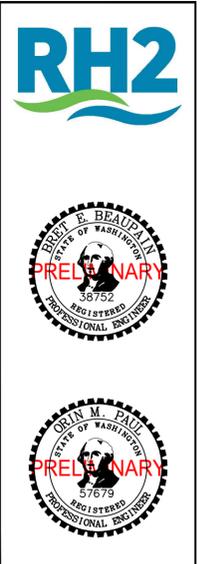
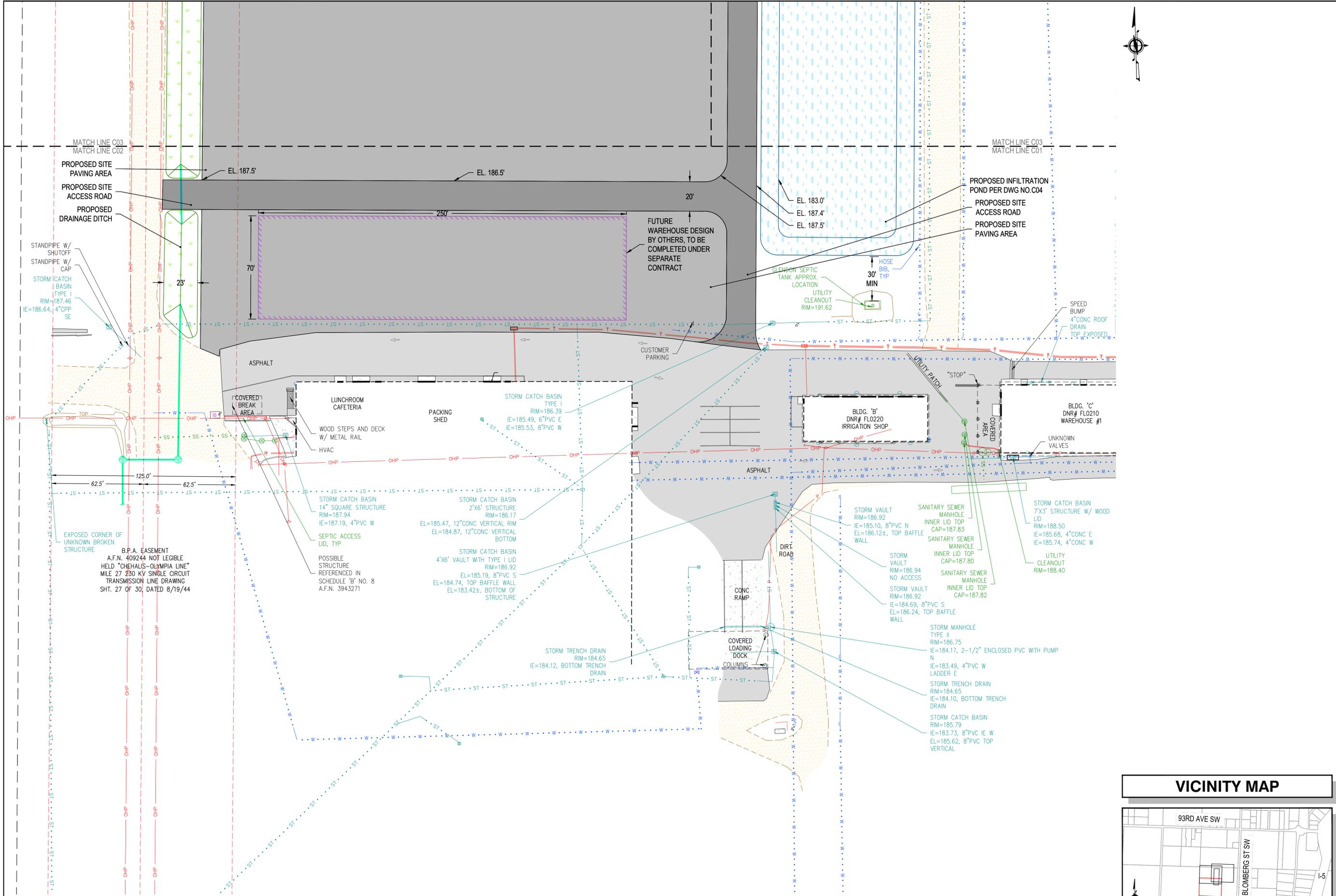
1" = 30'



**DEPT. OF NATURAL RESOURCES**  
WEBSTER STORMWATER DESIGN

**PROPOSED SITE PLAN II**

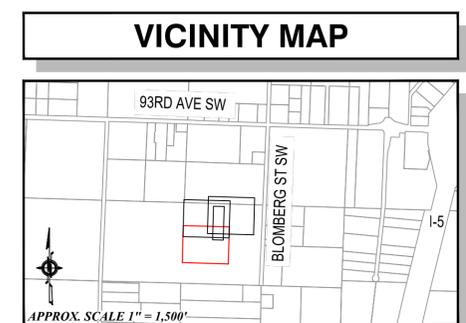
ENGINEER: KMD	DATE: Apr 11, 2024	CLIENT: DNR	JOB NO.: 200-153
REVIEWED: BEB	DATE: Apr 11, 2024	FILENAME: WEBP-CIV.DWG	
<b>REVISIONS</b>			
NO.	DATE	DESCRIPTION	BY
		PRELIMINARY REVIEW	
		DRAWINGS	
SCALE: SHOWN			
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"			
DWG NO.: C02	SHEET NO.: 17	19	



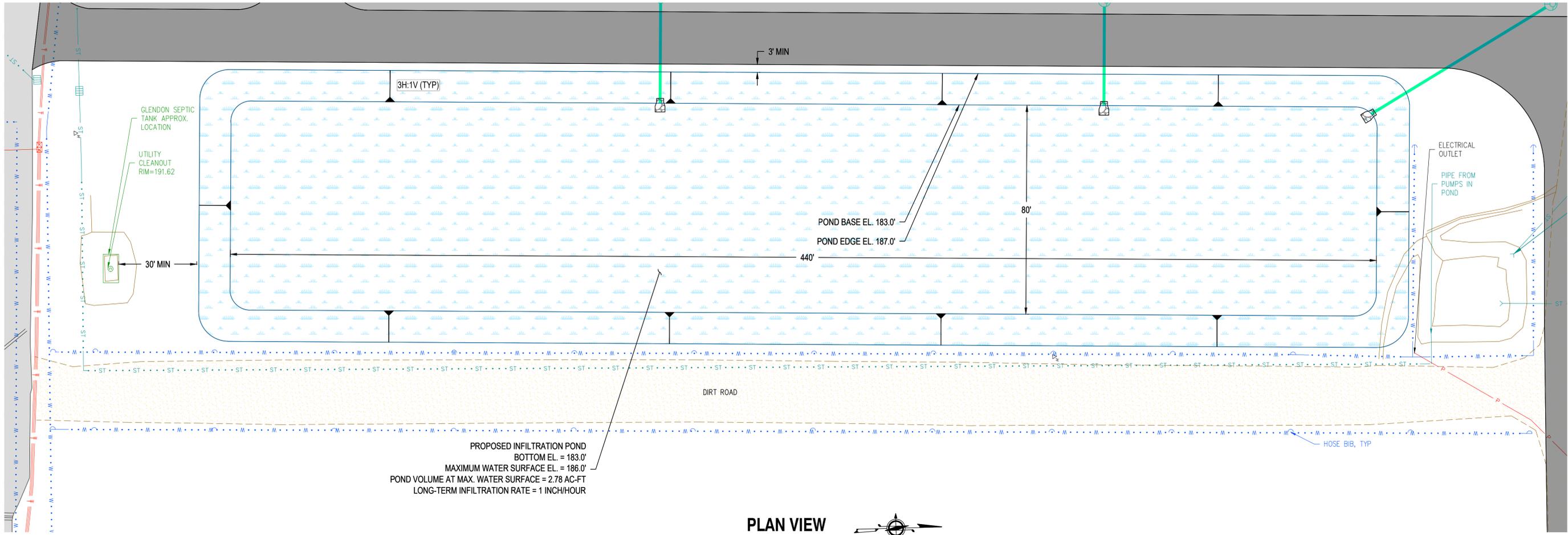
**DEPT. OF NATURAL RESOURCES**  
**WEBSTER STORMWATER DESIGN**

**PROPOSED SITE PLAN III**

STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

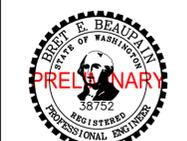


ENGINEER: KMD	CLIENT: DNR	JOB NO.: 200-153	DATE: Apr 11, 2024	REVIEW
REVIEWED: BEB	FILENAME: WEBP-CIV.DWG		DATE: Apr 11, 2024	BY
<b>REVISIONS</b>				
NO.	DATE	DESCRIPTION	BY	REVIEW
		<b>PRELIMINARY REVIEW</b>		
		<b>DRAWINGS</b>		
SCALE: SHOWN				
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"				
DWG NO.: C03	SHEET NO.: 18			



PROPOSED INFILTRATION POND  
 BOTTOM EL. = 183.0'  
 MAXIMUM WATER SURFACE EL. = 186.0'  
 POND VOLUME AT MAX. WATER SURFACE = 2.78 AC-FT  
 LONG-TERM INFILTRATION RATE = 1 INCH/HOUR

**PLAN VIEW**  
 1" = 20'



**DEPT. OF NATURAL RESOURCES**  
**WEBSTER STORMWATER DESIGN**

**PROPOSED SITE PLAN IV**



GENERAL NOTES	
1)	PROTECT POND UNDERLYING SOILS DURING CONSTRUCTION FROM SILTATION AND COMPACTION.
2)	SEED AND FERTILIZED POND BASE, SIDE SLOPES, AND ADJACENT DISTURBED SOILS PER SPECIFICATIONS.

**VICINITY MAP**

93RD AVE SW  
 BLOMBERG ST SW  
 I-5  
 APPROX. SCALE 1" = 1,500'

NO.	DATE	DESCRIPTION	BY	REVIEW

SCALE: SHOWN  
 0' 1' 2'  
 DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C04 SHEET NO.: 19

ENGINEER: KMD  
 REVIEWED: BEB  
 SW/DATE: Apr 11, 2024  
 PLOT/DATE: Apr 11, 2024  
 CLIENT: DNR  
 JOB NO.: 200-153  
 FILENAME: WEBP-CIV.DWG

**REVISIONS**

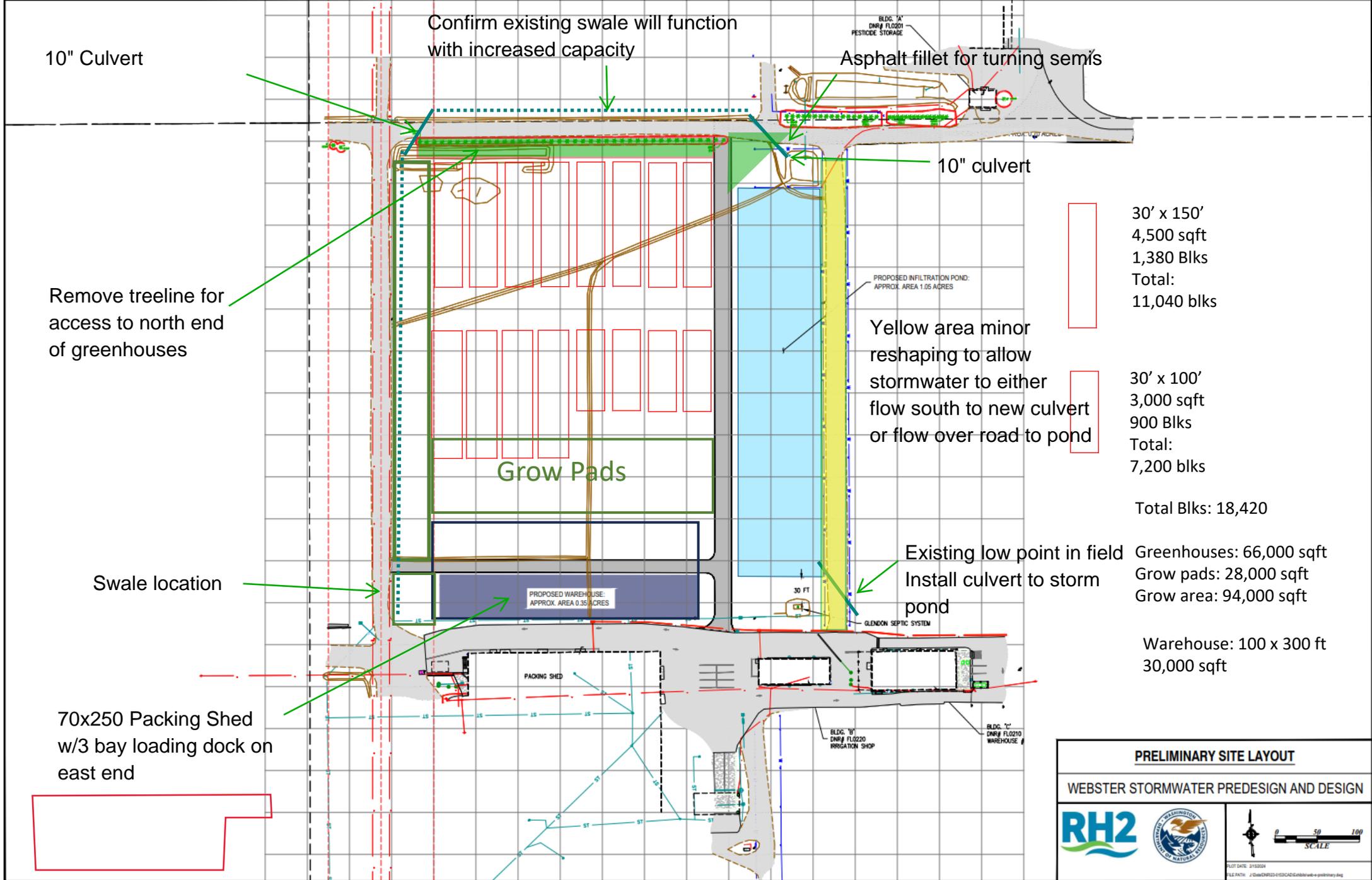
PRELIMINARY REVIEW  
 DRAWINGS

**Washington State Department of Natural Resources**  
**Webster Forest Nursery Stormwater Project**  
**60-Percent Construction Cost Estimate - ENHANCED STORMWATER TREATMENT**

No.	Item	Quantity	Unit	Cost/Unit	Total
<b>General</b>					
1	Mobilization/Demobilization (maximum 10% of bid amount)	1	ls	\$ 115,000	\$ 115,000
2	Construction Survey & Staking	1	ls	\$ 15,000	\$ 15,000
3	Onsite Traffic Control & Pedestrian Safety	1	ls	\$ 5,000	\$ 5,000
4	Silt Fence or High Visibility Fence	3,300	lf	\$ 10	\$ 33,000
5	Inlet Protection	8	ea	\$ 250	\$ 2,000
6	Construction Entrance	1	LS	\$ 4,000	\$ 4,000
7	Temporary Erosion and Sediment Control - Other	1	ls	\$ 20,000	\$ 20,000
8	As-Built Drawings (minimum bid of \$5,000)	1	ls	\$ 5,000	\$ 5,000
<b>Site Work and Preparation</b>					
9	Remove Existing Trees	40	ea	\$ 300	\$ 12,000
10	Clearing and Grubbing	6.8	acre	\$ 1,000	\$ 6,800
11	Excavation incl. Haul to Offsite Disposal (Topsoil Removal)	8,700	cy	\$ 25	\$ 217,500
12	Excavation incl. Haul to Offsite Disposal (Bioretention)	2,200	cy	\$ 25	\$ 55,000
13	Excavation incl. Haul to Offsite Disposal (Infiltration Pond)	3,900	cy	\$ 25	\$ 97,500
14	Excavation incl. Haul Cut-to-Fill (Onsite Grading for Balancing)	1,000	cy	\$ 8	\$ 8,000
15	Re-Use Topsoil for Soil Amendment in Infiltration Pond	940	cy	\$ 10	\$ 9,400
16	Bioretention Soil Mix	670	cy	\$ 170	\$ 113,900
17	Planting Budget for Bioretention	13,470	sf	\$ 5	\$ 67,350
18	Seeding and Fertilizing for Infiltration Pond	4,200	sy	\$ 5	\$ 21,000
19	Sawcutting Ex. Pavement for Match-In	575	lf	\$ 5	\$ 2,875
20	Pothole Existing Utility (if needed)	10	ea	\$ 800	\$ 8,000
21	Removal of Structures and Obstructions - Other	1	ls	\$ 10,000	\$ 10,000
22	Misc. Grading and Site Work Budget	1	ls	\$ 50,000	\$ 50,000
23	Misc. Site Restoration - Seeding, Fertilizing, Mulching	1	ls	\$ 25,000	\$ 25,000
<b>Sewer &amp; Storm Systems</b>					
24	Catch Basin Type 1	12	ea	\$ 2,500	\$ 30,000
25	Catch Basin Type 2, 48-inch	8	ea	\$ 5,000	\$ 40,000
26	Catch Basin Type 2 with Bird Cage Grate, 54-inch	1	ea	\$ 8,000	\$ 8,000
27	Infiltration Trench with Perf. PVC Pipe, 12-inch Diam.	2,380	lf	\$ 85	\$ 202,300
28	Solid Wall PVC Storm Sewer Pipe 12 In. Diam.	500	lf	\$ 60	\$ 30,000
29	Solid Wall PVC Storm Sewer Pipe 24 In. Diam.	820	lf	\$ 120	\$ 98,400
30	Rock Energy Dispersions Pads at Pipe Inlets/Outlets	7	ea	\$ 3,000	\$ 21,000
31	Relocate Stormwater Force Main Piping (if needed)	1	ls	\$ 25,000	\$ 25,000
32	Roof Drainage Pipe to Future Building	1	ls	\$ 15,000	\$ 15,000
33	Misc. Piping Budget	1	ls	\$ 50,000	\$ 50,000
34	Shoring and Trench Safety Systems	1	ls	\$ 5,000	\$ 5,000
<b>Pavement</b>					
35	Crushed Surfacing	10,000	tons	\$ 30	\$ 300,000
36	HMA CL. 1/2 IN. PG 64-22 (to be constructed in future phase)	0	tons	\$ 125	-
37	Misc. Surfacing and Striping / Signage	1	ls	\$ 25,000	\$ 25,000
Construction Subtotal					\$ 1,753,025
Washington State Sales Tax					8.3% \$ 145,501
Contingency					25.0% \$ 474,632
<b>TOTAL PROJECT CONSTRUCTION COST ESTIMATE (rounded up)</b>					<b>\$ 2,400,000</b>



Date Signed:  
 XX/YY/ZZ



10" Culvert

Confirm existing swale will function with increased capacity

Asphalt fillet for turning semis

10" culvert

Remove treeline for access to north end of greenhouses

Grow Pads

Yellow area minor reshaping to allow stormwater to either flow south to new culvert or flow over road to pond

Swale location

PROPOSED WAREHOUSE:  
APPROX. AREA 0.35 ACRES

Existing low point in field  
Install culvert to storm pond

30' x 150'  
4,500 sqft  
1,380 Blks  
Total:  
11,040 blks

30' x 100'  
3,000 sqft  
900 Blks  
Total:  
7,200 blks

Total Blks: 18,420

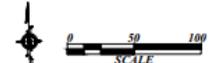
Greenhouses: 66,000 sqft  
Grow pads: 28,000 sqft  
Grow area: 94,000 sqft

Warehouse: 100 x 300 ft  
30,000 sqft

70x250 Packing Shed w/3 bay loading dock on east end

**PRELIMINARY SITE LAYOUT**

WEBSTER STORMWATER PREDESIGN AND DESIGN





# Webster Forest Nursery Stormwater Design Drainage Scoping Report

*Prepared for Washington State Department of  
Natural Resources*

April 2024

DNR 0230153.00.0005



Prepared by:

**RH2 ENGINEERING**  
**Bellingham**

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Bellingham, WA 98226  
1.800.720.8052 / rh2.com

# Department of Natural Resources

## Webster Forest Nursery Stormwater Design

April 2024

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Prepared by RH2 Engineering, Inc.

Prepared for Washington State Department of Natural Resources

Note: This Drainage Scoping Report was completed under the direct supervision of the following Licensed Professional Engineers registered in the State of Washington.

Sincerely,

**RH2 ENGINEERING, INC.**



Signed: 04/11/2024

**Department of Natural Resources**  
**Webster Forest Nursery Stormwater Design**  
**Table of Contents**

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Thurston County Drainage Scoping Report .....	1
DSSR No. 1: Letter of Transmittal .....	2
DSSR No. 2: Project Description and Stormwater Management Strategy .....	2
Project Overview.....	2
Existing Conditions Summary .....	2
Stormwater Management and Code Compliance Summary.....	3
Core Requirement No. 1 – Stormwater Site Planning .....	3
Core Requirement No. 2 – Construction Stormwater Pollution Prevention .....	3
Core Requirement No. 3 – Source Control of Pollution .....	3
Core Requirement No. 4 – Preservation of Natural Drainage Systems and Outfalls .....	5
Core Requirement No. 5 – On-Site Stormwater Management .....	5
Core Requirement No. 6 – Runoff Treatment .....	5
Core Requirement No. 7 – Flow Control.....	5
Core Requirement No. 8 – Wetlands Protection .....	5
Core Requirement No. 9 – Operation and Maintenance .....	6
Core Requirement No. 10 – Financial Liability.....	6
Core Requirement No. 11 – Off-Site Analysis and Mitigation .....	6
DSSR No. 3: DDECM Checklists .....	6
DSSR No. 4: Maps of Existing Conditions.....	7
DSSR No. 5: Vicinity Mapping .....	7
DSSR No. 6: Geotechnical Information .....	8
DSSR No. 7: Site Plan.....	8
DSSR No. 8: Preliminary Estimate .....	8
DSSR No. 9: Source Control Checklist .....	8

**Department of Natural Resources**  
**Webster Forest Nursery Stormwater Design**  
**Table of Contents**

---

**Appendices**

Appendix A – Flow Chart for Minimum Requirements

Appendix B – Source Control Activities Checklist

Appendix C – Flow Chart for Core Requirement No. 5

Appendix D – WWHM Results

Appendix E – Flow Chart for Wetlands Protection

Appendix F – Downstream Analysis

Appendix G – Project Review Checklists

Appendix H – Vicinity Map

Appendix I – Engineering Geology Evaluation Technical Memorandum

**Department of Natural Resources**  
**Webster Forest Nursery Stormwater Design**  
**Drainage Scoping Report**

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## Thurston County Drainage Scoping Report

The proposed project shall comply with Thurston County's *Drainage Design & Erosion Control Manual*, June 2022 edition (DDECM). In accordance with DDECM Volume I, Section 3.2.2 Drainage Scoping Report/Meeting:

For any project exceeding the thresholds of Chapter 2 for which Core Requirements #6 (Runoff Treatment), and/or #7 (Flow Control) apply, a Drainage Scoping Report shall be submitted prior to project application submittal.

DDECM requires the Drainage Scoping Report (DSR) to include the following items and information. These Drainage Scoping Report Requirements (DSRR) have been numbered below for ease of reference.

DSRR No. 1: A letter of transmittal requesting a Drainage Scoping Report review and including applicant, property owner, and parcel information required to identify the property and its location.

DSRR No. 2: A written description of the project including overall stormwater management strategy proposed for the site including a strategy for meeting Core Requirement #5, i.e., will the project use the List Approach, the LID Performance Standard, or LID is infeasible on the site.

DSRR No. 3: The appropriate checklists as identified in the Project Review Flowchart for Projects Triggering Core Requirements #1 - #11. These checklists and flowchart can be found on the Drainage Manual website at:  
<https://www.thurstoncountywa.gov/sw/Pages/dm.aspx>.

DSRR No. 4: Maps of the site's existing conditions showing ground cover, existing drainage, topography, soils, and adjacent areas.

DSRR No. 5: A general vicinity map showing surrounding properties including topography, downstream, and upstream areas of the project.

DSRR No. 6: Results of preliminary geotechnical investigations, test pits, etc. as well as Natural Resources Conservation Service (NRCS) soils mapping information.

DSRR No. 7: A completed conceptual site plan, including a scale drawing with topography of the site and showing conceptual lot and building locations, impervious area totals, proposed drainage facilities, zoning information including any limits on impervious surfaces, tree retention requirements, landscape buffers, etc.

DSRR No. 8: If the project is a redevelopment project, a preliminary estimate of project construction costs should be submitted.

DSRR No. 9: The applicant shall also submit a completed source control checklist (see Volume IV, Source Control).

The remainder of this DSR is intended to comply with the requirements of DDECM Volume I, Section 3.2.2, and the heading sections have been numbered to correspond to the DSRR numbers with the DDECM requirements repeated for ease of reference.

## DSSR No. 1: Letter of Transmittal

*DDECM Requirement – DSRR No. 1: A letter of transmittal requesting a Drainage Scoping Report review and including applicant, property owner, and parcel information required to identify the property and its location.*

A letter of transmittal requesting a DSR review has been prepared as a cover letter to this DSR. The letter of transmittal indicates the applicant, property owner, and parcel information for identifying the property and its location.

## DSSR No. 2: Project Description and Stormwater Management Strategy

*DDECM Requirement – DSRR No. 2: A written description of the project including overall stormwater management strategy proposed for the site including a strategy for meeting Core Requirement #5, i.e., will the project use the List Approach, the LID Performance Standard, or LID is infeasible on the site.*

### Project Overview

The Washington State Department of Natural Resources (DNR) has identified the need to expand the Webster Forest Nursery to increase seedling production by 50 percent. The project was identified as an opportunity to respond to the state's need for reforestation due to increases in wildfires and acreage burned. The project will expand the existing Webster Forest Nursery facility to increase seedling production and support initiatives to restore riparian areas and mitigate climate change impacts in the state.

DNR proposes to complete the project in three phases: 1) predesign; 2) design and construction of stormwater mitigation structures; and 3) construction of new greenhouses, grow pads, and a warehouse. This Drainage Scoping Report has been prepared to support the design and construction of the stormwater infiltration pond and related improvements.

### Existing Conditions Summary

The Webster Forest Nursery expansion will occur on a portion of Parcel No. 067-12720130000, which is part of unincorporated Thurston County (County) and outside of the County's Urban Growth Area. The parcel is approximately 79 acres and is owned by DNR.

The portion of the parcel to be improved currently is cleared land. Refer to the Project Plans submitted under a separate cover for existing conditions and the proposed preliminary site layout. The remaining portion of the parcel contains existing buildings, greenhouses, grow pads, and land to operate the nursery.

## Stormwater Management and Code Compliance Summary

The Webster Forest Nursery improvements must comply with the requirements set forth in Chapter 15.05 Thurston County Code (TCC) and the DDECM. The project will add 7.0 acres of new hard surfaces and 0.8 acres of proposed infiltration pond surface. Using the DDECM Volume I, Figure I – 2.1 Flow Chart for Determining Requirements for New Development, it has been determined that All Core Requirements apply to the new and replaced hard surfaces and converted vegetation areas. Refer to **Appendix A** for the flow chart.

This DSR and the design plans intend to demonstrate compliance with Chapter 15.05 TCC and the DDECM. Where applicable, guidance from the Washington State Department of Ecology's 2019 *Stormwater Management Manual for Western Washington* is utilized.

### Core Requirement No. 1 – Stormwater Site Planning

At the time of Preliminary Report Submittal, the following documents will be prepared and submitted:

- Stormwater Pollution Prevention Plan Site Plan Checklist.
- Drainage and Erosion Control Plan (includes a drainage report, permanent stormwater control plan (drawings and specifications) and a maintenance plan).
- Construction Stormwater Pollution Prevention Plan (includes temporary erosion and sediment control drawings and a narrative).

### Core Requirement No. 2 – Construction Stormwater Pollution Prevention

At the time of Preliminary Report Submittal, a Construction Stormwater Pollution Prevention Plan (SWPPP) with narrative and drawings will be prepared as described in DDECM Volume II.

### Core Requirement No. 3 – Source Control of Pollution

The Commercial and Industrial Activities Worksheet from DDECM Volume IV, Chapter 3 was reviewed and activities being performed or expected to be performed (post-project) were checked (**Appendix B**). Using the Activity Codes from the Activities Worksheet, each activity was reviewed to identify the Required Best Management Practices (BMPs) for each activity. The following BMPs for Commercial and Industrial Activities and General Source Control BMPs will be included in the Preliminary Report Submittal.

**Activity**

<b>Code</b>	<b>Type of Activity</b>
A1.1	Cleaning or Washing of Tools, Engines, and Manufacturing Equipment Washing, Pressure Washing, and Steam Cleaning of Vehicles/Equipment/Building Structures
A1.3	
A1.6	Potable Water Line Flushing, Water Tank Maintenance, and Hydrant Testing
A2.1	Loading and Unloading Areas for Liquid or Solid Material
A2.3	Engine Repair and Maintenance
A2.4	Mobile Fueling of Vehicles and Heavy Equipment
A3.11	Pesticides and an Integrated Pest Management Program
A3.12	Nurseries and Greenhouses
A3.13	Irrigation
A3.14	Fertilizer Application
A4.7	Storage of Liquid or Dangerous Waste Containers
A4.8	Storage of Liquids in Permanent Aboveground Tanks
A4.9	Parking and Storage for Vehicles and Equipment
A4.10	Storage of Dry Pesticides and Fertilizers
A6.1	Dust Control at Disturbed Land Areas and Unpaved Roadways and Parking Lots
A7.13	Maintenance of Roadside Ditches
A7.14	Maintenance of Stormwater Drainage and Treatment Facilities
A7.17	Maintenance and Repair of Vehicles and Equipment

**Activity**

<b>Code</b>	<b>Source Control</b>
S.1	Eliminate Illicit Stormwater Drainage System Connections
S.2	Dispose of Collected Runoff and Waste Materials Properly
S.4	Cover the Activity with a Roof or Awning
S.5	Cover the Activity with an Anchored Tarpaulin or Plastic Sheet
S.6	Pave the Activity Area and Slope to a Sump or Holding Tank
S.7	Surround the Activity Area with a Curb, Dike, or Berm or Elevate the Activity
S.8	Implement Integrated Pest Management (IPM) Measures
S.9	Clean Catch Basin
S.10	Labeling Storm Drain Inlets On Your Property

## Core Requirement No. 4 – Preservation of Natural Drainage Systems and Outfalls

Runoff from the Site and Project Site discharge to the south and west to Salmon Creek along the south edge of DNR's properties and/or to the west edge of DNR's properties where Salmon Creek disperses into large wetland areas.

## Core Requirement No. 5 – On-Site Stormwater Management

According to Figure I – 2.4 Flow Chart for Determining Core Requirement #5 Requirements, the project is required to meet the LID Performance Standard and to apply BMP LID.02 Post-Construction Soil Quality and Depth for disturbed soils not stabilized by pavement, gravel, or other means. Refer to **Appendix C** for the flowchart.

This project will comply with the LID Performance Standard through the use of infiltration in the proposed stormwater pond. BMP LID.02 Post-Construction Soil Quality and Depth will be used for disturbed soils not stabilized by pavement, gravel, or other means.

## Core Requirement No. 6 – Runoff Treatment

Surfaces within the proposed Project Site are not considered pollution generating by definition. Surfaces are not considered to be subject to vehicular use because they are not regularly used by motor vehicles. The Project Site is not an industrial activity, does not store erodible or leachable materials, wastes, or chemicals, which receive direct rainfall or the run-on or blow-in of rainfall, does not propose metal roofs, and does not propose roofs that are subject to venting significant amounts of dusts, mists, or fumes from manufacturing, commercial, or other indoor activities.

## Core Requirement No. 7 – Flow Control

The proposed development will use an infiltration pond to provide flow control. The infiltration pond will infiltrate the full 100-year design event; therefore, it will comply with the standard for matching developed discharge durations to pre-developed durations for the range of pre-developed discharge rates from 50 percent of the 2-year peak flow up to the full 50-year peak flow. The predevelopment condition to be matched will be a forested land cover. Refer to **Appendix D** for preliminary Western Washington Hydrology Model (WWHM) results.

NOTE TO REVIEWER: The Plans currently show infiltration trenches in addition to the proposed stormwater infiltration pond. The infiltration trenches were not modeled in WWHM as a conservative approach. In future submittals, the infiltration trenches are expected to be included in WWHM modeling for more accurate design of stormwater flow control facilities.

## Core Requirement No. 8 – Wetlands Protection

Wetlands do not exist on or adjacent to the Project Site. A downstream wetland was identified south and west of the DNR properties using aerial photographs and Thurston County online mapping tools. The wetland category is unknown. Since the wetland is located on a separate parcel, this project does not have legal access to the wetland; however, it is likely that this wetland has a habitat score over 5.

This project exceeds flow control thresholds for the Threshold Discharge Area (TDA) and will require flow control BMPs per Core Requirement No. 7. Although the category of the wetland is unknown Figure I – 2.5 Flow Chart for Determining Wetland Protection Levels Required from the DDECM (**Appendix E**), the Wetland Protection Levels that apply are limited to General Protection, Protection from Pollutants, and Wetland Hydroperiod Protection (Method 2).

The project will provide General Protection, Protection from Pollutants, and Wetland Hydroperiod Protection (Method 2), which will be documented in the future Preliminary Report Submittal.

### Core Requirement No. 9 – Operation and Maintenance

An Operation and Maintenance Manual and any required access and maintenance covenants will be prepared as the project's stormwater design is developed and will be included in the future Preliminary Report Submittal.

### Core Requirement No. 10 – Financial Liability

DNR requests an exemption from providing financial guarantees per Revised Code of Washington (RCW) 36.32.590.

### Core Requirement No. 11 – Off-Site Analysis and Mitigation

DNR properties in the project area are relatively flat but have a general slope to the south and west. Flow on the Project Site is routed to and collected by existing ditches in the field that discharge to the northeast corner of the Project Site to an existing pond/basin. This pond/basin also receives runoff from other fields north and east of the Project Site, as well as overflow from an existing stormwater pond constructed for previous improvements. The pond/basin is drained via a pump system with a low pressure force main routed south and west where it discharges to other existing stormwater conveyance infrastructure that then discharges at the south edge of DNR properties and flows via existing swales to the receiving water of Hopkins Ditch. The point for ¼-mile downstream of the Project Site is just a few hundred feet within Hopkins Ditch. From this point, Hopkins Ditch flows westerly, where it becomes Salmon Creek.

Refer to **Appendix F** for maps and drawings of the downstream flow path.

## DSSR No. 3: DDECM Checklists

*DDECM Requirement – DSRR No. 3: The appropriate checklists as identified in the Project Review Flowchart for Projects Triggering Core Requirements #1 - #11. These checklists and flowchart can be found on the Drainage Manual website at:*

*<https://www.thurstoncountywa.gov/sw/Pages/dm.aspx>.*

The Project Review Flowchart for Projects Triggering Core Requirements #1 - #11 has been included in **Appendix G**, and the appropriate checklists have been identified on the flowchart. The checklists from the flowchart include the following:

- Construction SWPPP Checklist.
- Infiltration Facility Checklist:

- Methods for Determining Infiltration Rates Checklist;
- Infiltration Facility Procedures Checklist; and
- Field and Design Procedures Checklist.
- Checklist LID.02 – Post-Construction Soil Quality and Depth.
- Checklist LID.01 – Infiltration Basins.
- Drainage Report Required Elements Checklist.
- Construction Plans Required Elements Checklist.
- Detailed conveyance review.

The following titled checklists could not be located at the website identified in the DDECM, nor in the text content of the DDECM using word searches:

- Detailed conveyance review.

The checklists are provided in **Appendix G**, except the checklists that could not be located.

## DSSR No. 4: Maps of Existing Conditions

*DDECM Requirement – DSRR No. 4: Maps of the site’s existing conditions showing ground cover, existing drainage, topography, soils, and adjacent areas.*

The existing site is used as a tree nursery for reforestation of Washington State lands. The ground cover is farmland. Drainage for the project site is to the northeast and drainage for the site (i.e., all of DNR’s properties in this area) is generally to the southwest. The topographic survey prepared for the project identifies the existing conditions. Properties adjacent to the project site being developed are:

- Property to the north: These are DNR properties used for forest nursery practices, including greenhouses and pads for growing tree seedlings;
- Property to the east: These properties are two businesses of a wall panel manufacturer and a dairy farm;
- Property to the south: These are generally large parcel single-family properties and Hopkins Ditch; and
- Property to the west: These are DNR farm field properties for growing trees.

## DSSR No. 5: Vicinity Mapping

*DDECM Requirement – DSRR No. 5: A general vicinity map showing surrounding properties including topography, downstream, and upstream areas of the project.*

A general vicinity map is provided in **Appendix H**.

## DSSR No. 6: Geotechnical Information

*DDECM Requirement – DSRR No. 6: Results of preliminary geotechnical investigations, test pits, etc., as well as Natural Resources Conservation Service (NRCS) soils mapping information.*

A geotechnical memorandum has been prepared by RH2 Engineering, Inc., and is included in **Appendix I**.

## DSSR No. 7: Site Plan

*DDECM Requirement – DSRR No. 7: A completed conceptual site plan, including a scale drawing with topography of the site and showing conceptual lot and building locations, impervious area totals, proposed drainage facilities, zoning information including any limits on impervious surfaces, tree retention requirements, landscape buffers, etc.*

A conceptual site plan has been prepared and is included in the Plan Set submitted with this Drainage Scoping Report under a separate cover.

## DSSR No. 8: Preliminary Estimate

*DDECM Requirement – DSRR No. 8: If the project is a redevelopment project, a preliminary estimate of project construction costs should be submitted.*

The proposed project is considered New Development and not Redevelopment; therefore, an estimate of the project construction costs is not needed.

## DSSR No. 9: Source Control Checklist

*DDECM Requirement – DSRR No. 9: The applicant shall also submit a completed source control checklist (see Volume IV, Source Control).*

A Source Control Checklist has been included in this DSR as described in the subsection *Core Requirement No. 3 – Source Control of Pollution* of the heading section *DSSR No. 2: Project Description and Stormwater Management Strategy*.

## ***Appendix A***

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### Flow Chart for Minimum Requirements

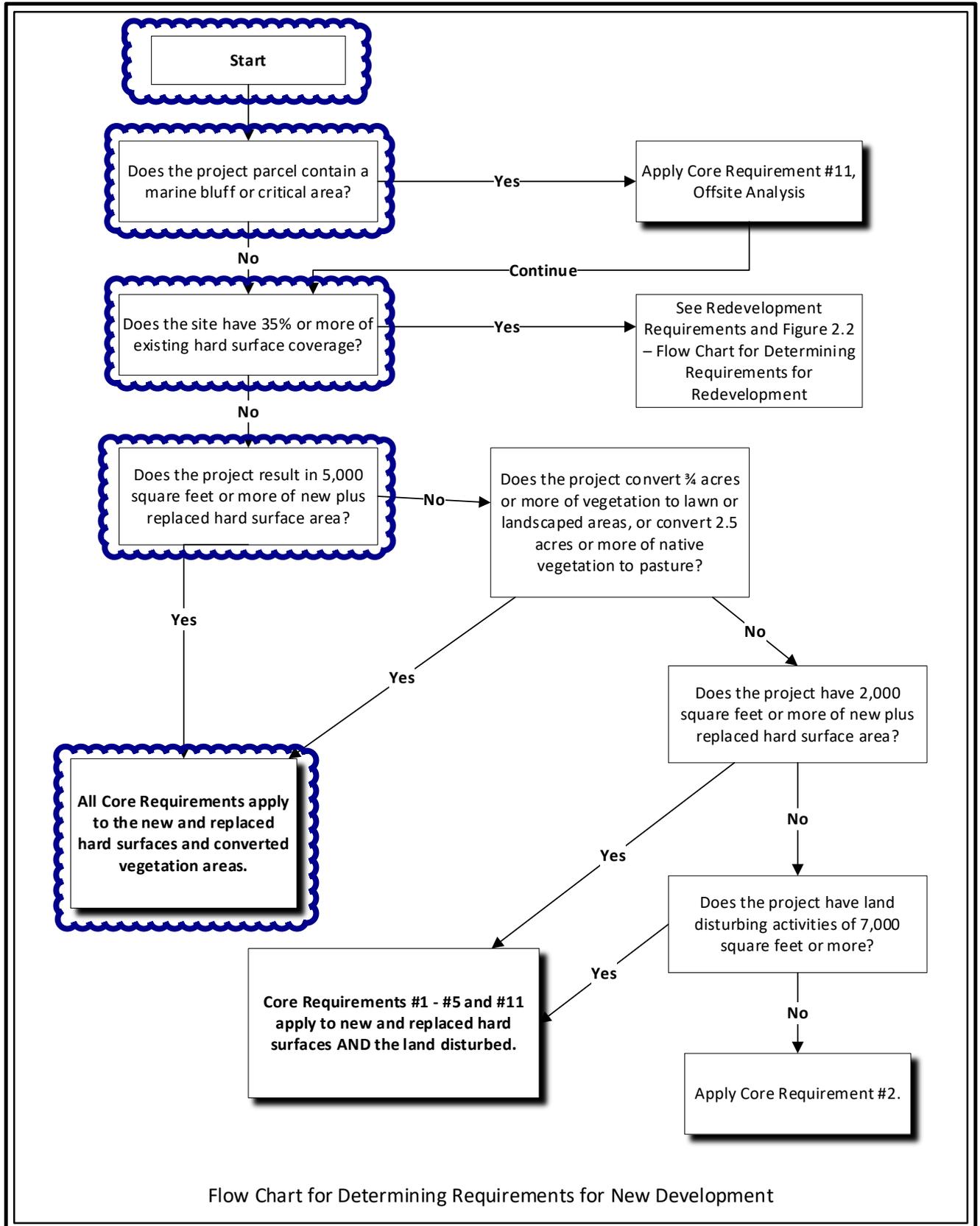


Figure I - 2.1 Flow Chart for Determining Requirements for New Development.

## ***Appendix B***

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### Source Control Activities Checklist

**THURSTON COUNTY DRAINAGE DESIGN AND EROSION CONTROL MANUAL**

Activity Code	Type of Activity	Check if You Are Involved in This	
		Indoor	Outdoor
<u>A1.1</u>	Cleaning or Washing of Tools, Engines, and Manufacturing Equipment <ul style="list-style-type: none"> <li>Includes parts washers and all types of manufactured equipment components.</li> </ul>	<b>X</b>	<b>X</b>
<u>A1.2</u>	Cleaning or Washing of Cooking Equipment <ul style="list-style-type: none"> <li>Includes vents, filters, pots and pans, grills, and related items.</li> </ul>		
<u>A1.3</u>	Washing, Pressure Washing, and Steam Cleaning of Vehicles/Equipment/Building Structures <ul style="list-style-type: none"> <li>Includes cleaning and washing at all types of establishments, including fleet vehicle yards, car dealerships, car washes, and maintenance facilities.</li> </ul>	<b>X</b>	<b>X</b>
<u>A1.4</u>	Collection and Disposal of Wastewater from Mobile Interior Washing Operations <ul style="list-style-type: none"> <li>Includes carpet cleaners, upholstery cleaners, and drapery cleaners.</li> </ul>		
A1.5	Dock Washing <ul style="list-style-type: none"> <li>Includes wharves, piers, floats, and boat ramps.</li> </ul>		
A1.6	Potable Water Line Flushing, Water Tank Maintenance, and Hydrant Testing		<b>X</b>
<u>A2.1</u>	Loading and Unloading Areas for Liquid or Solid Material <ul style="list-style-type: none"> <li>Includes raw materials, intermediate products, finished products, waste, or fuel.</li> </ul>	<b>X</b>	<b>X</b>
<u>A2.2</u>	Fueling at Dedicated Stations <ul style="list-style-type: none"> <li>Includes gas stations, pumps at fleet vehicle yards or shops, and other privately owned pumps.</li> </ul>		
<u>A2.3</u>	Engine Repair and Maintenance <ul style="list-style-type: none"> <li>This covers oil changes and other engine fluids.</li> </ul>	<b>X</b>	
<u>A2.4</u>	Mobile Fueling of Vehicles and Heavy Equipment <ul style="list-style-type: none"> <li>Includes fleet fueling, wet fueling, and wet hosing.</li> </ul>	<b>X</b>	
A2.5	In-Water and Over-Water Fueling <ul style="list-style-type: none"> <li>Applies to transferring of fuels to vehicle or equipment in water.</li> </ul>		
<u>A3.1</u>	Concrete and Asphalt Mixing and Production at Stationary Sites <ul style="list-style-type: none"> <li>Applies to mixing of raw materials on site to produce concrete or asphalt.</li> </ul>		
<u>A3.2</u>	Concrete Pouring, Concrete Cutting, and Asphalt Application at Temporary Sites <ul style="list-style-type: none"> <li>Includes construction sites, and driveway and parking lot resurfacing.</li> </ul>		
<u>A3.3</u>	Manufacturing and Postprocessing of Metal Products <ul style="list-style-type: none"> <li>Includes machining, grinding, soldering, cutting, welding, quenching, rinsing, etc.</li> </ul>		
<u>A3.4</u>	Wood Treatment Areas <ul style="list-style-type: none"> <li>Includes wood treatment using pressure processes or by dipping or spraying.</li> </ul>		

**THURSTON COUNTY DRAINAGE DESIGN AND EROSION CONTROL MANUAL**

Activity Code	Type of Activity	Check if You Are Involved in This	
		Indoor	Outdoor
<u>A3.5</u>	Commercial Composting <ul style="list-style-type: none"> <li>Includes commercial composting facilities operating outside.</li> </ul>		
<u>A3.6</u>	Landscaping and Lawn/Vegetation Management Activities <ul style="list-style-type: none"> <li>Includes businesses involved in landscaping and managing vegetation.</li> </ul>		
<u>A3.7</u>	Painting, Finishing, and Coating of Vehicles, Boats, Buildings, and Equipment <ul style="list-style-type: none"> <li>Includes surface preparation and the applications of paints, finishes, and/or coatings.</li> </ul>		
<u>A3.8</u>	Commercial Printing Operations <ul style="list-style-type: none"> <li>Includes materials used in the printing process.</li> </ul>		
<u>A3.9</u>	Manufacturing Activities – Outside <ul style="list-style-type: none"> <li>Includes outdoor manufacturing areas.</li> </ul>		
<u>A3.10</u>	Agricultural Crop Production <ul style="list-style-type: none"> <li>Includes commercial scale farming.</li> </ul>		
<u>A3.11</u>	Pesticides and Integrated Pest Management Program <ul style="list-style-type: none"> <li>Includes moss removal and outdoor insect extermination.</li> </ul>		<b>X</b>
A3.12	Nurseries and Greenhouses <ul style="list-style-type: none"> <li>Applies to commercial contain plant, greenhouse grown, and cut foliage production operations.</li> </ul>		<b>X</b>
A3.13	Irrigation <ul style="list-style-type: none"> <li>Includes businesses involved in landscaping and managing vegetation.</li> </ul>		<b>X</b>
A3.14	Fertilizer Application <ul style="list-style-type: none"> <li>Includes businesses involved in landscaping, applying fertilizers, and managing vegetation.</li> </ul>		<b>X</b>
<u>A4.1</u>	Storage or Transfer (Outside) of Solid Raw Materials, By-products, or Finished Products		
<u>A4.2</u>	Storage and Treatment of Contaminated Soils <ul style="list-style-type: none"> <li>This applies to contaminated soils that are excavated and left on site.</li> </ul>		
<u>A4.3</u>	Temporary Storage or Processing of Fruits or Vegetables <ul style="list-style-type: none"> <li>Includes processing activities at wineries, fresh and frozen juice makers, and other food and beverage processing operations.</li> </ul>		
<u>A4.4</u>	Storage of Solid Wastes and Food Wastes <ul style="list-style-type: none"> <li>Includes regular garbage and all other discarded non-liquid items.</li> </ul>		
<u>A4.5</u>	Recyclers and Scrap Yards <ul style="list-style-type: none"> <li>Includes scrapped equipment, vehicles, empty metal drums, and assorted recyclables.</li> </ul>		
<u>A4.6</u>	Treatment, Storage, or Disposal of Dangerous Wastes <ul style="list-style-type: none"> <li>Refer to Ecology and the Thurston County Health Department for more information, see Chapter 7.</li> </ul>		

**THURSTON COUNTY DRAINAGE DESIGN AND EROSION CONTROL MANUAL**

Activity Code	Type of Activity	Check if You Are Involved in This	
		Indoor	Outdoor
<u>A4.7</u>	Storage of Liquid, Food Waste, or Dangerous Waste Containers <ul style="list-style-type: none"> <li>Includes containers located outside a building and used for temporary storage.</li> </ul>	<b>X</b>	<b>X</b>
<u>A4.8</u>	Storage of Liquids in Permanent Aboveground Tanks <ul style="list-style-type: none"> <li>Includes all liquids in aboveground tanks.</li> </ul>		<b>X</b>
<u>A4.9</u>	Parking and Storage for Vehicles and Equipment <ul style="list-style-type: none"> <li>Includes public and commercial parking lots</li> </ul>		<b>X</b>
<u>A4.10</u>	Storage of Pesticides, Fertilizers, or other products that can leach pollutants	<b>X</b>	
<u>A5.1</u>	Demolition of Buildings <ul style="list-style-type: none"> <li>Applies to removal of existing buildings and subsequent clearing of the rubble.</li> </ul>		
<u>A5.2</u>	Building Repair, Remodeling, and Construction <ul style="list-style-type: none"> <li>Applies to construction of buildings, general exterior building repair work and remodeling of buildings.</li> </ul>		
<u>A6.1</u>	Dust Control at Disturbed Land Areas and Unpaved Roadways and Parking Lots		<b>X</b>
<u>A6.2</u>	Dust Control at Manufacturing Sites <ul style="list-style-type: none"> <li>Includes grain dust, sawdust, coal, gravel, crushed rock, cement, and boiler fly ash.</li> </ul>		
<u>A6.3</u>	Soil Erosion and Sediment Control (ESC) at Industrial Sites <ul style="list-style-type: none"> <li>Includes industrial activities that take place on soil.</li> </ul>		
<u>A7.1</u>	Commercial Animal Handling Areas <ul style="list-style-type: none"> <li>Includes kennels, fenced pens, veterinarians, and businesses that board animals.</li> </ul>		
<u>A7.2</u>	Keeping Livestock in Stables, Pens, Pastures or Fields <ul style="list-style-type: none"> <li>Applies to all types of livestock.</li> </ul>		
<u>A7.3</u>	Log Sorting and Handling <ul style="list-style-type: none"> <li>Applies to log yards typically located at sawmills, ports, and pulp mills.</li> </ul>		
<u>A7.4</u>	Boat Building, Mooring, Maintenance, and Repair <ul style="list-style-type: none"> <li>Includes all types of maintenance, repair, and building operations.</li> </ul>		
<u>A7.5</u>	Logging <ul style="list-style-type: none"> <li>Applies to logging activities that fall under Class IV general forest practices.</li> </ul>		
<u>A7.6</u>	Mining and Quarrying of Sand, Gravel, Rock, Minerals, Peat, Clay, and Other Materials <ul style="list-style-type: none"> <li>This does not include excavation at construction sites.</li> </ul>		
<u>A7.7</u>	Swimming Pool and Spa Cleaning and Maintenance <ul style="list-style-type: none"> <li>Includes every swimming pool and spa not at a single family residence. Commercial pool cleaners are included here for all pools.</li> </ul>		
<u>A7.8</u>	De-icing and Anti-icing Operations for Airports <ul style="list-style-type: none"> <li>Includes aircraft, runways, and taxiways.</li> </ul>		

**THURSTON COUNTY DRAINAGE DESIGN AND EROSION CONTROL MANUAL**

Activity Code	Type of Activity	Check if You Are Involved in This	
		Indoor	Outdoor
<u>A7.9</u>	Roof and Building Drains at Manufacturing and Commercial Buildings <ul style="list-style-type: none"> <li>• These sites will be referred to ORCAA.</li> </ul>		
<u>A7.10</u>	Urban Streets <ul style="list-style-type: none"> <li>• BMPs for addressing pollutants found on paved surfaces, including street sweeping.</li> </ul>		
<u>A7.11</u>	Railroad Yards		
<u>A7.12</u>	Maintenance of Public and Private Utility Corridors and Facilities <ul style="list-style-type: none"> <li>• Includes public and private utility maintenance activities.</li> </ul>		
<u>A7.13</u>	Maintenance of Roadside Ditches		<b>X</b>
<u>A7.14</u>	Maintenance of Stormwater Drainage and Treatment Facilities		<b>X</b>
<u>A7.15</u>	Spills of Oil and Hazardous Substances		
A7.16	Streets and Highways <ul style="list-style-type: none"> <li>• Includes maintenance and deicing/anti-icing of streets and highways</li> </ul>		
A7.17	Maintenance and Repair of Vehicles and Equipment	<b>X</b>	
A7.18	Well, Utility, Directional and Geotechnical Drilling <ul style="list-style-type: none"> <li>• Includes drilling water wells and utilities, environmental protection and monitoring wells, and geotechnical borings using machinery</li> </ul>		
A7.19	Roof Vents <ul style="list-style-type: none"> <li>• Includes process that vent emissions to the roof</li> </ul>		

### **A1.1 Cleaning or Washing of Tools, Engines, and Manufacturing Equipment**

This activity applies to businesses and public agencies that clean manufacturing equipment such as saws, grinders, screens, and other processing devices outside of buildings, and businesses engaged in pressure washing of engines, equipment, and portable objects.

**Description of Pollutant Sources:** Pollutant sources include toxic hydrocarbons, organic compounds, oils and greases, nutrients, heavy metals, pH, suspended solids, and oxygen demanding substances (i.e., BOD and COD).

**Pollutant Control Approach:** The preferred approach is to cover and/or contain the cleaning activity, or conduct the activity inside a building. Washwater must be conveyed to a sanitary sewer after approval by your sewer service provider, temporarily stored before proper disposal, or recycled, with no discharge to the ground, a storm drain, or surface water. Washwater may be discharged to the ground after proper treatment in accordance with *Ecology guidance WQ-R-95-56, "Vehicle and Equipment Washwater Discharges," /Best Management Practices Manual November 2012*, or most recent update. The quality of any discharge to the ground after proper treatment (gravity separation followed by media filtration) must comply with the Water Quality Standards for Groundwaters of the State of Washington, Chapter 173-200 WAC. Contact the Ecology Southwest Regional Office for an NPDES permit application for discharge of washwater to surface water or to a storm drain after on-site treatment.

#### **Required BMPs**

The following BMPs (or equivalent measures) are required of all businesses and public agencies that clean or wash tools, engines, equipment, and portable objects:

- Illicit connections to the stormwater drainage system must be eliminated. See BMP S.1 in Chapter 5 for detailed information.
- Train employees to control washing operations to prevent stormwater contamination.
- All washwater must discharge to a holding tank, process treatment system, or sanitary sewer--never to the stormwater drainage system. See BMP S.3 in Chapter 5 for instructions.
- Pressure washing must be performed in a designated area (such as a wash pad) provided with a sump drain and stormwater run-on prevention (Figures IV - 4.1 and 4.2). See BMPs S.6 and S.7 in Chapter 5 for information on sumps (or holding tanks) and run-on prevention. Contact your sewer service provider for pre-treatment requirements and for washing operation policy.



(Photo courtesy of Seattle Public Utilities)

**Figure IV - 4.1 Wash Pad for Tool and Equipment Washing.**



**Figure IV - 4.2 Uncovered Washing Area for Tools, Engines, Equipment, and Portable Objects, with Drains to a Sanitary Sewer, Process Treatment, or a Dead-End Sump.**

### **Suggested BMPs**

The following BMPs are not required but can provide additional pollution control:

- If soaps or detergents are used, use the least toxic cleaner capable of doing the job. Use non-phosphate detergent, if possible, to reduce loadings at your local wastewater treatment plant.
- Limit the amount of water used in washing activities to reduce the potential of runoff carrying pollutants beyond the designated wash pad or capture system.
- Recycle washwater for subsequent washings.
- Implement one or more of the stormwater treatment BMPs found in Volume V.

NOTE: For discharging wash waters containing soaps and detergents, the use of infiltration, bioretention, biofiltration, wet ponds, and wetlands must not result in the violation of groundwater quality standards.

## A1.2 Cleaning or Washing of Cooking Equipment

This activity applies to businesses that clean cooking equipment such as vent filters, grills, and grease traps outside of buildings.

**Description of Pollutant Sources:** Pollutants of concern consist of oil and grease, nutrients, suspended solids, and oxygen demanding substances (i.e., BOD and COD).

**Pollutant Control Approach:** Businesses engaged in this activity that cannot connect discharges to a sanitary sewer, holding tank, or process water treatment system must contact Ecology and obtain a NPDES wastewater permit.

### Required BMPs

The following BMPs or equivalent measures are required of all businesses engaged in cleaning or washing of cooking equipment:

- Illicit connections to the stormwater drainage system must be eliminated. See BMP S.1 in Chapter 5 for detailed requirements.
- Employees must be educated about the need to prevent stormwater contamination from washing operations.
- Washwater cannot be discharged to the stormwater drainage system.
- Paved washing areas must be swept daily to collect loose solid materials for proper disposal.
- Greasy buildup on cooking equipment must be removed and properly disposed of prior to washing to reduce the amount of material that can potentially contaminate runoff.
- Move the activity indoors with drainage to a sanitary sewer, holding tank, or process treatment system (Figure IV - 4.3). See BMP S.3 in Chapter 5 for further information on drainage alternatives. Any connection to the sanitary sewer requires the approval of the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your sewer service provider, if your site is not within the LOTT service area.

OR

Use a tub or similar device to contain washwater. This water must be recycled for subsequent washing, or disposed of in a holding tank or sanitary sewer.

OR

If the washing activity cannot be moved indoors or contained in a tub, then the washing area must drain to a sanitary sewer, holding tank, or process treatment system, and provisions must be made to prevent stormwater run-on onto the washing area. See BMP S.3 in Chapter 5 for detailed drainage requirements and BMP S.7 for run-on prevention schemes. If

discharging to a sanitary sewer, permits must be obtained from the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider if your site is not within the LOTT service area.



(Photo courtesy of Seattle Public Utilities)

**Figure IV - 4.3 Cleaning and Washing Cooking Equipment Indoors.**

- If a holding tank is used for storage of washwater, the contents must be pumped out before it is full and disposed of appropriately to a sanitary sewer or wastewater treatment system.

**Suggested BMPs**

The following BMPs are not required but can provide additional pollution protection:

- A cover should be placed over a designated wash area to keep rain from falling on dirty equipment and producing contaminated runoff.

### **A1.3 Washing, Pressure Washing, and Steam Cleaning of Vehicles/Equipment/Building Structures**

**Description of Pollutant Sources:** Pollutant sources include the commercial cleaning of vehicles, aircraft, vessels, carpets, industrial equipment, and large buildings with low or high pressure water or steam. This includes “charity” car washes at gas stations and commercial parking lots. The cleaning can include hand washing, scrubbing, sanding, etc. Washwater from cleaning activities can contain oil and grease, suspended solids, heavy metals, soluble organics, soaps, and detergents that can contaminate stormwater.

**Pollutant Control Approach:** The preferred approach is to cover and/or contain the cleaning activity, or conduct the activity inside a building, to separate the uncontaminated stormwater from the washwater sources. Contact the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider for advice and consultation on appropriate treatment and for approvals to discharge to sanitary sewer. Washwater must be conveyed to a sanitary sewer after approval by the LOTT Alliance Industrial Pretreatment Program, or temporarily stored before proper disposal or recycling, with no discharge to the ground, a storm drain, or surface water.

The Industrial Stormwater General Permit prohibits the discharge of process wastewater (e.g., vehicle washing wastewater) to groundwater or surface water. Stormwater that commingles with process wastewater is considered process wastewater.

Facilities not covered under the Industrial Stormwater General Permit that are unable to follow one of the preferred approaches listed above may discharge washwater to the ground after proper treatment in accordance with *Ecology guidance WQ-R-95-56, Vehicle and Equipment Washwater Discharges/Best Management Practices Manual, November 2012, or most recent update*. . The quality of any discharge to the ground after proper treatment (gravity separation followed by media filtration) must comply with the Water Quality Standards for Groundwaters of the State of Washington, Chapter 173-200 WAC. Contact the Ecology Southwest Regional Office to discuss permitting options for discharge of washwater to surface water or to a storm drain after on-site treatment.

#### **Required BMPs**

Conduct vehicle and equipment washing in one of the following locations:

- At a commercial washing facility in which the washing occurs in an enclosure and drains to the sanitary sewer, or
- In a building constructed specifically for washing of vehicles and equipment, which drains to a sanitary sewer.

Conduct outside washing operation in a designated wash area with the following features:

- In a paved area, construct a spill containment pad to prevent the run-on of stormwater from adjacent areas. Slope the spill containment area to collect washwater in a containment pad drain system with perimeter drains, trench drains, or catchment drains. Size the containment pad to extend out a minimum of four feet on all sides of the vehicles and/or equipment being washed.
- Convey the washwater to a sump (like a grit separator) and then to a sanitary sewer (if allowed by the your sewer service provider), or other appropriate wastewater treatment or recycle system. The containment sump must have a positive control outlet valve for spill control with live containment volume, and oil/water separation. Size the minimum live storage volume to contain the maximum expected daily washwater flow plus the sludge storage volume below the outlet pipe. Shut the outlet valve during the washing cycle to collect the washwater in the sump. The valve should remain shut for at least two hours following the washing operation to allow the oil and solids to separate before discharge to a sanitary sewer.
- Use a two-way valve for discharges from the containment pad. This valve should normally be switched to direct water to treatment but may be switched to the drainage system after that pad is clean to handle stormwater runoff. The stormwater can then drain into the conveyance/discharge system outside the wash pad (essentially bypassing the sanitary sewer or recycle system). Post signs to inform people of the operation and purpose of the valve. Clean the concrete pad thoroughly until there is no foam or visible sheen in the washwater prior to closing the inlet valve and allowing uncontaminated stormwater to overflow and drain off the pad. **Note** that the purpose of the valve is to convey only washwater and contaminated stormwater to a treatment system. Collect the washwater from building structures and convey it to appropriate treatment such as a sanitary sewer system if it contains oils, soaps, or detergents. If the washwater does not contain oils, soaps, or detergents (in this case only a low pressure, clean, cold water rinse is allowed), then it could drain to soils that have sufficient natural attenuation capacity for dust and sediment.
- Sweep surfaces prior to cleaning/washing to remove excess sediment and other pollutants.
- If roof equipment or hood vents are cleaned, ensure that no washwater or process water is discharged to the roof drains or drainage system.
- Label all mobile cleaning equipment as follows: “Properly dispose of all washwater. Do not discharge to an inlet/catch basin, ditch, stream, or on the ground.
- Any discharge to the sanitary sewer requires the approval of the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local

sewer service provider. Contact the utility for details on approved systems.

### **Suggested BMPs**

- Mark the wash area at gas stations, multifamily residences, and any other business where non-employees wash vehicles.
- All valves must be positive control valves (e.g. gate valve). A pneumatic or electric valve system is preferable, however, operators may use a manually operated positive control valve for uncovered wash pads. The valve may be opened upon completion of a wash cycle. After draining the sump or separator, the valve shall be closed.
- Minimize the use of water and detergents in washing operations when practicable.
- Use phosphate-free biodegradable detergents when practicable.
- Use the least hazardous cleaning products available.
- Consider recycling the washwater.
- Operators may use soluble/emulsifiable detergents in the wash medium, but should use it with care and the appropriate treatment. Carefully consider the selection of soaps and detergents and treatment BMPs. Oil/water separators are ineffective in removing emulsified or water soluble detergents. Another treatment appropriate for emulsified and water soluble detergents may be required. Check with the local sanitary sewer provider or the manual referenced in Section A1.3 above.
- At commercial parking lots, where it is not possible to discharge the washwater to a sanitary sewer, a temporary plug or a temporary sump pump can be used at the storm drain to collect the washwater for off-site disposal at an authorized location per Section A1.3.

Charity car washes are not allowed to discharge washwater to the County stormwater drainage system. For optional fund-raiser information, contact the Puget Sound Car Wash Association at (800) 509-9274. Online, visit: <http://www.streamteam.info/actions/carwashing/>.

- New and used car dealerships may wash vehicles in the parking stalls without soap, or if an approved treatment system for the washwater is in place.

At industrial sites, contact the Ecology Southwest Regional Office for NPDES permit requirements even if soaps, detergents, and/or other chemical cleaners are not used in washing trucks.

### A1.4 Collection and Disposal of Wastewater in Mobile Interior Washing Operations

This activity applies to businesses that wash carpets and other interior items on a mobile site-to-site basis. The typical fleet washing process includes use of machines that spray the washwater solution onto the carpet or upholstery and then vacuums the dirty solution up into a portable tank with limited capacity.

**Description of Pollutant Sources:** Pollutants of concern are nutrients, suspended solids, organic compounds (such as pesticides and chemicals used for flea and odor control), and oxygen demanding substances (i.e., BOD and COD).

**Pollutant Control Approach:** Previously, common practice was to discharge the dirty solution to the ground or to a drain connected to the stormwater drainage system between site visits. **These practices are now illegal.** This point must be made clear to all employees. Wastewater from mobile washing operations may be permitted for sanitary sewer disposal if it does not contain high concentrations of toxic materials.

#### Required BMPs

The following BMPs are required of all businesses doing mobile interior wash activities:

- Wastewater from mobile washing operations must be poured into a sanitary sewer drain at the site of collection, the business office, or at another proper location. If discharging to a sanitary sewer, permits must be obtained from the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider.
- Absolutely no wastewater from mobile interior wash activities can be disposed of outdoors, or to a drain connected to the stormwater drainage system.
- Some chemicals used for flea and odor control are listed by U.S. Environmental Protection Agency (U.S. EPA) as toxics. The LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider will need to know the type of chemicals and amount of water you intend to discharge. If the discharge is approved, they will then issue a permit for your activity.
- If sanitary sewer disposal is not available or not allowed, the collected wastewater must be returned to the business site for process treatment or transfer to a holding tank. See BMP S.3 in Chapter 5 for details on these drainage/disposal alternatives.

#### Suggested BMPs

The following BMPs are not required, but can provide additional pollution protection:

- Use the least toxic detergents and cleaners that will get the job done. Select non-phosphate detergents when possible.

- Limit the amount of water used in interior washing operations. This will save you time, money, and effort when it comes to proper disposal.
- Recycle washwater for more than one use.

### **A1.5 Dock Washing**

**Description of Pollutant Sources:** Washing docks (or wharves, piers, floats, and boat ramps) can result in the discharge of dirt, bird feces, soaps, and detergents that can be toxic to aquatic life, especially after they take on contaminants while cleaning. The BMPs in this section do not address dry docks, graving docks, or main railway cleaning operations.

**Pollutant Control Approach:** Use dry methods and equipment (scraping, sweeping, vacuuming) to remove debris and contaminants prior to cleaning with water to prevent these substances from entering surface water.

#### **Required BMP:**

##### **Surface Preparation and Spot Cleaning**

- Scoop and collection debris and bird feces.
- Sweep, capture, and dispose of debris from the dock as solid waste. Sweep or vacuum docks to minimize the need for chemical cleaners.
- During cleaning activities, if debris, substances, or wash water could enter surface waters through drains, temporarily block the drains and collect the water for proper disposal.
- Hose down the area if necessary and collect water as feasible.
- Try spot cleaning with water and a coarse cloth before using soaps or detergents.
- If a cleaner is needed for spot cleaning:
  - Mix it in a bucket and use it to scrub down only the areas that need extra attention.
  - Start with vinegar and baking soda and move to other options as needed. Spot clean using a rag if harsher cleaning products are needed.
  - Avoid or minimize the use of petroleum distillates, chlorinated solvents, and ammoniated cleaning agents.

- Use degreasers or absorbent material to remove residual grease by hand and do not allow this material to enter surface water.
- Keep cleaners in sealed containers. Keep cleaner containers closed securely when transporting between the shore and docks.
- Properly dispose of the dirty bucket water.
- Minimize the scour impact of wash water to any exposed soil at the landward end(s) of the dock or below the dock. Place a tarp over exposed soil, plant vegetation, or put berms to contain eroded soil.

### **Dock Washing and Disposal**

- To the extent practicable, collect any wash water generated from hosing down, pressure washing, or cleaning dock areas, and dispose of it properly.
- Try pressure washing using light pressure. This uses less water and decreases the need for soap and scrubbing when washing the dock. Avoid using excessive pressure, which may damage the dock or send flakes of paint and other material into the water.
- Do not place any debris and substances resulting from cleaning activities in shoreline areas, riparian areas, or on adjacent land where these substances may erode into waters of the state.
- Where treated wood associated with the structure being washed are present, use non-abrasive methods and tools that, to the maximum extent practicable, minimize removal of the creosote or treated wood fibers when it removes marine growth from creosote or any other treated wood.
- Do not discharge removed marine growth to waters of the state where such marine growth would accumulate on the seabed.
- Do not discharge emulsifiers, dispersants, solvents, or other toxic deleterious materials to waters of the state.

### **A1.6 Potable Water Line Flushing, Water Tank Maintenance, and Hydrant Testing**

**Description of Pollutant Source:** Flushing is a common maintenance activity used to improve pipe hydraulics and to remove pollutants in systems. Flushing done improperly can result in the discharge of solids to receiving waters. Hydrant testing may result in the discharge of rust particles

Chemicals used in line flushing and tank maintenance are highly toxic to aquatic organisms and can degrade receiving waters.

**Pollutant Control Approach:** Dechlorinate and pH adjust water used for flushing, tank maintenance, or hydrant testing. Dispose of the water to the sanitary sewer if possible.

### Required BMPs

- Remove solids from associated curbs and gutters before flushing water. Use erosion and sediment control BMPs such as BMPs C235, C220, etc. to collect any solids resulting from flushing activities.
- If using super chlorination or chemical treatment as part of flushing, discharge water to the sanitary sewer. If sanitary sewer is not available, the water may be infiltrated to the ground as long as all of the following are met:
  - The water is dechlorinated to a total residual chlorine of 0.1 ppm or less.
  - Water quality standards are met.
  - A diffuser is used to prevent erosion.
  - The water does not cross property lines.
- Discharging water to a drainage system requires approval from the Thurston County Water Resources Division at 360-754-4681. The discharged water shall be dechlorinated to a total residual chlorine concentration of no more than 0.1 ppm and pH adjusted if necessary. Water must also be volumetrically and velocity controlled to prevent resuspension of sediments or pollutants in the municipal separate storm system (MS4).
- Do not overapply dichlorination agents. This can deplete the dissolved oxygen concentration and reduce the pH in discharge/receiving waters.

## Suggested BMPs

- If possible, design flushing to convey accumulated material to strategic locations, such as to the sanitary sewer or to a treatment facility, thus preventing re-suspension and overflow of a portion of the solids during storm events.
- If possible, conduct flushing and tank maintenance activities on non-rainy days and during the time of year that poses the least risk to aquatic biota.
- Treatment for dichlorination can include an application of a stoichiometric quantity of:
  - Ascorbic Acid, Sodium Ascorbate (Vitamin C)
  - Calcium Thiosulfate
  - Sodium Sulfite tablets
  - Sodium Thiosulfate
  - Sodium Bisulfite
  - Alternate Dechlorination Solutions

## **Section A2**

### **Transfer of Liquid or Solid Materials**

## A2.1 Loading and Unloading Areas for Liquid or Solid Material

**Description of Pollutant Sources:** Loading and unloading of liquid and solid materials at industrial and commercial facilities is typically conducted at shipping and receiving, outside storage, and fueling areas. Transferred materials can include raw materials, waste materials, fuels, and scrap metals. Leaks and spills of fuels, oils, powders, organics, heavy metals, salts, acids, alkalis, and other chemicals during transfer are potential causes of stormwater contamination. Spills from hydraulic line breaks are a common problem at loading docks.

**Pollutant Control Approach:** Cover and contain the loading/ unloading area where necessary to prevent run-on of stormwater and runoff of contaminated stormwater.

### Required BMPs

#### At All Loading/Unloading Areas:

- A significant amount of debris can accumulate at outside, uncovered loading/unloading areas. Sweep these surfaces frequently to remove loose material that could contaminate stormwater. Sweep areas that are covered by containers, logs, or other material after the areas are cleared.
- Place drip pans, storm drain covers or other temporary containment devices at locations where leaks or spills may occur such as hose connections, hose reels, and filler nozzles. Always use pans when making and breaking connections (Figure IV - 4.4). Check loading/unloading equipment such as valves, pumps, flanges, and connections regularly for leaks and repair as needed. Consistent with applicable fire code requirements and to the extent practicable, conduct unloading or loading of solids and liquids in a manufacturing building or under a roof, lean-to, or other appropriate cover.
- Berm, dike, and/or slope the loading/unloading area to prevent run-on of stormwater and to prevent the runoff or loss of any spilled material from the area.
- Place curbs along the edge, or slope the edge such that the stormwater can flow to an internal stormwater drainage system that leads to an approved treatment BMP. Do not allow stormwater to drain directly to the surface water from loading areas.
- Pave and slope loading/unloading areas to prevent the pooling of water. Minimize the use of catch basins and drain lines within the interior of the loading/unloading area or place them in designated “alleyways” to avoid being covered by material, containers, or equipment.
- Retain the necessary materials for rapid cleanup of spills on site.

#### At Tanker Truck and Rail Transfer Areas to Above/Below-ground Storage Tanks:

- To minimize the risk of accidental spillage, prepare an “Operations Plan” that describes procedures for loading/unloading. Train the employees,

especially fork lift operators, in its execution and post it or otherwise have it readily available to employees and regulatory officials.

- Report spills of reportable quantities to Ecology Southwest Regional Office at (360) 407-6300.
- Prepare and implement an emergency spill cleanup plan for the facility (BMP A7.15 Spills of Oil and Hazardous Substances) which includes the following BMPs:
  - Ensure cleanup of liquid/solid spills in the loading/unloading area immediately if a significant spill occurs, upon completion of the loading/unloading activity, or at the end of the working day.
  - Retain and maintain an appropriate oil spill cleanup kit on site for rapid cleanup of material spills (see BMP A7.15 Spills of Oil and Hazardous Substances).
  - Ensure that an employee trained in spill containment and cleanup is present during loading/unloading.

**At Rail Transfer Areas to Above/Below-ground Storage Tanks:**

- Install a drip pan system as illustrated (Figure IV - 4.4) within the rails to collect spills/leaks from tank cars and hose connections, hose reels, and filler nozzles.

**Loading/Unloading from/to Marine Vessels:**

- Facilities and procedures for the loading or unloading of petroleum products must comply with Coast Guard requirements.

**Transfer of Small Quantities from Tanks and Containers:**

- Refer to BMPs A4.8 Storage of Liquids in Permanent Aboveground Tanks and A4.7 Storage of Liquid, Food Waste, or Dangerous Waste Containers for requirements on the transfer of small quantities from tanks and containers, respectively.



(Photo courtesy of Mark Dilley, Interstate Products, Inc.)

**Figure IV - 4.4 Drip Pan for Connections at Loading and Unloading Areas for Liquid Material.**

### **Suggested BMPs**

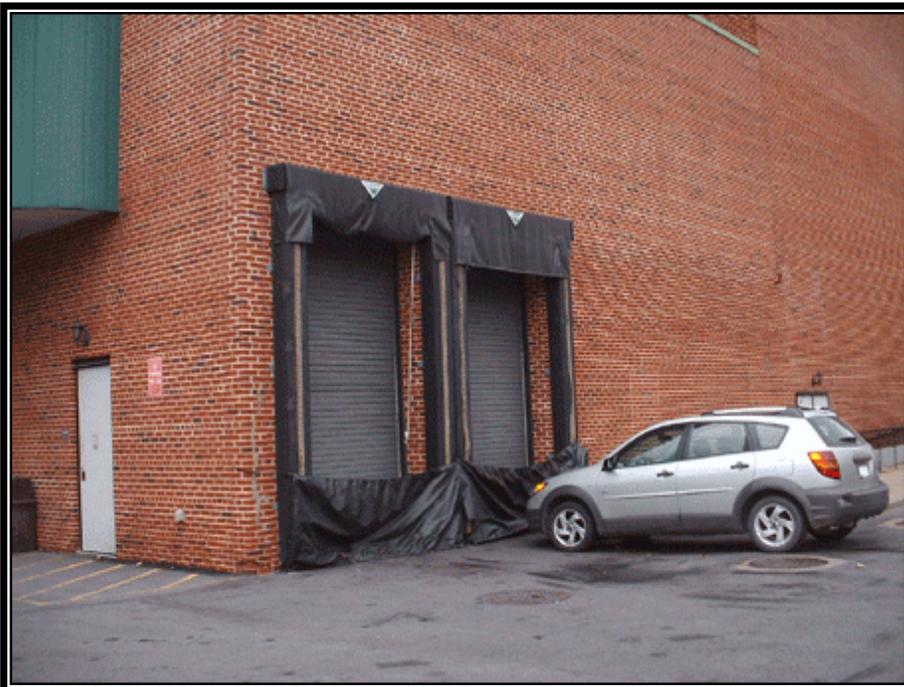
- For the transfer of pollutant liquids in areas that cannot contain a catastrophic spill, install an automatic shutoff system in case of unanticipated off-loading interruption (e.g., coupling break, hose rupture, overfill, etc.).

### **At Loading and Unloading Docks:**

- Install/maintain overhangs or door skirts that enclose the trailer end (Figures IV - 4.5 and 4.6) to prevent contact with rainwater.
- Design the loading/unloading area with berms, sloping, etc. to prevent the run-on of stormwater.



**Figure IV - 4.5 Loading Docks with an Overhang to Prevent Material Contact with Rainwater.**



**Figure IV - 4.6 Door Skirts to Enclose the Trailer End of a Truck to Prevent Material Contact with Rainwater.**

**At Tanker Truck Transfer Areas to Above/Below-Ground Storage Tanks:**

- Pave the area on which the transfer takes place. If any transferred liquid, such as gasoline, is reactive with asphalt, pave the area with Portland cement concrete.
- Slope, berm, or dike the transfer area to a dead-end sump, spill containment sump, spill control oil/water separator, or other spill control device. The minimum spill retention time should be 15 minutes at the highest fuel dispenser nozzle through-put rate or the peak flow rate of the 6-month, 24-hour storm event over the surface of the containment pad, whichever is greater. The volume of the spill containment sump shall be a minimum of 50 gallons with an adequate grit sedimentation volume.

## A2.2 Fueling at Dedicated Stations

**Description of Pollutant Sources:** A fueling station is a facility dedicated to the transfer of fuels from a stationary pumping station to mobile vehicles or equipment. It includes above or under-ground fuel storage facilities. In addition to general service gas stations, fueling may also occur at 24-hour convenience stores, construction sites, warehouses, car washes, manufacturing establishments, port facilities, and businesses with fleet vehicles. Typical causes of stormwater contamination at fueling stations include leaks/spills of fuels, lube oils, radiator coolants, and vehicle washwater.

**Pollutant Control Approach:** New or substantially remodeled fueling stations must be constructed on an impervious concrete pad under a roof to keep out rainfall and stormwater run-on. Substantial remodeling includes replacing the canopy or relocating or adding one or more fuel dispensers in such a way that the Portland cement concrete (or equivalent) paving in the fueling area is modified. The facility must use a treatment BMP for contaminated stormwater and wastewaters in the fueling containment area.

*\* Substantial remodeling includes (but is not limited to) replacing the canopy, or relocating or adding one or more fuel dispensers in such a way that modifies the Portland cement concrete (or equivalent) paving in the fueling area.*

### Required BMPs

- Prepare an emergency spill response and cleanup plan (per BMP A7.15 Spills of Oil and Hazardous Substances).
- Have a designated trained person(s) available either on site or on call at all times to promptly and properly implement that plan and immediately cleanup all spills.
- Keep suitable cleanup materials, such as dry adsorbent materials, on site to allow prompt cleanup of a spill.
- Train employees on the proper use of fuel dispensers and on the spill plan. Post signs in accordance with Uniform Fire Code (UFC) or International Fire Code (IFC). For example, post “No Topping Off” signs (topping off gas tanks causes spillage and vents gas fumes to the air).
- Make sure that the automatic shut off on the fuel nozzle is functioning properly.
- The person conducting the fuel transfer must be present at the fueling pump during fuel transfer, particularly at unattended or self-serve stations.
- Refer to A2.5 In-Water and Over-Water Fueling for BMPs for in-water or over-water fueling operations.
- Keep drained oil filters in a suitable container or drum.

For new or substantially remodeled fueling stations:

- Design the fueling island to:
  - Minimize stormwater contamination.
  - Control spills (dead-end sum or spill control separator in compliance with the UFC or IFC).
  - Collect stormwater and/or wastewater and direct it to an appropriate treatment system.
- Slope the concrete containment pad around the fueling island toward drains: trench drains, catch basins, and/or a dead-end sump. The slope of the drains shall not be less than 1 percent.
- Drains from containment pads must have a normally closed shutoff valve. The valve may be opened to convey contaminated stormwater to oil removal treatment such as an API or CP oil/water separator, catch basin insert, or equivalent treatment, and then to a basic treatment BMP (as described in Volume I, 4.2 Step-by-Step Runoff Treatment BMP Selection Process) or to a sanitary sewer, if approved by the sewer authority. Discharges from treatment systems to storm sewer or surface water or to the ground must not display ongoing or recurring visible sheen and must not contain a significant amount of oil and grease.
- The spill control capacity must be sized in compliance with Section 7901.8 of the UFC. The spill control capacity may be acquired by either an underground system including a sump, or an above ground containment area consisting of a containment pad with berms.
- The fueling island may be designed as a spill containment pad with a sill or berm raised to a minimum of 4 inches (or in accordance with the applicable fire code) to prevent the runoff of spilled liquids and to prevent run-on of stormwater from the surrounding area. All stormwater collected on the containment pad must discharge to treatment with a normally closed valve downstream of the treatment.
- The fueling pad must be paved with Portland cement concrete, or equivalent. Asphalt is not considered an equivalent material.
- The fueling island must have a roof or canopy to prevent the direct entry of precipitation onto the spill containment pad (Figure IV - 4.7). The roof or canopy shall, at a minimum, cover the spill containment pad (within the grade break or fuel dispensing area) and preferably extend 3 feet on each side for roofs and canopies 10 feet or less in height and 5 feet on each side for roofs and canopies greater than 10 feet in height to reduce the introduction of

windblown rain. Measure the overhang relative to the berm or other hydraulic grade break for the spill containment pad.



**Figure IV - 4.7 Roof at Fueling Island to Prevent Stormwater Run-on.**

- Convey all roof drains to storm drains outside the fueling containment area.
- Convey stormwater collected on the fuel island containment pad to a sanitary sewer system, if approved by the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider; or to an approved treatment system such as an oil/water separator and a basic treatment BMP (basic treatment BMPs are listed in Volume V and include media filters and biofilters). Discharges from treatment systems to storm drains or surface water or to the ground must not display ongoing or recurring visible sheen and must not contain oil or grease.
- Alternatively, collect stormwater from the fuel island containment pad and hold for proper off-site disposal.
- Obtain approval from the LOTT Alliance Industrial Pretreatment Program or your local sewer service provider for conveyance of any fuel-contaminated stormwater to a sanitary sewer and comply with pretreatment regulations (WAC 173-216-060). These regulations prohibit discharges that could "cause fire or explosion." State and federal pretreatment regulations define an explosive or flammable mixture based on a flash point determination of the mixture. Stormwater could be conveyed to a sanitary sewer system if it is determined not to be explosive. Contact the LOTT Alliance at (360) 528-5708 or your local sewer service provider.

- Transfer the fuel from the delivery tank trucks to the fuel storage tank in impervious contained areas and ensure that appropriate overflow protection is used. Alternatively, cover nearby storm drains during the filling process and use drip pans under all hose connections.

**Additional BMP for Vehicles 10 Feet in Height or Greater:**

A roof or canopy may not be practicable at fueling stations that regularly fuel vehicles that are 10 feet in height or greater, particularly at industrial or WSDOT sites. At those types of fueling facilities, the following BMPs apply, as well as all of the other required BMPs and fire prevention requirements of this BMP for fueling stations.

- If a roof or canopy is impractical, the concrete fueling pad must be equipped with emergency spill control, including a shutoff valve for the drainage from the fueling area. Maintain the valve in the closed position. Clean up spills and dispose of materials off site in accordance with BMP A7.15 Spills of Oil and Hazardous Substances.
- The valve may be opened to convey contaminated stormwater to a sanitary sewer, if approved by the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider, or to oil removal treatment such as an American Petroleum Institute (API) or coalescent plate oil/water separator, or equivalent treatment, and then to a basic treatment BMP. See Volume V for more information. Discharges from treatment systems to storm drains or surface water or to the ground must not display ongoing or recurring visible sheen and must not contain oil or grease.

### **A2.3 Engine Repair and Maintenance**

**Description of Pollutant Sources:** This activity applies to businesses and public agencies where fuel filters, engine oil, and other fluids such as battery acid, coolants, and transmission and brake fluids are removed and replaced in vehicles and equipment. It also applies to mobile vehicle maintenance operations, such as at construction sites. Related vehicle maintenance activities are covered under the following activity headings in this volume, and other BMPs provided in this volume:

- A1.3 Washing, Pressure Washing, and Steam Cleaning of Vehicles/Equipment/Building Structures
- A2.1 Loading and Unloading Areas for Liquid or Solid Material
- A2.2 Fueling at Dedicated Stations
- A2.4 Mobile Fueling of Vehicles and Heavy Equipment
- A3.7 Painting, Finishing, and Coating of Vehicles, Boats, Buildings, and Equipment
- A4.1 Storage or Transfer (Outside) of Solid Raw Materials, By-Products, or Finished Products
- A4.7 Storage of Liquid, Food Waste, or Dangerous Waste Containers
- A4.8 Storage of Liquids in Permanent Aboveground Tanks
- A4.9 Parking and Storage for Vehicles and Equipment
- A7.15 Spills of Oil and Hazardous Substances

Pollutants of concern include toxic hydrocarbons, toxic organic compounds, oils and greases, pH, and heavy metals.

**Pollutant Control Approach:** Control of leaks and spills of fluids using good housekeeping and cover and containment BMPs.

#### **Required BMPs**

The following BMPs or equivalent measures are required of all businesses and agencies engaged in engine and vehicle repair:

- Employees must be educated about the need for careful handling of automotive fluids. Employees at businesses or agencies who routinely change or handle these fluids must be trained in spill response and cleanup procedures. Inspect all incoming vehicles, parts, and equipment stored temporarily outside for leaks.

- Remove batteries and liquids from vehicles and equipment in designated areas designed to prevent stormwater contamination. Store cracked batteries in a covered non-leaking secondary containment system.
- Empty fuel filters before disposal.
- Spill cleanup materials, such as rags and absorbent materials, must always be kept close at hand when changing oil and other fluids. You can comply more easily with sewer and stormwater requirements by running a 'dry shop', thereby reducing your consumption/discharge of liquids. Soiled rags and other cleanup material must be properly disposed of or cleaned and reused. Contact Thurston County Waste Management at (360) 867-2300 or your local solid waste hauler for proper disposal options.
- No drains inside maintenance buildings may connect to the sanitary sewer without prior written approval of your sewer service provider. Contact the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider. Interior drains will not be allowed to be connected to the stormwater drainage system.
- Do not hose down the maintenance/repair area. Instead, sweep the area weekly to collect dirt, and wipe up spills with rags and other absorbent materials.
- If the work is done at a mobile location, such as a construction site, a tarpaulin, ground cloth, or drip pans must be used beneath the vehicle or equipment to capture all spills and drips (Figure IV - 4.8). The collected drips and spills must be recycled or disposed of properly. See BMP S.2 in Chapter 5 for disposal options.



**Figure IV - 4.8 Drip Pan for Use at Mobile Sites.**

- If this activity occurs at a stationary business location, the activity area must be moved indoors. An exception to this requirement would be equipment that is too large to fit under a roofed area. In this case, the outdoor area must be paved, provided with a sump drain, and provision

made for stormwater run-on prevention. See BMP S.6 and S.7 in Chapter 5 for more on paving, sump drains and holding tanks, and run-on prevention. Contact the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider for information on requirements for disposal to sewer. If you are on a septic tank, sump contents will need to be pumped and disposed of by an oil recycler or hazardous waste company.

- Recycle oil, antifreeze, batteries, and air conditioning coolant.
- Contaminated stormwater runoff from vehicle staging and maintenance areas must be conveyed to an API or coalescing plate oil and water separator followed by a basic treatment BMP (see Volume V), applicable filter, or other equivalent oil treatment system.

### **Suggested BMPs**

- Drain all fluids from wrecked vehicles and 'parts' cars/equipment upon arrival. Recover air conditioning gases.
- Use reusable cloth rags to cleanup drips and small spills instead of disposables: these can be professionally laundered and reused. Do not attempt to launder these at home or at a coin-op laundry.
- Use absorbent pillows or booms in or around storm drains and catch basins to absorb oil and fuel.

## A2.4 Mobile Fueling of Vehicles and Heavy Equipment

**Description of Pollutant Sources:** Mobile fueling, also known as fleet fueling, wet fueling, or wet hosing, is the practice of filling fuel tanks of vehicles by tank trucks that are driven to the yards or sites where the vehicles to be fueled are located.

Historically mobile fueling has been conducted for off-road vehicles that are operated for extended periods of time in remote areas. This includes construction sites, logging operations, and farms. Mobile fueling of on-road vehicles is also conducted commercially in the State of Washington.

Note that some local fire departments may have restrictions on mobile fueling.

**Pollutant Control Approach:** Proper training of the fueling operator, and the use of spill/drip control and reliable fuel transfer equipment with backup shutoff valving are needed.

### Required BMPs

Organizations and individuals conducting mobile fueling operations must implement the following BMPs. The operating procedures for the driver/operator should be simple, clear, effective and their implementation verified by the organization that will potentially be liable for environmental and third party damage.

- Ensure that all mobile fueling operations are approved by the applicable Thurston County fire district or Fire Marshal and comply with applicable fire codes.
- In fueling locations that are in close proximity to sensitive aquifers, designated wetlands, wetland buffers, or other waters of the state, Thurston County acceptance is necessary to ensure compliance with additional local requirements.
- Ensure compliance with all 49 CFR 178 requirements for DOT 406 cargo tanker. Documentation from a U.S. Department of Transportation Registered Inspector shall be proof of compliance.
- Ensure the presence and the constant observation/monitoring by the driver/operator at the fuel transfer location at all times during fuel transfer and ensure that the following procedures are implemented at the fuel transfer locations:
  - Locating the point of fueling at least 25 feet from the nearest storm drain or inside an impervious containment with a volumetric holding capacity equal to or greater than 110 percent of the fueling tank volume, or covering the storm drain to ensure no inflow of spilled or leaked fuel. Covers are not required for storm drains that convey the inflow to a spill control separator approved by Thurston County,

- including the Thurston County Fire Marshal. Potential spill/leak conveyance surfaces must be impervious and in good repair.
- Place a drip pan or an absorbent pad under each fueling location prior to and during all dispensing operations. The pan (must be liquid tight) and the absorbent pad must have a capacity of at least 5 gallons. There is no need to report spills retained in the drip pan or the pad.
  - Manage the handling and operating of fuel transfer hoses and nozzle, drip pan(s), and absorbent pads as needed to prevent spills/leaks of fuel from reaching the ground, storm drains, and receiving waters.
  - Avoid extending the fueling hoses across a traffic lane without fluorescent traffic cones, or equivalent devices, conspicuously placed so that all traffic is blocked from crossing the fuel hose.
  - Remove the fill nozzle and cease filling the tank when the automatic shut-off valve engages. Do not lock automatic shutoff fueling nozzles in the open position.
  - Do not “top off” the fuel receiving equipment.
  - Provide the driver/operator of the fueling vehicle with:
    - Adequate flashlights or other mobile lighting to view fuel fill openings with poor accessibility. Consult with the Thurston County Fire Marshal for additional lighting requirements.
    - Two-way communication with his/her home base.
  - Train the driver/operator annually in spill prevention and cleanup measures and emergency procedures. Make all employees aware of the significant liability associated with fuel spills.
  - The responsible manager shall properly sign and date the fueling operating procedures. Distribute procedures to the operators, retain them in the organization files, and make them available in the event an authorized government agency requests a review.
  - Immediately notify the local fire district (or fire department) and the Ecology Southwest Regional Office in the event of any spill entering surface water or groundwater. Establish a “call down list” to ensure the rapid and proper notification of management and government officials should any significant amount of product be lost off site. Keep the list in a protected but readily accessible location in the mobile fueling truck. The “call down list” should also identify spill response contractors available in the area to ensure the rapid removal of significant product spillage into the environment.

- Maintain a minimum of the following spill cleanup materials in all fueling vehicles, that are readily available for use:
  - Non-water absorbents capable of absorbing at least 15 gallons of diesel fuel
  - A storm drain plug or cover kit
  - A non-water absorbent containment boom of a minimum 10 feet in length with a 12-gallon absorbent capacity (Figure IV - 4.9)
  - A non-spark generating shovel (a steel shovel could generate a spark and cause an explosion in the right environment around a spill)
  - Two, 5-gallon buckets with lids.



**Figure IV - 4.9 Spill Containment Boom.**

- Use automatic shutoff nozzles for dispensing the fuel. Replace automatic shut-off nozzles as recommended by the manufacturer.
- Maintain and replace equipment on fueling vehicles, particularly hoses and nozzles, at established intervals to prevent failures.
- Include the following fuel transfer site components:
  - Automatic fuel transfer shut-off nozzles; and
  - An adequate lighting system at the filling point.

## A2.5 In-Water and Over-Water Fueling

**Description of Pollutant Sources:** BMPs in this section apply to businesses and public agencies that operate a facility used for the transfer of fuels from a stationary pumping station to vehicles or equipment in water. This type of fueling station includes aboveground or underground fuel storage facilities, which may be permanent or temporary. Fueling stations include facilities such as, but not limited to, commercial gasoline stations, port facilities, marinas, private fleet fueling stations, and boatyards.

Typically, stormwater contamination at fueling stations is caused by leaks or spills of fuels, lubrication oils, and fuel additives. These materials contain organic compounds, oil and greases, and metals that can be harmful to humans and aquatic life.

Most fuel dock spills are small and result from overfilling boat fuel tanks, burps from air vent lines, and drips from the pump nozzle as it is being returned to the pump.

**Pollutant Control Approach:** Provide employees with proper training and use spill control devices to prevent the discharge of pollutants in the receiving water or the drainage system.

### Required BMPs for Fuel Docks

#### General

- Facilities and procedures for the loading or unloading of petroleum products must comply with U.S. Coast Guard requirements. Refer to specifications in Coast Guard Requirements for Marine Transfer of Petroleum Products.

### Training and Fueling Dock Supervision

- Train staff on proper fueling procedures. Document training and maintain records.
- Have a trained employee supervise the fuel dock during fueling activities.
- Do not allow self-service on a marina dock without some means of controlling the dock activity. According to NFPA 30A: Code for Motor Fuel Dispensing Facilities and Repair Garages, each facility must have an attendant on duty to supervise, observe, and “control” the operation when open for business. This can be done via camera, intercom, and shutoff abilities in the office. However, this can lead to complacency and nothing can replace having an attendant on the dock to attend to emergencies when they occur.(NFPA, 2012)

## Fueling Dock Setup, Maintenance, and Inspection

- Install a tank and leak detection monitoring system that shuts off the pump and fuel line when a leak is sensed.
- Install personal watercraft floats at fuel docks to stabilize personal watercraft/jet skis while refueling.
- Provide a spill containment equipment storage area where materials are easily accessible and clearly marked.
- Use automatic shut-off nozzles and promote the use of “whistles” and fuel/air separators on air vents or tank stems of inboard fuel tanks to reduce the amount of fuel spilled into receiving waters during fueling of boats.
- Post readable refueling directions, BMPs, and emergency protocols
- Always have a “Spills Aren’t Slick” sign with emergency spill reporting numbers clearly visible. Marinas on land leased from the Washington Department of Natural Resources (DNR) are required to post these signs.
- Display “No Smoking” signs on fuel docks.
- Create a regular inspection, maintenance, and replacement schedule for fuel hoses, pipes, and tanks. Have staff walk the dock fuel lines from dispenser to tank to look for signs of leakage at joints and determine hose condition from end to end.

## Fueling Practices

- Discourage operators from “topping off” (no more than 90% capacity). Fuel expands and can slosh out of the vent when temperatures rise or waters become choppy.
- When handing over the nozzle, wrap an absorbent pad around the nozzle end or plug inside the nozzle end to prevent fuel in the nozzle from spilling.
- Have the boat operator place an absorbent pad or suction cup bottle under the vent(s) to capture fuel spurts from the vent.
- Never block open the fuel nozzle trigger and always disable hands-free clips to ensure the boater remains with the nozzle to prevent overfilling. Hands-free clips are not allowed in Washington, per WAC 296-24-33015.
- Always keep the nozzle tip pointing up and hang the nozzle vertically when not in use.

- During fueling operations, visually monitor the liquid level indicator to prevent the tank from being overfilled.
- The maximum amount of product received must not exceed 95 percent capacity of the receiving tank.

### **Spill Cleanup**

- See Activity A7.15 for Spills of Oil and Hazardous Substances
- Manage petroleum-containment booms, pads, and absorbents in a designated collection container and properly dispose of these materials (see Activity A4.7 for Storage of Liquid or Dangerous Waste Containers).
- Ensure customers do not use soaps in the event of a spill. Use oil absorbent booms or pads instead.

### **Required BMPs for Fueling by Portable Container**

- Have boats fuel on shore or at a fuel dock rather than transport fuel from an upland facility to the boats. Only use hand-held fueling containers or “jerry cans” when necessary or when on shore or at dock fueling is not practical.
- Always refill portable fuel containers on the pavement or dock to ensure a good electrical ground. While the deck of the boat may seem stable, static electricity can build up and cause a spark.
- On the dock, put an absorbent pad under the container and wrap an absorbent pad around the fuel fill — this can easily be done by putting a hole in the pad.
- Ensure the nozzle stays in contact with the tank opening.
- When transferring fuel from a portable can, use a fuel siphon with a shut-off feature. If a siphon is not available, a nozzle/spout with a shut off is a good alternative.
- Since fueling boats with a portable container can take time, make sure the container is comfortable to carry, hold, and balance.
- Use a high flow funnel. Funnels can help prevent spills by making a larger opening for fueling.
- Place a plug of absorbent pad or paper towel in the nozzle when not in use to capture any extra drops that accumulate.

- Fuel slowly and pour deliberately and watch the container (especially the nozzle mechanism) for signs of wear.
- Store portable fuel tanks out of direct sunlight and keep in a cool, dry place to minimize condensation.

**Section A3**  
**Production and Application Activities**

### A3.1 Concrete and Asphalt Mixing and Production at Stationary Sites

**Description of Pollutant Sources:** This activity applies to businesses and agencies that mix raw materials on-site to produce concrete or asphalt. It also applies to subsequent uses such as pouring concrete structures and making other concrete or asphalt products. Mobile concrete pouring and asphalt application are covered under **Activity A3.2** in this section. Requirements for stockpiling of raw materials are covered under **Activity A4.1 Storage or Transfer (Outside) of Solid Raw Materials, By-products or Finished Products**.

Pollutants of concern include toxic hydrocarbons, toxic organic compounds, oils and greases, heavy metals, and pH.

**Pollutant Control Approach:** Cover and contain processes where possible and prevent stormwater run-on and contamination, where feasible.

Any facility categorized under SIC Code 2951 (asphalt paving mixtures and blocks) or SIC Code 3273 (ready-mix concrete) may need to comply with Ecology's sand and gravel general permit. Contact Ecology at (360) 407-6400 for additional information.

#### Required BMPs

The following BMPs or equivalent measures are required of all businesses and public agencies active in concrete and asphalt mixing and production:

- Eliminate all illicit connections to the stormwater drainage system. See BMP S.1 in Chapter 5 for a detailed discussion on identifying and eliminating these connections.
- All process water from production, pouring, and equipment cleaning must be discharged to a dead-end sump, process water treatment system, or sanitary sewer (subject to approval by the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider if outside of the LOTT service area), or recycled. Never wash fresh concrete or concrete mixer washout into streets, stormwater drainage systems, streams, other water bodies, or to groundwater.
- A BMP maintenance schedule must be established and employees educated about the need to prevent stormwater contamination through the use and proper maintenance of BMPs.

#### Suggested BMPs

- The production and pouring area should be swept at the end of each workday to collect loose chunks of aggregate and raw materials for recycling or proper disposal. See BMP S.2 in Chapter 5 for disposal options.

- Sweep all driveways and gutters that show accumulation of materials to minimize the amount that could be carried off site by rain and enter the stormwater drainage system.
- Asphalt plants should use an oil/water separator to treat stormwater runoff. See Volume V of this manual, Runoff Treatment BMPs, for more information.
- Production and pouring areas shall be protected from stormwater run-on. See BMP S.7 in Chapter 5 for methods of run-on protection.
- Use absorbent materials in and around storm drains and catch basins to filter out contaminants. See Volume V of this manual, Runoff Treatment BMPs, for more information.
- Pave the mixing, production, and pouring areas. A sump drain in these areas is probably not advisable due to potential clogging problems, but could be used in a curing area. Sweep these areas to remove loose aggregate and recycle or dispose of properly.
- Use storm drain covers or similarly effective containment devices to prevent runoff from entering the stormwater drainage system. Accumulations of dirty runoff must be disposed of properly.

Contact the Thurston County Storm and Surface Water Utility at (360) 754-4681 for information about water quality treatment BMPs for these types of operations. Visit Ecology's Web site for accepted water quality treatment at: <http://www.ecy.wa.gov/programs/wq/stormwater/index.html>.

The use of any treatment BMP must not result in the violation of groundwater or surface water quality standards.

### **A3.2 Concrete Pouring, Concrete Cutting, and Asphalt Application at Temporary Sites**

**Description of Pollutant Sources:** This activity applies to businesses and public agencies that apply asphalt or pour or cut concrete for building construction and remodeling, road construction, sidewalk, curb and gutter repairs and construction, sealing of driveways and roofs, and other applications. These activities are typically done on a temporary site-to-site basis where permanent BMP measures do not apply. Concrete pouring activities can severely alter the pH of receiving waters and slurry from aggregate washing can harden in storm pipes, reducing capacity and creating flooding problems. Concrete cutting uses water for cooling and the fine particulates suspended in the resulting slurry are particularly hard to treat.

Pollutants of concern include toxic hydrocarbons, toxic organic compounds, oils and greases, heavy metals, suspended solids, and pH.

**Pollutant Control Approach:** Train employees on proper procedures, sweep or shovel aggregate chunks, collect accumulated runoff and solids, and wash equipment in designated areas.

#### **Required BMPs**

The following BMPs or equivalent measures are required of all businesses and agencies doing concrete pouring and asphalt application at temporary sites:

- Employees must be educated on the pollution hazards of concrete and asphalt application and cutting.
- Loose aggregate chunks and dust must be swept or shoveled and collected (not hosed down a storm drain) for recycling or proper disposal at the end of each workday, especially at work sites such as streets, driveways, parking lots, sidewalks, curbs, and gutters where rain can readily pick up the loose material and carry it to the nearest stormwater conveyance. Small amounts of excess concrete, grout, and mortar can be disposed of in the trash.
- Storm drain covers or similarly effective containment devices must be placed over all nearby drains at the beginning of each day. Shovel or vacuum slurry and remove from the site. All accumulated runoff and solids must be collected and properly disposed of (see BMP S.2 in Chapter 5 for disposal options) at the end of each workday, or more often if necessary.
- Exposed aggregate washing (where the top layer of unhardened concrete is hosed or scraped off to leave a rough finish) must be done with a mechanism for containment and collection of the discarded concrete slurry.

- Cleaning of concrete application and mixing equipment or concrete vehicles must be done in a designated area where the rinse water is controlled and properly disposed. See Volume II, Section 3.1, BMP C154 for more information.

The use of any treatment BMP must not result in the violation of groundwater or surface water quality standards.

**Suggested BMPs**

- Avoid the activity when rain is occurring or expected.
- If possible, portable asphalt mixing equipment should be covered by an awning, a lean-to, or another simple structure to avoid contact with rain. See BMP S.4 in Chapter 5 for further details on cover structures.
- Recycle broken concrete and asphalt.

### **A3.3 Manufacturing and Postprocessing of Metal Products**

**Description of Pollutant Sources:** This activity applies to businesses such as mills, foundries, and fabricators that manufacture or postprocess metal products. A variety of activities such as machining, grinding, soldering, cutting, welding, quenching, etching, bending, coating, cooling, and rinsing may take place. These businesses may be required to obtain a NPDES permit from Ecology. See Chapter 7 for a discussion of NPDES requirements. Note: Painting, finishing and coating of metal products is covered under **A3.7 Painting, Finishing, and Coating of Vehicles, Boats, Buildings, and Equipment**.

Pollutants of concern include toxic organic compounds, heavy metals, oils and greases, pH, suspended solids, and chemical oxygen demand (COD).

**Pollutant Control Approach:** Cover and contain operations. Apply good housekeeping practices such as sweeping and preventative maintenance practices to prevent the contamination of stormwater. Avoid storing metals where they can be exposed to rain.

#### **Required BMPs**

The following BMPs or equivalent measures are required of all businesses engaged in metals manufacturing or post processing:

- Eliminate illicit connections to the stormwater drainage system. See BMP S.1 in Chapter 5 for detailed information on identifying and eliminating illicit connections.
- Process wastewater (including contact cooling water, filter backwash, cooling tower blow down, etc.) from processing and production, and stormwater runoff from activity areas, must discharge to a sanitary sewer, holding tank, or process treatment system. Such systems require an Ecology NPDES permit for discharge to surface water or storm drain. Contact the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider if outside the LOTT service area to obtain permits for discharge to the sewer. See BMP S.3 in Chapter 5 for detailed requirements.
- Employees must be educated in proper handling to control their work with metal products to minimize pollution.
- The activity area must be swept at the end of each workday to collect and dispose of metal fragments and product residues properly. See BMP S.2 in Chapter 5 for disposal alternatives. Do not allow metal fragments, residues, or dust to accumulate in areas exposed to stormwater.

#### **Suggested BMPs**

- Limit the amount of water used in quenching and rinsing. Recycle used water where possible.

- Cover the activity area to prevent rain from contacting the process and reduce the amount of runoff that has to be detained or treated. See BMP A3.9.
- Refer to the BMPs under sections A2 Transfer of Liquid or Solid Materials and A4 Storage and Stockpiling Activities, and utilize those BMPs which are applicable for materials storage and maintenance activities in your shop.

### A3.4 Wood Treatment Areas

**Description of Pollutant Sources:** Wood treatment includes both anti-staining and wood preserving using pressure processes or by dipping or spraying. Wood preservatives include creosote, creosote/coal tar, pentachlorophenol, copper naphthenate, arsenic trioxide, malathion, or inorganic arsenicals such as chromated copper arsenate, acid copper chromate, chromate zinc chloride, and fluor-chrome-arsenate-phenol. Anti-staining chemical additives include iodo-prophenyl-butyl carbamate, dimethyl sulfoxide, didecyl dimethyl ammonium chloride, sodium azide, 8-quinolinol, copper (II) chelate, sodium ortho-phenylphenate, 2-(thiocyanomethylthio)-benzothiazole (TCMTB) and methylene bis- (thiocyanate), and zinc naphthenate.

Pollutant sources include drips of condensate or preservative after pressurized treatment, product washwater (in the treatment or storage areas), spills and leaks from process equipment and preservative tanks, fugitive emissions from vapors in the process, blowouts and emergency pressure releases, and kick-back from lumber (phenomenon where preservative leaks as it returns to normal pressure). Potential pollutants typically include the wood treating chemicals, BOD, suspended solids, oil and grease, benzene, toluene, ethylbenzene, phenol, chlorophenols, nitrophenols, heavy metals, and PAH, depending on the chemical additive used.

**Pollutant Control Approach:** Cover and contain all wood treating areas and prevent all leaching of and stormwater contamination by wood treating chemicals. Wood treating facilities may be covered by the Industrial Stormwater General Permit or by an individual permit. Individual permits covering wood treatment areas include applicable source control BMPs or require the development of BMPs or a SWPPP. Facilities covered under the Industrial Stormwater General Permit must prepare and implement a SWPPP. When developing a SWPPP or BMPs, wood treating facilities should include the applicable source control BMPs listed below.

#### Required BMPs

- Use dedicated equipment for treatment activities to prevent the tracking of treatment chemicals to other areas on the site.
- Eliminate non-process traffic on the drip pad. Scrub down non-dedicated lift trucks on the drip pad.
- Immediately remove and properly dispose of soils with visible surface contamination (green soil) to prevent the spread of chemicals to groundwater and/or surface water via stormwater runoff.
- If incidental drippage is discovered in the storage yard, relocate the wood to a concrete chemical containment structure until it is drip free.
- Cover and/or enclose, and contain with impervious surfaces, all wood treatment areas. Slope and drain areas around dip tanks, spray booths, retorts, and any other process equipment in a manner that allows return of treatment chemicals to the wood treatment process.

- Cover storage areas for freshly treated wood to prevent contact of treated wood products with stormwater. Segregate clean stormwater from process water. Convey all process water to an approved treatment system.
- Seal any holes or cracks in the asphalt areas that are subject to wood treatment chemical contamination.
- Elevate stored, treated wood products to prevent contact with stormwater run-on and runoff.
- Place dipped lumber over the dip tank or on an inclined ramp for a minimum of 30 minutes to allow excess chemical to drip back to the dip tank.
- Place treated lumber from dip tanks or retorts in a covered paved storage area for at least 24 hours before placement in outside storage. Use a longer storage period during cold weather unless the temporary storage building is heated. Prior to moving wood outside, ensure that the wood is drip free and surface dry.

**Suggested BMP**

- Consider using preservative chemicals that do not adversely impact receiving surface water and groundwater.

### A3.5 Commercial Composting

**Description of Pollutant Sources:** Commercial compost facilities operating outside without cover require large areas to decompose wastes and other feedstocks. Design these facilities to separate stormwater from leachate (i.e., industrial wastewater) to the greatest extent possible. When stormwater contacts any active composting areas, including waste receiving and processing areas, it becomes leachate. Pollutants in leachate include nutrients, biochemical oxygen demand (BOD), organics, coliform bacteria, acidic pH, color, and suspended solids. Stormwater at a compost facility consists of runoff from areas at the facility that are not associated with active processing and curing, such as product storage areas, vehicle maintenance areas, and access roads.

**NPDES and State Solid Waste Permit Requirements:** Composting facilities are regulated under WAC 173-350-220. Solid Waste Regulations require the collection and containment of all leachate produced from activities at commercial composting facilities. Composting facilities that propose to discharge to surface water, municipal sewer system, or groundwater must obtain the appropriate permits. Zero discharge is possible by containing all leachate from the facility (in tanks or ponds) for use early in the composting process or preventing production of leachate (by composting under a roof or in an enclosed building).

The Thurston County Public Health and Social Services Department regulates solid waste facilities in accordance with WAC 173-304. The Public Health & Social Services Department should be contacted at (360) 867-2664 to obtain permits and requirements for composting and recycling facilities.

**Pollutant Control Approach:** Consider zero leachate discharge.

#### Required BMPs

- See WAC 173-350-220, Composting Facilities
- See *Siting and Operating Composting Facilities in Washington State: Good Management Practices* (Ecology, 2013) for common sense actions that a facility can adopt to help run a successful program. This document is available at:  
<https://fortress.wa.gov/ecy/publications/documents/1107005.pdf>
- See Ecology's Organic Materials Management page for the most up-to-date information: <https://ecology.wa.gov/Waste-Toxics/Reducing-recycling-waste/Organic-materials>.
- Contact other federal, state, and Thurston County agencies with environmental or zoning authority for applicable permit and regulatory information. The Thurston County Public Health and Social Services Department is responsible for issuing solid waste handling permits for commercial compost facilities.

- Apply for coverage under the Industrial Stormwater General Permit if the facility discharges stormwater to surface water or a municipal stormwater system. If all stormwater from the facility properly infiltrates to groundwater, the Industrial Stormwater General Permit is not required.
- There are some cases where an Individual State Waste discharge Permit is required. Check with the Ecology Southwest Regional Office and health department to discuss your permitting options.
- Screen incoming wastes for dangerous materials and solid waste. These materials may not be accepted for composting and must be properly disposed of per federal, state, and/or local requirements.
- Locate composting areas on impervious surfaces.
- Collect the leachate with a dike or berm, or with intercepting drains placed on the down slope side of the compost area.
- Convey all leachate from composting operations to a sanitary sewer, holding tank, or on-site treatment system. Leachate may not go to the storm drain or groundwater. Contact the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local service provider for permits and information.
- Direct outside runoff away from the composting areas.
- Cleanup debris from yard areas as needed to prevent stormwater contamination.

### **Suggested BMPs**

- Install catch basin inserts to collect excess sediment and debris if necessary. Inspect and maintain catch basin inserts to ensure they are working correctly.
- Locate stored residues in areas designed to collect leachate.
- Limit storage times of residues to prevent degradation and generation of leachate.

### A3.6 Landscaping and Lawn/Vegetation Management

**Description of Pollutant Sources:** Landscaping can include grading, soil transfer, vegetation planting, and vegetation removal. Examples include weed control on golf course lawns, access roads, and utility corridors and during landscaping; and residential lawn/plant care. Proper management of vegetation can minimize excess nutrients and pesticides.

**Pollutant Control Approach:** Maintain appropriate vegetation to control erosion and discharge of stormwater pollutants. Prevent debris contamination of stormwater. Where practicable, grow plant species appropriate for the site, or adjust the soil properties of the site to grow desired plant species.

#### Required BMPs

- Install engineered soil/landscape systems to improve the infiltration and regulation of stormwater in landscaped areas.
- Select the right plants for the planting location based on proposed use, available maintenance, soil conditions, sun exposure, water availability, height, sight factors, and space available.
- Ensure that plants selected for planting are not on the noxious weed list. For example, butterfly bush often gets planted as an ornamental but is actually on the noxious weed list.

The Washington State Noxious Weed List can be found at the following webpage: <https://www.nwcb.wa.gov/printable-noxious-weed-list>

- Do not dispose of grass clippings and other collected vegetation into waterways or stormwater drainage systems.
- Do not blow vegetation or other debris into the drainage system.
- Dispose of collected vegetation such as grass clippings, leaves, sticks by composting or recycling.
- Remove, bag, and dispose of noxious weeds in the garbage immediately.
- Do not compost noxious weeds as it may lead to spreading through seed or fragment if the composting process is not hot enough.
- Use manual and/or mechanical methods of vegetation removal (pincer-type weeding tools, flame weeders, or hot water weeders as appropriate) rather than applying herbicides, where practical.
- Use at least an eight-inch “topsoil” layer with at least 8 percent organic matter to provide a sufficient vegetation-growing medium.
  - Organic matter is the least water-soluble form of nutrients that can be added to the soil. Composed organic matter generally releases

only between 2 and 10 percent of its total nitrogen annually, and this release corresponds closely to the plant growth cycle. Return natural plant debris and mulch to the soil, to continue recycling nutrients indefinitely.

- Select the appropriate turfgrass mixture for the climate and soil type.
  - Certain tall fescues and rye grasses resist insect attack because the symbiotic endophytic fungi naturally in their tissues repel or kill common leaf and stem-eating lawn insects.
    - The fungus causes no known adverse effects to the host plant or to humans.
    - Tall fescues and rye grasses do not repel root-feeding lawn pests such as Crane Fly larvae.
    - Tall fescues and rye grasses are toxic to ruminants such as cattle and sheep.
  - Endophytic grasses are commercially available; use them in areas such as parks or golf courses where grazing does not occur.
  - Local agricultural or gardening resources such as Washington State University Extension office can offer advice on which types of grass are best suited to the area and soil type.
- Use the following seeding and planting BMPs, or equivalent BMPs, to obtain information on grass mixtures, temporary and permanent seeding procedures, maintenance of a recently planted area, and fertilizer application rates: BMP C120: Temporary and Permanent Seeding, BMP C121: Mulching, BMP C123: Plastic Covering, and BMP C124: Sodding.
- Adjusting the soil properties of the subject site can assist in selection of desired plant species. Consult a soil restoration specialist for site-specific conditions.

### **Suggested BMPs**

- Conduct mulch-mowing whenever practicable.
- Use native plants in landscaping. Native plants do not require extensive fertilizer or pesticide applications. Native plants may also require less watering.
- Use mulch or other erosion control measures on soils exposed for more than one week during the dry season (May 1 to September 30) or two days during the rainy season (October 1 to April 30).

- Till a topsoil mix or composted organic material into the soil to create a well-mixed transition layer that encourages deeper root systems and drought-resistant plants.
- Apply an annual topdressing application of 3/8" compost. Amending existing landscapes and turf systems by increasing the percent organic matter and depth of topsoil can:
  - Substantially improve the permeability of the soil.
  - Increase the disease and drought resistance of the vegetation.
  - Reduces the demand for fertilizers and pesticides.
- Disinfect gardening tools after pruning diseased plants to prevent the spread of disease.
- Prune trees in a manner appropriate for each species.
- If specific plants have a high mortality rate, assess the cause and replace with another more appropriate species.
- When working around and below mature trees, follow the most current American National Standards Institute (ANSI) ANSI A300 standards and International Society of Arboriculture BMPs to the extent practicable (e.g., take care to minimize any damage to tree roots and avoid compaction of soil).
- Monitor tree support systems (stakes, guys, etc.).
  - Repair and adjust as needed to provide support and prevent tree damage.
  - Remove tree supports after one growing season or maximum of 1 year.
  - Backfill stake holes after removal.
- When continued, regular pruning (more than one time during the growing season) is required to maintain visual sight lines for safety or clearance along a walk or drive, consider relocating the plant to a more appropriate location.
- Make reasonable attempts to remove and dispose of class C noxious weeds.
- Re-seed bare turf areas until the vegetation fully covers the ground surface.
- Watch for and respond to new occurrences of especially aggressive weeds such as Himalayan blackberry, Japanese knotweed, morning glory, English ivy, and reed canary grass to avoid invasions.

- Plant and protect tree per BMP LID.14: Tree Planting and Tree Retention.
- Aerate lawns regularly in areas of heavy use, where the soil tends to become compacted. Conduct aeration while the grasses in the lawn are growing most vigorously. Remove layers of thatch greater than 0.75 inches deep.
- Set the mowing height at the highest acceptable level and mow at times and intervals designed to minimize stress on the turf. Generally, mowing only one-third of the grass blade height will prevent stressing the turf.
  - Mowing is a stress-creating activity for turfgrass.
  - Grass decreases its productivity when mown too short and there is less growth of roots and rhizomes. The turf becomes less tolerant of environmental stresses, more disease prone, and more reliant on outside means such as pesticides, fertilizers, and irrigation to remain healthy.

### **A3.7 Painting, Finishing, and Coating of Vehicles, Boats, Buildings, and Equipment**

**Description of Pollutant Sources:** Surface preparation and the application of paints, finishes, and/or coatings to vehicles, boats, buildings, and/or equipment outdoors can be sources of pollutants. Potential pollutants include organic compounds, oils and greases, heavy metals, and suspended solids.

**Pollutant Control Approach:** Cover and contain painting and sanding operations and apply good housekeeping and preventive maintenance practices to prevent the contamination of stormwater with painting over sprays and grit from sanding.

#### **Required BMPs**

- Train employees in the careful application of paints, finishes, and coatings to reduce misuse and overspray. Use ground or drop cloths underneath outdoor painting, scraping, sandblasting work, and properly clean and temporarily store collected debris daily.
- Do not conduct spraying, blasting, or sanding activities over open water or where wind may blow paint or waste into water.
- Wipe up spills with rags and other absorbent materials immediately. Do not hose down the area to a storm drain, conveyance ditch, or to a receiving water.
- On dock areas, sweep rather than hose down debris. Collect any hose water generated and convey to appropriate treatment and disposal.
- Use an effective runoff control device if dust, grit, washwater, or other pollutants may escape the work area and enter a catch basin. The containment device(s) must be in place at the beginning of the workday. Collect contaminated runoff and solids and properly dispose of such wastes before removing the containment device(s) at the end of the workday.
- Use a ground cloth, pail, drum, drip pan, tarpaulin, or other protective device for activities such as outdoor paint mixing and tool cleaning or where spills can contaminate stormwater.
- Properly dispose of all wastes and prevent all uncontrolled releases to the air, ground, or water.
- Clean brushes and tools covered with non-water-based paints, finishes, or other materials in a manner that allows collection of used solvents, turpentine, or paint thinners for recycling or proper disposal.
- Store toxic materials under cover (tarpaulin, etc.) during precipitation events and when not in use to prevent contact with stormwater.

- Enclose or contain all work while using a spray gun or conducting sand blasting and in compliance with applicable Olympic Region Clean Air Agency (ORCAA), Occupational Safety and Health Administration (OSHA), and Washington Industrial Safety and Health Act (WISHA) requirements. Do not conduct outside spraying, grit blasting, or sanding activities during windy conditions that render containment ineffective.

**Suggested BMPs**

- Recycle paint, paint thinner, solvents, pressure washwater, and any other recyclable materials.
- Use efficient spray equipment such as electrostatic, air-atomized, high volume/low pressure, or gravity feed spray equipment.
- Purchase recycled paints, paint thinner, solvents, and other products, if feasible.

### A3.8 Commercial Printing Operations

**Description of Pollutant Sources:** Materials used in the printing process include inorganic and organic acids, resins, solvents, polyester film, developers, alcohol, vinyl lacquer, dyes, acetates, and polymers. Waste products may include waste inks and ink sludge, resins, photographic chemicals, solvents, acid and alkaline solutions, chlorides, chromium, zinc, lead, spent formaldehyde, silver, plasticizers, and used lubricating oils. With indoor printing operations, the only likely points of potential contact with stormwater are the outside temporary waste material storage area and area where chemicals are offloaded at external unloading bays. Pollutants can include total suspended solids, pH, heavy metals, oil and grease, and COD.

**Pollutant Control Approach:** Ensure appropriate disposal and NPDES permitting of process wastes. Cover and contain stored raw and waste materials.

#### Required BMPs

- Discharge process wastewaters to a sanitary sewer (if approved by LOTT Alliance Industrial Pretreatment Program (360) 528-5708 or your local sewer service provider) or to an approved process wastewater treatment system.
- Do not discharge process wastes or wastewaters into storm drains or surface water.
- Determine whether any of these wastes qualify for regulation as dangerous wastes and dispose of them accordingly.
- Store raw materials or waste materials that could contaminate stormwater in covered and contained areas.
- Train all employees in pollution prevention, spill response, and environmentally acceptable materials handling procedures.
- Store materials in proper, appropriately labeled containers. Identify and label all chemical substances.
- Regularly inspect all stormwater management devices and maintain as necessary per DDECM standards.
- Try to use press washes without listed solvents, and with the lowest VOC content possible. Don't evaporate ink cleanup trays to the outside atmosphere.
- Place cleanup sludges into a container with a tight lid and dispose of as dangerous waste. Do not dispose of cleanup sludges in the garbage or in containers of soiled towels.

For additional information on pollution prevention the following Ecology recommends *Environmental Management and Pollution Prevention: A Guide for Lithographic Printers*, publication No. 94-139R.

### A3.9 Manufacturing Operations (Outside)

**Description of Pollutant Sources:** Manufacturing pollutant sources include outside process areas, stack emissions, and areas where manufacturing activity has taken place in the past and significant pollutant materials remain.

**Pollution Control Approach:** Cover and contain outside manufacturing and prevent stormwater run-on and contamination, where feasible.

#### Required BMPs

- Sweep paved areas regularly, as needed, to prevent contamination of stormwater. Do not wash down areas into storm drains.
- Eliminate or minimize the contamination of stormwater by altering the activity.
- Enclose the activity (Figure IV - 4.10). If possible, enclose the manufacturing activity in a building.



(Photo courtesy of Mark Dilley, Interstate Products, Inc.)

#### Figure IV - 4.10 Commercially Available Bermed Workspace.

- Cover the activity and connect floor drains to a sanitary sewer (Figure IV - 4.11), if approved by LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider if outside of the LOTT service area. Berm or slope the floor as needed to prevent drainage of pollutants to outside areas.
- Isolate and segregate pollutants, as feasible. Convey the segregated pollutants to a sanitary sewer, process treatment, or dead-end sump, depending on available methods and applicable permit requirements.



(Photo courtesy of Seattle Public Utilities)

**Figure IV - 4.11 Structure Used to Cover Manufacturing Operations.**

### A3.10 Agricultural Crop Production

This activity applies to farming of crops on a commercial scale. Crop farming practices can cause a large variety of pollution problems in receiving waters. Many of these practices can be altered without adversely affecting the farmers' ability to produce the same crops.

One of the most effective BMPs for stormwater pollution prevention the farmer can pursue is education. Contact the Thurston County Conservation District at (360) 754-3588. They will help develop a farm plan that covers all aspects of the farming operation, with particular care and attention to soil conservation and water resource protection. Conservation tillage and many other measures can help save money. The agencies also have access to grants to pay for conservation plantings and stream corridor fencing.

**Pollutants of Concern:** Toxic organic compounds, oils, heavy metals, nutrients, Oxygen demanding substances (i.e., BOD and COD), suspended solids (e.g., sediments), fecal bacteria.

Crop farms should implement agricultural practices proven to limit erosion. Several farming techniques aimed at reducing erosion have been proven successful. Individual farms should implement the combination of the following BMPs that best suits conditions present:

#### Suggested BMPs

- Maintain ground cover. Cover bare areas with material such as mulch or green manure (cover crops) during times when land is not in production.
- Practice conservation tillage. Implement tillage or planting systems in which at least 30 percent of the soil surface is covered by plant residue after planting.
- Practice conservation cover. Establish and maintain perennial vegetation cover to protect soil and water resources on land retired from agricultural production.
- Utilize contour farming. Plow, prepare, plant and cultivate land on contours perpendicular to the slope of the land in a terrace-like fashion, so that runoff cannot proceed directly along a row but rather is impeded by rows in its path, thus allowing for more infiltration and hindering erosion.
- Plant critical areas. Plant vegetation such as trees, shrubs, vines, grasses, and legumes on highly erodible or critical areas to stabilize the soil.
- Plant and maintain vegetated buffers and filter strips. Maintain a strip of permanent vegetation downslope of crop fields so that sediments and associated pollutants in surface water runoff can be filtered out. These filter strips are especially important along stream banks, shorelines, and

drainage ditches. Contact the Thurston County Conservation District at (360) 754-3588 and the Natural Resources Conservation Service at (360) 704-7740 for more information. In some instances, these organizations may be able to provide plant materials for such work free or for a low cost.

- Practice conservation irrigation. Replace flood irrigation systems with sprinkler head or drip irrigation systems that use less water. These irrigation methods reduce the amount of crop field runoff and thereby reduce erosion and pollutant transport.

Some other suggested BMPs to consider for your farm include the following:

- Use an IPM plan and reduce reliance on pesticides. Information on integrated pest management is available from the Washington State University/Thurston County Cooperative Extension Service. BMP S.8 in Chapter 5 provides some details on integrated pest management and in Appendix IV-B for an example. See Activity 3.6 for information on BMPs for pesticide and fertilizer use.
- If possible, fertilized crops should be planted as far as possible from surface drainages. This will help keep nutrients out of water bodies.
- Contact the Natural Resources Conservation Service (formerly the Soil Conservation Service) at (360) 704-7740 for information on developing specific fertilization schedules. Applying fertilizers at the right time and in the right quantity can help minimize pollution.
- If possible, crop cultivation should be avoided on steep slopes.

### **A3.11 Pesticides and an Integrated Pest Management Program**

**Description of Pollutant Sources:** Pesticides include herbicides, rodenticides, insecticides, fungicides, etc. Examples of pesticide use include:

- Weed control on golf course lawns, access roads, utility corridors and landscaping.
- Sap stain and insect control on lumber and logs.
- Rooftop moss removal.
- Killing nuisance rodents.
- Fungicide application to patio decks.

**Pollutant Control Approach:** Control of pesticide applications to prevent contamination of stormwater. Develop and implement an Integrated Pest Management (IPM) Plan and use pesticides only as a last resort. Carefully apply pesticides/herbicides in accordance with label requirements.

#### **Required BMPs**

- Do not apply pesticides in quantities that exceed the limits on the product the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA label). Avoid excessive application of chemical.
- Follow the manufacturers' guidelines and label requirements carefully.
- Conduct spray applications during weather conditions as specified in the label requirements and applicable local and state regulations. Never apply pesticides, herbicides, fungicides or rodenticides when rain is expected, or during rain events (unless the label directs such timing).
- Clean up any spilled pesticides immediately. Do not hose down to a storm drain, conveyance ditch, or water body.
- Remove weeds/vegetation in stormwater ditches, stormwater facilities, and drainage systems by hand or other mechanical means and only use pesticides as a last resort.
- Flag all sensitive areas including wells, creeks, and wetlands prior to spraying.
- Post notices and delineate the spray areas prior to the application, as required by Thurston County, or by Ecology.
- Refer to A3.6 Landscaping and Lawn/Vegetation Management and use pesticides only as a last resort.

- Conduct any pest control activity at the life stage when the pest is most vulnerable. For example, if it is necessary to use a *Bacillus thuringiensis* application to control tent caterpillars, apply it to the material before the caterpillars cocoon or it will be ineffective. Any method used should be site-specific and not used wholesale over a wide area.
- Train employees on proper application of pesticides and disposal practices.
- Mix pesticides and clean the application equipment under cover in an area where accidental spills will not enter surface or groundwaters, and will not contaminate the soil.
- The pesticide application equipment must be capable of immediate shutoff in the event of an emergency.
- Implement a pesticide-use plan and include at a minimum:
  - A list of selected pesticides and their specific uses.
  - Brands and formulations of the pesticide.
  - Application methods and quantities to be used.
  - Safety, storage, and disposal methods.
  - Monitoring, record keeping, and public notices procedures. All procedures shall conform to the requirements of Chapter 17.21 RCW and Chapter 16-228 WAC.

Develop and implement an Integrated Pest Management (IPM) program if pests are present. The following steps are adapted from (Daar, 1992)

- **Step One:** Correctly identify problem pests and understand their life cycle.
  - Learn more about the pest.
  - Observe it and pay attention to any damage that may be occurring.
  - Learn about the life cycle.
  - Many pests are only a problem during certain seasons, or can only be treated effectively in certain phases of the life cycle.
- **Step Two:** Establish tolerance thresholds for pests.
  - Decide on the level of infestation that must be exceeded before treatment needs to be considered. Pest populations under this threshold should be monitored but don't need treatment.

- **Step Three:** Monitor to detect and prevent pest problems.
  - Monitor regularly to anticipate and prevent major pest outbreaks.
  - Conduct a visual evaluation of the lawn or landscape's condition. Take a few minutes before mowing to walk around and look for problems.
  - Keep a notebook, record when and where a problem occurs, then monitor for it at about the same time in future years.
  - Specific monitoring techniques can be used in the appropriate season for some potential problem pests, such as European crane fly.
- **Step Four:** Modify the maintenance program to promote healthy plants and discourage pests.
  - Review your landscape maintenance practices to see if they can be modified to prevent or reduce the problem.
  - A healthy landscape is resistant to most pest problems. Law aeration and overseeding along with proper mowing height, fertilization, and irrigation will help the grass out-compete the weeds.
  - Correcting drainage problems and letting soil dry out between watering in the summer may reduce the number of crane fly larvae that survive.
- **Step Five:** If pests exceed the tolerance thresholds:
  - Consider the most effective management options with reducing impacts to the environment. This may mean chemical pesticides are the best option in some circumstances.
  - Consider the use of physical, mechanical, or biological controls.
  - Study to determine what products are available and choose a product that is the least toxic and has the least non-target impact.
- **Step Six:** Evaluate and record the effectiveness of the control, and modify maintenance practices to support lawn or landscape recovery and prevent recurrence.
  - Keep records!
  - Note when, where, and what symptoms occurred, or when monitoring revealed a potential pest problem.

- Note what controls were applied and when, and the effectiveness of the control.
- Monitor next year for the same problem.

### Suggested BMPs

- Choose the least toxic pesticide available that is capable of reducing the infestation to acceptable levels. The pesticide should readily degrade in the environment and/or have properties that strongly bind it to the soil.
- Choose pesticides categorized by EPA as reduced risk. For example, the herbicide imazamox.
- When possible, apply pesticides during the dry season so that the pesticide residue is degraded prior to the next rain event.
- If possible, do not spray pesticides within 100 feet of water bodies. Spraying pesticides within 100 feet of water bodies including any drainage ditch or channel that leads to open water may have additional regulatory requirements beyond just following the pesticide product label. Additional requirements may include:
  - Obtaining a discharge permit from Ecology.
  - Obtaining a permit from Thurston County.
  - Using an aquatic labeled pesticide and adjuvant.
- Use manual pest control measures, such as scraping or using high-pressure sprayers to remove moss from roofs and decks, before resorting to chemicals. Rodent traps can also be highly effective, without endangering pets and children as chemical baits can.
- Consider alternative to the use of pesticides such as covering or harvesting weeds, substitute vegetative growth, and manual weed control/moss removal.
- Consider the use of soil amendments, such as compost, that are known to control some common diseases in plants, such as Pythium root rot, ash stem blight, and parasitic nematodes.
- Once a pesticide is applied, evaluate its effectiveness for possible improvement. Records should be kept showing the effectiveness of the pesticides applied.
- Follow the FIFRA label requirements for disposal. If the FIFRA label does not have disposal requirements the rinseate from equipment cleaning

and/or triple-rinsing of pesticide containers should be used as product or recycled into product.

- Develop an adaptive management plan and annual evaluation procedure including: (adapted from (Daar, 1992))
  - A review of the effectiveness of pesticide applications.
  - Impact on buffers and sensitive areas, including potable wells. If individual or public potable wells are located in the proximity of commercial pesticide applications, contact the regional Ecology hydrogeologist to determine if additional pesticide application control measures are necessary.
  - Public concerns.
  - Recent toxicological information on pesticides use/proposed for use.

For more information, refer to the Pesticide Information Center Online (PICOL) Database at <https://picol.cahnr.wsu.edu/>.

For more information on Thurston County's IPM policy, visit the County web site at: <https://www.co.thurston.wa.us/health/ehipm/index.html>.

Washington pesticide law requires most businesses that commercially apply pesticides to property of another to be licensed as a Commercial Applicator from the Washington State Department of Agriculture.

### **A3.12 Nurseries and Greenhouses**

**Description of Pollutant Sources:** These BMPs are for use by commercial container plant, greenhouse grown, and cut foliage production operations. Common practices at nurseries and greenhouses can cause elevated levels of phosphorus, nitrogen, sediment, bacteria, and organic material which can contribute to the degradation of water quality.

**Pollutant Control Approach:** Minimize the pollutants that leave the site by controlling the placement of materials, stabilizing the site, and managing irrigation water.

## Required BMPs

- Establish nursery composting areas, soil storage, and mixing areas at least 100 feet away from any stream or other surface water body and as far away as possible from drainage systems.
- Do not dispose of collected vegetation or other debris into the drainage system.
- Do not blow, sweep, or otherwise allow vegetation or other debris into the drainage system.
- Regularly cleanup spilled potting soil to prevent its movement, especially if fertilizers and pesticides are incorporated. (Haver, 2014)
- Use soil mixing and layering techniques with composted organic material to reduce herbicide use and watering.
- Utilize soil incorporated with fertilizers and/or pesticides immediately; do not store for extended periods. (Haver, 2014)
- Cover soil storage and compost storage piles. Refer to Activity A4.1 for Storage or Transfer of Solid Raw Materials, Byproducts, or Finished Products.
- Dispose of pathogen-laced potting substrate and diseased plants appropriately.
- Place plants on gravel, geotextile, or weed cloth to allow infiltration and minimize erosion, including inside greenhouse structures. (Haver, 2014)
- Properly reuse, recycle, or dispose of used polyfilm, containers, and other plastic-based products so that they do not collect stormwater. (FDACS, 2014)
- Evaluate and manage irrigation to reduce runoff, sediment transport, and erosion:
  - Place irrigation inputs to keep moisture primarily in the plant's root zone. This will significantly reduce nutrient related impacts from fertilizers. (FDACS, 2014)
  - Avoid over-irrigating. This may exceed the soil's water-holding capacity and lead to runoff or leaching. (FDACS, 2014)
  - Consider and adjust as needed the uniformity of application, the amount of water retained within the potting substrate, and the amount of water that enters containers compared to that which

- exits the containers and/or falls between containers. (FDACS, 2014)
- Consolidate containers and turn off irrigation in areas not in production. This may require individual on/off valves at each sprinkler head. (Haver, 2014)
  - Based on the stage of plant growth, space containers and flats as close as possible to minimize the amount of irrigation water that falls between containers. (FDACS, 2014)
  - Group plants of similar irrigation needs together.
  - Consider minimizing water losses by using cyclic irrigation (multiple applications of small amounts). (FDACS, 2014)
  - Consider using sub-irrigation systems (e.g., capillary mat, ebb-and-flow benches, and trays or benches with liners); these systems can conserve water and reduce nutrient loss, particularly when nutrients are supplied in irrigation water that is reused. (FDACS, 2014)
  - Refer to A3.13 Irrigation for additional BMP considerations.
- Refer to A3.14 Fertilizer Application and A3.11 Pesticides and an Integrated Pest management Program.
  - Use windbreaks or other means (e.g., pot in pot) to minimize plant blow over. (FDACS, 2014)
  - Cover potting areas with a permanent structure to minimize movement of loose soil. Use a temporary structure if a permanent structure is not feasible. (Haver, 2014)
  - Control runoff from central potting locations that have a watering station used to irrigate plants immediately after potting. Either:
    - Collect runoff in a small basin and reuse the runoff.
    - Or, route runoff through an on-site vegetative treatment area.
    - Or, use a graveled area and allow runoff to infiltrate.
  - Surround soil storage and compost storage areas with a berm or wattles.
  - Utilize a synthetic (geotextile) groundcover material to stabilize disturbed areas and prevent erosion in areas where vegetative cover is not an option. (FDACS, 2014)

- In areas with a large amount of foot traffic, use appropriate aggregate such as rock and gravel for stabilization. (FDACS, 2014)
- Store potting substrate that contains fertilizer in a dedicated area with an impermeable base. If the storage area is not under a roof to protect it from rainfall, manage runoff by directing it to a stormwater treatment area. (FDACS, 2014)

### **A3.13          Irrigation**

**Description of Pollutant Sources:** Irrigation consists of discharges from irrigation water lines, landscape irrigation, and lawn or garden watering. Excessive watering can lead to discharges of chlorinated potable water runoff into drainage systems; it can also cause erosion; and negatively affect plant health. Improper irrigation can encourage pest problems, leach nutrients, and make a lawn completely dependent on artificial watering. Mosquito breeding habitats may form through excessive watering.

**Pollutant Control Approach:** Limit the amount and location of watering to prevent runoff and discharges to drainage systems.

#### **Required BMPs**

- Irrigate with the minimum amount of water needed. Never water at rates that exceed the infiltration rate of the soil.
- Maintain all irrigation systems so that irrigation water is applied evenly and where it is needed.
- Ensure sprinkler systems do not overspray vegetated areas resulting in excess water discharging into the drainage system.
- Inspect irrigated areas for excess watering. Adjust watering times and schedules to ensure that the appropriate amount of water is being used to minimize runoff. Consider factors such as soil structure, grade, time of year, and type of plant material in determining the proper amounts of water for a specific area.
- Inspect irrigated areas regularly for signs of erosion and/or discharge.
- Place sprinkler systems appropriately so that water is not being sprayed on impervious surfaces instead of vegetation.
- Repair broken or leaking sprinkler nozzles as soon as possible.
- Appropriately irrigate lawns based on the species planted, the available water holding capacity of the soil, and the efficiency of the irrigation system.

- The depth from which a plant normally extracts water depends on the rooting depth of the plant. Appropriately irrigated lawn grasses normally root in the top 6 to 12 inches of soil; lawns irrigated on a daily basis often root only in the top 1 inch of soil.
- Do not irrigate plants during or immediately after fertilizer application. The longer the period between fertilizer application and irrigation, the less fertilizer runoff occurs.
- Do not irrigate plants during or immediately after pesticide application (unless the pesticide label directs such timing).
- Reduce frequency and/or intensity of watering as appropriate for the wet season (October 1 to April 30).
- Place irrigation systems to ensure that plants receive water where they need it. For example, do not place irrigation systems downgradient of plant's root zones on hillsides.

### **Suggested BMPs**

- Add a tree bag or slow-release watering device (e.g., bucket with a perforated bottom) for watering newly installed trees when irrigation system is not present.
- Water deeply, but infrequently, so that the top 6 to 12 inches of the root zone is moist.
- Use soaker hoses or spot water with a shower type wand when an irrigation system is not present.
  - Pulse water to enhance soil absorption, when feasible.
  - Pre-moisten soil to break surface tension of dry or hydrophobic soils/mulch, followed by several more passes. With this method, each pass increases soil absorption and allows more water to infiltrate prior to runoff.
- Identify trigger mechanisms for drought-stress (e.g., leaf wilt, leaf senescence, etc.) of different species and water immediately after initial signs of stress appear.
- Water during drought conditions or more often if necessary to maintain plant cover.
- Adjust irrigation frequency/intensity as appropriate after plant establishment.
- Annually inspect irrigation systems to ensure:

- That there are no blockages of sprayer nozzles.
- Sprayer nozzles are rotating as appropriate.
- Sprayer systems are still aligned with the plant locations and root zones.
- Consult with the Thurston County Conservation District, or the Washington State University Thurston County Extension to help determine optimum irrigation practices.
- Do not use chemigation and fertigation in irrigation systems. This will help avoid over application of pesticides and fertilizers.

### **A3.14 Fertilizer Application**

**Description of Pollutant Source:** Poor application of fertilizer can cause appreciable stormwater contamination. Fertilizers can leach phosphorous, nitrogen, and coliform bacteria. Fertilizers can contribute to algae blooms, increase nutrient concentrations, and deplete oxygen in receiving waters.

**Pollutant Control Approach:** Minimize the amount of fertilizer necessary to maintain vegetation. Control the application of fertilizer to prevent the discharge of stormwater pollution.

#### **Required BMPs**

- Apply the minimum amount of slow-release fertilizer necessary to achieve successful plant establishment.
- Do not fertilize when the soil is dry or during a drought.
- Never apply fertilizers if it is raining or about to rain.
- Do not apply fertilizers within three days prior to predicted rainfall. The longer the period between fertilizer application and either rainfall or irrigation, the less fertilizer runoff occurs.
- Determine the proper fertilizer application for the types of soil and vegetation involved.
- Follow manufacturers' recommendations and label directions.
- Train employees on the proper use and application of fertilizers.
- Keep fertilizer granules off impervious surfaces. Clean up spills immediately. Do not hose down to a storm drain, conveyance ditch, or water body.

- If possible, do not fertilize areas within 100 feet of water bodies including wetlands, ponds, and streams.
- Avoid fertilizer applications in stormwater ditches, stormwater facilities, and drainage systems.
- In areas that drain to sensitive water bodies, apply no fertilizer at commercial and industrial facilities, to grass swales, filter strips, or buffer areas unless approved by Thurston County.
- Use slow release fertilizers such as methylene urea, isobutylidene, or resin coated fertilizers when appropriate, generally in the spring. Use of slow release fertilizers is especially important in areas with sandy or gravelly soils.
- Apply fertilizers in amounts appropriate for the target vegetation and at the time of year that minimizes losses to surface and groundwater.
- Time the fertilizer application to periods of maximum plant uptake. Ecology generally recommends application in the fall and spring, although Washington State University turf specialists recommend four fertilizer applications per year.
- Do not use turf fertilizers containing phosphorous unless a soil sample analysis taken within the past 36 months indicates the soil of the established lawn is deficient in phosphorus. For more information about restrictions on turf fertilizers containing phosphorus, see the following website:

<https://agr.wa.gov/departments/pesticides-and-fertilizers/fertilizers/fertilizers-containing-phosphorus>

### **Suggested BMPs**

Test soils to determine the correct fertilizer application rates.

- Evaluation of soil nutrient levels through regular testing ensures the best possible efficiency and economy of fertilization.
- Fertilization needs vary by site depending on plant, soil, and climatic conditions.
- Choose organic fertilizers when possible.
- For details on soils testing, contact the Thurston County Conservation District, a soils testing professional, or the Washington State University Thurston County Extension.

**Section A4**  
**Storage and Stockpiling Activities**

#### **A4.1 Storage or Transfer (Outside) of Solid Raw Materials, Byproducts, or Finished Products**

**Description of Pollutant Sources:** Some pollutant sources such as solid raw materials, by-products, or products such as gravel, sand, salts, topsoil, compost, logs, sawdust, wood chips, lumber and other building materials, concrete, and metal products are often stored outside in large piles or stacks at commercial or industrial establishments. Contact between bulk materials stored outside may leach or erode when contacted by stormwater. Contaminants include total suspended solids, BOD, COD, organics, and dissolved metals or salts (sodium, calcium, magnesium chloride, etc.).

**Pollutant Control Approach:** Provide impervious containment with berms, dikes, etc. and/or cover to prevent run-on and discharge of leachate pollutant(s) and total suspended solids.

#### **Required BMPs**

- Do not hose down the contained stockpile area to a storm drain or a conveyance to a storm drain or receiving water.
- Maintain drainage areas in and around storage of solid materials with a minimum slope of 1.5 percent to prevent pooling and minimize leachate formation. Areas should be sloped to drain stormwater to the perimeter for collection or to internal drainage “alleyways” where no stockpiled material exists.
- Sweep paved storage areas regularly for collection and disposal of loose solid materials.
- If and when feasible, collect and recycle water-soluble materials (leachates).
- Stock cleanup materials such as brooms, dustpans, and vacuum sweepers near the storage area.
- The source control BMP options listed below are applicable for stockpiles greater than 5 cubic yards of erodible or water soluble materials such as soil, road de-icing salts, compost, unwashed sand and gravel, or sawdust. Also included are outside storage areas for solid materials such as logs, bark, lumber, and metal products. Choose one or more of the following Source Controls:
  - Store in a building or paved and bermed covered area as shown in Figure IV - 4.12;
  - Place temporary plastic sheeting (polyethylene, polypropylene, hypalon, or equivalent) over the material (Figure IV - 4.13); or

- Pave the area and install a stormwater drainage system. Place curbs or berms along the perimeter of the area to prevent the run-on of uncontaminated stormwater and to collect and convey runoff to treatment. Slope the paved area in a manner that minimizes the contact between stormwater (e.g., pooling) and leachable materials in compost, logs, bark, wood chips, or other materials.
- For large stockpiles that cannot be covered, implement containment practices at the perimeter of the site and at any catch basins as needed to prevent erosion and discharge of the stockpiled material off-site or to a storm drain. Ensure that contaminated stormwater is not discharged directly to surface waters without being conveyed through an appropriate treatment BMP.
- Convey contaminated stormwater from the stockpile area to a wet pond, wet vault, presettling basin, manufactured treatment device, or other appropriate treatment system, depending on the contamination.



**Figure IV - 4.12 Covered and Secured Storage Area for Bulk Solids.**



**Figure IV - 4.13 Temporary Plastic Sheeting Covering Raw Materials Stored Outdoors.**

## **A4.2 Storage and Treatment of Contaminated Soils**

**Description of Pollutant Sources:** This activity applies to businesses and agencies that store and treat soils contaminated with toxic organic compounds, petroleum products, or heavy metals. Such contamination typically comes to light when an environmental audit is done or old underground tanks are removed. The soils are usually excavated and taken off site for treatment via aeration and perhaps chemical stabilization. Stormwater runoff that comes in contact with contaminated soil can carry those contaminants along with loose dirt into receiving waters.

Pollutants of concern include toxic organic compounds, oils and greases, and heavy metals.

**Pollutant Control Approach:** The Thurston County Public Health and Social Services Department at (360) 867-2664 regulates and permits businesses treating contaminated soil. In addition, a permit from ORCAA is required if the treatment method for removing soil contaminants involves forcing air through, or extracting air from, the soil. Contact these agencies for additional information regarding the appropriate pollutant control approach.

The use of any treatment BMP must not result in the violation of groundwater or surface water quality standards.

### A4.3 Temporary Fruit Storage

**Description of Pollutant Sources:** This activity applies to businesses that temporarily store fruits and vegetables outdoors prior to or after packing, processing, or sale, or that crush, cut, or shred fruits or vegetables for wines, frozen juices, and other food and beverage products.

Activities involving the storage or processing of fruits, vegetables, and grains can potentially result in the delivery of pollutants to stormwater. Potential pollutants of concern from all fruit and vegetable storage and processing activities include nutrients, suspended solids, substances that increase biological oxygen demand, and color. These pollutants must not be discharged to the drainage system or directly into receiving waters.

**Pollutant Control Approach:** Store and process fruits and vegetables indoors or under cover whenever possible. Educate employees about proper procedures. Cover and contain operations and apply good housekeeping and preventive maintenance practices to prevent the contamination of stormwater.

#### Required BMPs

- Employees must be educated on benefits of keeping the storage area clean.
- Keep fruits, vegetables, and grains stored outside for longer than a day in plastic bins or in bins lined with plastic. The edge of the plastic liner should be higher than the amount of fruit stored or should drape over the side of the bin.
- Dispose of rotten fruit, vegetables, and grains in a timely manner (typically, within a week).
- Make sure all outside materials that have the potential to leach or spill to the drainage system are covered, contained, or moved to an indoor location. For fruits, vegetables, and grains stored outside for a week or more, cover with a tarp or other waterproof material. Make sure coverings are secured from wind.
- No untreated water used to clean produce can enter the stormwater drainage system. Minimize the use of water when cleaning produce to avoid excess runoff.
- Cleanup materials, such as brooms and dustpans, must be kept near the storage area.
- The processing area must be swept or shoveled daily to collect dirt and fruit and vegetable fragments for proper disposal.

- If a holding tank is used for the storage of wastewater, pump out the contents before the tank is full and dispose of wastewater to a sanitary sewer or approved wastewater treatment system.
- The processing area must be enclosed in a building or shed, or covered with provisions for stormwater run-on prevention. Alternatively, pave and slope the area to drain to the sanitary sewer, holding tank, or process treatment system collection drain.

### **Suggested BMPs**

- Cover storage areas for fruits and vegetables.
- A containment curb, dike, or berm can be used to prevent off-site runoff from storage or processing areas and also to prevent stormwater run-on.

#### A4.4 Storage of Solid Wastes and Food Wastes

**Description of Pollutant Sources:** This activity applies to businesses and public agencies that store solid wastes and food wastes outdoors. This includes ordinary garbage. If improperly stored, these wastes can contribute a variety of different pollutants to stormwater. Requirements for handling and storing solid waste may include a permit from the Thurston County Public Health and Social Services Department. For more information, call the Waste Management Section at (360) 867-2664

NOTE: Dangerous solid wastes must be stored and handled under special guidelines. Businesses and agencies that store dangerous wastes must follow specific regulations outlined by Ecology and, in some cases, the county health department. Ecology regulations are outlined in Chapter 7. Please contact Ecology at (360) 407-6300 and the Thurston County Public Health and Social Services Department at (360) 867-2664 for the specific requirements and permitting information.

Pollutants of concern include toxic organic compounds, oils and greases, heavy metals, nutrients, suspended solids, and oxygen demanding substances (i.e., BOD and COD).

**Pollutant Control Approach:** Store wastes in suitable containers with leak-proof lids. Sweep or shovel loose solids. Educate employees about the need to check for and replace leaking containers.

#### Required BMPs

The following BMPs are required of all businesses and public agencies engaged in storage of non-dangerous solid wastes or food wastes:

- All solid and food wastes must be stored in suitable containers. Piling of wastes without any cover is not acceptable.
- Storage containers must be checked for leaks and replaced if they are leaking, corroded, or otherwise deteriorating.
- Storage containers must have leak-proof lids or be covered by some other means (Figure IV - 4.14). Lids must be kept closed at all times. This is especially important for dumpsters, as birds can pick out garbage and drop it, promoting rodent, health, and stormwater problems.

OR

- If lids cannot be provided for the waste containers, or they cannot otherwise be covered, there is another option: a designated waste storage area must be provided with a containment berm, dike, or curb, and the designated area must drain to a sanitary sewer (contact LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider prior to any connections) or holding tank for further treatment. See BMP S.7 and S.3 in Chapter 5 for more information.



**Figure IV - 4.14 Solid Waste Dumpsters with Properly Sealed Lids.**

- Employees must be trained to frequently check storage containers for leaks and to ensure that the lids are on tightly.
- The waste storage area must be swept or otherwise cleaned frequently to collect all loose solids for proper disposal in a storage container. Do not hose the area to collect or clean solids.
- If you clean your containers, all rinse water from cleaning must be disposed of in a sanitary sewer or septic system.
- Clean out catch basins on your property that receive drainage from your waste storage area. See BMP S.9 in Chapter 5 for details on catch basin cleaning.

### **Suggested BMPs**

- If the amount of waste accumulated appears to frequently exceed the capacity of the storage container, then another storage container should be obtained and utilized.
- Store containers such that wind will not be able to knock them over.
- Designate a storage area, pave the area, and slope the drainage to a holding tank to prevent stormwater run-on or run-off. If a holding tank is used, the contents must be pumped out before the tank is full and properly disposed of. See BMP S.2 in Chapter 5 for more information on disposal options.
- Compost appropriate wastes. Contact Thurston County Solid Waste at (360) 867-2300 for more information on composting.

- Recycle your solid wastes. The Industrial Materials Exchange program facilitates the transfer of excess materials and wastes to those who can use them. Industrial Materials Exchange can be reached at (206) 296-4899, toll free 1-888-TRY-IMEX or on the Web at: <http://www.hazwastehelp.org/imex/>.

## A4.5 Recyclers and Scrap Yards

**Description of Pollutant Sources:** Includes businesses and public agencies that reclaim various materials for resale or for scrap, such as vehicles and vehicle/equipment parts, construction materials, metals, papers, and beverage containers.

Potential sources of pollutants include paper, plastic, metal scrap debris, engines, transmissions, radiators, batteries, and other contaminated materials or that contain fluids. Other pollutant sources include leachate from metal components, contaminated soil, and the erosion of soil. Activities that can generate pollutants include the transfer, dismantling, and crushing of vehicles and scrap metal; the transfer and removal of fluids; maintenance and cleaning of vehicles, parts, and equipment; and storage of fluids, parts for resale, solid wastes, scrap parts, and materials, equipment and vehicles that contain fluids, generally in uncovered areas.

Potential pollutants typically found vehicle recycle and scrap yards include, polychlorinated biphenyls (PCBs), heavy metals, oils and greases, total suspended solids, BOD, ethylene and propylene glycol, and acidic pH.

### Required BMPs

- For facilities subject to Ecology's industrial stormwater general permit refer to Ecology Document No. 94-146, *Vehicle and Metal Recyclers: A Guide for Implementing the Industrial Stormwater General National Pollutant Discharge Elimination System (NPDES) Permit Requirements*. Apply the BMPs in that guidance document to scrap material recycling facilities depending on the pollutant sources existing at those facilities.
- Check incoming scrap materials, vehicles, and equipment for potential fluid contents and batteries.
- Drain and transfer fluids from vehicles and other equipment only in a designated area with a waste collection system or over drip pans.
- Remove batteries and store on the ground in a leak-proof container and under cover.
- Cover and raise any materials that may contaminate stormwater. A tarp and pallet are acceptable.
- Cover and contain any stockpiles of any material that has the potential to contaminate stormwater runoff.
- All containers used to store fluids must comply with federal, state, and/or local secondary containment requirements. Storage of flammable and combustible materials must comply with the appropriate fire codes.

### **Required Routine Maintenance**

- Inspect storage areas regularly and promptly clean up any leaks, spills, or contamination.
- Sweep scrap storage areas as needed. Do not hose down anything to a storm drain.
- Keep spill cleanup materials in a location known to all. Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

### **Suggested BMPs**

- Install catch basin inserts to collect excess sediment and debris if necessary. Inspect and maintain catch basin inserts to ensure they are working correctly.
- Conduct automobile/vehicle metal-shredding inside enclosed building with HEPA air filtration systems to prevent the fugitive release of heavy metals and other potentially hazardous materials into the air.

#### **A4.6 Treatment, Storage, or Disposal of Dangerous Wastes**

This activity applies to businesses and public agencies that are permitted by Ecology to treat, store, or dispose of dangerous wastes. Ecology regulates these facilities with specific requirements, which include the need for a NPDES permit. Detailed BMPs are not included in this volume since site requirements for these facilities are well beyond the level of typical BMP applications. See Chapter 7 for reference information.

The Thurston County Public Health and Social Services Department also administers some aspects of dangerous waste treatment, storage, and disposal. Call (360) 867-2664 for more information.

#### A4.7 Storage of Liquid or Dangerous Waste Containers

**Description of Pollutant Sources:** Steel and plastic drums with volumetric capacities of 55 gallons or less are typically used at industrial facilities for container storage of liquids and powders. The BMPs specified below apply to container(s) located outside a building. Use these BMPs when temporarily storing accumulated food wastes, vegetable or animal grease, used oil, liquid feedstock or cleaning chemicals, or Dangerous Wastes (liquid or solid), unless the business is permitted by Ecology to store the wastes. Leaks and spills of pollutant materials during handling and storage are the primary sources of pollutants. Oil and grease, acid/alkali pH, oxygen demanding substances, (i.e., BOD and COD) are potential pollutant constituents.

**Pollutant Control Approach:** Store containers in impervious containment under a roof or other appropriate cover, or inside a building. For storage areas used on site for less than 30 days, a portable temporary secondary system can be used in lieu of a permanent system as described above.

#### Required BMPs

- Place tight-fitting lids on all containers.
- Label all containers appropriately. Store containers so that the labels are clearly visible.
- Place drip pans beneath all mounted container taps and at all potential drip and spill locations during filling and unloading of containers.
- Inspect container storage areas regularly for corrosion, structural failure, spills, leaks, overfills, and failure of piping systems. Check containers daily for leaks/spills. Replace containers, and replace and tighten bungs in drums, as needed.
- Store containers that do not contain free liquids in a sloped designated area with the containers elevated or otherwise protected from stormwater run-on. Comply with local fire codes.
- Secure drums when stored in an area where unauthorized persons may gain access in a manner that prevents accidental spillage, pilferage, or any unauthorized use (Figure IV - 4.15).
- If the material is a Dangerous Waste, the business owner must comply with any additional Ecology requirements as specified in Chapter 7, Section 7.2, R.2.
- Storage of reactive, ignitable, or flammable chemicals and materials must comply with the stricter of local zoning codes, local fire codes, the Uniform Fire Code (UFC), UFC standards, or the National Electric Code.

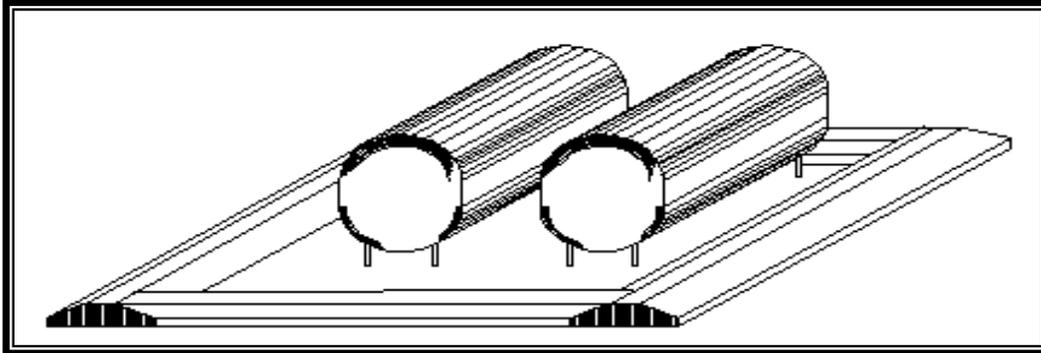


(Photo courtesy of Mark Dilley, Interstate Products, Inc.)

**Figure IV - 4.15 Outdoor Drum Storage Unit with Locking Doors.**

- Have spill kits or cleanup materials near container storage areas.
- Clean up all spills immediately.
- Cover dumpsters or keep them under cover, such as a lean-to, to prevent the entry of stormwater.
- Replace or repair leaking garbage dumpsters. Keep dumpster lids closed.
- Drain dumpsters and/or dumpster pads to sanitary sewer where approved by the local sewer authority. Dumpster drains must not discharge to stormwater systems.
- When collection trucks directly pick up roll-containers, ensure a filet is on both sides of the curb to facilitate moving the dumpster.
- Keep containers with Dangerous Waste, food waste, or other potential pollutant liquids inside a building unless this is impracticable due to site constraints or applicable fire code requirements.
- Store containers in a designated area that is covered, bermed or diked, paved and impervious in order to contain leaks and spills. Slope the secondary containment to drain into a dead-end sump for the collection of leaks and small spills.
- For liquid materials, surround the containers with a dike as illustrated in Figure IV - 4.16. The dike must be of sufficient height to trap a volume of

either 10 percent of the total enclosed volume of the stored containers or 110 percent of the volume contained in the largest container, whichever is greater.



**Figure IV - 4.16 Containment Berm Used to Control Liquid-Material Leaks or Spills.**

- Where material is temporarily stored in drums, use a containment system, as illustrated, in lieu of the above system (Figure IV - 4.17).



(Photo courtesy of Seattle Public Utilities)

**Figure IV - 4.17 Temporary Secondary Containment.**

- Place containers mounted for direct removal of a liquid chemical for use by employees inside a containment area as described above. Use a drip pan during liquid transfer (Figure IV - 4.18).
- For contaminated stormwater in the containment area, connect the sump outlet to a sanitary sewer, if approved by LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service

provider, or to appropriate treatment such as an API or coalescent plate oil/water separator, or other appropriate system (see Volume V). Equip the sump outlet with a normally closed valve to prevent the release of spilled or leaked liquids, especially flammables (in compliance with fire codes), and dangerous liquids. This valve may be opened only for the conveyance of contaminated stormwater to treatment.



**Figure IV - 4.18 Mounted Containers with Drip Pans.**

- Another option for discharge of contaminated stormwater is to pump it from a dead-end sump or catchment to a tank truck or other appropriate vehicle for off-site treatment and/or disposal.

#### A4.8 Storage of Liquids in Permanent Aboveground Tanks

**Description of Pollutant Sources:** Aboveground tanks containing liquids (excluding uncontaminated water) may be equipped with a valved drain, vent, pump, and bottom hose connection. Aboveground tanks may be heated with steam heat exchangers equipped with steam traps. Leaks and spills can occur at connections and during liquid transfer. Oil and grease, organics, acids, alkalis, and heavy metals in tank water and condensate drainage can also cause stormwater contamination at storage tanks.

**Pollutant Control Approach:** Install secondary containment or a double-walled tank. Slope the containment area to a drain with a sump. Stormwater collected in the containment area may need to be discharged to treatment such as an **API** or **coalescent plate** oil/water separator, or equivalent BMP. Add safeguards against accidental releases including protective guards around tanks to protect against vehicle or forklift damage, and tag valves to reduce human error. *Tank water and condensate discharges are process wastewater that may need an NPDES permit.*

#### Required BMPs

- Inspect the tank containment areas regularly for leaks/spills, cracks, corrosion, etc. to identify problem components such as fittings, pipe connections, and valves.
- Place adequately sized drip pans beneath all mounted taps and drip/spill locations during filling/unloading of tanks. Operators may need valved drain tubing in mounted drip pans.
- Vacuum sweep and clean the tank storage area regularly, if paved.
- Replace or repair tanks that are leaking, corroded, or otherwise deteriorating.
- Storage of flammable, ignitable, and reactive chemicals and materials must comply with the stricter of local zoning codes, local fire codes, the Uniform Fire Code (UFC), UFC standards, or the National Electric Code.
- Locate permanent tanks in impervious (Portland cement concrete or equivalent) secondary containment surrounded by dikes as illustrated in Figure IV - 4.19, or use Underwriters Laboratory approved double-walled tanks. The dike must be of sufficient height to trap a volume of either 10 percent of the total enclosed volume of the tank or 110 percent of the volume contained in the largest tank, whichever is greater.



(Photo courtesy of Seattle Public Utilities)

**Figure IV - 4.19 Aboveground Storage Tanks with Secondary Containment.**

- Slope the secondary containment to drain to a dead-end sump (optional), or equivalent, for the collection of small spills.
- Include a tank overfill protection system to minimize the risk of spillage during loading.
- Depending on the kind of liquid being stored, the potential and type of stormwater contamination will vary and may require specialized treatment.
- If the tank containment area is uncovered, equip the outlet from the spill-containment sump with a shutoff valve. The shutoff valve is normally closed and operators may open it manually or automatically, only to convey contaminated stormwater to approved treatment or disposal or convey uncontaminated stormwater to a storm drain. Evidence of contamination can include the presence of visible sheen, color, or turbidity in the runoff, or existing or historical operational problems at the facility. Use simple pH tests with litmus or pH paper for areas subject to acid or alkaline contamination.
- At petroleum tank farms, convey stormwater contaminated with floating oil or debris in the contained area through an API or coalescent plate type oil/water separator (Volume V, Treatment BMPs) or other approved treatment prior to discharge to storm drain or surface water.

## A4.9 Parking and Storage for Vehicles and Equipment

**Description of Pollutant Sources:** Parked vehicles at public and commercial parking lots, such as retail store, fleet vehicle (including rent-a-car lots and car dealerships), equipment sale and rental parking lots, and parking lot driveways, can be sources of toxic hydrocarbons and other organic compounds, oils and greases, metals, and suspended solids.

**Pollutant Control Approach:** If the parking lot meets the site use thresholds to determine if the site is expected to generate high concentrations of oil, as defined in Step 2: Determine if an Oil Control BMP is Required in Volume I, Section 4.2.2, provide oil removal equipment for the contaminated stormwater runoff.

### Required BMPs

- If washing of a parking lot is conducted, discharge the washwater to a sanitary sewer (if allowed by LOTT Alliance Industrial Pretreatment Program at (360) 528-5708) or other approved wastewater treatment system, or collect it for off-site disposal.
- Do not hose down the area to a storm drain or receiving water. Vacuum sweep parking lots, storage areas, and driveways regularly to collect dirt, waste, and debris. Mechanical or hand sweeping may be necessary for areas where a vacuum sweeper cannot reach.
- Clean up vehicle and equipment fluid drips and spills immediately.
- Place drip pans below leaking vehicles (including inoperative vehicles and equipment) in a manner that catches leaks or spills, including employee vehicles. Drip pans must be managed to prevent overflowing and the contents disposed of properly.
- 
- Establishments subject to high-use intensity are significant sources of oil contamination of stormwater. Examples of potential high use areas include customer parking lots at fast food stores, grocery stores, taverns, restaurants, large shopping malls, discount warehouse stores, quick-lube shops, and banks. Refer to Step 2: Determine if an Oil Control BMP is Required in Volume I, Section 4.22 for the site use thresholds that determine if an oil control BMP is required, and for a list of oil control BMPs.

### Suggested BMPs

- Encourage employees to repair leaking personal vehicles.
- Encourage employees to carpool or use public transit through incentives.

- Encourage customers to use public transit by rewarding valid transit pass holder with discounts.
- Install catch basin inserts to collect excess sediment and oil if necessary. Inspect and maintain catch basin inserts to ensure they are working correctly.

#### **A4.10 Storage of Dry Pesticides and Fertilizers**

**Description of Pollutant Sources:** Pesticides such as pentachlorophenol, carbamates, and organometallics can be released to the environment as a result of container leaks and outside storage of pesticide-contaminated materials and equipment. Inappropriate management of pesticides or fertilizers can result in stormwater contamination. Runoff contaminated by pesticides and fertilizers can severely degrade streams and lakes and adversely affect fish and other aquatic life.

**Pollutant Control Approach:** Store fertilizer and pesticide properly to prevent stormwater contamination.

#### **Required BMPs**

- Store pesticides and fertilizers in enclosed impervious containment areas that prevent precipitation or unauthorized personnel from coming into contact with the materials.
- Containers and bags must be covered, intact, and off the ground.
- Store all material so that it cannot come into contact with water.
- Immediately clean up any spilled fertilizer or pesticides.
- Keep pesticide and fertilizer contaminated waste materials in designated covered and contained areas, and dispose of properly.
- Store and maintain spill cleanup materials near the storage area.
- 
- Sweep paved storage areas as needed. Collect and dispose of spilled materials. Do not hose down the area
- Do not discharge pesticide contaminated stormwater or spills/leaks of pesticides to storm sewers or to the sanitary sewer. Contaminated stormwater must be collected and disposed of properly. Unused or spilled/leaked pesticides must be disposed of according to the label.
- Comply with WAC 16-228-1220 and Chapter 16-229 WAC.
  - MF-01,02,03,04: Filtration

## **Section A5**

### **Construction and Demolition Activities**

## A5.1 Construction Demolition

**Description of Pollutant Sources:** This activity applies to removal of existing buildings by controlled explosions, wrecking balls, or manual methods, and subsequent clearing of the rubble. The loose debris can contaminate stormwater.

Pollutants of concern include toxic organic compounds, heavy metals, and suspended solids.

**Pollutant Control Approach:** Do not expose hazardous material to stormwater. Regularly cleanup debris that can contaminate stormwater. Protect the stormwater drainage system from dirty runoff and loose particles. Sweep paved surfaces daily. Educate employees about the need to control site activities.

### Required BMPs

- Identify, remove, and properly dispose of hazardous substances from the building before beginning construction demolition activities that could expose them to stormwater. Such substances could include PCBs, asbestos, lead paint, mercury switches, and electronic waste.
- Educate employees about the need to control site activities to prevent stormwater pollution, and also train them in spill cleanup procedures.
- Keep debris containers, dumpsters, and debris piles covered.
- Storm drain covers or a similarly effective containment device must be placed on all nearby drains to prevent dirty runoff and loose particles from entering the stormwater drainage system (Figure IV - 4.20). Covers shall be placed at the beginning of the workday and the accumulated materials collected and disposed of before removing the covers at the end of the workday. If storm drains are not present, dikes, berms, or other methods must be used to protect overland discharge paths from runoff. See BMPs S.2 and S.7 in Chapter 5 for more information on runoff control and disposal options.



(Photo courtesy of Mark Dilley, Interstate Products, Inc.)

**Figure IV - 4.20 Commercially Available Gutter Guard Being Replaced.**

- Street gutters, sidewalks, driveways, and other paved surfaces in the immediate area of the demolition must be swept at the end of each workday to collect and properly dispose of loose debris and garbage.
- Water should be lightly sprayed (such as from a hydrant or water truck) throughout the site to help control wind blowing of fine materials such as soil, concrete dust, and paint chips. The amount of water must be controlled so that runoff from the site does not occur, yet dust control is achieved. Oils must never be used for dust control. Contact Thurston County Development Services at (360) 786-5490 and Olympic Region Clean Air Agency to obtain required permits. Additional information is available at the following web sites:  
[www.co.thurston.wa.us/permitting/index.htm](http://www.co.thurston.wa.us/permitting/index.htm) and <https://www.orcaa.org>.

### **Suggested BMPs**

- Construct a screen to prevent stray building materials and dust from escaping the area during demolition. Size and orient the screen to capture wind-blown materials and contain them onsite.
- Schedule demolition to take place at a dry time of the year.

## A5.2 Building Repair, Remodeling, Painting, and Construction

**Description of Pollutant Sources:** This activity refers to activities associated with construction of buildings and other structures, remodeling of existing buildings and houses, and general exterior building repair work.

Pollutants of concern include toxic hydrocarbons, hazardous wastes, toxic organics, suspended solids, heavy metals, pH, oils, and greases.

**Pollutant Control Approach:** Employees must be educated about the need to control site activities. Control leaks, spills, and loose material. Utilize good housekeeping practices. Regularly clean up debris that can contaminate stormwater. Protect the drainage system from dirty runoff and loose particles.

### Required BMPs

- Identify, remove, and properly dispose of hazardous substances from the building before beginning repairing or remodeling activities that could expose them to stormwater. Such substances could include PCBs, asbestos, lead paint, mercury switches, and electronic waste.
- Employees must be educated about the need to control site activities to prevent stormwater pollution, and also trained in spill cleanup procedures.
- Spill cleanup materials, appropriate to the chemicals being used on site, must be available at the work site at all times.
- The work site must be cleaned up at the end of each workday, with materials such as solvents put away indoors or covered and secured so that vandals will not have access to them.
- The area must be swept daily to collect loose litter, paint chips, grit, and dirt.
- Absolutely no substance can be dumped on pavement, on the ground, or in or toward storm drains, regardless of its content, unless it is water only.
- For wood treating activities drop cloths must be placed where space and access permit before the work begins. Additional drip pans must be used in areas where drips are likely to occur that cannot be protected with a drop cloth.
- Ground or drop cloths must be used underneath scraping, sandblasting work. Ground cloths, buckets, or tubs must also be used anywhere that work materials are laid down.
- Incidental cleaning of paint brushes and other tools that are covered with water-based paints must be cleaned in sinks connected to sanitary sewers or in portable containers that can subsequently be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based finishes or

other materials must be cleaned in a manner that enables collection of used solvents for recycling or proper disposal and cannot be discharged to the sanitary sewer. See BMP S.2 in Chapter 5 for disposal options.

- Storm drain covers or similarly effective devices must be used if dust, grit, washwater, or other pollutants may escape the work area. This is particularly necessary on rainy days. The cover or containment device shall be placed over the storm drain at the beginning of the workday, and accumulated dirty runoff and solids must be collected and disposed of before removing the cover at the end of the day.
- Refer to A1.3 Washing, Pressure, and Steam Cleaning of Vehicles/Equipment/Building Structures for BMPs associated with power washing buildings.

### **Suggested BMPs**

- Recycle materials whenever possible.
- Light spraying of water on the work site can control some of the dust and grit that can blow away. Oils must never be used for dust control. Never spray to the point of runoff from the site.
- Activities such as tool cleaning should occur over a ground cloth or within a containment device such as a tub.
- Consider using filtered vacuuming to collect waste that may be hard to sweep, such as dust on a drop cloth.
- If conducting work in wet weather conditions, consider setting up temporary cover when scraping or pressure-washing lead-based paint.

## **Section A6**

### **Dust Control and Soil and Sediment Control**

### A6.1 Dust Control at Disturbed Land Areas and Unpaved Roadways and Parking Lots

Note: Contact the Olympic Region Clean Air Agency for appropriate and required BMPs for dust control to implement at your project site. Additional information on dust control can also be found in Volume II of this manual.

**Description of Pollutant Sources:** Dust can cause air and water pollution problems particularly at demolition sites, disturbed land areas, and unpaved roadways and parking lots.

**Pollutant Control Approach:** Minimize dust generation and apply environmentally friendly and government approved dust suppressant chemicals, if necessary.

#### Required BMPs

- Sprinkle or wet down soil or dust with water as long as it does not result in a wastewater discharge (Figure IV - 4.21).



**Figure IV - 4.21 Dust Suppression by Water Spray.**

- Use only local and/or state government approved dust suppressant chemicals such as those listed in Ecology publication No. 96-433, *Methods for Dust Control*. Apply according to the manufacturer's recommendations. See also BMP C126, Polyacrylamide for Soil Erosion Protection, in Volume II of this manual.
- Avoid excessive and repeated applications of dust suppressant chemicals. Time the application of dust suppressants to avoid or minimize their wash-off by rainfall or human activity such as irrigation.

- Avoid driving over treated areas as this will break the crust formed by the dust suppressant, rendering it less effective.
- Apply stormwater containment to prevent the conveyance of sediments and/or dust suppressant chemicals into storm drains or receiving waters.
- The use of motor oil for dust control is prohibited. Take care when using lignin derivatives and other high BOD chemicals in areas susceptible to contaminating surface water or groundwater.
- Consult with the Ecology Southwest Regional Office on discharge permit requirements if the dust suppression process results in a wastewater discharge to the ground, groundwater, storm drain, or surface water.
- Protect inlets/catch basins during application of dust suppressants.
- Street gutters, sidewalks, driveways, and other paved surfaces in the immediate area of the activity must be swept regularly to collect and properly dispose of dust, dirt, loose debris, and garbage.
- Install catch basin filter socks on site and in surrounding catch basins to collect sediment and debris. Maintain the filters regularly to prevent plugging.

#### **Suggested BMPs for Roadways and Other Trafficked Areas**

- Consider limiting use of off-road recreational vehicles on dust generating land.
- Consider graveling or paving unpaved permanent roads and other trafficked areas at municipal, commercial, and industrial areas.
- Consider paving or stabilizing shoulders of paved roads with gravel, vegetation, or chemicals approved for that use.
- Encourage use of alternate paved routes, if available.
- Vacuum sweep fine dirt and skid control materials from paved roads soon after winter weather ends or when needed.
- Consider using pre-washed traction sand to reduce dust emissions.

#### **Suggested BMPs for Dust Generating Areas**

- Prepare a dust control plan. Helpful references include: *Control of Open Fugitive Dust Sources* (EPA-450/3-88-088) and *Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures* (EPA-450/2-92-004).
- Limit exposure of soil (dust source) as much as feasible.

- Stabilize dust-generating soil by growing and maintaining vegetation, mulching, topsoiling, and/or applying stone, sand, or gravel.
- Apply windbreaks in the soil such as trees, board fences, tarpaulin curtains, bales of hay, etc.

## A6.2 Dust Control at Manufacturing Sites

Note: Contact the Olympic Region Clean Air Agency for appropriate and required BMPs for dust control to implement at your project site. Additional information on dust control can also be found in Volume II of this manual.

**Description of Pollutant Sources:** Industrial material handling activities can generate considerable amounts of dust that can contaminate stormwater. This dust is typically removed using exhaust systems. Dusts can be generated at cement and concrete product mixing facilities, and wherever powdered materials are handled. Particulate materials that are of concern to air pollution control agencies include grain dust, sawdust, coal, gravel, crushed rock, cement, and boiler fly ash. The objective of this BMP is to reduce the stormwater pollutants caused by dust generation and control.

**Pollutant Control Approach:** Prevent dust generation and emissions where feasible, regularly cleanup dust that can contaminate stormwater, and convey dust contaminated stormwater to proper treatment.

### Required BMPs

- Clean powder material handling equipment and vehicles as needed to remove accumulated dust and residue.
- Regularly sweep dust accumulation areas that can contaminate stormwater. Conduct sweeping using vacuum filter equipment to minimize dust generation and to ensure optimal dust removal.
- Use dust filtration/collection systems such as bag house filters or cyclone separators, to control vented dust emissions that could contaminate stormwater. Control of zinc dusts in rubber production is one example.
- Maintain on-site controls to prevent vehicle track-out
- Maintain dust collection devices on a regular basis.

### Suggested BMPs

- In manufacturing operations, train employees to handle powders carefully to prevent generation of dust.
- Use water spray to flush dust accumulations to sanitary sewers where allowed by Thurston County or to other appropriate treatment system. Contact LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider for details.
- Install sedimentation basins, wet ponds, wet vaults, vegetated filter strips, or equivalent sediment removal BMPs.
- Use in the recommended manner, approved dust suppressants such as those listed in Ecology publication No. 96-433 *Methods for Dust Control*

(Ecology 1996). Application of some products may not be appropriate in close proximity to receiving waters or conveyances close to receiving waters. For more information, check with the Ecology Southwest Regional Office or Thurston County.

### A6.3 Soil Erosion and Sediment Control at Industrial Sites

**Description of Pollutant Sources:** Industrial activities on soil areas, exposed and disturbed soils, steep grades, etc. can be sources of sediments that can contaminate stormwater runoff.

**Pollutant Control Approach:** Limit the exposure of erodible soil, stabilize or cover erodible soil where necessary to prevent erosion, and/or provide treatment for stormwater contaminated with total suspended solids caused by eroded soil.

#### Required BMPs

- Limit the exposure of erodible soil.
- Stabilize entrances/exits to prevent track-out. See BMP C105: Stabilized Construction Entrance/Exit
- Stabilize or cover erodible soil to prevent erosion. Apply one or more of the following cover practices:
  - Use vegetative cover such as grass, trees, or shrubs on erodible soil areas
  - Cover exposed areas with mats such as clear plastic, jute, or synthetic fiber. See BMP C122: Nets and Blankets and BMP C123: Plastic Covering
  - Preserve natural vegetation including grass, trees, shrubs, and vines when possible. See BMP C101: Preserving Natural Vegetation.
- If stabilizing or covering the erodible soil is not possible, then apply one or more of the following structural practices to control sediment:
  - Vegetated swales
  - BMP C200: Interceptor Dike and Swale
  - BMP C233: Silt fence
  - BMP C207: Check Dams
  - BMP C232: Gravel Filter Berm
  - Sedimentation basin
  - Proper grading
  - Paving

For design information refer to Volume II, Standards and Specifications for BMPs.

**Section A7**  
**Other Activities**

## A7.1 Commercial Animal Handling Areas

**Description of Pollutant Sources:** Animals at racetracks, kennels, fenced pens, veterinarians, and businesses that provide boarding services for horses, dogs, cats, etc. can generate pollutants from the following activities: manure deposits, animal washing, grazing, and any other animal handling activity that could contaminate stormwater. Pollutants can include coliform bacteria, nutrients, and total suspended solids. Individual Stormwater Permits covering commercial animal handling facilities include additional applicable source controls.

**Pollutant Control Approach:** Prevent, to the maximum extent practicable, the discharge of contaminated stormwater from animal handling and keeping areas.

### Required BMPs

- Regularly sweep and clean animal keeping areas to collect and properly dispose of droppings, uneaten food, and other potential stormwater contaminants.
- Do not hose down areas that contain potential stormwater contaminants where they drain to storm drains or to receiving waters.
- Do not discharge any washwater to storm drains or to receiving waters without proper treatment.
- If animals are kept in unpaved and uncovered areas, the ground must either have vegetative cover or some other type of ground cover, such as mulch.
- Surround the area where animals are kept with a fence or other means to prevent animals from moving away from the controlled area where BMPs are used.
- For outside surface areas that must be disinfected, use an unsaturated mop to spot clean the areas. Do not allow wastewater runoff to enter the drainage system.
- Do not stockpile manure in areas where runoff is allowed to flow into a storm drain or to nearby receiving waters or wetlands.

## **A7.2 Keeping Livestock in Stables, Pens, Pastures, or Fields**

This activity applies to management of all types of livestock. Manure from livestock can pollute stormwater and local water bodies. Animals that are not fenced off from creeks and streams can also cause severe erosion of stream banks, which in turn can silt up fish spawning areas. Certain areas of Thurston County require the filing of a livestock management plan. Contact the Thurston County Conservation District at (360) 754-3588 for more information and assistance in preparing such a plan. Thurston County/WSU Cooperative Extension at (360) 867-2151 also has literature to help you more effectively manage your pastures and livestock. Feedlots containing more than 100 animals may require an NPDES permit for Concentrated Animal Feeding Operations.

**Pollutants of Concern:** Nutrients, suspended solids, oxygen demanding substances (i.e., BOD and COD), fecal bacteria.

### **Required BMPs**

The following BMPs or equivalent measures are required of all businesses and citizens keeping livestock in stables, pens, pastures, or fields:

- Restrict animal access to creeks and streams, preferably by fencing. There are ways to fence and still allow animals drinking access to the stream, without allowing bank trampling and minimizing fecal inputs into the stream. Contact the Thurston County Conservation District for more information on fencing, including how to get money to provide such fencing. They can also help you with replanting the stream banks to prevent further erosion. A minimum setback of 20 feet from the center of the streambed will be required on each side. Major tributaries and large farm ditches should be fenced as well.
- Dispose of manure from stables and pens properly. Do not pile it where rain will wash nutrients into constructed or natural stormwater drainage systems that leave your land. Place it within a bermed area to contain runoff, or cover it with a tarpaulin. It may also be placed in a grassy area as far from watercourses as possible, so that any seepage has a chance to be filtered and absorbed by the grasses before reaching a creek or stream.

### **Suggested BMPs**

- On fields where animals are pastured, a rotational grazing system should be developed. This would mean that a field would need to be divided into a minimum of four equal units, and the stock rotated from one unit to another. The stock should not be allowed onto the pastures until the grass reaches a minimum height of 6 inches. They should be moved to the second field when the grass height is down to approximately 3 inches.

Each field should be allowed to recover for a period of 21 to 28 days prior to regrazing.

- Monitor grazing carefully. If 90 percent of the plants' leaves are removed, the roots will stop growing for at least 18 days. If only 40 percent or less of the leaves are removed, the roots will continue to grow. Not only will overgrazing or overstocking limit pasture production, but the pastures become vulnerable to the invasion of unpalatable or poisonous weed species such as tussock, moss, buttercup, tansy ragwort, and thistle.
- Grazing should be discontinued starting in early October. Neither the animals nor the fields benefit from grazing during the winter. Since the plants are basically dormant, the protein content is extremely low. The fields become compacted and rutted, thus reducing soil tilth, which in turn reduces summer grass yields. Fence off a small portion of your pasture to sacrifice during winter, and feed hay and grain instead of grazing.
- Proper pasture management should also include the practices of clipping and harrowing the fields after the stock has been removed. This is done to assure uniform growth and to avoid excessive damage to the stand and a consequent reduction in yields. This would also be the optimum time to apply fertilizer, such as manure, to the fields in a manner which does not contribute to runoff.
- Weed control is very important for maintaining highly productive pastures. If you follow the practices described above, you will go a long way toward effective weed control. You may occasionally need to apply herbicides, but do so judiciously. Remember that it is much easier to take care of a few thistles early on than it is to get rid of a field full.

### A7.3 Log Sorting and Handling

**Description of Pollutant Sources:** Log yards are areas where logs are transferred, sorted, debarked, cut, and stored to prepare them for shipment or for the production of dimensional lumber, plywood, chips, poles, or other products. Log yards are generally maintained at sawmills, shipping ports, and pulp mills. Typical pollutants include oil and grease, BOD settleable solids, total suspended solids (including soil), high and low pH, heavy metals, pesticides, wood-based debris, and leachate.

The following are pollutant sources:

1. Log storage, rollout, sorting, scaling, and cutting areas
2. Log and liquid loading areas
3. Log sprinkling
4. Debarking, bark bin, and conveyor areas
5. Bark, ash, sawdust and wood debris piles, and solid wastes
6. Metal salvage areas
7. Truck, rail, ship, stacker, and loader access areas
8. Log trucks, stackers, loaders, forklifts, and other heavy equipment
9. Maintenance shops and parking areas
10. Cleaning areas for vehicles, parts, and equipment
11. Storage and handling areas for hydraulic oils, lubricants, fuels, paints, liquid wastes, and other liquid materials
12. Pesticide usage for log preservation and surface protection
13. Application of herbicides for weed control
14. Contaminated soil resulting from leaks or spills of fluids.

### Ecology's Baseline General Permit Requirements

Industries with log yards are required to obtain coverage under the Industrial Stormwater General Permit for discharges of stormwater associated with industrial activities. The permit requires preparation and on-site retention of an Industrial Stormwater Pollution Prevention Plan (SWPPP). Required and Suggested operational, source control, and treatment BMPs are presented in detail in Ecology's Guidance Document: [Industrial Stormwater General Permit Implementation Manual for Log Yards](#), publication No. 0410-031. It is recommended that all log yard facilities obtain a copy of this document.

#### **A7.4 Boat Building, Mooring, Maintenance, and Repair**

**Description of Pollutant Sources:** Sources of pollutants at boat and ship building, repair, and maintenance facilities at boatyards, shipyards, ports, and marinas include pressure washing, surface preparation, paint removal, sanding, painting, engine maintenance and repairs, and material handling and storage, if conducted outdoors.

Potential pollutants include spent abrasive grits, solvents, oils, ethylene glycol, washwater, paint over-spray, cleaners/detergents, anti-corrosive compounds, paint chips, scrap metal, welding rods, resins, glass fibers, dust, and miscellaneous trash. Proper application of anti-fouling paints is of particular concern in marine environments. Pollutant constituents include total suspended solids, oil and grease, organics, copper, lead, tin, and zinc.

**Pollutant Control Approach:** Apply good housekeeping, preventive maintenance, and cover and contain BMPs in and around work areas.

**NPDES and State Waste Discharge Permit Requirements:** Ecology’s statewide Boatyard General Permit applies to boatyards that discharge stormwater runoff from areas with industrial activity directly to the ground, to a surface waterbody, or to a storm sewer system that drains to a surface waterbody. This general permit also regulates wastewater from pressure washing in boatyards. All boatyards in the state must apply for coverage under this permit and must comply with all conditions specified in this permit, as applicable to their facility, unless exempted. Ecology may require coverage under an individual NPDES permit for large boatyards and shipyards in Washington State not covered by the Boatyard General Permit or Industrial Stormwater General Permit (ISGP).

#### **Required BMPs**

- Maintenance and repair activities that can be moved on-shore must be moved accordingly. This action reduces some of the potential for direct pollution impact on water bodies.
- Clean regularly all accessible work, service, and storage areas to remove debris, spend sandblasting material, and any other potential stormwater pollutants.
- Immediately repair leaking connections, valves, pipes, hoses, and other equipment that may cause the contamination of stormwater.
- Use drip pans, drop cloths, tarpaulins, or other protective device in all paint mixing and solvent operation unless carried out in impervious contained and covered areas.

- Convey sanitary sewage to pump-out stations, portable on-site pump-outs, commercial mobile pump-out facilities, or other appropriate onshore facilities.
- Prohibit uncontained spray painting, blasting, or sanding activities during windy conditions that render containment ineffective.
- Do not dump or pour waste materials down floor drains, sinks, or outdoor storm drain inlets that discharge to surface water. Plug floor drains connected to storm drains or to surface water. If necessary, install a regularly operated sump pump.
- Do not burn paint and/or use spray guns on topsides or above decks.
- Enclose, cover, or contain blasting and sanding activities to the maximum extent practicable to prevent abrasives, dust, and paint chips, from reaching storm sewers or receiving waters. Use plywood and /or plastic sheeting to cover open areas between decks when sandblasting (scuppers, railings, freeing ports, ladders, and doorways). Move the activity indoors if possible. See Chapter 7 for details on Olympic Region Clean Air Agency (ORCAA) limitations.
- Prohibit uncontained spray painting, blasting, or sanding activities over open water.
- Use plastic or tarpaulin barriers beneath the gull and between the hull and dry dock walls to contain and collect waste and spent materials. Clean and sweep regularly to remove debris. Ground cloths must be used for collection of drips and spills in painting and finishing operations, and paint chips and used blasting sand from sand blasting (Figure IV - 4.22).
- Collect spent abrasives regularly and store under cover to await proper disposal.
- Use fixed platforms with appropriate plastic or tarpaulin barriers as work surfaces and for containment when performing work on a vessel in the water to prevent blast material or paint overspray from contacting stormwater or the surface water. Keep the use of such platforms to a minimum, and to not perform extensive repair, modification, surface preparation, or coating while the boat is in the water (anything in excess of 25 percent of the surface area of the vessel above the waterline).



**Figure IV - 4.22 Drop Cloth Used During Hull Sanding.**

- Dispose of greasy rags, oil filters, air filters, batteries, spent coolant, and degreasers properly.
- Store cracked batteries in covered secondary containers.
- Drain oil filters before disposal or recycling.
- Maintain automatic bilge pumps in a manner that will prevent automatic pumping of waste material into surface water.
- Ballast water that has an oily sheen on the surface must be collected for proper disposal rather than discharged on land or water. See BMP S.2 in Chapter 5 for details on disposal options.
- Maintenance yard areas must be swept and cleaned, without hosing down the area, at least once per week or as needed. This prevents sandblasting materials, scrapings, paint chips, oils, and other loose debris from being carried away with stormwater. The collected materials must be disposed of properly. See BMP S.2 in Chapter 5 for disposal options.
- Sweep rather than hose debris on the dock. Collect and convey hose water to treatment if hosing is unavoidable.
- Paint and solvent mixing, fuel mixing and similar handling of liquids shall be performed on shore, or such that no spillage can occur directly into surface water bodies.
- Locate spill kits so they are readily accessible on all piers and docks.

- Whenever the boat is in the water, avoid the use of soaps, detergents and other chemicals that need to be rinsed or hosed off. If necessary, consider applying sparingly so that a sponge, towel or rag can be used to remove residuals. Consider instead washing the boat in a suitable controlled area while it's out of the water.
- Direct deck drainage to a collection system sump for settling and/or additional treatment.
- Immediately clean up any spillage on the pier, wharf, boat, ship deck, or adjacent surface areas and dispose of the wastes properly.
- Apply source control BMPs for other activities conducted at the marina, boat yard, shipyard, or port facility (see A2.2 Fueling at Dedicated Stations, A1.3 Washing, Pressure Washing, and Steam Cleaning of Vehicles/Equipment/Building Structures, and A7.15 Spills of Oil and Hazardous Substances). Comply with BMP A2.3 and A4.2 if engine repair and maintenance are conducted.
- In the event of an accidental discharge of oil or hazardous material into waters of the state or onto land with a potential for entry into state waters, immediately notify the yard, port, or marina owner or manager, Ecology, and the National Response Center at 1-800-424-8802 (24-hour). If the spill can reach or has reached marine waters, contact the U.S. Coast Guard at (206) 217-6200.

### **Suggested BMPs**

- Consider recycling paint, paint thinner, solvents, used oils, oil filters, pressure wash wastewater and any other recyclable materials. Most marinas now offer used oil recycling services. To dispose of filters, let drain 24 hours, then double wrap in plastic and dispose of in the regular garbage, or take them to the Thurston County Waste and Recovery Center, HazoHouse for disposal and recycling. Pending state legislation may make disposal in the garbage illegal, so contact the HazoHouse at (360) 786-5494 for current information.

## A7.5 Logging

**Description of Pollutant Sources:** This activity covers logging activities that fall under the Washington State Forest Practices Act category of Class IV general forest practices. These are situations where timber harvesting is done in the process of converting forest lands into other land uses, such as home and business construction. Stormwater runoff from bare ground exposed during logging contains large amounts of dirt and other pollutants. This material can clog ditches and stream channels, thus reducing carrying capacity and increasing flooding, as well as smothering spawning beds for fish. Simply controlling runoff and not allowing it to leave the site will prevent these harmful effects. Clearing and grading activities are covered in detail in Volume II of this manual.

Coverage under Ecology’s construction stormwater general permit is required for construction sites that result in the disturbance of one acre or more of land. Compliance with the Construction Stormwater Pollution Prevention requirements in Ecology’s manual is required, as applicable. Virtually all logging operations will require a permit from the Washington State Department of Natural Resources (WDNR). Sensitive/critical areas and wetlands ordinances for Thurston County also contain requirements for logging activities in the vicinity of water bodies.

Pollutants of concern include suspended solids, oils and greases, oxygen demanding substances (i.e., BOD and COD), nutrients, toxic organic compounds, and heavy metals.

**Pollutant Control Approach:** Maintain required buffers adjacent to critical areas, including streams and wetlands. Keep sediments out of water bodies and off paved areas.

### Required BMPs

- Vegetation along stream corridors, and adjacent to other water bodies and wetlands, must be preserved. Maintenance of a vegetated buffer enables filtration of most of the pollutants of concern for this activity. The above-mentioned ordinances contain specific requirements for buffer setbacks.
- Logging access roads must have a crushed rock or spall apron construction entrance where they join the pavement to prevent sediments from being tracked onto the pavement.
- On-site fueling and maintenance operations must follow the required BMPs as outlined in A2.4 Mobile Fueling of Vehicles and Heavy Equipment; A2.3 Engine Repair and Maintenance; and A.4.7 Storage of Liquid or Dangerous Waste Containers.

### Suggested BMPs

- Erosion potential can be reduced by avoiding logging on steep slopes.

- If access roads are constructed for logging, they should be provided with drainage ditches that divert runoff into vegetated areas or stormwater treatment systems.
- Plant vegetated buffers in areas where they are already lost downslope of proposed logging areas, with sufficient lead time to allow for effective growth.

## **A7.6 Mining and Quarrying of Sand, Gravel, Rock, Minerals, Peat, Clay, and Other Materials**

**Description of Pollutant Sources:** This activity applies to surface excavation and on-site storage of sand, gravel, and other materials that are mined. All mining operations that have stormwater runoff from the site are required to apply for a NPDES permit with Ecology. Ecology has specific BMPs required by the permit. Some additional BMPs to help meet Ecology's discharge performance standards are listed below.

Pollutants of concern are suspended solids, nutrients, pH, and metals.

**Pollutant Control Approach:** Provide containment and or cover for any on-site storage areas to prevent run-on and discharge of suspended solids and other pollutants.

### **Suggested BMPs**

- If the material is appropriate, use excavated spoil material to form compacted berms along downslope sides of the site to contain runoff. Berms should be seeded to promote growth of grass or other vegetation to limit erosion from the berms. Safety considerations must be examined to prevent flooding due to berm failure.
- Semi-permanent stockpiles should be seeded to promote vegetation growth to limit erosion from the stockpiles.
- Use sedimentation basins to promote settling of suspended solids, or infiltration basins to filter suspended solids, to cleanup runoff before it leaves the site. See Volume V for a further discussion of treatment BMPs.
- Use anchored tarps to cover stockpiles at small-scale mining operations if there is a potential for contaminated stormwater to leave the site.

## A7.7 Pools, Spas, Hot Tubs, and Fountains

**Description of Pollutant Sources:** This section includes BMPs for pools, spas, hot tubs, and fountains used for recreational and/or decorative purposes that may use chemicals and/or be heated. Industrial Stormwater Permittees that use pools, spas, hot tubs, and fountains as part of an industrial process should refer to their Industrial Stormwater Permit.

Discharge from pools, spas, hot tubs, and fountains can degrade ambient water quality. The waters from these sources typically contain bacteria that contaminate the receiving waters. Chemicals lethal to aquatic life such as chlorine, bromine and algaecides can be found in pools, spas, hot tubs, and fountains. These waters may be at an elevated temperature and can have negative effects on receiving waters and to aquatic life. Diatomaceous earth backwash from swimming pool filters can clog gills and suffocate fish.

Routine maintenance activities generate a variety of wastes. Chlorinated water, backwash residues, algaecides, and acid washes are a few examples. Direct disposal of these waters to stormwater drainage systems and waters of the State is not permitted without prior treatment and approval.

The quality of any discharge to the ground after proper treatment must comply with the Water Quality Standards for Groundwaters of the State of Washington, Chapter 173-200 WAC.

The Washington State Department of Health and local health authorities regulate Water Recreation facilities which include pools, spas, and hot tubs. Owners and operators of those facilities must comply with those regulations, policies and procedures. Following the guidelines here does not exempt or supersede any requirements of the regulatory authorities.

**Pollutant Control Approach:** Many manufacturers do not recommend draining pools, spas, hot tubs or fountains; refer to the facility's operation and maintenance manual. Dispose of pool or spa water to the sanitary sewer after getting preapproval from the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 or your local sewer service provider or to a storm sewer following the conditions outlined below. Do not discharge to a septic system, since it may cause the system to fail.

### Required BMPs

- Clean the pool, spa, hot tub, or fountain regularly. Maintain proper chlorine levels per manufacturer's recommendations, and maintain water filtration and circulation. Doing so will limit the need to drain the facility.
- Manage pH and water hardness to reduce copper pipe corrosion that can stain the facility and pollute receiving waters.

- Before using copper algaecides, try less toxic alternatives. Only use copper algaecides if the other alternatives do not work. Ask a maintenance service or pool chemical supplier for help resolving persistent algae problems without using copper algaecides.
- Develop, implement, and regularly update a facility maintenance plan that follows all discharge requirements.
- Dispose of unwanted chemicals properly. Many of them are hazardous wastes when discarded.
- Discharge waters originating from a pool, spa, hot tub, or fountain to a sanitary sewer, if approved by the local sewer authority. Do not discharge waters containing copper-based algaecides to storm sewer systems.
- If discharge to the sanitary sewer is not possible, pool and spa water may be discharged to a ditch or stormwater drainage system. Do not discharge water directly from a pool, spa, hot tub, fountain, process wastes, or wastewaters into storm drains except if the discharge water is:
  - Dechlorinated to a concentration of 0.1 ppm or less (some guidance on dechlorination is provided in the Department of Health's Water System Design Manual, Revised 12/09, DOH Publication 331-123. The Department of Health manual further references AWWA. 1999b. C651 – AWWA Standard for Disinfecting Water Mains. American Water Works Association, Denver, CO. and AWWA. 2002. C652 – AWWA Standard for Disinfecting Water Storage Facilities. American Water Works Association, Denver, CO. for more details.) Contact a pool chemical supplier to obtain the neutralizing chemicals needed),
  - Free from sodium chloride.
  - pH-adjusted.
  - Reoxygenated, if necessary.
  - Free of any coloration, dirt, suds, or algae.
  - Volumetrically and velocity controlled to prevent resuspension of sediments.
  - Free of any filter media.
  - Free of acid cleaning wastes.
  - At a temperature that will prevent an increase in temperature in the receiving water. Cool heated water prior to discharge.

- Released at a rate that can be accommodated by the receiving body (i.e., can infiltrate or be safely conveyed).
- Swimming pool cleaning wastewater and filter backwash shall not be discharged to the storm sewer.
- Bag diatomaceous earth (pool filtering agent) and dispose at a landfill.
- Ensure that the pool/spa/hot tub/fountain system is free of leaks and operates within the design parameters.
- Do not provide any permanent links to stormwater drainage systems. All connections should be visible and carefully controlled.
- If the dechlorination or cooling process selected requires the water to be stored for a time, it should be contained within the pool or appropriate temporary storage container.

**Suggested BMPs**

- Hire a professional pool-draining service to collect all pool water for off-site disposal.

## A7.8 De-icing and Anti-icing Operations for Airports

*Refer to 40 CFR Part 449 for EPA effluent limitations guidelines and new source performance standards to control discharges of pollutants from airport deicing operations.*

**Description of Pollutant Sources:** De-icing and/or anti-icing compounds are used on highways, streets, airport runways, and on aircraft to control ice and snow. Typically ethylene glycol and propylene glycol are de-icing chemicals used on aircraft. De-icing chemicals commonly used on highways and streets include calcium magnesium acetate (CMA), calcium chloride, magnesium chloride, sodium chloride, urea, and potassium acetate. The de-icing and anti-icing compounds become pollutants when they are conveyed to storm drains or to surface water after application where they deplete oxygen in the receiving water. Leaks and spills of these chemicals can also occur during their handling and storage.

**Pollutant Control Approach for Aircraft:** Spent glycol discharges in aircraft application areas are regulated process wastewaters under Ecology's Industrial Stormwater General Permit. BMPs for aircraft anti-icing chemicals must be consistent with aviation safety and the operational needs of the aircraft operator.

### Required BMPs for Aircraft:

- Conduct aircraft de-icing or anti-icing applications in impervious containment areas. Collect aircraft de-icing spent chemicals, such as glycol, draining from aircraft in de-icing or anti-icing application areas and convey to a sanitary sewer, treatment, or other approved disposal or recovery method. Contact the LOTT Alliance Industrial Pretreatment Program at (360) 528-5708 to obtain permit for discharges to sanitary sewer. Divert de-icing runoff from paved gate areas to appropriate collection areas or conveyances for proper treatment or disposal.
- Do not discharge spent de-icing chemicals or stormwater contaminated with aircraft de-icing chemicals from application areas including gate areas, into storm drains. No discharge should occur to surface water or groundwater, directly or indirectly.
- Transfer de-icing and anti-icing chemicals on an impervious containment pad, or equivalent spill/leak containment area, and store in secondary containment areas (see Storage of Liquids in Aboveground Tanks).

### Suggested BMPs for Aircraft:

- Establish a centralized aircraft de/anti-icing facility, if feasible and practicable, or in designated areas of the tarmac equipped with separate collection drains for the spent de-icing liquids.
- Consider installing an aircraft de/anti-icing chemical recovery system, or contract with a chemical recycler, if practicable.

**Required BMPs for Airport Runways/Taxiways:**

- Avoid excessive application of all de/anti-icing chemicals, which could contaminate stormwater.
- Store and transfer de/anti-icing materials on an impervious containment pad or an equivalent containment area and/or under cover in accordance with BMP Storage or Transfer (Outside) of Solid Raw Materials, By-Products, or Finished Products in this volume. Consider other material storage and transfer approaches only if the anti-icing the material cannot reach surface or groundwater.

**Suggested BMPs for Airport Runways/Taxiways:**

- Include limits on toxic materials and phosphorous in the specifications for de/anti-icing chemicals, where applicable.
- Consider using anti-icing materials rather than de-icing if it will result in less adverse environmental impact.
- Select cost-effective de/anti-icing chemicals that cause the least adverse environmental impact.

## A7.9 Roof and Building Drains at Manufacturing and Commercial Buildings

**Description of Pollutant Sources:** Stormwater runoff from roofs and sides of manufacturing and commercial buildings can be sources of pollutants caused by leaching of roofing materials, building vents, and other air emission sources. Vapors and entrained liquid and solid droplets/particles have been identified as potential pollutants in roof/building runoff. Metals, solvents, acidic/alkaline pH, BOD, and organics are some of the pollutant constituents identified.

Ecology has performed a study on zinc in industrial stormwater. The study is presented in Ecology Publication 08-10-025, *Suggested Practices to reduce Zinc Concentrations in Industrial Stormwater Discharges*. The user should refer to this document for more details on addressing zinc in stormwater.

**Pollutant Control Approach:** Evaluate the potential sources of stormwater pollutants and apply source control BMPs where feasible.

### Required BMPs

- If leachates and/or emissions from buildings are suspected sources of stormwater pollutants, then sample and analyze the stormwater draining from the building.
- Sweep the area routinely to remove any residual pollutants.
- If a roof/building stormwater pollutant source is identified, implement appropriate source control measures such as air pollution control equipment, selection of materials, operational changes, material recycle, process changes, etc.
- Bare galvanized metal shall not be used for materials that convey stormwater, such as roofs, canopies, siding, gutters, downspouts, roof drains, and pipes. Any galvanized materials shall have an inert, non-leachable finish, such as baked enamel, fluorocarbon paint (such as Kynar or Hylar), factory-applied epoxy, pure aluminum, or asphalt coating. Acrylic paint, polyester paint, field-applied, and Galvalume coatings are not acceptable. Paint/coat the galvanized surfaces as described in Ecology Publication # 08-10-025.
- Treat runoff from roofs to the appropriate level. The facility may use Enhanced Treatment BMPs as described in Volume I. Some facilities regulated by the Industrial Stormwater General Permit may have requirements that cannot be achieved with Enhanced Treatment BMPs. In these cases, additional treatment measures may be required. A treatment method for meeting stringent requirements such as Chitosan-Enhanced Sand Filtration may be appropriate.

## A7.10 Urban Streets

**Description of Pollutant Sources:** Streets can be the sources of vegetative debris, paper, fine dust, vehicle liquids, tire wear residues, heavy metals (lead and zinc), soil particles, ice control salts, domestic wastes, lawn chemicals, and vehicle combustion products. Street surface contaminants have been found to contain significant concentrations of particle sizes less than 250 microns (Sartor and Boyd 1972).

**Pollutant Control Approach:** Conduct efficient street sweeping where and when appropriate to minimize the contamination of stormwater. Do not wash street debris into storm drains.

### Suggested BMPs

- For maximum stormwater pollutant reductions on curbed streets and high volume parking lots, use efficient vacuum sweepers.

*Note: High-efficiency street sweepers utilize strong vacuums and the mechanical action of main and gutter brooms combined with an air filtration system that only returns clean air to the atmosphere (i.e., filters very fine particulates). They sweep dry and use no water since they do not emit any dust.*

*High-efficiency vacuum sweepers have the capability of removing 80 percent or more of the accumulated street dirt particles whose diameters are less than 250 microns (Sutherland 1998). This assumes pavements under good condition and reasonably expected accumulation conditions.*

- For moderate stormwater pollutant reductions on curbed streets, use regenerative air sweepers or tandem sweeping operations.

*Note: A tandem sweeping operation involves a single pass of a mechanical sweeper followed immediately by a single pass of a vacuum sweeper or regenerative air sweeper.*

- *A regenerative air sweeper blows air down on the pavement to entrain particles and uses a return vacuum to transport the material to the hopper.*
- *These operations usually use water to control dust. This reduces their ability to pick up fine particulates.*

*These types of sweepers have the capability of removing approximately 25 to 50 percent of the accumulated street dirt particles whose diameters are less than 250 microns (Sutherland 1998). This assumes pavements under good conditions and typical accumulation conditions.*

- For minimal stormwater pollutant reductions on curbed streets, use mechanical sweepers.

*Note: The industry refers to mechanical sweepers as broom sweepers. They use the mechanical action of main and gutter brooms to throw material on a conveyor belt that transports it to the hopper.*

- *These sweepers usually use water to control dust. This reduces their ability to pick up fine particulates.*

*Mechanical sweepers have the capability of removing only 10 to 20 percent of the accumulated street dirt particles whose diameters are less than 250 microns (Sutherland 1998). This assumes pavements under good condition and the most favorable accumulation conditions.*

- Conduct vacuum sweeping at optimal frequencies. Optimal frequencies are those scheduled sweeping intervals that produce the most cost-effective annual reduction of pollutants normally found in stormwater and can vary depending on land use, traffic volume, and rainfall patterns.
- Train operators in those factors that result in optimal pollutant removal. These factors include controlling sweeper speed, brush adjustment and rotation rate, sweeping pattern, maneuvering around parked vehicles, and interim storage and disposal methods.
- Consider the use of periodic parking restrictions in low to medium density single-family residential areas to ensure the sweeper's ability to sweep along the curb unimpeded by parked vehicles.
- Establish programs for prompt vacuum sweeping, removal, and disposal of debris from special events that will generate higher than normal loadings. This includes leaf-fall during the autumn.
- Disposal of street sweeping solids must comply with "Recommendations for Management of Road maintenance materials" described in Appendix IV-C of this volume.
- Inform citizens about the importance of eliminating yard debris, oil, and other wastes in street gutters in order to reduce street pollutant sources.

## A7.11 Railroad Yards

**Description of Pollutant Sources:** Pollutant sources can include drips/leaks of vehicle fluids onto the railroad bed; human waste disposal; litter; locomotive/railcar/equipment cleaning ; fueling; outside material storage; the erosion and loss of soil particles from the railroad bed; maintenance and repair activities at railroad terminals, switching yards, and maintenance yards; and herbicides used for vegetation management.

Waste materials can include waste oil, solvents, degreasers, antifreeze solutions, radiator flush, acids, brake fluids, soiled rags, oil filters, sulfuric acid and battery sludges, machine chips with residual machining oil, and toxic fluids/solids lost during transit. Potential pollutants include oil and grease, total suspended solids, oxygen demanding substances (i.e., BOD and COD), organics, pesticides, and metals.

**Pollutant Control Approach:** Apply good housekeeping and preventive maintenance practices to control leaks and spills of liquids in railroad yard areas.

### Required BMPs

- Implement the applicable BMPs in this volume depending on the pollution generating activities/sources at a railroad yard facility.
- Do not allow discharge to outside areas from toilets while a train is in transit. Use pump out facilities to service these units.
- Use drip pans at hose/pipe connections during liquid transfer and other leak-prone areas
- When undergoing routine maintenance, discharge locomotive cooling systems only after the locomotive has stopped and at a location where the coolant can be collected, managed, and then disposed of properly.
- During maintenance do not discard debris or waste liquids along the tracks or in railroad yards.
- Handle wastes generated from large-scale equipment cleaning, such as locomotive, track equipment, or axle cleaning operations, properly to avoid harming the environment and to comply with state and federal environmental regulations.
- Store any metal scrap generated from metal punching or other mechanical operations out of contact with stormwater. For larger metal scrap, see suggested BMPs below.
- Do not dump, drain, or allow the discharge of any water-based coolant from multi-punch presses into storm drains.
- Place track mats under each rail/flange lubricator that is in service where track mats can be safely installed and maintained without danger to rolling stock or personnel.

- Select cost-effective rail/flange lubricant that provides safe and effective rail operation while considering adverse environmental impact. Consider both the chemical composition of the lubricant and the likelihood of transfer off of the rail during rain events.
- Inspect and replace track mats, as necessary. Routinely inspect all track mats for tears or saturation, and replace as necessary.
- Install spill containment pans/trays or track mat at designated locomotive and railcar maintenance facilities and fixed fueling areas, to reduce environmental impacts from potential spills under locomotives and other track equipment. Direct spill containment pans/trays to an oil/water separator where feasible for treatment or collect spilled chemicals for proper disposal.
- During locomotive fueling operations use drip pans or secondary containment to capture any fuel or oil seepage.
- Install track mats at designated Engine Tie-Up and/or outdoor locomotive parking locations (e.g., service tracks) located in SWPPP permitted areas where locomotives are unattended and idle for extended periods of time.
- Do not conduct heavy/major locomotive engine repairs on the rail line. Conduct heavy/major engine repairs at an established railroad maintenance facility.
- Store creosote-treated railroad ties in locations that reduce the potential to impact stormwater runoff.
- In areas subjected to leaks/spills of oils or other chemicals, convey stormwater to appropriate treatment such as a sanitary sewer (if approved by LOTT Alliance Industrial Pretreatment Program at (360) 528-5708), to an API or coalescent plate oil/water separator for floating oils, or other appropriate treatment BMP (as approved by Thurston County). See Volume V.

### **Suggested BMPs**

- At each rail/flange lubricator that is in service use rain sensors to adjust the lubrication cycle accordingly to limit the amount of lubricant exposed to stormwater.
- Store large metal scrap and materials that cannot be stored in covered areas because of their size, volume, and/or weight (for example rail and tie plates) in locations where stormwater runoff is managed, controlled, and directed to a Runoff Treatment BMP that meets the Enhanced Treatment Performance Goal.

## A7.12 Maintenance of Public and Utility Corridors and Facilities

**Description of Pollutant Sources:** Corridors and facilities at petroleum product, natural gas, and water pipelines and electrical power transmission corridors and rights-of-way can be sources of pollutants, such as herbicides used for vegetation management and eroded soil particles from unpaved access roads. At pump stations, waste materials generated during maintenance activities may be temporarily stored outside. Additional potential pollutant sources include the leaching of preservatives from wood utility poles, PCBs in older transformers, water that is removed from underground transformer vaults, and leaks/spills from petroleum pipelines. The following are potential pollutants: oil and grease, total suspended solids, BOD organics, PCBs, pesticides, and heavy metals.

**Pollutant Control Approach:** Implementation of spill control plans as well as control of fertilizer and pesticide applications, soil erosion, and site debris that can contaminate stormwater.

### Required BMPs

- Implement BMPs included in Chapter 4, A.6 Landscaping and Lawn/Vegetation Management and in Chapter 7, Section 7.2, R.6 Pesticide Regulations.
- When removing water or sediments from electric transformer vaults, determine the presence of contaminants before disposing of the water and sediments. This includes inspecting for the presence of oil or sheen, and determining from records or testing if the transformers contain PCBs. If records or tests indicate that the sediment or water are contaminated above applicable levels, manage these media in accordance with applicable federal and state regulations, including the federal PCB rules (40 CFR 761) and the state MTCA cleanup regulations (Chapter 173-340 WAC). Water removed from the vaults can be discharged in accordance with the federal 40 CFR 761.79, and state regulations (Chapter 173-201A WAC and Chapter 173-200 WAC), or via the sanitary sewer if the requirements, including applicable permits, for such a discharge are met. (See also Chapter 7, Section 7.2-R2.)
- Within utility corridors, prepare maintenance procedures and an implementation schedule that provides for vegetative, gravel, or equivalent cover that minimizes bare or thinly vegetated ground surfaces within the corridor to prevent the erosion of soil.
- Provide maintenance practices to prevent stormwater from accumulating and draining across and/or onto roadways. Convey stormwater through roadside ditches and culverts. The road should be crowned, outsloped, water barred, or otherwise left in a condition not conducive to erosion. Appropriately maintaining grassy roadside ditches discharging to surface

waters is an effective way of removing many pollutants associated with sediments carried by stormwater.

- Maintain ditches and culverts at an appropriate frequency to ensure that plugging and flooding across the roadbed, with resulting overflow erosion, does not occur.
- Apply the appropriate BMPs from Section A4 of this volume, Storage Activities, for the storage of waste materials that can contaminate stormwater.

### **Suggested BMPs**

- When selecting utility poles for a specific location, consider the potential environmental effects of the pole or poles during storage, handling, and end-use, as well as its cost, safety, efficacy, and expected life. Use wood products treated with chemical preservatives made in accordance with generally accepted industry standards such as the American Wood Preservers Association Standards. Consider alternative materials or technologies if placing poles in or near an environmentally sensitive area, such as a wetland or a drinking water well. Alternative technologies include poles constructed with material(s) other than wood, such as fiberglass composites, metal, or concrete. Consider other technologies and materials, such as sleeves or caissons for wood poles, when they are determined to be practicable and available.
- As soon as practicable, remove all litter from wire cutting/replacing operations,
- Implement temporary erosion and sediment control in areas cleared of trees and vegetation and during the construction of new roads.

### A7.13 Maintenance of Roadside Ditches

**Description of Pollutant Sources:** Common road debris including eroded soil, oils, vegetative particles, and heavy metals can be sources of stormwater pollutants.

**Pollutant Control Approach:** Maintain roadside ditches to preserve the condition and capacity for which they were originally constructed, and to minimize bare or thinly vegetated ground surfaces. Maintenance practices should provide for ESC (refer to Activity [A3.6](#) Landscaping and Lawn/Vegetation Management).

#### Required BMPs

- Inspect roadside ditches regularly to identify sediment accumulations and localized erosion.
- Clean ditches on a regular basis, as needed. Keep ditches free of rubbish and debris.
- Vegetation in ditches often prevents erosion and cleanses runoff waters. Remove vegetation only when flow is blocked or excess sediments have accumulated. Conduct ditch maintenance (seeding, fertilizer application, harvesting) in late spring and/or early fall, where possible. This allows vegetative cover to be re-established by the next wet season, thereby minimizing erosion of the ditch as well as making the ditch effective as a biofilter.
- In the area between the edge of the pavement and the bottom of the ditch, commonly known as the “bare earth zone,” use grass vegetation, wherever possible. Establish vegetation from the top of the slope of the ditch as long as it does not block the sightlines required for safety.
- Maintain diversion ditches on top of cut slopes constructed to prevent slope erosion by intercepting surface drainage to retain their diversion shape and capability.
- Do not leave ditch cleanings on roadway surfaces. Sweep, collect, and dispose of dirt and debris remaining on the pavement at the completion of ditch cleaning operations as described below:
  - Consider screening roadside ditch cleanings not contaminated by spills or other releases and not associated with a stormwater treatment system such as a bioswale to remove litter. Separate screenings into soil and vegetative matter (leaves, grass, needles, branches, etc.) categories. Compost or dispose of the vegetative matter in a municipal waste landfill. Consult the Thurston County Health Department 360-867-2664 to discuss use or disposal options for the soil portion. For more information, please see “Recommendations for Management of Material Generated from Road Maintenance Activities,” in Appendix IV-C of this volume.

- Roadside ditch cleanings contaminated by spills or other releases known or suspected to contain dangerous waste must be handled following the Dangerous Waste Regulations (Chapter 173-303 WAC). If testing determines it is not dangerous waste but contaminants are present, consult with the Thurston County Health Department 360-867-2664 for disposal options.
- Inspect culverts on a regular basis for scour or sedimentation at the inlet and outlet, and repair as necessary. Give priority to those culverts conveying perennial and/or salmon-bearing streams and culverts near streams in areas of high sediment load, such as those near subdivisions during construction.

### **Suggested BMPs**

- Install biofiltration swales, bioinfiltration swales and filter strips to treat roadside runoff wherever practicable and use engineered topsoils wherever necessary to maintain adequate vegetation (CH2M Hill 2000). Consider using the Media Filter Drain BMP where adequate slope and level of traffic permit it. These systems can improve infiltration and stormwater pollutant control upstream of roadside ditches. See Volume V of this manual, Runoff Treatment BMPs, for additional information about biofiltration swales, bioinfiltration swales, filter strips, and media filter drains.

## A7.14 Maintenance of Stormwater Drainage and Treatment Facilities

**Description of Pollutant Sources:** Facilities include roadside catch basins on arterials and within residential areas, conveyance systems, detention facilities such as ponds and vaults, oil and water separators, bioretention, biofilters, settling basins, infiltration systems, and all other types of stormwater treatment systems presented in Volume V. Oil and grease, hydrocarbons, debris, heavy metals, sediments, and contaminated water are found in catch basins, oil and water separators, settling basins, etc.

**Pollutant Control Approach:** Provide maintenance and cleaning of debris, sediments, and oil from stormwater collection, conveyance, and treatment systems to obtain proper operation.

### Required BMPs

Maintain stormwater treatment facilities per the operations and maintenance (O&M) procedures presented in Volume V, Appendix V-C, in addition to the following BMPs:

- Inspect and clean treatment BMPs, conveyance systems, and catch basins (Figure IV - 4.23) as needed, and determine whether improvements or maintenance are needed.
- Promptly repair any deterioration threatening the structural integrity of stormwater facilities. These include replacement of clean-out gates, catch basin lids, and rock in emergency spillways.
- Ensure adequacy of storm sewer capacities and prevent heavy sediment discharges to the storm sewer system, by methods like those found in C-220, Storm Drain Inlet Protection.
- Regularly remove debris and sludge from BMPs used for flow control, treatment, etc. and truck to an appropriate local or state government approved disposal site.
- Clean catch basins in accordance with the information provided in Volume V, Appendix V-C. Additional information is also included in Chapter 5 of this volume, BMP S.9 Cleaning Catch Basins.
- Clean woody debris in a catch basin as frequently as needed to ensure proper operation of the catch basin.
- Install monuments on storm drain inlet rims that state: “Dump No Waste - Drains to Groundwater,” “Streams,” “Lakes,” where possible (Figure IV - 4.24).



Figure IV - 4.23 Catch Basin Cleaning with a Vacuum Truck.



Figure IV - 4.24 “No Dumping” Storm Drain Button.

- Disposal of sediments and liquids from the catch basins must comply with “Recommendations for Management of Road maintenance materials” described in Appendix IV-C of this volume.

- Eliminate illicit connections to the stormwater drainage system. See BMP S.1 in Chapter 5 for details on detecting and eliminating these connections.
- Select additional applicable BMPs from this chapter depending on the pollutant sources and activities conducted at the facility. Those BMPs include:
  - [A4.7](#) – Storage of Liquid, Food Waste, or Dangerous Waste Containers
  - [A6.3](#) – Soil ESC at Industrial Sites
  - [A7.10](#) – Urban Streets
  - [A7.15](#) – Spills of Oil and Hazardous Substances.

## A7.15 Spills of Oil and Hazardous Substances

**Description of Pollutant Sources:** Federal law requires owners or operators of facilities engaged in drilling, producing, gathering, storing, processing, transferring, distributing, refining or consuming oil and/or oil products to have a Spill Prevention and Emergency Cleanup Plan (SPECP). The SPECP is required if the above ground storage capacity of the facility is 1,320 gallons or more of oil, or any single container with a capacity in excess of 660 gallons and which, due to their location, could reasonably be expected to discharge oil in harmful quantities, as defined in 40 CFR Part 110, into or upon the navigable waters of the United States or adjoining shorelines {40 CFR 112.1(b)}. Onshore and offshore facilities, which, due to their location, could not reasonably be expected to discharge oil into or upon the navigable waters of the United States or adjoining shorelines are exempt from these regulations {40 CFR 112.1(1)(i)}.

State Law requires owners of businesses that produce dangerous wastes to have a SPECP. These businesses should refer to Chapter 7, Section 7.2, R-2. The federal definition of oil is oil of any kind or any form, including, but not limited to, petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged spoil.

**Pollutant Control Approach:** Maintain, update, and implement a Spill Prevention and Emergency Cleanup Plan.

### Required BMPs

- Prepare a SPECP, which includes:
  - A description of the facility including the owner's name and address.
  - The nature of the activity at the facility.
  - The general types of chemicals used or stored at the facility.
  - A site plan showing the location of storage areas for chemicals, the locations of storm drains, the areas draining to them, and the location and description of any devices to stop spills from leaving the site such as positive control valves.
  - Cleanup procedures.
  - Notification procedures to be used in the event of a spill, such as notifying key personnel. Agencies such as Ecology, Thurston County Fire Marshal, the local Fire District (call 911), Washington State Patrol, Thurston County, U.S. Coast Guard, and the U.S. EPA shall be notified.
  - The name of the designated person with overall spill cleanup and notification responsibility.

- Train key personnel in the implementation of the SPEC. Prepare a summary of the plan and post it at appropriate points in the building, identifying the spill cleanup coordinators, location of cleanup kits, and phone numbers of regulatory agencies to contact in the event of a spill.
- Update the SPEC regularly.
- Immediately notify Ecology and Thurston County if a spill may reach sanitary or storm sewers, groundwater, or surface water, in accordance with federal and Ecology spill reporting requirements.
- Immediately cleanup spills. Do not use emulsifiers for cleanup unless there is an appropriate disposal method for the resulting oily wastewater. Do not wash absorbent material down a floor drain or into a storm sewer.
- Locate emergency spill containment and cleanup kit(s) in high potential spill areas. The contents of the kit shall be appropriate for the type and quantities of chemical liquids stored at the facility (Figure IV - 4.25).



(Photo courtesy of Seattle Public Utilities)

**IV - Figure 4.25 Example of Spill Kit Contents.**

**Suggested BMP**

- Spill kits should include appropriately lined drums, absorbent pads, and granular or powdered materials for neutralizing acids or alkaline liquids where applicable. In fueling areas: package absorbent material in small bags for easy use and make available small drums for storage of

absorbent and/or used absorbent. Deploy spill kits in a manner that allows rapid access and use by employees.

## **A7.16 Streets and Highways**

**Description of Pollutant Sources:** These BMPs apply to the maintenance and deicing/anti-icing of streets and highways. Deicing products can be conveyed during storm events to inlets/catch basins or to receiving waters after application. Leaks and spills of these products can also occur during their handling and storage. Equipment and processes used during maintenance can contribute pollutants such as oil and grease, suspended solids, turbidity, high pH, and metals.

**Pollutant Control Approach:** Apply good housekeeping practices, preventative maintenance, properly train employees, and use materials that cause less adverse effects on the environment.

### **Required BMPs**

#### **Deicing and Anti-Icing Operations**

- Adhere to manufacturer's guidelines and industry standards of use and application.
- Store and transfer de and anti-icing materials on impervious containment pads, or an equivalent spill/leak containment area in accordance with A4.1 Storage or Transfer (Outside) of Solid Raw Materials, By-Products, or Finished Products in this volume.
- Sweep/cleanup accumulated de-icing and anti-icing materials and grit from roads as soon as possible after the road surface clears.
- Minimize use in areas where runoff or spray from the roadway immediately enters sensitive areas such as fish-bearing streams.

#### **Maintenance Operations**

- Use drip pans or absorbents wherever concrete, asphalt, asphalt emulsion, paint product, and drips are likely to spill, such as beneath discharge points from equipment.
- Cover and contain nearby storm drains to keep runoff from entering the drainage system.
- Collect and contain all solids, slurry, and rinse water. Do not allow these to enter gutters, storm drains, or drainage ditches or onto the paved surface of a roadway or driveway.

- Designate all fueling equipment in accordance with A2.4 Mobile Fueling of Vehicles and Heavy Equipment.
- Do not use diesel fuel for cleaning or prepping asphalt tools and equipment.
- Sweep areas frequently as needed. Collect all loose aggregate and dust for disposal. Do not hose down areas into storm drains.
- Store all fuel, paint, and other products in secondary containment.
- Conduct paint striping operations during dry weather.

### **Suggested BMPs**

- Where feasible and practicable, use roadway deicing chemicals that cause the least adverse environmental impact. Apply only as needed using minimum quantities. Consider the Pacific Northwest Snowfighters Qualified Products List when selecting roadway deicers and anti-icers.
- Intensify roadway and drainage structure cleaning in early spring to help remove particles from road surfaces.
- Include limits on toxic metals in the specifications for de/anti-icers.
- Install catch basin inserts to collect excess sediment and debris as necessary. Inspect and maintain catch basin inserts to ensure they are working correctly.
- Research mixtures (e.g. corrosion inhibitors, surfactants) to determine what additional pollutants may be an issue. Verify with Thurston County Water Resources Division at 360-754-4681 if there are any restrictions on admixtures.

### **A7.17 Maintenance and Repair of Vehicles and Equipment**

**Description of Pollutant Sources:** Pollutant sources include parts/vehicle cleaning, spills/leaks of fuel and other liquids, replacement of liquids, outdoor storage of batteries/liquids/parts, and vehicle parking.

**Pollutant Control Approach:** Control of leaks and spills of fluids using good housekeeping and cover and containment BMPs.

### **Required BMPs**

- Inspect all incoming vehicles, parts, and equipment stored temporarily outside for leaks.

- Use drip pans or containers under parts or vehicles that drip or that are likely to drip liquids, such as during dismantling of liquid containing parts or removal or transfer of liquids. Inspect drip pans regularly to prevent accumulation of stormwater or other liquids, and dispose of any accumulated liquid appropriately.
- Remove batteries and liquids from vehicles and equipment in designated areas designed to prevent stormwater contamination. Store cracked batteries in a covered non-leaking secondary containment system.
- Remove liquids from vehicle retire for scrap.
- Empty oil and fuel filters before disposal. Provide for proper disposal of used oil and fuel.
- Do not pour/convey washwater, liquid waste, or other pollutants into storm drains or to surface water. Check with the local sewer authority for approval to convey water to a sanitary sewer.
- Do not connect maintenance and repair shop floor drains to storm drains or to surface water.
- To allow for snowmelt during the winter, install a drainage trench with a sump for particulate collection. Use the drainage trench for draining the snowmelt only. Do not discharge any vehicular or shop pollutants to the trench drain.
- Conduct all maintenance and repair of vehicles and equipment in a building, or other covered impervious containment areas that is sloped to prevent runoff of uncontaminated stormwater and runoff of contaminated water.
- Operators may conduct maintenance of refrigeration engines in refrigerated trailers in the parking area. Exercise due caution to avoid the release of engine or refrigeration fluids to storm drains or surface water.
- Park large mobile equipment, such as log stackers, in a designated contained area.
- Convey contaminated stormwater runoff from vehicle staging and maintenance areas to a sanitary sewer, if allowed by the local sewer authority, or to an API or CP oil and water separator followed by a Basic Treatment BMP (See Volume 1), applicable filter, or other equivalent oil treatment system.

### Suggested BMPs

- Store damaged vehicles inside a building or other covered containment, until successfully removing all liquids.
- Clean parts with aqueous detergent based solutions or non-chlorinated solvents such as kerosene or high flash mineral spirits, and/or use wire brushing or sandblasting whenever practicable. Avoid using toxic liquid cleaners such as methylene chloride, 1, 1, 1-trichloroethane, trichloroethylene or similar chlorinated solvents. Choose cleaning agents that can be recycled.
- Inspect all BMPs regularly, particularly after a significant storm. Identify and correct deficiencies to ensure that the BMPs are functioning as intended.
- Avoid hosing down work areas. Use dry methods for cleaning leaked fluids.
- Recycle greases, used oil, oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic fluids, transmission fluids, and engine oils. Contact Ecology's Hazardous Waste & Toxics Reduction Program for recommendations on recycling or disposal of waste materials.
- Do not mix dissimilar or incompatible waste liquids stored for recycling.

### A7.18 Well, Utility, Directional and Geotechnical Drilling

**Description of Pollutant Source:** This activity applies to drilling water wells and utilities, environmental protection and monitoring wells, and geotechnical borings that use machinery in the drilling. It does not apply to the use of devices such as hand augers, or for large structural drilling such as drilled shafts.

Drilling activities can expose soil and contaminated soil. These activities may cause the discharge of stormwater contaminated with sediments and other contaminants. This risk increases when drilling in areas with contaminated soils.

**Pollutant Control Approach:** Reduce sediment runoff from drilling operations.

### Required BMPs

- When drilling in areas of known or suspected soil contamination, test and characterize soil cuttings and accumulated sediment to determine proper management and disposal methods. If applicable, generator knowledge may be used to characterize the soil cuttings and accumulated sediment.
- Obtain permits for drilling activities and for clearing and grading the access routes and the work site.

- Protect environmentally sensitive areas (streams, wetlands, floodplains, floodways, erosion hazards, and landslide hazards) within the area of influence of the work site.
- Mitigate potential impacts to surrounding areas and/or the drainage system.
- For horizontal directional drilling, take measures to capture and contain drilling fluids and slurry.
- Equip the driller to quickly respond to unusual conditions that may arise.
- Locate and prepare access roadways to minimize the amount of excavation and the potential for erosion.
- Contain accumulated uncontaminated water and sediment on site and pump into a storage tank or direct through a geotextile filtration system (or equivalent system) before discharging to the surrounding ground surface. Contaminants may include, but are not limited to, hydraulic fluids, contaminants in the soil and/or groundwater, polymers, and other drilling fluid additives.
- Keep all sediment-laden water out of storm drains and surface waters. If sediment-laden water does escape from the immediate drilling location, block flow to any nearby waterways or catch basins using fabric, inlet protections, sandbags, erosion fences, or other similar methods. Immediately notify Ecology and the Thurston County Water Resources Division if sediment-laden water impacts the storm sewer system or surface waters.
- Divert any concentrated flows of water into the site using sandbags or check dams up-slope from the site.
- Dispose of soil cuttings and accumulated sediment appropriately. If cuttings or other soils disturbed in the drilling process are to be temporarily stockpiled on site, they must be covered and surrounded by a berm or filter device. See A4.1 Storage or Transfer (Outside) of Solid Raw materials, Byproducts, or Finished Products.
- Stabilize exposed soils at the end of the job using mulch or other erosion control measures. See A6.3 Soil Erosion and Sediment Control at Industrial Sites.
- Contain spent drilling slurry on site and allow it to dewater, or haul to an appropriate, approved disposal site.
- Restore disturbed areas with mulch (see BMP C121: Mulching) and seeding or hydroseeding (see BMP C120: Temporary and Permanent Seeding).

## A7.19 Roof Vents

**Description of Pollutant Sources:** This activity applies to processes that vent emissions to the roof and/or the accumulation of pollutants on roofs. Processes of special concern are stone cutting, metal grinding, spray painting, painting stripping, galvanizing and electroplating. Pollutants from these processes may build up on roofs and may pollute stormwater roof runoff.

**Pollutant Control Approach:** Evaluate the potential sources of stormwater pollutants and apply source control BMPs where feasible.

### Required BMPs

- Identify processes that are vented and may contribute pollutants to the roof. Pollutants of concern include and are not limited to:
  - Metal dust
  - Grease from food preparation
  - Solvents
  - Hydrocarbons
  - Fines
  - Stone dust
- Look for chemical deposition around vents, pipes, and other surfaces.
- Install and maintain appropriate source control measures such as air pollution control equipment (filters, scrubbers, and other treatment).
  - Check that your scrubber solution is appropriate for the chemistry of the fumes.
  - Install vent covers and drip pans where there are none.
  - Prevent leaks in pipefittings and containment vessels with routine maintenance.
- Consider instituting operational or process changes to reduce pollution.
- If proper installation and maintenance of air pollution control equipment does not prevent pollutant fallout on your roof, additional treatment of the roof runoff may be necessary.

- Install/provide appropriate devices for roof runoff before it is discharged off site. This may include approved water quality treatment BMPs or structural stormwater treatment systems.
- Maintain air filters and pollution control equipment on a regular basis to ensure they are working properly. (The smell of odors from outside the building indicates that the pollution control equipment may need maintenance or evaluation.)
- When cleaning accumulated emissions from roof tops, collect the washwater and loose materials using a sump pump, wet vacuum or similar device. The collected runoff may be discharge to the sanitary sewer after approved by the local sewer authority, or have a waste disposal company remove it.

## ***Appendix C***

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### Flow Chart for Core Requirement No. 5

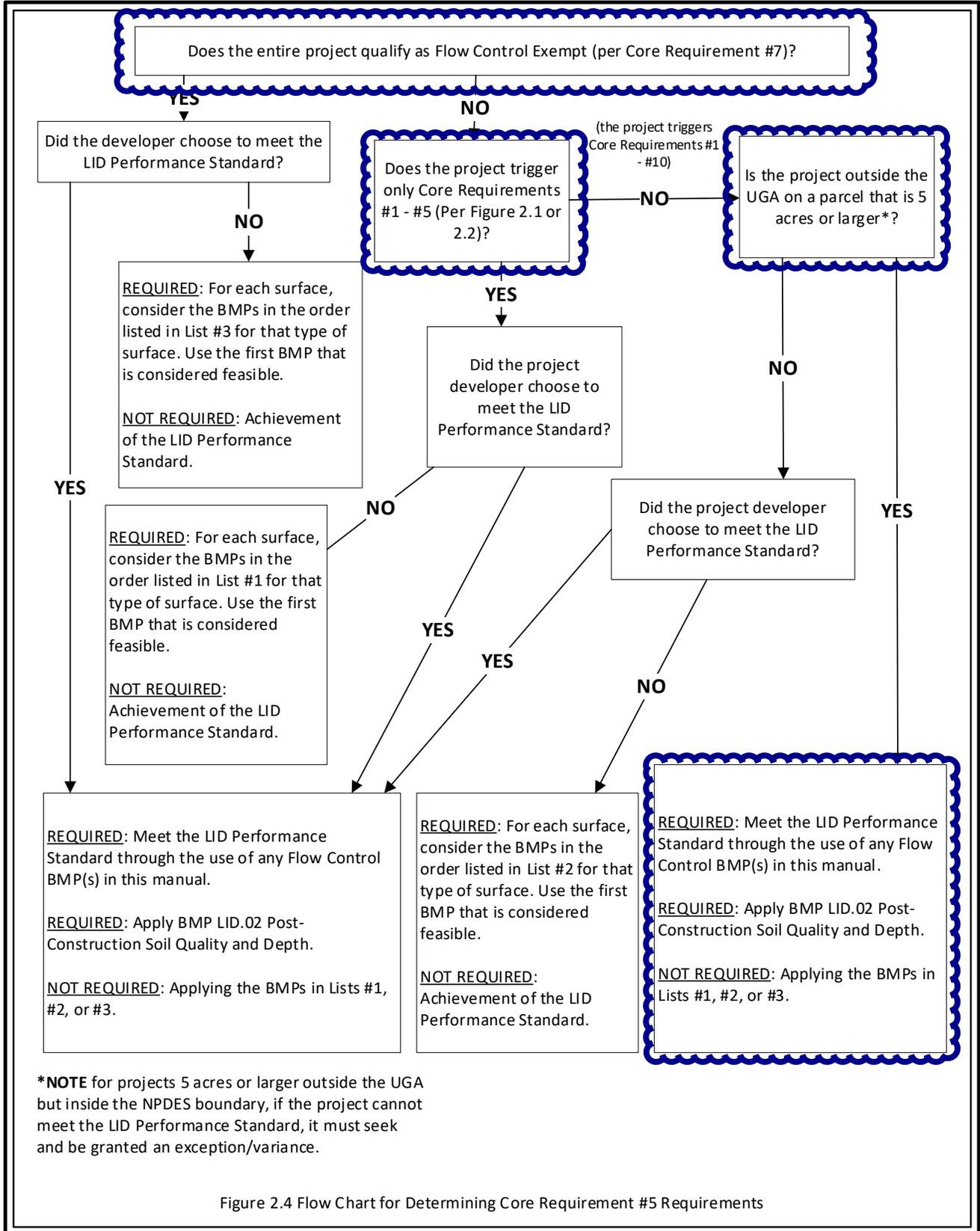


Figure 2.4 Flow Chart for Determining Core Requirement #5 Requirements

Figure I - 2.4 Flow Chart for Determining Core Requirement #5 Requirements

## ***Appendix D***

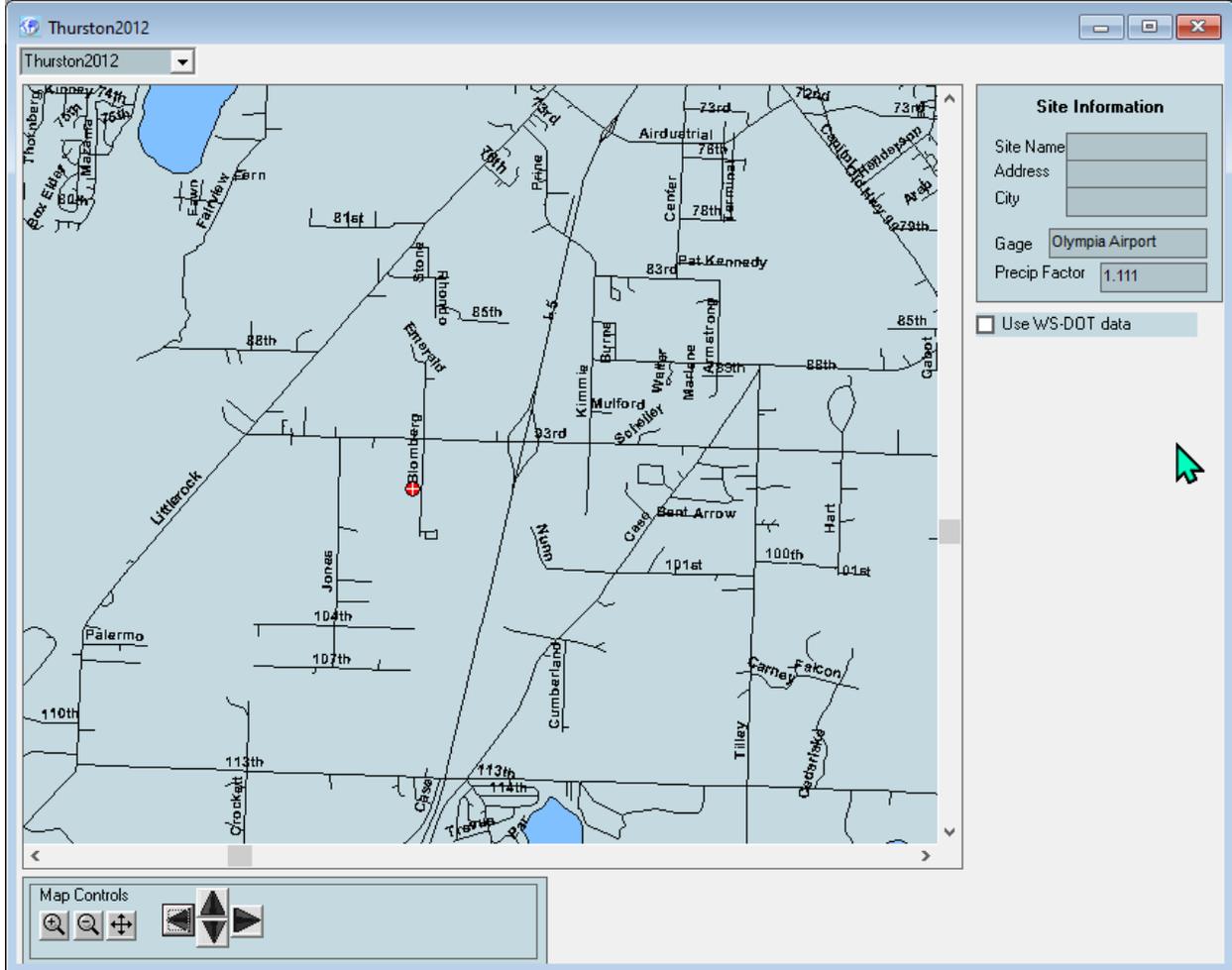
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WWHM Results

## WWHM2012 Data Entry and Results

Screenshots of the WWHM2012 software (Version 4.2.19) model data entry and results are provided below.

### Site Location and Rain Gauge Scaling



# Predeveloped Conditions WWHM Scenario

Schematic

**SCENARIOS**

Predeveloped  
 Mitigated

Run Scenario

Basic Elements

Pro Elements

LID Toolbox

Commercial Toolbox

Move Elements

Save x,y | Load x,y

40  
57

Thu 2:21p - 20240213 Webster\_Infiltration - Finish Mitigated

Basin 1 Predeveloped

Subbasin Name: Basin 1

Flows To : Surface Interflow Groundwater

Area in Basin  Show Only Selected

Available Pervious	Acres	Available Impervious	Acres
<input checked="" type="checkbox"/> A/B, Forest, Flat	7.8	<input checked="" type="checkbox"/> ROADS/FLAT	0
		<input checked="" type="checkbox"/> POND	0

Pervious Total	7.8	Acres
Impervious Total	0	Acres
Basin Total	7.8	Acres

Deselect Zero    Select By:    GO

## Developed Conditions to Vault WWHM Scenario

**Basin 1 Mitigated**

Subbasin Name: Basin 1  Designate as Bypass for POC:

Surface: Trapezoidal Pond 1 Interflow: Trapezoidal Pond 1 Groundwater:

Flows To :

Area in Basin  Show Only Selected

Available Pervious	Acres	Available Impervious	Acres
<input checked="" type="checkbox"/> A/B, Forest, Flat	0	<input checked="" type="checkbox"/> ROADS/FLAT	7
		<input checked="" type="checkbox"/> POND	8

Pervious Total	0	Acres
Impervious Total	7.8	Acres
Basin Total	7.8	Acres

Deselect Zero Select By:  GO

# Developed Conditions Infiltration Pond Design

**SCENARIOS**

Predeveloped

Mitigated

Run Scenario

**Basic Elements**

**Pro Elements**

LID Toolbox

**Commercial Toolbox**

**Move Elements**

Save x,y    Load x,y

0  
loc

Trapezoidal Pond 1 Mitigated
✕

**Facility Name** Trapezoidal Pond 1

**Downstream Connections**

Precipitation Applied to Facility

Evaporation Applied to Facility

**Facility Dimensions**

Facility Bottom Elevation (ft) 0

Bottom Length (ft) 80

Bottom Width (ft) 440

Effective Depth (ft) 4

Left Side Slope (H/V) 3

Bottom Side Slope (H/V) 3

Right Side Slope (H/V) 3

Top Side Slope (H/V) 3

**Infiltration**

Measured Infiltration Rate (in/hr) 1

Reduction Factor (infiltr factor) 1

Use Wetted Surface Area (sidewalls) Yes

Total Volume Infiltrated (ac-ft) 1683.738

Total Volume Through Riser (ac-ft) 0

Total Volume Through Facility (ac-ft) 1683.74

Percent Infiltrated 100

Size Infiltration Pond

Target %: 100

Tide Gate | Time Series | Demand

Determine Outlet With Tide Gate

Use Tide Gate

Tide Gate Elevation (ft) 0    Downstream Connection

Overflow Elevation (ft) 0    Iterations 0

**Facility Type**

**Outlet 1** 0

**Outlet 2** 0

**Outlet 3** 0

Auto Pond    Quick Pond

**Facility Dimension Diagram**

**Outlet Structure Data**

Riser Height (ft) 3

Riser Diameter (in) 18

Riser Type Flat

Notch Type

**Orifice Number Diameter Height**

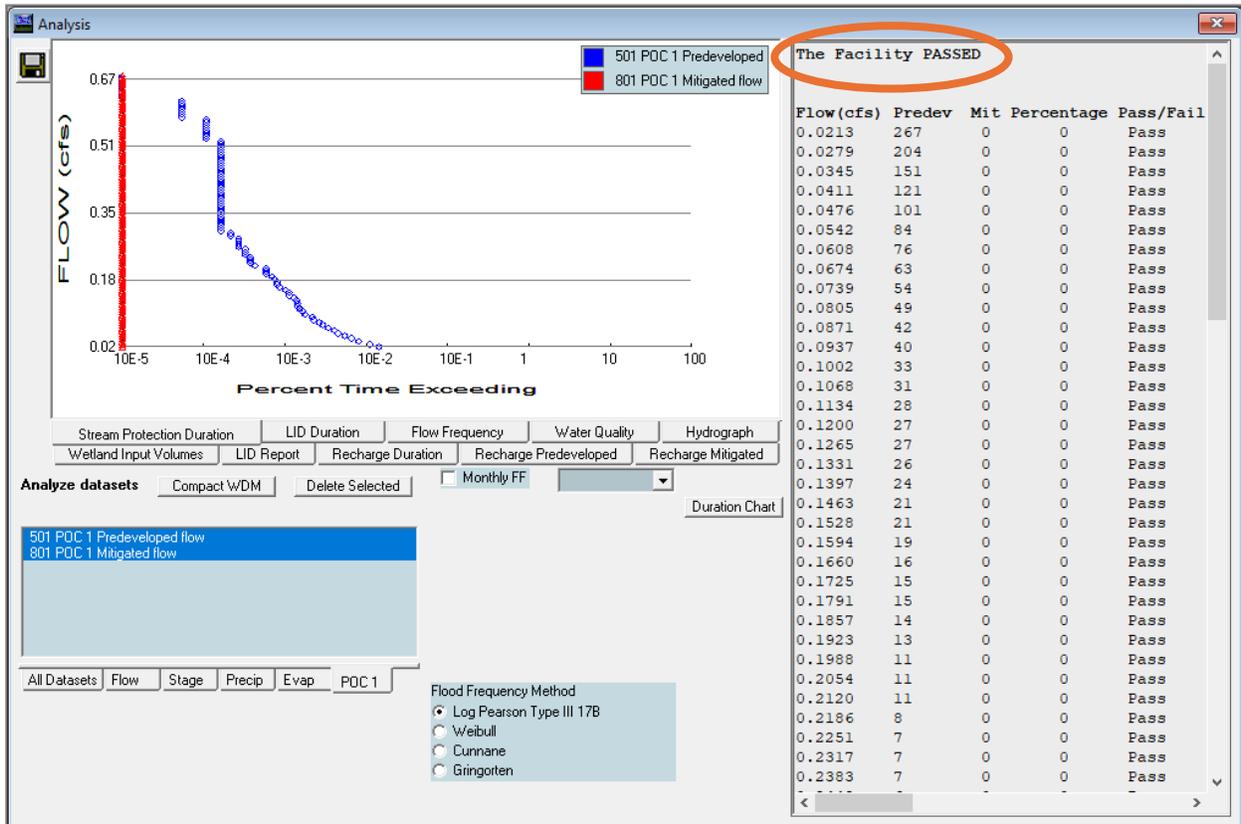
Number	Diameter (in)	Height (ft)
1	0	0
2	0	0
3	0	0

Pond Volume at Riser Head (ac-ft) 2.777

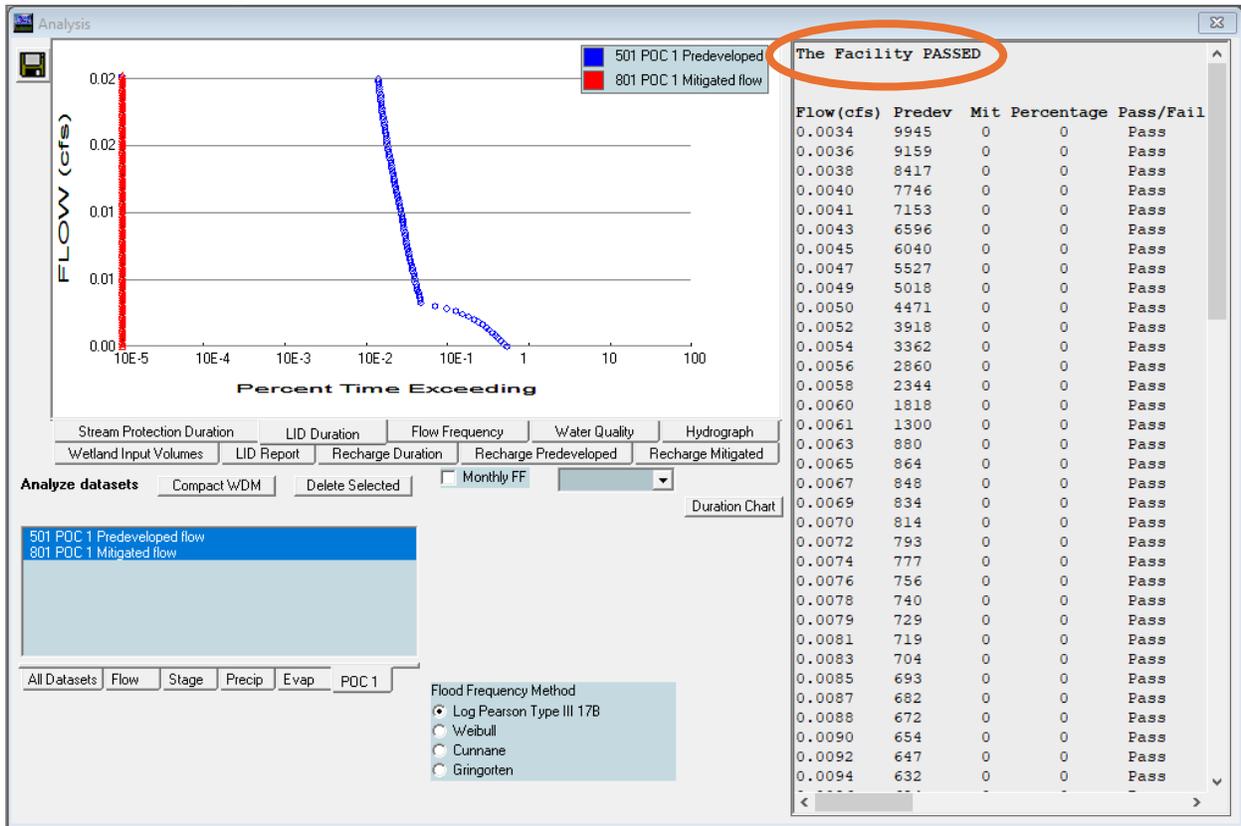
**Show Pond Table** Open Table

Initial 0

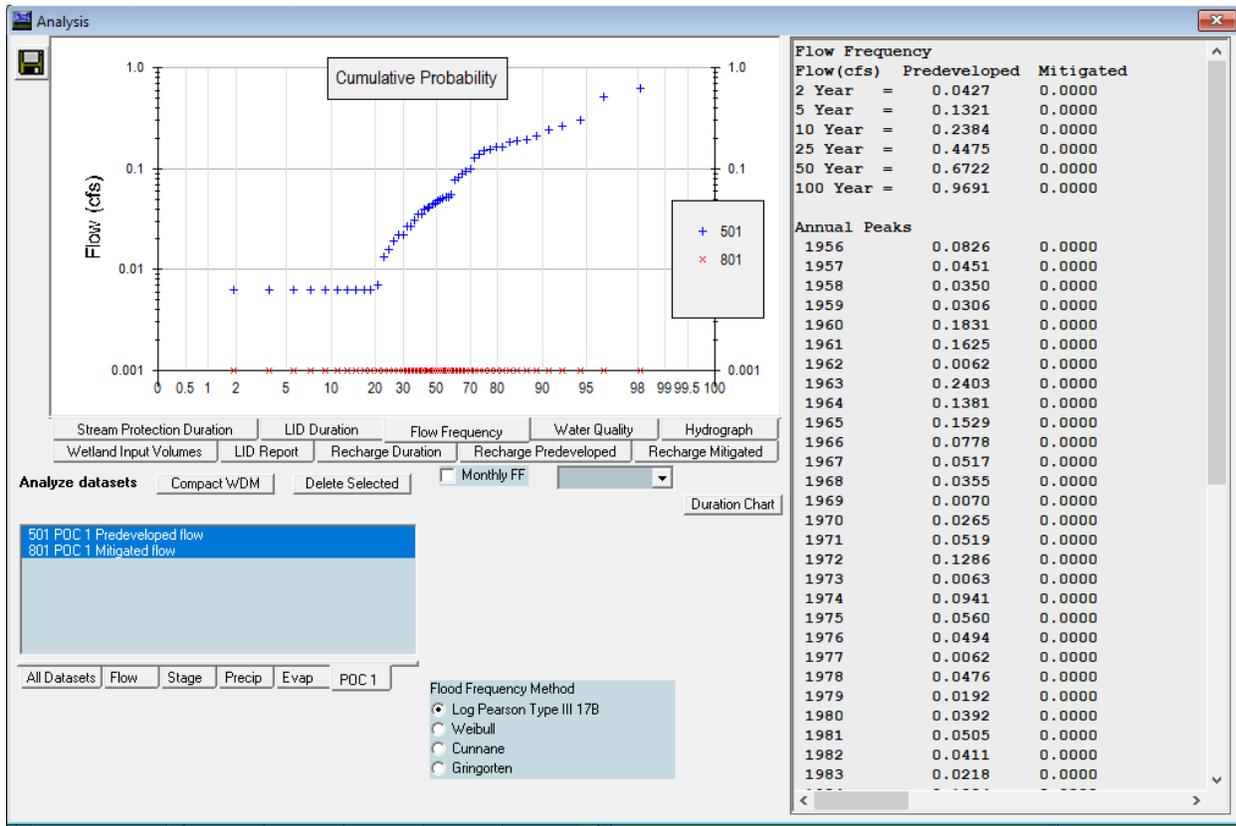
# Stream Protection Duration Analysis



# LID Duration Analysis



# Flow Frequency Analysis



WWHM2012 software demonstrates the project pond design meets Thurston County requirements. See the Design Plans for the facility design and details.

## ***Appendix E***

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### Flow Chart for Wetlands Protection

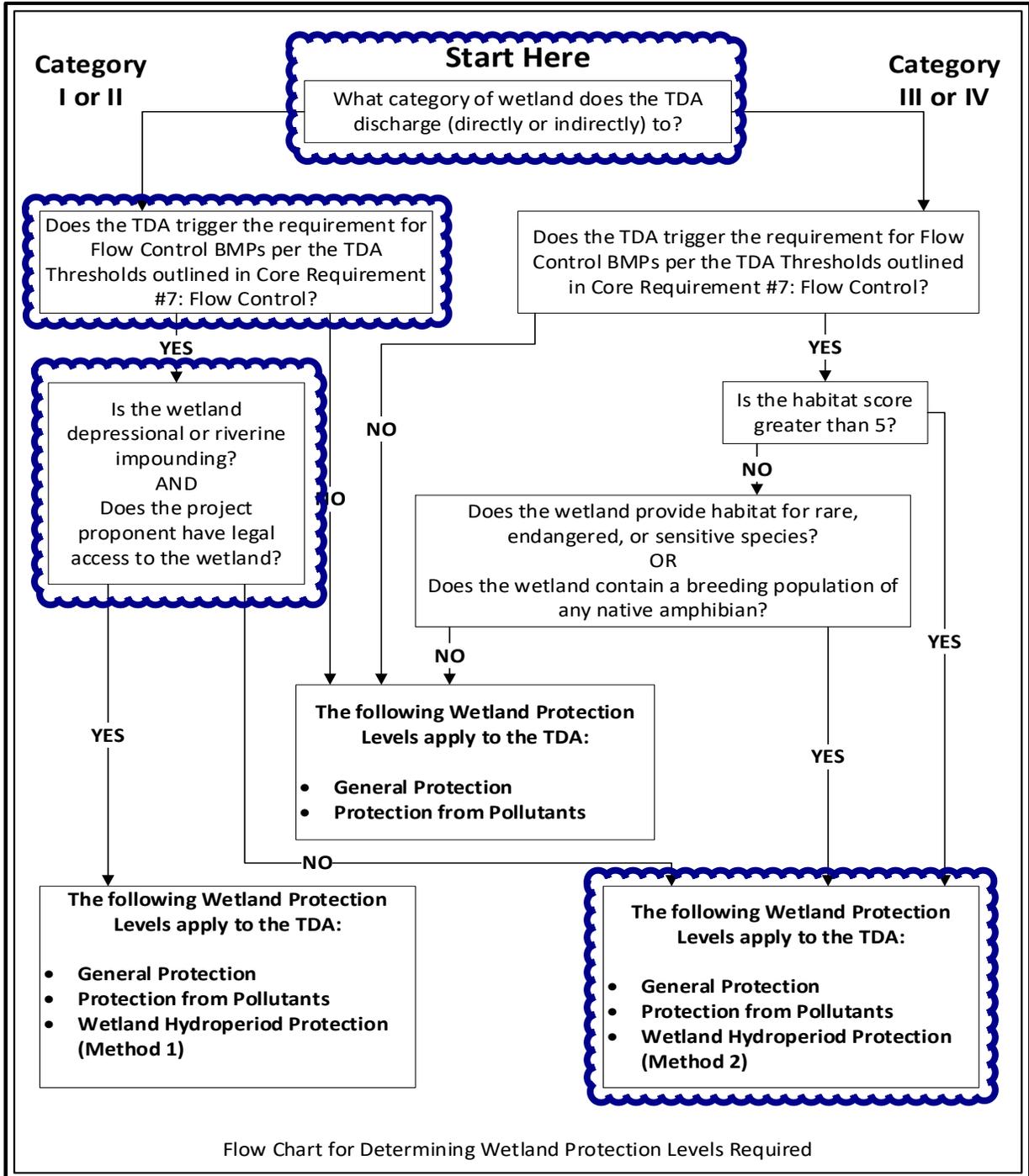


Figure I - 2.5 Flow Chart for Determining Wetland Protection Levels Required

### 2.4.9.3 Standard Requirement

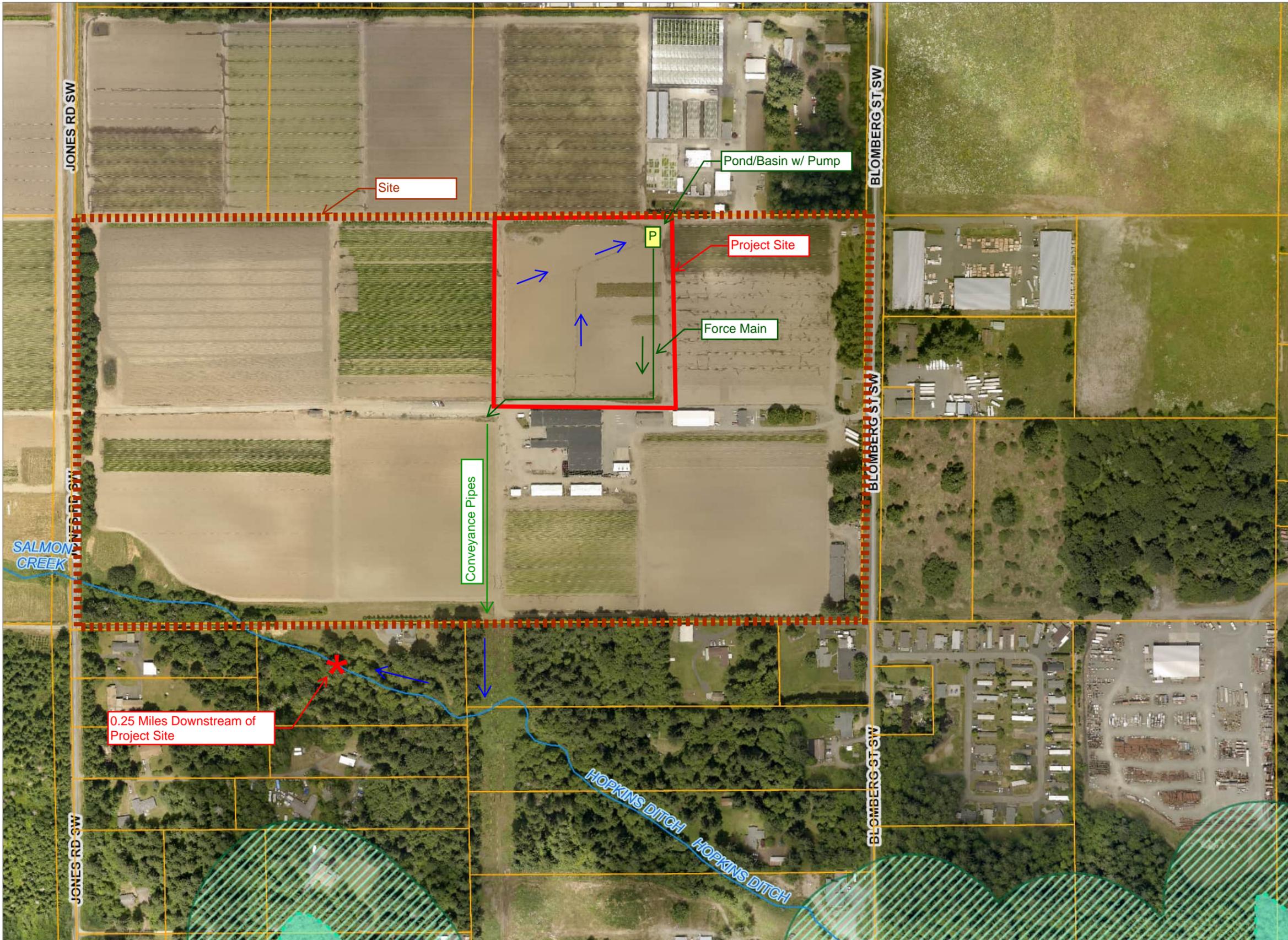
Projects shall comply with Appendix I-C: Wetland Protection Guidelines of Ecology’s 2019 Stormwater Management Manual for Western (SWMMWW). Where Ecology’s SWMMWW’s Minimum Requirements or BMPs are referenced, refer to the equivalent

# ***Appendix F***

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## Downstream Analysis

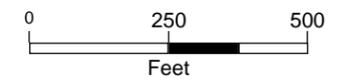
# Webster Forest Nursery



## Legend

- Streams
- Wetland Delineations
  - Verified
  - Delineated
  - - - Unverified
- Parcel Boundary
- Unknown
- Wetlands
- ▨ Wetlands Review Areas
- ▭ Parcel Boundaries
- Roads - Major
  - Major Roads
  - Ramp
  - I 5; US 101
- Roads (Large Scale)
- + Railroads
- ▭ County Border

Scale 1: 5,763



Map Created Using GeoData Public Website  
Published: 1/29/2024

Note:



The information included on this map has been compiled by Thurston County staff from a variety of sources and is subject to change without notice. Additional elements may be present in reality that are not represented on the map. Ortho-photos and other data may not align. The boundaries depicted by these datasets are approximate. This document is not intended for use as a survey product. ALL DATA IS EXPRESSLY PROVIDED 'AS IS' AND 'WITH ALL FAULTS'. Thurston County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. In no event shall Thurston County be liable for direct, indirect, incidental, consequential, special, or tort damages of any kind, including, but not limited to, lost revenues or lost profits, real or anticipated, resulting from the use, misuse or reliance of the information contained on this map. If any portion of this map or disclaimer is missing or altered, Thurston County removes itself from all responsibility from the map and the data contained within. The burden for determining fitness for use lies entirely with the user and the user is solely responsible for understanding the accuracy limitation of the information contained in this map. Authorized for 3rd Party reproduction for personal use only.

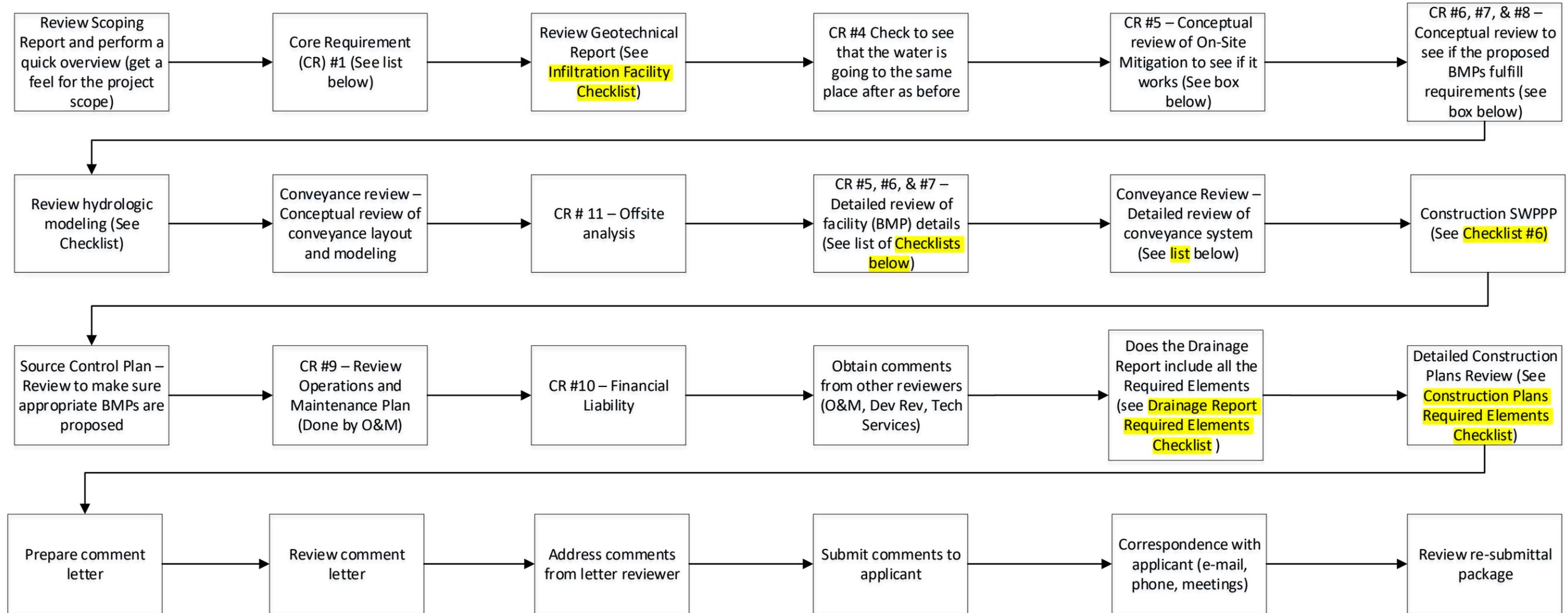
## ***Appendix G***

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### Project Review Checklists

Checklists needed for the Webster Forest Nursery Project have been highlighted

### Project Review Flowchart for Projects Triggering Core Requirements #1 - #11



- Submittals needed to constitute a complete review package:
- Drainage Report (see Volume I, Section 3.8.1 including:
    - Geotechnical Report
    - Hydrologic Modeling
  - Drawings and Specifications
  - Construction SWPPP
  - Operations and Maintenance Manual (may be submitted after project approval but before final acceptance)
  - Financial Assurance (may be submitted after project approval but before final acceptance)

- Checklists for Conceptual Review of CR #5, #6, & #7
- Infeasibility Criteria Checklist
  - Methods for Determining Infiltration Rates Checklist
  - Infiltration Facility Procedures Checklist
  - Field and Design Procedures Checklist

- Checklists for Detailed Review of CR #5, #6, & #7
- Checklist LID.02 – Post-Construction Soil Quality and Depth
  - Checklist LID.11 – Full Dispersion
  - Checklist LID.06 - Sheet Flow Dispersion
  - Checklist LID.07 – Concentrated Flow Dispersion
  - Checklist LID.14 – Tree Retention and Planting
  - Checklist LID.08 – Bioretention
  - Checklist LID.09 – Permeable Pavement
  - Checklist LID.01 – Infiltration Basins
  - Checklist LID.08A – Rain Gardens
  - Checklist LID.04 – Downspout Infiltration
  - Checklist LID.05 - Downspout Dispersion
  - Checklist D.01 – Detention Ponds

- Detailed conveyance review
- Pipe sizing
  - Modeling
  - Pipe slopes
  - Water velocity
  - Catch basins
  - Manholes (size and spacing)
  - Invert elevation
  - Pipe coverage
  - Outfalls
  - Outfall protection

THIS CONSTRUCTION SWPPP CHECKLIST  
WILL BE PREPARED AT THE FUTURE  
PRELIMINARY (STORMWATER) REPORT  
SUBMITTAL

**Section I – Construction SWPPP Narrative**

**Construction Stormwater Pollution Prevention Elements**

1. \_\_\_ Describe how each of the Construction Stormwater Pollution Prevention Elements has been addressed through the Construction SWPPP.
2. \_\_\_ Identify the type and location of BMPs used to satisfy the required element.
3. \_\_\_ Provide written justification identifying the reason an element is not applicable to the proposal.

**Thirteen Required Elements – Construction SWPPP**

1. \_\_\_ Mark Clearing Limits
2. \_\_\_ Establish Construction Access
3. \_\_\_ Control Flow Rates
4. \_\_\_ Install Sediment Controls
5. \_\_\_ Stabilize Soils
6. \_\_\_ Protect Slopes
7. \_\_\_ Protect Drain Inlets
8. \_\_\_ Stabilize Channels and Outlets
9. \_\_\_ Control Pollutants
10. \_\_\_ Control De-Watering
11. \_\_\_ Maintain BMPs
12. \_\_\_ Manage the Project
13. \_\_\_ Protect Low Impact Development BMPs

**Project Description**

1. \_\_\_ Total project area
2. \_\_\_ Total proposed impervious area
3. \_\_\_ Total proposed area to be disturbed, including off-site borrow and fill areas
4. \_\_\_ Total volumes of proposed cut and fill

**Existing Site Conditions**

1. \_\_\_ Description of the existing topography
2. \_\_\_ Description of the existing vegetation
3. \_\_\_ Description of the existing drainage

**Adjacent Areas**

1. \_\_\_ Description of adjacent areas which may be affected by site disturbance or drain to project site.
  - a. \_\_\_ Streams

- b. \_\_\_ Lakes
  - c. \_\_\_ Wetlands
  - d. \_\_\_ Residential Areas
  - e. \_\_\_ Roads
  - f. \_\_\_ Other
2. \_\_\_ Description of the downstream path leading from the site to the receiving body of water. (Minimum distance of 400 yards.)

**Critical Areas**

- 1. \_\_\_ Description of critical areas that are on or adjacent to the site.
- 2. \_\_\_ Description of special requirements for working in or near critical areas.

**Soils**

- 1. \_\_\_ Description of on-site soils.
  - a. \_\_\_ Soil name(s)
  - b. \_\_\_ Soil mapping unit
  - c. \_\_\_ Erodibility
  - d. \_\_\_ Settleability
  - e. \_\_\_ Permeability
  - f. \_\_\_ Depth
  - g. \_\_\_ Texture
  - h. \_\_\_ Soil structure

**Erosion Problem Areas**

- 1. \_\_\_ Description of potential erosion problems on site.

**Construction Phasing**

- 1. \_\_\_ Construction sequence
- 2. \_\_\_ Construction phasing (if proposed)

**Construction Schedule**

- 1. \_\_\_ Provide a proposed construction schedule.
- 2. \_\_\_ Wet season construction activities
  - a. \_\_\_ Proposed wet season construction activities.
  - b. \_\_\_ Proposed wet season construction restraints for environmentally sensitive/critical areas.

***Financial/Ownership Responsibilities***

1. \_\_\_ Identify the property owner responsible for the initiation of bonds and/or other financial securities.
2. \_\_\_ Describe bonds and/or other evidence of financial responsibility for liability associated with erosion and sedimentation impacts.

***Engineering Calculations***

1. \_\_\_ Provide design calculations
  - a. \_\_\_ Sediment ponds/traps
  - b. \_\_\_ Diversions
  - c. \_\_\_ Waterways
  - d. \_\_\_ Runoff/Stormwater detention calculations

**Section II – Temporary Erosion and Sediment Control Plans**

***General***

1. \_\_\_ Vicinity map
2. \_\_\_ Thurston County clearing and grading approval block
3. \_\_\_ Erosion and Sediment Control Notes

***Site Plan***

1. \_\_\_ Note legal description of subject property.
2. \_\_\_ Show north arrow.
3. \_\_\_ Indicate boundaries of existing vegetation, e.g. tree lines, pasture areas, etc.
4. \_\_\_ Identify and label areas of potential erosion problems.
5. \_\_\_ Identify on-site/adjacent surface waters, critical areas and associated buffers.
6. \_\_\_ Identify FEMA base flood boundaries and Shoreline Management boundaries.
7. \_\_\_ Show existing and proposed contours.
8. \_\_\_ Indicate drainage basins and direction of flow for individual drainage areas.
9. \_\_\_ Label final grade contours and identify developed condition drainage basins.
10. \_\_\_ Delineate areas that are to be cleared and graded.
11. \_\_\_ Show all cut and fill slopes indicating top and bottom of slope catch lines.

***Conveyance Systems***

1. \_\_\_ Designate locations for swales, interceptor trenches, or ditches.

2. \_\_\_\_ Show all temporary and permanent drainage pipes, ditches, or cut-off trenches required for erosion and sediment control.
3. \_\_\_\_ Provide minimum slope and cover for all temporary pipes or call out pipe inverts.
4. \_\_\_\_ Show grades, dimensions, and direction of flow in all ditches, swales, culverts and pipes.
5. \_\_\_\_ Provide details for bypassing off-site runoff around disturbed areas.
6. \_\_\_\_ Indicate locations and outlets of any dewatering systems.

#### ***Location of Detention BMPs***

1. \_\_\_\_ Identify location of detention BMPs.

#### ***Erosion and Sediment Control Facilities***

1. \_\_\_\_ Show the location of sediment trap(s), pond(s), pipes and structures.
2. \_\_\_\_ Dimension pond berm widths and inside and outside pond slopes.
3. \_\_\_\_ Indicate trap/pond storage required and the depth, length, and width dimensions.
4. \_\_\_\_ Provide typical section views through pond and outlet structure.
5. \_\_\_\_ Provide typical details of gravel cone and standpipe, and/or other filtering devices.
6. \_\_\_\_ Detail stabilization techniques for outlet/inlet.
7. \_\_\_\_ Detail control/restrictor device location and details.
8. \_\_\_\_ Specify mulch and/or recommended cover of berms and slopes.
9. \_\_\_\_ Provide rock specifications and detail for rock check dam(s), if applicable.
10. \_\_\_\_ Specify spacing for rock check dams as required.
11. \_\_\_\_ Provide front and side sections of typical rock check dams.
12. \_\_\_\_ Indicate the locations and provide details and specifications for silt fabric.
13. \_\_\_\_ Locate the construction entrance and provide detail.

#### ***Detailed Drawings***

1. \_\_\_\_ Any structural practices used that are not referenced in the Thurston County Drainage Design and Erosion Control Manual should be explained and illustrated with detailed drawings.

#### ***Other Pollutant BMPs***

1. \_\_\_\_ Indicate on the site plan the location of BMPs to be used for the control of pollutants other than sediment, e.g. concrete wash water.

#### ***Monitoring Locations***

1. \_\_\_\_ Indicate on the site plan the water quality sampling locations to be used for monitoring water quality on the construction site, if applicable.

## Methods for Determining Infiltration Rates Checklist

This checklist reflects most, but not necessarily all of the items that will be reviewed by the Development Review. It is intended to be used as an aid by us to provide a consistent review of development work in Thurston County. All items may not be applicable in the review of each project and all items of concern to this office may not be covered on this checklist.

Y	N	
		<b>APPLICATIONS</b>
		<b>Method 1 – Field Testing</b>
		<i>U.S. EPA Falling Head Percolation Test Procedure applies to all infiltration facilities, but may not be used to demonstrate infeasibility of bioretention, permeable pavement, or rain gardens in meeting Minimum Requirement #5.</i>
		<i>Large-Scale Pilot Infiltration Test (PIT) applies to infiltration facilities with drainage areas greater than 1 acre, and may be used to demonstrate infeasibility of bioretention, permeable pavement, or rain gardens in meeting Minimum Requirement #5.</i>
		<i>Small-Scale Pilot Infiltration Test (PIT) applies to infiltration facilities with drainage areas less than 1 acre, and may be used to demonstrate infeasibility of bioretention, permeable pavement, or rain gardens in meeting Minimum Requirement #5.</i>
		<b>Method 2 – Soil Property Relationship (USDA Soil Textural Classification)</b>
		<i>Soil Property Relationships (USDA Soil Textural Classification) applies to projects sites that trigger Core Requirements #1 through #5 (not #1 through #10) AND are underlain by hydrologic soil group A soils (as defined by the NRCS Web Soil Survey and field verified by a qualified professional). USDA Soil Textural Classification may not be used to demonstrate infeasibility of bioretention, permeable pavement, or rain gardens in meeting Core Requirement #5.</i>
		<b>Method 3 – Soil Grain Size Analysis</b>
		<i>Soil Grain Size Analysis applies to project sites that are underlain by type A soils and may not be used to demonstrate infeasibility of bioretention, permeable pavement, or rain gardens in meeting Core Requirement #5.</i>
		<b>PROCEDURES</b>
		<b>Method 1</b>
		Measure the infiltration rate of the underlying soil using: <ul style="list-style-type: none"> <li>• U.S. EPA falling head percolation test procedure as modified for Thurston County, or</li> <li>• Double ring infiltrometer test (ASTM D3385, not presented in the DDECM Appendix III-A), or</li> <li>• Ecology large and small scale Pilot Infiltration Test (PIT) described below and presented in the 2019 Ecology <i>Stormwater Management Manual for Western Washington</i>.</li> </ul>

Y	N	
		Perform number of tests in accordance with specific BMP requirements.
		Soaking Period – Fill the test hole or apparatus with water and maintain at depths above the test elevation for the saturation periods specific for the appropriate test.
		Determine the Infiltration Rates – Following the saturation period, determine the infiltration rate in accordance with the specified test procedures.
		Design Infiltration Rate – Apply an appropriate safety factor.
		<b>Safety Factor</b>
		For bioretention, permeable pavement, and rain gardens, refer to <i>Field and Design Procedures for Bioretention, Permeable Pavement, Rain Gardens, and Downspout Infiltration Systems Checklist</i> .
		For all other infiltration facilities, the safety factor is calculated using the following equation: $I_{design} = I_{measured} \times F_{testing} \times F_{geometry} \times F_{plugging}$ <p><math>F_{testing}</math></p> <ul style="list-style-type: none"> <li>• For the full scale PIT method, <math>F_{testing} = 0.75</math>;</li> <li>• For the small-scale PIT method, <math>F_{testing} = 0.50</math></li> <li>• For smaller-scale infiltration tests such as the double-ring infiltrometer test, <math>F_{testing} = 0.40</math></li> <li>• For grain size analysis, <math>F_{testing} = 0.40</math>.</li> </ul> <p><math>F_{geometry} = 4 D/W + 0.05</math></p> <ul style="list-style-type: none"> <li>• D = depth from the bottom of the proposed facility to the maximum wet season water table or nearest impervious layer, whichever is less.</li> <li>• W = width of facility</li> </ul> <p><math>F_{plugging}</math></p> <ul style="list-style-type: none"> <li>• 0.7 for loams and sandy loams</li> <li>• 0.8 for fine sands and loamy sands</li> <li>• 0.9 for medium sands</li> <li>• 1.0 for coarse sands or cobbles.</li> </ul>
		The design infiltration rate may not exceed 30 inches/hour.
		<b>Falling Head Percolation Test Procedure (as Modified for Thurston County)</b>
		Space tests uniformly throughout the area. For larger facilities or if soil conditions are highly variable, more tests may be required.
		Preparation of Test Hole
		The diameter of each test hole is 8 inches.
		The depth of each test is to the proposed depths of the absorption systems or to the most limiting soil horizon.
		To expose a natural soil surface, scratch the bottom of the hole with a sharp pointed instrument and remove the loose material from the test hole.
		Set a PVC pipe (6 inch-inner-diameter, 4 foot long) into the hole and press into the soil 6 inches.

Y	N	
		Place 2 inches of 0.5- to 0.75-inch rock in the pipe to protect the bottom from scouring when water is added.
		<b>Soaking Period</b>
		In sandy soils with little or no clay, soaking is not necessary (proceed to Measurement of the Percolation Rate).
		Carefully fill the pipe with at least 12 inches of clear water. Maintain the depth of water for at least 4 hours (and preferably overnight if clay soils are present).
		If, after filling the pipe twice with 12 inches of water, the water seeps completely away in less than 10 minutes, the test can proceed immediately (proceed to Measurement of the Percolation Rate).
		<b>Measurement of the Percolation Rate</b>
		Except for sandy soils, make percolation rate measurements 15 hours but no more than 30 hours after the soaking period began.
		Adjust the water level to 6 inches above the gravel (or 8 inches above the bottom of the hole). At no time during the test is the water level allowed to rise more than 6 inches above the gravel.
		Immediately after adjustment, measure the water level from a fixed reference point to the nearest 1/16th-inch at 30 minute intervals. Continue the test until two successive water level drops do not vary by more than 1/16-inch within a 90 minute period. At least three measurements are to be made.
		After each measurement, readjust the water level to the 6 inch level.
		Use the last water level drop to calculate the percolation rate.
		In sandy soils or soils in which the first 6 inches of water added after the soaking period seeps away in less than 30 minutes, make water level measurements at 10 minute intervals for a 1 hour period. Use the last water level drop to calculate the percolation rate.
		<b>Percolation Rate Calculation</b>
		Calculate the percolation rate for each test site by dividing the time interval used between measurements by the magnitude of the last water level drop. This calculation results in a percolation rate in minutes/inch. To determine the percolation rate for the area, average the rates obtained from each hole. (If tests in the area vary by more than 20 minutes/inch, variations in soil type are indicated. Under these circumstances, percolation rates should not be averaged.)
		To compute the design infiltration rate ( $I_{\text{design}}$ ), adjust the final percolation rates by the appropriate safety factors outlined above.
		<b>Large-Scale Pilot Infiltration Test (PIT)</b>
		<b>Preparation of Test Hole</b>
		Testing should occur between December 1 and April 1.
		The horizontal and vertical locations of the PIT shall be surveyed by a licensed land surveyor and accurately shown on the design drawings.
		Excavate the test pit to the depth of the bottom of the proposed infiltration facility.
		Lay back the slopes sufficiently to avoid caving and erosion during the test, or consider shoring the sides of the test pit.

Y	N	
		The horizontal surface area of the bottom of the test pit should be approximately 100 square feet.
		Accurately document the size and geometry of the test pit.
		Install a vertical measuring rod (minimum 5 feet long) marked in 0.5-inch increments in the center of the pit bottom.
		Use a rigid 6-inch diameter pipe with a splash plate on the bottom to convey water to the pit.
		<b>Soaking Period</b>
		Pre-soak: Add water to the pit at a rate that will maintain a water level between 6 and 12 inches above the bottom of the pit. <i>Note: For infiltration facilities serving large drainage areas, designs with multiple feet of standing water can have infiltration tests with greater than 1 foot of standing water. The depth must not exceed the proposed maximum depth of water expected in the completed facility.</i>
		Pre-soak: Every 15 to 30 minutes, record the cumulative volume and instantaneous flow rate (in gallons per minute) necessary to maintain the water level at the same point on the measuring rod.
		Stabilization: Add water to the pit until 1 hour after the flow rate into the pit has stabilized while maintaining the same pond water level (usually 6 hours). The total of the pre-soak time plus 1 hour after the flow rate has stabilized should be no less than 6 hours.
		<b>Measurement of the Infiltration Rate</b>
		After the flow rate has stabilized for at least 1 hour, turn off the water and record the rate of infiltration (the drop rate of the standing water) in inches per hour from the measuring rod data, until the pit is empty.
		<b>Calculate the Design Infiltration Rate</b>
		Calculate and record the infiltration rate in inches per hour in 30 minute or 1 hour increments until 1 hour after the flow has stabilized. Use statistical/trend analysis to obtain the hourly flow rate when the flow stabilizes.
		To compute the design infiltration rate ( $I_{\text{design}}$ ), adjust the final measured infiltration rates by the appropriate safety factors outlined above.
		<b>Small-Scale Pilot Infiltration Test</b>
		<b>Preparation of Test Hole</b>
		Excavate the test pit to the estimated surface elevation of the proposed infiltration facility.
		Lay back the slopes sufficiently to avoid caving and erosion during the test, or consider shoring the sides of the test pit.
		The horizontal surface area of the bottom of the test pit should be 12 to 32 square feet.
		Accurately document the size and geometry of the test pit.
		Install a vertical measuring rod that is marked in 0.5-inch increments in the center of the pit bottom.
		Use a rigid pipe with a splash plate on the bottom to convey water to the pit. Use a 3-inch diameter pipe for pits on the smaller end of the recommended surface area, and a 4-inch pipe for pits on the larger end of the recommended surface area.

Y	N	
		<b>Soaking Period</b>
		Pre-soak: Add water to the pit so that there is standing water for at least 6 hours. Maintain the water level at least 12 inches above the bottom of the pit.
		Pre-soak: Add water to the pit at a rate that will maintain a 6-12 inch water level above the bottom of the pit over a full hour. The depth should not exceed the proposed maximum depth of water expected in the completed facility.
		Stabilization: Every 15 minutes, record the cumulative volume and instantaneous flow rate in gallons per minute necessary to maintain the water level at the same point (between 6 – 12 inches) on the measuring rod. The specific depth should be the same as the maximum designed ponding depth (usually 6 – 12 inches).
		<b>Measurement of the Infiltration Rate</b>
		After the flow rate has stabilized for 1 hour, turn off the water and record the rate of infiltration (the drop rate of the standing water) in inches per hour from the measuring rod data, until the pit is empty. A self-logging pressure sensor may also be used to determine water depth and drain-down.
		At the conclusion of testing, over-excavate the pit to see if the test water is mounded on shallow restrictive layers or if it has continued to flow deep into the subsurface. The soils professional should judge whether a mounding analysis is necessary.
		<b>Calculate the Design Infiltration Rate</b>
		Calculate and record the infiltration rate in inches per hour in 30 minutes or 1 hour increments until 1 hour after the flow has stabilized. Use statistical/trend analysis to obtain the hourly flow rate when the flow stabilizes.
		To compute the design infiltration rate ( $I_{design}$ ), adjust the final measured infiltration rates by the appropriate safety factors outlined above.
		<b>Method 2 – USDA Soil Textural Classification</b>
		Conduct the grain size distribution test in accordance with the USDA test procedure (Soil Survey Manual, USDA, October 1993, page 136)
		Soil passing the US #10 sieve may be used to determine percentages of sand, silt, and clay for use in Figure A.1 (see end of this checklist).
		Correction factors are only reduced with prior approval from the County (to a minimum of 2.0) if there is little soil variability, there will be a high degree of long-term facility maintenance, and there is adequate pretreatment to reduce total suspended solids in influent stormwater.
		Use the gradation from soil samples and the textural analysis to determine the short-term (field) infiltration rates, required correction factors, and design (long-term) infiltration rates (see Table A.1 below).
		<b>Method 3 – Soil Grain Analysis</b>
		For infiltration basins and trenches, perform the grain size analysis for each defined layer below the infiltration facility to a depth below the facility bottom of 2.5 times the maximum depth of water in the pond, but not less than 6 feet.

Y	N	
		For large infiltration facilities serving drainage areas of 10 acres or more, soil grain size analyses is performed on layers up to 50 feet deep (or no more than 10 feet below the water table).
		For bioretention areas, each defined layer is analyzed below the top of the final bioretention area subgrade to a depth of at least 3 times the maximum ponding depth, but not less than 3 feet (1 meter).
		For permeable pavement, each defined layer is analyzed below the top of the final subgrade to a depth of at least 3 times the maximum ponding depth within the base (reservoir) course, but not less than 3 feet (1 meter).
		If the licensed professional conducting the investigation determines that deeper layers will influence the rate of infiltration for the facility, soil layers at greater depths may be considered when assessing the site's hydraulic conductivity characteristics.
		Use the following relationship to determine the initial hydraulic conductivity:  $\log_{10}(K_{sat}) = -1.57 + 1.90D_{10} + 0.015D_{60} - 0.013D_{90} - 2.08f_{fines}$ Where, $D_{10}$ , $D_{60}$ , and $D_{90}$ are the grain sizes in mm for which 10 percent, 60 percent, and 90 percent of the sample is more fine and $f_{fines}$ is the fraction of the soil (by weight) that passes the US #200 sieve ( $K_{sat}$ is in cm/s).
		Compaction effects must be taken into account when estimating hydraulic conductivity where applicable.

**Table A.1. Recommended Infiltration Rates  
Based on USDA Soil Textural Classification.**

	Short-Term Infiltration Rate (in./hr) <sup>1</sup>	Correction Factor CF	Estimated Design (Long-term) Infiltration Rate (in./hr)
Clean sandy gravels and gravelly sands (i.e., 90% of the total soil sample is retained in the US #10 sieve)	20	2	10
Sand	8	4	2
Loamy Sand	2	4	0.5
Sandy Loam	1	4	0.25
Loam	0.5	4	0.13

Source: Stormwater Management Manual for Western Washington (Ecology 2005).

<sup>1</sup> From WEF/ASCE (1998).

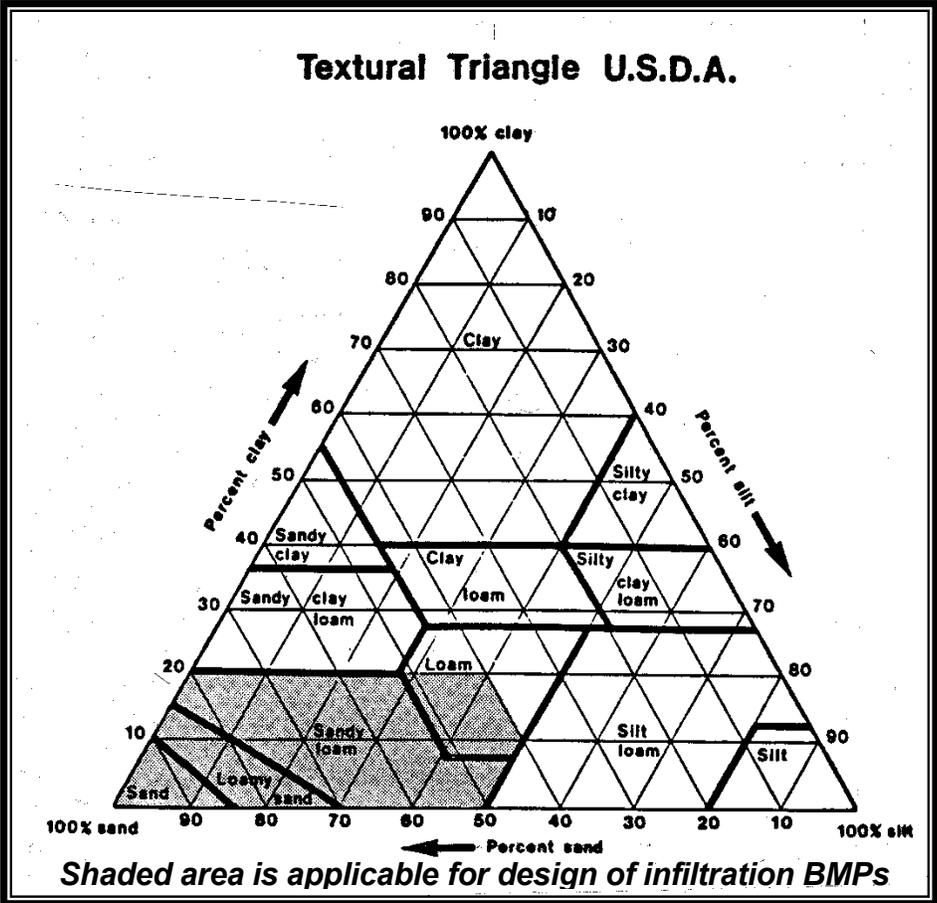


Figure 1.A. USDA Textural Triangle

## Analysis Procedures for Infiltration BMPs Checklist

This checklist reflects most, but not necessarily all of the items that will be reviewed by the Development Review. It is intended to be used as an aid by us to provide a consistent review of development work in Thurston County. All items may not be applicable in the review of each project and all items of concern to this office may not be covered on this checklist.

Y	N	
		<b>GENERAL PROCEDURES FOR INFILTRATION BMPs</b>
		<b>Step 1: General Site Characterization</b>
		<b>Surface Features Characterization</b>
		<p>A general site characterization was performed to identify <b>Surface Features</b> such as:</p> <ul style="list-style-type: none"> <li>• Topography within 500 feet of the proposed facility</li> <li>• Anticipated site use (street/highway, residential, commercial, high-use site)</li> <li>• Location of water supply wells within 500 feet of proposed facility</li> <li>• Location of designated well head protection areas for public water systems and/or 1-, 5-, and 10-year time of travel zones for municipal well protection areas (if available)</li> <li>• Location of steep slopes (&gt;15%) or landslide hazard areas</li> <li>• Location of septic systems in the vicinity of the proposed facility</li> <li>• Locations of areas known to have contaminated soils.</li> <li>• A description of local site geology, including soil or rock units likely to be encountered, the groundwater regime, and geologic history of the site</li> <li>• Analysis of site boring and soil testing and review of any available existing soils information for the site or adjacent sites</li> <li>• Existing runoff flowing into and out of the site, possible flows generated by greater than the 100-year event, and proximity of other stormwater facilities on adjacent properties</li> <li>• Location of any high groundwater hazard areas or wetlands</li> </ul>
		<b>Subsurface Characterization</b>
		<p>The characterization study documents the following <b>Subsurface</b> data such as:</p> <ul style="list-style-type: none"> <li>• Subsurface explorations (test holes or test pits) to a depth below the base of the infiltration BMP of at least 5 times the maximum design depth of ponded water proposed, but not less than 10 feet below the base of the BMP. However, at sites with shallow ground water (less than 15 feet from the estimated base of the infiltration BMP), if a mounding analysis is necessary, determine the thickness of the saturated zone.</li> <li>• Continuous sampling to a depth below the base of the infiltration BMP of 2.5 times the maximum design ponded water depth, but not less than 10 feet. For large infiltration BMPs serving drainage</li> </ul>

Y	N	
		<p>areas of 10 acres or more, perform soil grain size analyses on layers up to 50 feet deep (or no more than 10 feet below the water table).</p> <ul style="list-style-type: none"> <li>• If proposing to estimate the infiltration rate using the soil grain size analysis method, obtain samples adequate for the purposes of that gradation/classification testing. At a minimum, one-grain size analysis per soil stratum in each test hole within 2.5 times the maximum design water depth, but not less than 10 feet is conducted. <ul style="list-style-type: none"> <li>○ For BMP IN.01: Infiltration Basins, at least one test pit or test hole per 5,000 square feet of BMP infiltrating surface (in no case less than two per BMP).</li> <li>○ For BMP IN.02: Infiltration Trenches, at least one test pit or test hole per 200 feet of trench length (in no case less than two per trench).</li> </ul> </li> <li>• In high water table sites, the subsurface exploration sampling need not be conducted lower than 2 feet below the ground water table.</li> <li>• Detailed logs for each test pit or test hole and a map showing the location of the test pits or test holes. Logs include at a minimum: <ul style="list-style-type: none"> <li>○ Depth of pit or hole</li> <li>○ Soil descriptions</li> <li>○ Depth to water</li> <li>○ Presence of stratification</li> </ul> </li> <li>• Logs substantiate whether stratification does or does not exist.</li> <li>• A minimum of three groundwater monitoring wells or three hydraulically connected surface or ground water features are used to determine the direction of flow and gradient. One monitoring well may be sufficient if the site professional determines the surrounding site conditions indicate that gradient and flow direction are not critical.</li> <li>• Monitoring has occurred through at least one wet season unless substantially equivalent site historical data regarding ground water levels is available.</li> <li>• If using the Soil Grain Size Analysis Method for estimating infiltration rates: <ul style="list-style-type: none"> <li>○ Complete laboratory testing as necessary to establish the soil gradation characteristics and other properties to complete the infiltration facility design.</li> <li>○ At a minimum, conduct one-grain size analysis per soil stratum in each test hole within 2.5 times the maximum design water depth, but not less than 10 feet.</li> <li>○ When assessing</li> </ul> </li> </ul>
		<b>Soil Testing Data</b>
		<p>The characterization study documents the following <b>Soil Testing Data</b> for each soil unit encountered should include:</p> <ul style="list-style-type: none"> <li>• Grain-size distribution (ASTM D422 or equivalent AASHTO specification), if using the grain size analysis method</li> <li>• Visual grain size classification</li> </ul>

Y	N	
		<ul style="list-style-type: none"> <li>• Percent clay content (including type of clay, if known)</li> <li>• Color/mottling</li> <li>• Variation and nature of stratification</li> </ul> <p>If the infiltration BMP will provide Runoff Treatment as well as Flow Control, the soil characterization should also include:</p> <ul style="list-style-type: none"> <li>• Cation exchange capacity (CEC) and organic matter content for each soil type and strata where distinct changes in soil properties occur, to a depth below the base of the BMP of at least 2.5 times the maximum design water depth, but not less than 6 feet.</li> <li>• For soils with low CEC and organic content, deeper characterization of soils may be warranted.</li> </ul>
		<b>Step 2: Site Suitability Criteria for Infiltration Facilities</b>
		<b>Setbacks</b>
		The proposed design meets the setbacks for infiltration facilities.
		The base of the proposed infiltration basin is equal to or greater than 5 feet above the seasonal high groundwater level, bedrock (or hardpan), or other low permeability layer. A separation down to 3 feet may be considered if the mounding analysis, volumetric receptor capacity, and design of overflow and/or bypass structures are judged by the site professional to be adequate to prevent overtopping and meet all other site suitability criteria.
		The proposed infiltration basin is not within a floodplain area or high groundwater flood hazard area.
		Infiltration facilities at least 100 feet from drinking water supplies. Higher setbacks may be required if the well serves a public water system and/or DOH requirements apply for locations within the 1, 5, or 10 year time of travel.
		If the infiltration facility is an injection well, the facility meets the requirements of the UIC Program, Chapter 173-218 WAC.
		The depth of the infiltration facility is no more than 20 feet below the surrounding finished ground elevation where infiltration facilities are located upgradient from a building foundation or basement. May be reduced to 50 feet for infiltration facilities serving a single family residence.
		<b>Groundwater Protection Areas</b>
		The infiltration BMP will not cause a violation of groundwater quality standards.
		<b>High Vehicle Traffic Areas</b>
		An oil control BMP is provided upstream of the infiltration BMP.
		<b>Soil Infiltration Rate/Drawdown Time</b>
		For infiltration BMPs used for Runoff Treatment purposes, the measured soil infiltration rate is 9 in/hr or less, or 12 in/hour or less for permeable paving.
		For infiltration BMPs designed to provide Runoff Treatment, it is documented that the Water Quality Design Volume can infiltrate through the infiltration BMP surface within 48 hours.
		<b>Depth to Bedrock, Water Table, or Impermeable Layer</b>

Y	N	
		Infiltration Basins (BMP IN.01) and Infiltration Trenches (BMP IN.02) are $\geq 5$ feet above the season high-water mark, bedrock or other low permeability layer.
		<b>Soil Physical and Chemical Suitability for Treatment</b>
		The native or engineered soils intended to provide Runoff Treatment meet the soil physical and chemical suitability criteria provided in Volume III, Step 2: Soil Physical and Chemical Suitability for Treatment.
		<b>Seepage Analysis and Control</b>
		No adverse effects will be caused by seepage zones on nearby building foundations, basements, roads, parking lots, or sloping sites.
		<b>Cold Climate and Impact of Roadway Deicers</b>
		Mitigation measures are implemented if the infiltration of roadway deicers could cause a violation of groundwater quality standards.
		<b>Step 3: Infiltration Receptor Characterization</b> <b>Conducted if any of the following conditions are present</b>
		Proposed facility would pose a risk of flooding or property damage if failure were to occur.
		Separation between base of facility and seasonal high groundwater is less than 50 feet AND tributary drainage area contains more than 15,000 square feet impervious surface or $\frac{3}{4}$ acre total area.
		Separation between base of facility and seasonal high groundwater is less than 50 feet AND on-site soils may not have adequate infiltration capacity (Hydrologic Soils Group C or D [till soils]).
		Separation between base of facility and seasonal high groundwater is less than 50 feet AND there is less than 2 times the minimum setback to a critical area, drainfield, or steep slope ( $>15\%$ ).
		<b>Monitor Groundwater Levels</b>
		A minimum of three groundwater monitoring wells were installed per infiltration facility, unless the highest groundwater level is known to be at least 50 feet below the proposed base of the infiltration facility.
		Seasonal groundwater levels were monitored at the site during at least one wet season (December 1 through April 30).
		The single wet season observation was normalized to historic groundwater records in the region.
		Monitoring wells were installed and monitored in accordance with the following requirements: <ul style="list-style-type: none"> <li>• Well was screened across the water table.</li> <li>• The maximum screen and sand pack length was 15 feet.</li> <li>• Weekly water level monitoring resulted in a minimum of 16 measurements over 4 months.</li> </ul>
		<b>Document Characterization</b>
		A geotechnical report (Step 5) included the following information to characterize the infiltration receptor: <ul style="list-style-type: none"> <li>• The information obtained for groundwater monitoring of the Subsurface Characterization above.</li> <li>• Depth to groundwater and to bedrock/impermeable layers.</li> </ul>

Y	N	
		<ul style="list-style-type: none"> <li>• Seasonal variation of groundwater table based on well water levels and observed mottling of soils. Including an estimated seasonal high groundwater level and estimated maximum high groundwater level taking into account historical and seasonal groundwater table fluctuations.</li> <li>• Existing groundwater flow direction and gradient.</li> <li>• An estimate of the volumetric water holding capacity of the infiltration receptor soils.</li> <li>• Consideration of the potential for both unconfined and confined aquifers, or confining units, at the site that may influence the proposed infiltration facility as well as the groundwater gradient.</li> <li>• An assessment of the ambient groundwater quality (if it is a concern).</li> <li>• Horizontal hydraulic conductivity of the saturated zone.</li> <li>• Approximation of the lateral extent of the infiltration receptor.</li> <li>• Impact of the infiltration rate and proposed added volume from the project site on local groundwater mounding, flow direction, and water table; and the discharge point or areas of the infiltrating water determined by hydrogeologic methods.</li> <li>• State whether the location is suitable for infiltration and recommend a method for estimating the design infiltration rate.</li> </ul>
		<b>Mounding Analysis</b>
		<p><b>Mounding analysis</b> must be conducted if BOTH the following conditions are present:</p> <ul style="list-style-type: none"> <li>• Separation between base of facility and seasonal high groundwater is less than 15 feet, AND</li> <li>• Tributary drainage area is greater than ¾ acre or there is greater than 15,000 square feet impervious surface contributing to the facility.</li> </ul>
		<p><b>Mounding analysis</b> may also be required by the Administrator if:</p> <ul style="list-style-type: none"> <li>• Hydrologic Soil Group C or D soils with an estimated infiltration rate of less than 0.5 inches/hour</li> <li>• Potential impact to downstream properties and/or critical areas is high as a result of facility failure</li> <li>• Urban environment (&gt;4 units per acre)</li> <li>• Facility is within 100-feet of steep slope (&gt;15%) with soils having less than 1 inch/hour infiltration rate</li> <li>• When soils work indicate there may be a perched low permeability layer above the water table</li> </ul>
		<p>The geotechnical professional obtained acceptance from the County for the mounding analysis approach prior to initiating the study. The proposal includes the methodology, approach, software program, input data, calibration requirements, and output format for the mounding analysis.</p>
		<p>The results of the mounding analysis was reported as part of the Infiltration Receptor Characterization and includes the following determinations:</p>

Y	N	
		<ul style="list-style-type: none"> <li>• A minimum of separation of at least 3 feet to seasonal high groundwater will be maintained from the bottom of the facility with mounding.</li> <li>• There will be no breakout of groundwater to the surface in the vicinity of the project as a result of mounding.</li> <li>• A minimum separation to groundwater from the estimated lowest elevation of any basement, building foundation, road, or other structure will be at least 3 feet.</li> <li>• There will be no intrusion of the groundwater mound into existing or proposed drainfield or reserve area and there will be no greater than a 6-inch increase in groundwater elevation beneath any septic drainfield or reserve area as a result of groundwater mounding.</li> <li>• The increase in groundwater elevation at the property boundaries of the project will not result in impacts to adjacent property owners.</li> </ul>
		<b>Step 4: Determine Method of Analysis</b>
		<p>Typically use the Simple Method for the following types of sites (subject to County approval):</p> <ul style="list-style-type: none"> <li>• For small facilities serving short plats or commercial developments less than one acre of contributing area</li> <li>• High infiltration capacity soils (NRCS [SCS] soil types A or B)</li> <li>• Other infiltration facilities performing successfully at nearby locations</li> <li>• No septic systems, drinking water wells, steep slopes, or other sensitive features within 500 feet</li> <li>• Low risk of flooding and property damage in the event of clogging or other failure of the infiltration system</li> </ul>
		<p>Typically use the Detailed Method for the following types of sites (subject to County approval):</p> <ul style="list-style-type: none"> <li>• Low infiltration capacity soils (NRCS [SCS] soil types C or D)</li> <li>• History of unsuccessful infiltration facility performance, or no history of successful infiltration performance at nearby locations</li> <li>• A large contributing drainage area (greater than 1 acre)</li> <li>• Shallow groundwater levels (less than 50 feet to seasonal high groundwater)</li> <li>• High risk of flooding in the event of clogging or other failure.</li> </ul>
		<b>Step 5: Conduct Simple or Detailed Analysis</b>
		<b>Determine Design Infiltration Rate – Simplified Approach</b>
		The design (long-term) infiltration rate of the native soils was estimated using the simplified approach in accordance with Volume III, Step 5 of the Site Suitability and Analysis Procedures.
		<b>Determine Design Infiltration Rate – Detailed Approach</b>
		The design (long-term) infiltration rate of the native soils was estimated using the detailed approach in accordance with Volume III, Step 5 of the Site Suitability and Analysis Procedures.
		<b>Prepare Geotechnical Report</b>

Y	N	
		A geotechnical report was prepared and documented the requirements described above for completing the Surface Features Characterization, Subsurface Characterization, Soil Characterization, Evaluation of Site Suitability Criteria, Infiltration Receptor Characterization (if required), and Mounding Analysis (if required).
		<b>Design Criteria</b>
		<b>Sizing Infiltration BMPs</b>
		The Western Washington Hydrologic Model (WWHM), MGSFlood, or other approved continuous runoff model was used to size the infiltration BMP by routing the inflow runoff file through the proposed infiltration BMP. See Volume III, General Design Criteria for Infiltration BMPs, Sizing Infiltration BMPs.
		Overflows from the infiltration BMP comply with the performance standard they are designed to meet.
		<b>Treatment Prior to Infiltration BMPs</b>
		A basic treatment BMP as described in Volume I or pretreatment BMP as described by BMP WP.05: Presettling Basins and Pretreatment precedes all infiltration BMPs.
		<b>Construct the BMP and Conduct Performance Testing</b>
		For infiltration basins, the project engineer performs a minimum of two falling head percolation tests.
		For infiltration trenches, the project engineer performs a minimum of two performance tests. The type of performance test depends on the specific facility and site constraints, and is determined by the project engineer on a case-by-case basis and approved by the County prior to testing.
		Notify the County of the scheduled infiltration testing at least two working days in advance of the test.
		If the tests indicate the facility will not function as designed, notify the County immediately of such results.

## Checklist LID.02

### Soil Preservation and Amendment BMP

This checklist reflects most, but not necessarily all of the items that will be reviewed by the Development Review. It is intended to be used as an aid by us to provide a consistent review of development work in Thurston County. All items may not be applicable in the review of each project and all items of concern to this office may not be covered on this checklist.

Y	N	
		<b>MODELING AND SIZING</b>
		Lawn and landscape areas that meet the requirements of this BMP are modeled as “pasture” rather than “lawn” surface over the underlying soil (till or outwash).
		<b>DESIGN CRITERIA</b>
		<b>Retain and Protect Undisturbed Soils</b>
		Existing vegetation and soils are left undisturbed and are protected from compaction during construction.
		No materials or equipment are stored on existing vegetation and soils during construction.
		<b>Soil Amendment</b>
		Topsoil layer is a minimum of 8 inches in depth
		Topsoil pH is 6.0 to 8.0, or matches the pH of the original undisturbed soil.
		Topsoil layer in turf areas achieves a minimum organic matter content of 4 percent (target of 5 percent).
		Topsoil layer in planting beds achieves a minimum organic matter content of 8 percent (target of 10 percent).
		Subsoils are scarified below the topsoil layer at least 4 inches for a finished minimum depth of 12 inches of uncompacted soil.
		For turf installations, soil is compacted to 85 percent of maximum dry density.
		For turf installations, surface is level and no woody debris or rocks over 1 inch diameter remain.
		For planting beds, 2 to 4 inches of organic material such as arborist wood chips, bark, shredded leaves, or compost is provided.
		Compost meets organic content requirements either by using “pre-approved” amendment rates or calculated amendment rates.
		<b>Stockpile Soil</b>
		Areas requiring cuts have removed the upper native topsoil and stockpiled for replacement onsite.
		Soil organic matter is determined using the most current version of ASTM D2974 “Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils” and TMECC 05.07A “Loss-On-Ignition Organic Matter Method. Results of soil analysis are submitted to the County along with proposed soil mix to meet soil requirements.
		The depth of upper native soils that is stockpiled is the entire depth of the native topsoil horizon, but no more than 3 feet.

Y	N	
		Stockpiled soils are amended as needed and applied as described in Soil Amendment above.
		Underlying cemented layers are ripped and scarified to a depth of 6 inches, and stockpiled soils are thoroughly mixed into the ripped till layer.
		Stockpiled soils are reapplied in layers no greater than 1 foot.
		<b>Importing Soil</b>
		For turf installations, an imported topsoil mix that contains 20 percent compost and 80 percent mineral soil (by volume) is used.
		For planting beds, an imported mix that contains 35 percent compost and 65 percent mineral soil (by volume) is used.
		Imported topsoil is applied as described in Soil Amendment above.
		<b>CONSTRUCTION CRITERIA INCLUDED IN THE SWPPP (SWM Volume II, Section 3.3)</b>
		Root zones where tree roots limit the depth of incorporation of amendments are exempted from soil preservation and amendment requirements. Root zones are fenced and protected from stripping of soil, grading, or compaction to the maximum extent practical.
		Topsoil or other materials are not relocated to areas where they can cover critical root zones, suffocate vegetation, or erode into adjacent streams.
		Small stockpiles are covered with weed barrier material that sheds moisture yet allows air transmission. Large stockpiles are seeded and/or mulched.
		Materials are stockpiled in areas designated for clearing and grading (such as parking areas and future impervious roadways) and away from infiltration and other stormwater facilities.
		The soil preservation area is clearly identified (e.g., using flagging or high visibility fencing) and protected prior to construction.
		A soil and vegetation management plan is provided showing areas to be protected and restoration methods for disturbed areas.
		Construction SWPPP sheets outline construction sequencing that will protect the soil preservation area during construction.
		Construction SWPPP BMPs and protection techniques are implemented as applicable. The upslope of construction areas are stabilized and overland flow distances are minimized.
		Operate machinery outside of soil preservation area during construction.
		No placement of topsoils during wet or saturated conditions.
		<b>INSPECTION CRITERIA</b>
		The soil preservation and amendment BMP meets applicable design and construction criteria (see * in Design and Construction Criteria above).





## Checklist IN.01 Infiltration Basins

This checklist reflects most, but not necessarily all of the items that will be reviewed by the Development Review. It is intended to be used as an aid by us to provide a consistent review of development work in Thurston County. All items may not be applicable in the review of each project and all items of concern to this office may not be covered on this checklist.

Y	N	
		<b>SIZING AND MODELING CRITERIA</b>
		For compliance with Minimum Requirements #6 and/or #7, the Western Washington Hydrologic Model (WWHM), MGSFlood, or other approved continuous runoff model is used to model the infiltration basin and contributing area.
		The facility is represented by the pond element with predetermined infiltration rates.
		For compliance with Core Requirement #6, the underlying soil meets the requirements for Infiltration Treatment (see below).
		For compliance with Core Requirement #6, the infiltration basin does not overflow/bypass more than 9% of the influent runoff file.
		For infiltration basins sized to meet the LID Performance Standard and/or the Flow Control Performance Standard, the basin either infiltrates all the influent file, or a sufficient amount of the influent file such that any overflow/bypass meets the standard.
		<b>Infiltration Treatment (Basic Treatment Only)</b>
		Measured (initial) saturated hydraulic conductivity of 9 inches per hour or less. Design (long-term) saturated hydraulic conductivity of up to 3 inches per hour with correction factor.
		Based on the judgment of the site professional, the native soil has characteristics comparable to the following: <ul style="list-style-type: none"> <li>• Cation Exchange Capacity (CEC): <math>\geq 5</math> meq/100 grams of dry soil</li> <li>• Organic matter content: 1% minimum (ASTM D2974)</li> <li>• Minimum depth of 18 inches</li> </ul>
		<b>DESIGN CRITERIA</b>
		<b>Setbacks and Site Constraints</b>
		1 foot vertical clearance from any open water maximum surface elevation to structures within 25 feet.
		50 feet from septic tank, holding tank, containment vessel, pump chamber, and distribution box.
		10 feet from open water maximum surface elevation or edge of infiltration facility to property lines and onsite structures.
		50 feet from top of slopes steeper than 15% and greater than 10 feet high.
		300 feet from an erosion hazard or landslide hazard area.

Y	N	
		100 feet from edge of septic drainfield and drainfield reserve area. Infiltration facility located downgradient unless site topography clearly prohibits subsurface flow from intersection drainfield. May be reduced to 30 feet for infiltration facilities serving a single family residence.
		Projects located within groundwater protection areas meet the soil requirements for infiltration for enhanced water quality treatment.
		Infiltration basins are no closer than 100 feet from drinking water wells and springs used for drinking water supplies.
		Access is provided for vehicles to easily maintain the forebay (presettling basin) area and not disturb vegetation, or resuspend sediment any more than is absolutely necessary.
		If the infiltration basin is located within the 1-year capture zone of any well, it is preceded by a water quality treatment facility.
		<b>Infiltration Basin Design Criteria</b>
		A crest gauge is included to record maximum basin water surface elevation after a storm event for infiltration basins with a maximum depth of 4 feet or more and a minimum storage volume of 5,000 cubic feet.
		Appropriate pretreatment for oil and debris to prevent clogging. Appropriate pretreatment devices include a pre-settling basin or a basic treatment BMP.
		Access roads to the control structure are provided (at least one access point per cell), designed and constructed as specified in Volume V, Appendix V-D.
		Infiltration basin sign requirements are met (as specified in Volume V, Appendix V-E).
		The slope of the basin bottom does not exceed 3% in any direction.
		Freeboard is at least 1 foot.
		The embankment, emergency spillways, spoil and borrow areas, and other disturbed areas are stabilized and planted in accordance with the stormwater site plan. See Volume V, Appendix V-E for recommended vegetation and seed mixtures.
		<b>CONSTRUCTION CRITERIA</b>
		A soil and vegetation management plan is provided showing areas to be protected and restoration methods for disturbed areas.
		The infiltration basin area is clearly identified (e.g., using flagging or high visibility fencing) and protected prior to construction.
		Infiltration basin areas are not excavated during wet or saturated conditions.
		Machinery is operated only outside of infiltration basin during construction.
		Initial basin excavation is conducted to within 2 feet of the final elevation of the basin floor.
		Construction SWPPP sheets outline construction sequencing that will protect the infiltration area during construction and addresses the inspection requirements identified here.

Y	N	
		Construction SWPPP BMPs and protection techniques are implemented as applicable. The upslope of construction areas are stabilized and overland flow distances are minimized.
		Disturbed areas in the upgradient project drainage area are permanently stabilized prior to excavating infiltration basins to final grade.
		All accumulated silt is removed from the infiltration basin (via excavation to final depth) before putting it into service.
		<b>INSPECTION CRITERIA</b>
		The infiltration basin meets applicable design and construction criteria (see Design and Construction Criteria above).

## Drainage Report Elements Checklist

This checklist reflects most, but not necessarily all of the items that will be reviewed by Development Review. It is intended to be used as an aid by us to provide a consistent review of development work in Thurston County. All items may not be applicable in the review of each project and all items of concern to this office may not be covered on this checklist.

Y	N	Item
		Cover Sheet
		Table of Contents
		Project Engineer's Certification
		Facility Summary Form
		Bond Quantities Worksheet
		Drainage Report Narrative
		Construction SWPPP
		Permits and/or other conditions placed on the project
		Project Location
		Property Boundaries and Zoning
		Project Description
		Project Timing
		Topography
		Ground Cover
		Drainage
		Soils
		Critical Areas
		Adjacent Areas
		Reports and Studies (state conditions when such reports that impose additional conditions on applicant)
		Geotechnical Report
		Wells and Septic Systems
		Fuel Tanks
		Analysis of the 100-year Flood
		Aesthetic Considerations for Facilities
		Impervious and Pervious Area Tabulations
		Proposed BMP Design
		Offsite Analysis
		Utilities
		Covenants, Dedications, and Easements
		Property Owners Association Articles of Incorporation

## Construction Plan Elements Checklist

This checklist reflects most, but not necessarily all of the items that will be reviewed by Development Review. It is intended to be used as an aid by us to provide a consistent review of development work in Thurston County. All items may not be applicable in the review of each project and all items of concern to this office may not be covered on this checklist.

Y	N	Item
		Are 22"X34" plan set, 11"X17" plan set, PDF, and AutoCAD drawing files included?
		Do plans comply with Thurston County Road and CAD standards?
		Does the plan set include the following?
		Vicinity Map (see Vol. I, 3.8.3.3.1)
		Site Map including the following (see Vol. I, 3.8.3.3.2):
		<ul style="list-style-type: none"> <li>• Existing topography including at least 50' beyond the site boundaries</li> </ul>
		<ul style="list-style-type: none"> <li>• Finished grades</li> </ul>
		<ul style="list-style-type: none"> <li>• Existing structures within 100' of the project boundaries</li> </ul>
		<ul style="list-style-type: none"> <li>• Utilities</li> </ul>
		<ul style="list-style-type: none"> <li>• Easements – both existing and proposed</li> </ul>
		<ul style="list-style-type: none"> <li>• Environmentally sensitive areas (e.g., gullies, ravines, swales, wetlands, steep slopes, estuaries, springs, wetlands, creeks, lakes, etc.)</li> </ul>
		<ul style="list-style-type: none"> <li>• Natural drainage features including the direction of flow</li> </ul>
		<ul style="list-style-type: none"> <li>• 100-year flood plain boundary</li> </ul>
		<ul style="list-style-type: none"> <li>• Existing and proposed wells on site and on adjacent properties</li> </ul>
		<ul style="list-style-type: none"> <li>• Existing and proposed fuel tanks</li> </ul>
		<ul style="list-style-type: none"> <li>• Existing and proposed on site sanitary systems with setbacks</li> </ul>
		<ul style="list-style-type: none"> <li>• Proposed structures including roads and parking surfaces</li> </ul>
		<ul style="list-style-type: none"> <li>• Lot dimensions and areas (pervious, hard, new impervious, replaced, etc.)</li> </ul>
		<ul style="list-style-type: none"> <li>• Proposed drainage facilities with sufficient cross sections and details to build</li> </ul>
		<ul style="list-style-type: none"> <li>• Standard stormwater notes</li> </ul>
		Permanent Stormwater Control Plans including the following:
		<ul style="list-style-type: none"> <li>• Schedule of catch basins including: <ul style="list-style-type: none"> <li>○ Catch basin/manhole identifier</li> <li>○ Street name</li> <li>○ Cross street</li> <li>○ Stationing</li> <li>○ Street side</li> <li>○ Catch basin diameter or size</li> <li>○ Invert in/out</li> <li>○ Pipe diameter in/out</li> <li>○ Cover/rim elevation</li> <li>○ Cover type (e.g., solid, directional, veined).</li> </ul> </li> </ul>
		<ul style="list-style-type: none"> <li>• Detention/Infiltration/Wet Ponds including <ul style="list-style-type: none"> <li>○ Catch points for cuts and fills</li> <li>○ Max design water level</li> <li>○ Water quality level</li> </ul> </li> </ul>

## Construction Plan Elements Checklist

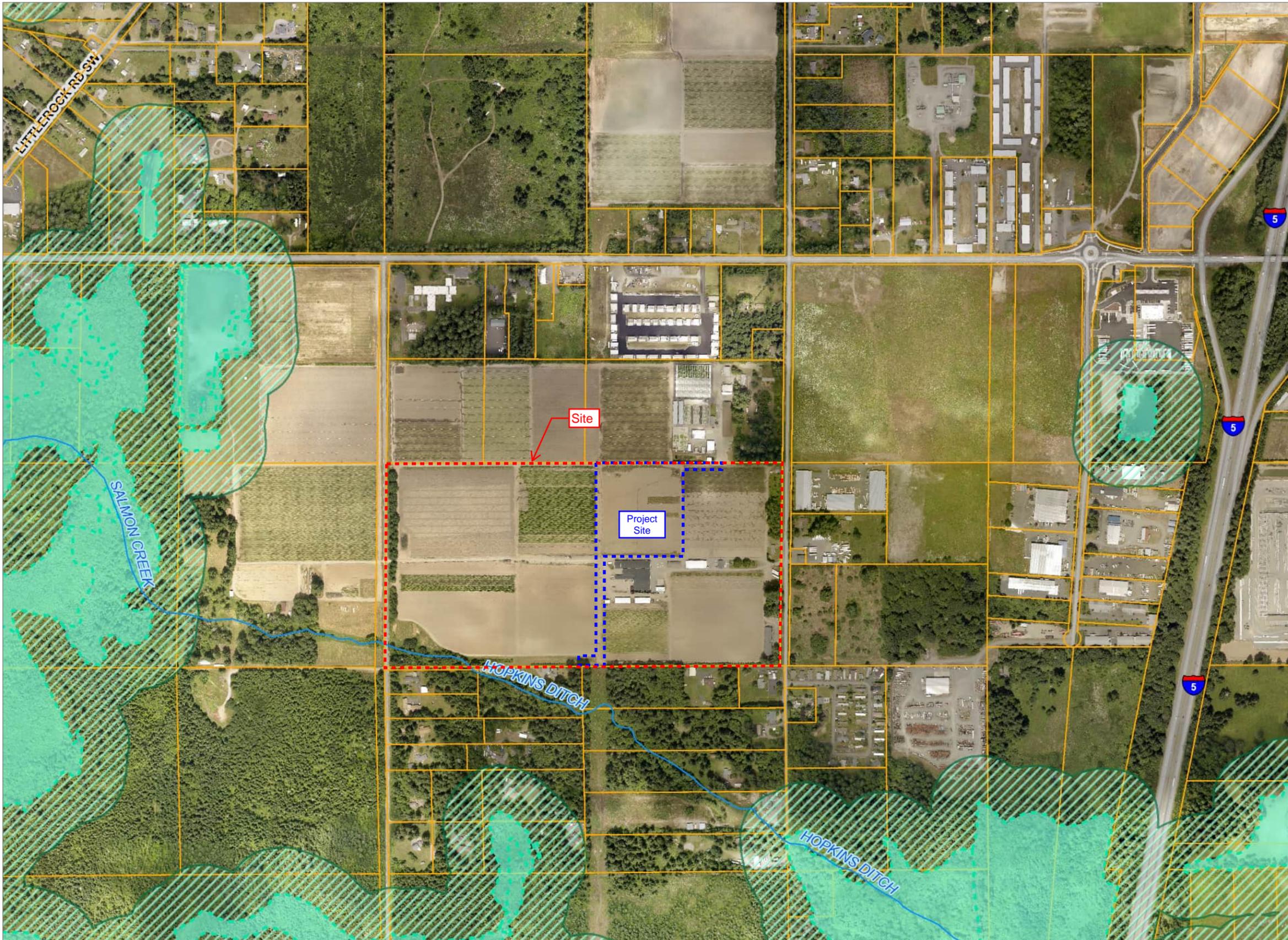
Y	N	Item
		○ Overflow level
		○ Clear path of overflow to downstream collection point
		○ Outfalls and energy dissipation at outfalls
		○ Inlet and outlet pipe invert elevations, slopes, and pipe lengths
		• Drainage Details and Notes
		○ Details of all BMPs, including plan and profile, materials used, and depths, i.e., soils, liners, pipes
		○ Construction notes and specifications for all BMPs
		○ Cross-sections (ponds, swales, roadways, etc.)
		○ A map showing the location of newly planted and retained trees claimed for flow reduction credits
		○ Table showing which Core Requirements the BMP is designed for (CR's #5, #6, and/or #7)
		Other Required Plans/Drawings
		• Soil Management Plan
		• Landscape Plan
		• Road profiles & roadway sections
		• Utility plans (sewer, water, septic).
		Work Map (or maps) including the following:
		• On a topographic map at the same scale and contour interval as the site map, show:
		○ Unit areas contributing to a reach of swale or to a catch basin including off-site area.
		○ Areas contributing to retention/detention facilities
		○ For unit areas show on the work map (or on a schedule) the area, percent impervious, average slope, and estimated ultimate infiltration rate.
		○ Conveyance data, identifier (for reference to model output), length, slope, inverts up and down
		○ Overland flow paths and distances
		○ Soil types
		○ Locations of soil pits and infiltration tests
		○ Spot water surface elevations discharges and velocities for the Design Event
		SWPPP drawing including the following:
		○ Construction entrance detail
		○ Silt fences and sediment traps
		○ Mulching and vegetation plan
		○ Clearing and grubbing limits
		○ Existing and finished grade
		○ Standard erosion control plan notes. Example notes are found in the individual BMP design guidelines in Volume II.
		Standard Plans
		Specifications (both standard and special provisions)

## ***Appendix H***

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Vicinity Map

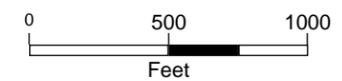
# Webster Forest Nursery



## Legend

- Streams
- Wetland Delineations
  - Verified
  - Delineated
  - Unverified
- Parcel Boundary
- Unknown
- Wetlands
- Wetlands Review Areas
- Parcel Boundaries
- Roads - Major
  - Major Roads
  - Ramp
  - I 5; US 101
- Roads (Large Scale)
- + Railroads
- County Border

Scale 1: 11,526



Map Created Using GeoData Public Website  
Published: 2/26/2024

Note:



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## ***Appendix I***

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Engineering Geology Evaluation  
Technical Memorandum



# TECHNICAL MEMORANDUM

**Client:** Department of Natural Resources

**Project:** Webster Forest Nursery Stormwater Predesign and Design

**Project File:** DNR 0230153.00.0003

**Project Manager:** Bret Beaupain, PE

**Composed by:** Steve Nelson, LHG, LEG

**Reviewed by:** Rick Ballard, PE

**Subject:** Engineering Geology Evaluation

**Date:** April 2, 2024



STEPHEN ERIC NELSON

Signed: 04/02/2024

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## Introduction

The Washington State Department of Natural Resources (DNR) desires to make site improvements at the Webster Forest Nursery site owned by DNR in Olympia, Washington. The proposed improvements will include construction of new storage and greenhouse facilities, gravel parking areas, stormwater improvements to address drainage issues, and stormwater improvements to meet mitigation required to comply with local codes. The site is located at 9805 Blomberg Street SW, Olympia, Washington. Currently, the 270-acre nursery includes 24 buildings, 150 acres of tillable fields, and 13 high-capacity irrigation wells. DNR desires to expand the facilities in the eastern and southern portions of the nursery on parts of Parcel Nos. 067-12720110100 and 067-12720130000. The proposed improvements include new greenhouses, outdoor grow pads, roads, and light industrial facilities in the areas shown in **Figure 1** and **Attachment 1**.

RH2 Engineering, Inc., (RH2) has assessed the existing site and stormwater conditions and infrastructure at the nursery and prepared conceptual designs for the proposed facility improvements. RH2 has coordinated with Thurston County (County), the Washington Department of Fish and Wildlife, and the Washington State Department of Archaeology and Historic Preservation regarding site and stormwater mitigation requirements, necessary permitting efforts, and cultural resources review for the proposed improvements.

Part of the project includes background review and site investigation to characterize site soil, geology, and groundwater conditions that will affect the design and management of the facility and stormwater improvements and to provide recommendations to support design and construction of the improvements.

This technical memorandum summarizes the findings of the background review and limited subsurface investigation to observe, characterize, and document earth and groundwater conditions at the site and provides recommendations for design and construction of the proposed facility and stormwater improvements.

The site is in the NE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  of Section 07, Township 30 N, Range 05 W, centered at latitude 46.949 degrees North and longitude 122.953 degrees West. The generally flat site is at an elevation of approximately 190 feet above mean sea level. The site is located approximately 3 miles southwest of the Olympia Regional Airport and accessed via 93<sup>rd</sup> Avenue west of Interstate 5. The general layout of the site is shown in **Attachment 1**.

The site is developed with structures constructed of masonry, steel, and wood, irrigated and non-irrigated planting areas, dirt and gravel drives, and asphalt-paved parking areas. The area of the proposed improvements currently is irrigated agricultural land.

## Proposed Site Improvements

Site improvements include constructing several warehouses and greenhouses on spread footing foundations. Supporting roads, paved surfaces, and rooftops from the structures will generate stormwater runoff that will be conveyed to perimeter swales and to a new on-site infiltration pond.

Site investigations were conducted as shown in **Figure 2**.

## Regional and Local Geology

RH2 reviewed geologic maps and descriptions of regional geologic conditions provided by DNR's geologic information portal website. RH2 also reviewed the driller's logs for geotechnical borings, on-site monitoring wells, and private wells completed within  $\frac{1}{2}$  mile of the site and recorded at the Washington State Department of Ecology (Ecology) well log website.

One surficial geologic unit is mapped at the site: Quaternary Glacial outwash. This unit generally consists of moderately dense layers of sand and silty sand with occasional gravel, cobbles, and boulders. The glacial outwash has not been glacially overridden.

Review of available LiDAR imagery indicates that very little topographic relief exists at the site.

The glacial drift is characterized by DNR mapping as Seismic Site Class D with a low to moderate risk of liquefaction.

## Site Investigation

On February 8, 2024, RH2 observed the excavation of six exploratory test pits (TP-1 to TP-6) at the site to depths of 3.0 to 8.0 feet below ground surface (bgs) by DNR staff using a rubber-tired backhoe (**Photos 1 and 2**). The test pits were observed and logged by a Washington State licensed hydrogeologist and engineering geologist.

RH2 conducted infiltration testing at TP-6 as shown in **Photos 3 and 4** and as described in the **Stormwater Infiltration Properties** section. After excavation, DNR backfilled the test pits using excavated and compacted soil. The test pit locations are shown in **Figure 2** and the Test Pit Logs (**Attachment 2**) are attached at the end of this technical memorandum.



*Photo 1 – TP-1 looking south.*



*Photo 2 – TP-6 at the start of infiltration testing – pond filling.*



*Photo 3 – TP-6 at the end of pond filling.*



*Photo 4 – TP-6 at start of steady infiltration monitoring.*

RH2 collected and observed grab samples from the test pits to identify stratigraphy, composition, texture, structure, and cohesion of native earth materials encountered during the investigation. The earth materials encountered at each test pit included a thin layer of disturbed soil and a surficial layer of turf and topsoil. Native soil consists of fine sand with silt and trace gravel and cobbles, which is moderately dense and slightly moist. All test pits encountered groundwater at various depths ranging from 4 feet to 7 feet bgs.

The soil and groundwater conditions observed at each test pit appear consistent with each other and are consistent with local geologic mapping and soil observed in nearby soil borings. It is reasonable to assume that excavations for structure foundations and the stormwater infiltration pond will encounter similar moderately dense glacial outwash soil consisting of sand with silt and similar groundwater depth.

Groundwater was observed at depths ranging from 5 to 8 feet bgs. At the proposed stormwater infiltration area, the depth to groundwater was 8 feet bgs.

On February 9, 2024, RH2 conducted an infiltration analysis for the proposed bioretention pond following the guidance of Ecology's 2019 *Stormwater Management Manual for Western Washington, (SWMMWW)* Section V-5.3,  $K_{sat}$  Determination Option 1: Large-Scale Pilot Infiltration Testing (PIT). This method is appropriate for sites where the drainage area is large and the site conditions are generally uniform. The results of the analysis are summarized later in this technical memorandum.

RH2 also followed guidance in the County's *Analysis Procedures for Infiltration [Best Management Practices] BMPs Checklist and Methods for Determining Infiltration Rates Checklist*.

## Geologic Hazards

The DNR geology and hazards portal website was reviewed for geologic hazards at the site. The information that follows summarizes the geologic hazards and relative risk they pose to the stormwater improvements:

- Risks from liquefaction are low to moderate.
- Risks from landsliding are negligible.
- The risk of earthquakes of magnitude 5 to 6 during the next 50 years is high (80 percent).
- The risk of groundwater seepage from surrounding native glacial drift into open-cut trenches or excavations shallower than 4 feet is high, depending on the season.
- The risk of persistent groundwater seepage from surrounding native glacial drift into excavations from 4 feet bgs is high.

## Geotechnical Properties

Based on the observed soil composition and density, the silt with sand unit may support a structure with an appropriately designed foundation that spreads a load that does not exceed a net allowable bearing capacity of 1,500 pounds per square foot.

The silt with sand glacial outwash unit should be considered as a Site Class D, Soft Soil.

## Stormwater Infiltration Properties

RH2 directed DNR to excavate a test pit (TP-6) to a depth of 3 feet, a width of approximately 10 feet, and a length of approximately 10 feet. RH2 directed irrigation supply water into the test pit at an initial rate of 10 gallons per minute (gpm) to create a 1-foot-deep pond in the bottom of the pit. Then the flow was reduced to a rate of 3.5 to 6 gpm for 5 hours to maintain the pond depth at approximately 9 inches deep. After water was shut off, RH2 observed and measured the water level for 90 minutes. The water level declined by 3 inches during the observation period. The initial infiltration rate was estimated at 2.15 inches per hour (**Attachment 3**).

Correction factors from the County's *Methods for Determining Infiltration Rates Checklist* were applied to this initial estimate as follows:

- Testing Variability – full-scale PIT method – 0.75
- Geometry – 30-foot-wide facility,<sup>1</sup> 5 feet to water table – 0.72
- Plugging risk – fine sand, loamy sand – 0.8

The total correction factor is 0.43.

Using an initial infiltration rate of 2.15 inches per hour, the design infiltration rate using the Thurston County method is estimated at 0.92 inches per hour.

Correction factors from Ecology's SWMMWW Table V-5.1 Correction Factors also were applied to this initial estimate as follows:

- Site Variability – 1.0
- Testing Method, full-scale PIT method – 0.75
- Degree of influent control – 0.9

The total correction factor is 0.6.

Using an initial infiltration rate of 2.15 inches per hour, the design infiltration rate using the Ecology method is estimated at 1.3 inches per hour.

The average value for the design infiltration rate is 1.0 inch per hour.

The risk for groundwater mounding is moderate depending on the timing of preceding storms and the pond's condition. The use of elongated ponds to minimize mounding may be a preferred alternative.

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<sup>1</sup> Design width is to be determined; 30 feet selected as an average pond width.

## Recommendations

### Site Excavation for Improvements

- For the new site structures, a minimum of 18 inches of surficial soil should be removed until undisturbed native glacial outwash (moderately dense sand with silt) is encountered.
- Open-cut excavations to install structures, underground utilities, and stormwater improvements (piping and pond) at a depth of approximately 3 to 4 feet bgs should be feasible using backhoes and excavators.
- Excavations to the subgrade should be reviewed by a Licensed Engineering Geologist (LEG) or Professional Engineer with a geotechnical background (PEG) at the lowest excavated subgrade elevation prior to any subgrade improvements to confirm the suitability of native soil as subgrade for construction.

### Slopes and Shoring

- Excavations below depths of 4 feet will require shoring to protect workers, adjacent structures, roads, and utilities unless the cut slope is at or greater than 2H:1V.
- All temporary cuts for trenches should be reviewed for stability periodically to ensure slope integrity. This should include reviewing the top of the slope for tension cracks and settlement, as well as erosion. The contractor should keep heavy equipment a sufficient distance (more than half the excavation depth) from the edge of the trench to minimize surcharge loads on the soil next to the cut slope.
- The native sand with silt soil is erodible. Temporary slopes should be protected from erosion from direct precipitation or runoff from adjacent impermeable surfaces. Before and during precipitation events, the surface should be covered by plastic sheeting or other techniques that prevent rain splash erosion and rilling. Measures should be taken to prevent stormwater runoff into open excavations.
- All permanent slopes should be protected from erosion by hydroseeding and planting with landscape fabric, coarse bark placement, quarry spalls, or other materials that prevent rain splash erosion and rilling.
- The contractor will be responsible for maintaining the integrity and safety of excavations and must provide a shoring plan as part of the bid submittal.

### Subgrade Preparation

- Areas of subgrade that consist of less than 12 inches of loose, organic, and/or wet native soil or fill should be over-excavated and backfilled with compacted crushed rock up to the design subgrade depth.
- Areas of subgrade that consist of more than 12 inches of loose or unsuitable native soil should be over-excavated and backfilled with compacted structural fill up to the design subgrade depth. Additional materials, such as geotextile fabric or quarry spalls, may

supplement the placement of structural fill to increase the bearing capacity of the soil if it is necessary to support occasional vehicle traffic over the structural fill.

- The final subgrade should be flat and free of loose earth or organic materials. The subgrade should be probed to confirm uniform soil density and approved by an LEG or PEG.
- Structural backfill should meet the requirements of gravel borrow (or equivalent) per the Washington State Department of Transportation (WSDOT) Standard Specifications 2018, Section 9-03.14(1). Structural backfill should be placed at optimal moisture in 6-inch loose lifts and compacted to 95 percent of Maximum Dry Density using the Modified Proctor method.
- Crushed rock should meet the requirements of crushed surfacing base course (CSBC) per WSDOT Standard Specifications 2018, Section 9-03.9(3). CSBC should be placed in 6-inch lifts and compacted to a firm and unyielding surface.

## **Stormwater Design**

- Analysis of the pond area may assume a design infiltration rate of 1.0 inch per hour. If a large, wide pond is used, a design infiltration rate of 0.5 inches per hour is recommended to mitigate groundwater mounding risk.
- Directing roof runoff from structures into infiltration trenches next to buildings would mitigate mounding risk by dispersing infiltration over a larger area. The infiltration trenches may be open rock-lined ditches or may rely on buried perforated pipe if roofing consists of inert, non-leachable material.
- Directing stormwater from paved areas into open rock-lined ditches along the pavement perimeter also may reduce groundwater mounding risk by dispersing infiltration more widely at the site.
- Groundwater mounding risk also could be mitigated by directing infiltration pond overflow into the current pond overflow ditch for periods of continuous precipitation or during extreme precipitation events.

## References

- Thurston County. (2022). *Thurston County Drainage Design and Erosion Control Manual*. Prepared for Thurston County Water Resources Division, Department of Public Works.
- Thurston County. (2023). *Infiltration including Methods for Determining Infiltration Rates Checklist and Procedures for Infiltration Trenches and Basins Checklist*. Prepared for Thurston County Water Resources Division, Department of Public Works.
- Washington State Department of Natural Resources. Washington Geologic Information Portal. Retrieved from <https://geologyportal.dnr.wa.gov/>.
- Washington State Department of Ecology. (2019). *Stormwater Management Manual for Western Washington*. Prepared for Washington State Department of Ecology, Water Quality Program.

## Attachments

- Figure 1 – Site Vicinity Map
- Figure 2 – Site Map
- Attachment 1 – Proposed Site Plan
- Attachment 2 – Test Pit Logs
- Attachment 3 – Infiltration Testing Results

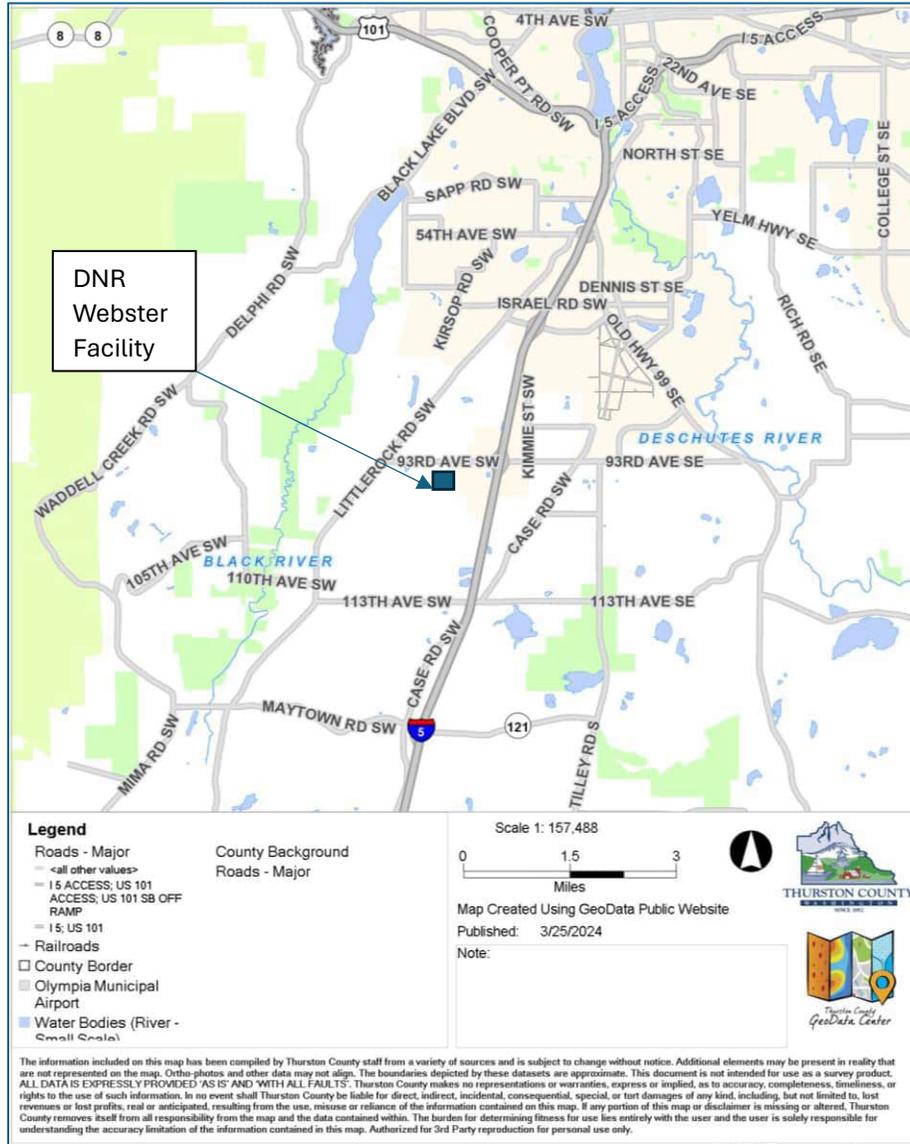
## ***Figures***

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# Figure 1

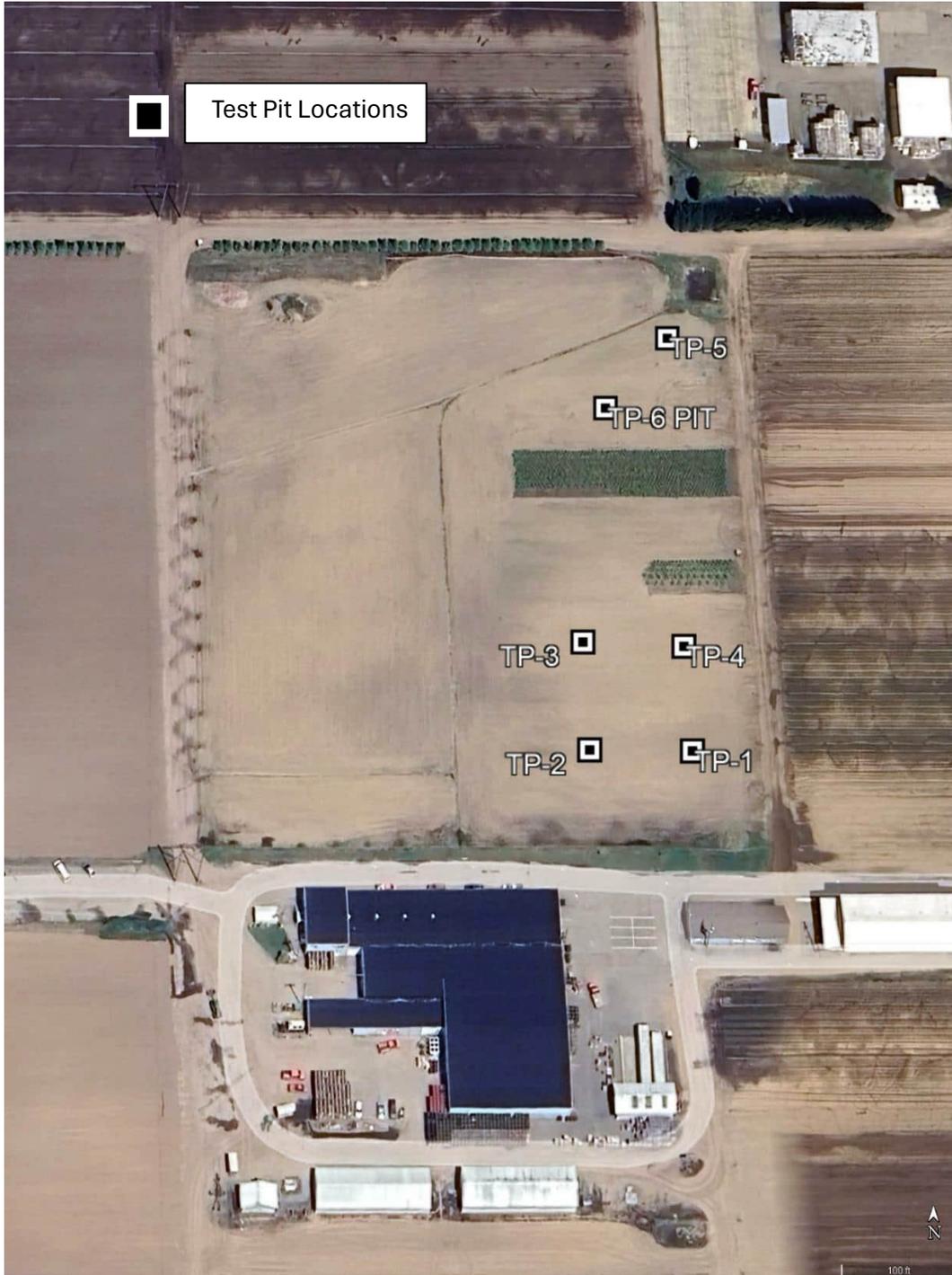
## Site Vicinity Map

### Dept. Natural Resources Webster Nursery



**Figure 2**  
**Site Map**

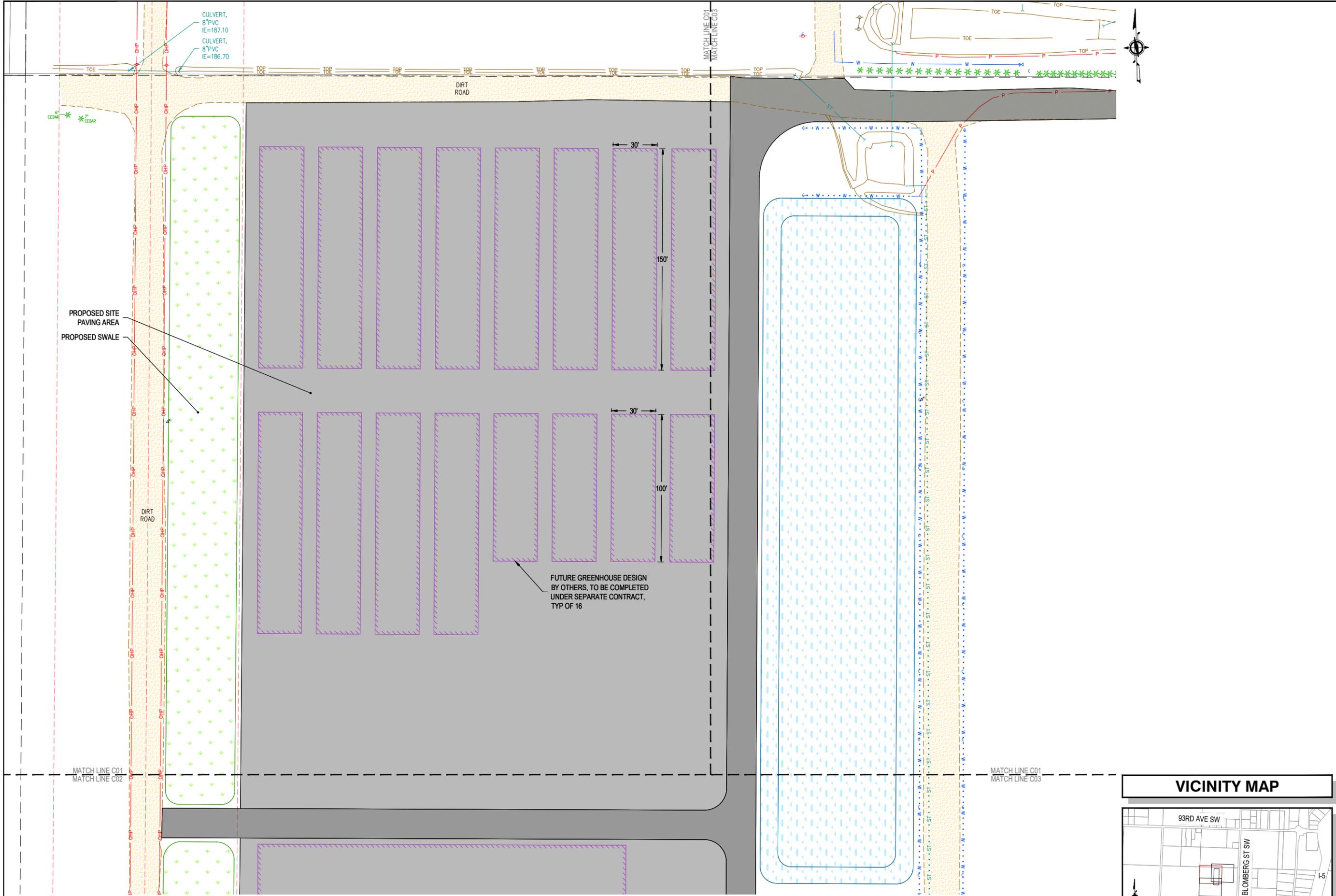
**Dept. Natural Resources Webster Nursery**



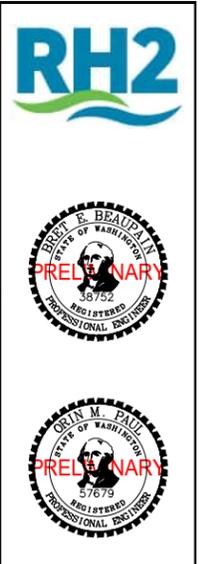
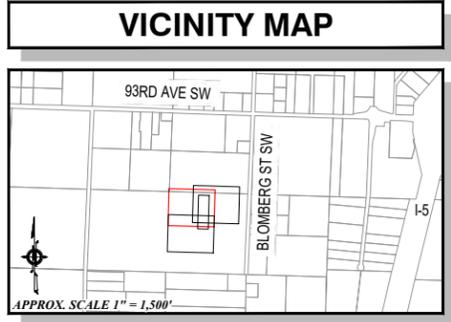
# ***Attachment 1***

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Proposed Site Plan



**PROPOSED SITE PLAN II**  
1" = 30'



**DEPT. OF NATURAL RESOURCES**  
**WEBSTER STORMWATER DESIGN**

**PROPOSED SITE PLAN II**

NO.	DATE	DESCRIPTION	BY	REVIEW

REVISIONS

PRELIMINARY REVIEW DRAWINGS

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO. C02 SHEET NO. 14 OF 16

## ***Attachment 2***

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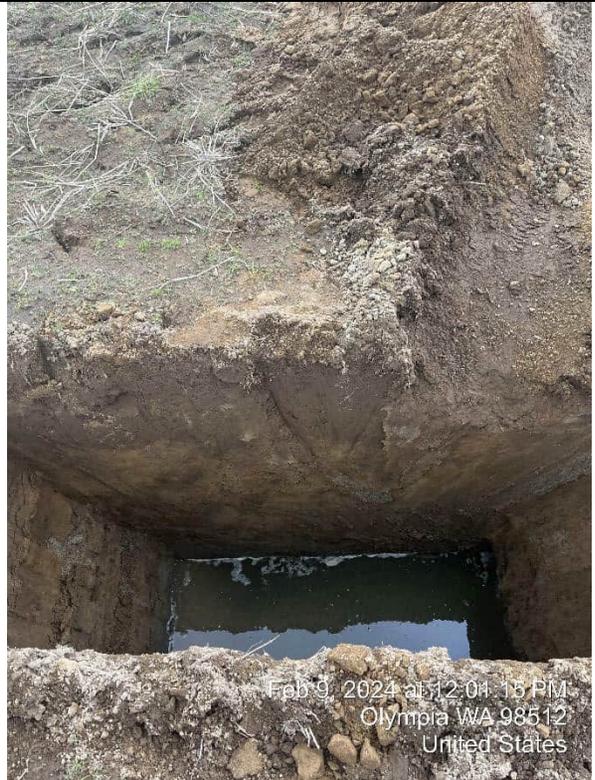
Test Pit Logs

	<b>Test Pit/Exploration Log</b> <b>TP-1</b> Geotechnical Test Pit	<b>Webster Stormwater</b> <b>Predesign and Design</b>	<b>Olympia, WA</b> 9805 Blomberg Street SW, Olympia, Washington	
<b>Griffin Young, GIT</b>  Inspected by	<b>February 8, 2024</b>  Date	<b>Department of Natural</b> <b>Resources (DNR)</b>  DNR 23-0153	<b>John Deere 673</b> <b>Operator: DNR</b>  Backhoe and Operator	
<b>Depth (Feet)</b>	<b>Description</b>		<b>Sketch/Photo</b>	
0.0 – 1.3	Topsoil Silty sand, organics present in top 0.5 feet below ground surface (bgs). Dark brown to chocolate brown in color with poorly graded fine sand exhibiting mottling and containing an estimated 30- to 40-percent silt.			
1.3 – 4.5	SAND with Silt (SP-SM). Tan to golden ocher in color. Poorly graded medium sand, low to medium density, could penetrate with finger with moderate difficulty.			
4.5	A burn mark encountered at 4.5 feet of depth; stopped for archeological examination and moved to next geotechnical test pit.			

	<b>Test Pit/Exploration Log</b> <b>TP-2</b> Geotechnical Test Pit	<b>Webster Stormwater</b> <b>Predesign and Design</b>	<b>Olympia, WA</b> 9805 Blomberg Street SW, Olympia, Washington
<b>Griffin Young, GIT</b>  Inspected by	<b>February 8, 2024</b>  Date	<b>Department of Natural</b> <b>Resources (DNR)</b>  DNR 23-0153	<b>John Deere 673</b> <b>Operator: DNR</b>  Backhoe and Operator
<b>Depth (Feet)</b>	<b>Description</b>		<b>Sketch/Photo</b>
0.0 – 0.5	Topsoil Silty Sand, brown to dark brown, moist to dry, organics present. Sand is fine and poorly graded.		
0.5 – 3.2	Silty Sand (SP-SM). Tan to brown, poorly to moderately graded fine to medium subrounded sand, approximately 30- to 40-percent silt in composition.		
3.2 - 4.5	Sand with Silt (SP-SM). Coarse-grained subrounded poorly graded sand with approximately 15-percent silt in content. Grey to brown to red.		
Water first encountered at approximately 2.0 feet of depth in what is suspected to be a previous root hole that has since filled in with a poorly graded sand bearing water. Water table encountered at 4 feet bgs.			

	<b>Test Pit/Exploration Log</b> <b>TP-3</b> Geotechnical Test Pit	<b>Webster Stormwater</b> <b>Predesign and Design</b>	<b>Olympia, WA</b> 9805 Blomberg Street SW, Olympia, Washington	
<b>Griffin Young, GIT</b>  Inspected by	<b>February 8, 2024</b>  Date	<b>Department of Natural</b> <b>Resources (DNR)</b>  DNR 23-0153	<b>John Deere 673</b> <b>Operator: DNR</b>  Backhoe and Operator	
<b>Depth (Feet)</b>	<b>Description</b>		<b>Sketch/Photo</b>	
0.0 – 0.5	Topsoil (SP-SM). Silty Sand, brown to dark brown, moist to dry, organics present. Sand is fine and poorly graded. Semi-moist to dry.		 <p style="text-align: right; font-size: small;">             Feb 8, 2024 at 9:44:51 AM              Olympia WA 98512              United States           </p>	
0.5 – 3.0	Silty Sand (SP-SM). Grey to tan, poorly graded medium rounded to subrounded sand, approximately 30-percent silt in composition.			
3.0 - 7.25	Sand with Silt (SP-SM). Medium to coarse grained sand, grey to tan in color. Dry to moist in moisture, poorly graded, rounded to subrounded grains.			
Water first encountered at approximately 6 feet of depth seeping from sidewalls of test pit.				

	<b>Test Pit/Exploration Log</b> <b>TP-4</b> Geotechnical Test Pit	<b>Webster Stormwater</b> <b>Predesign and Design</b>	<b>Olympia, WA</b> 9805 Blomberg Street SW, Olympia, Washington
<b>Griffin Young, GIT</b>  Inspected by:	<b>February 8, 2024</b>  Date	<b>Department of Natural</b> <b>Resources (DNR)</b>  DNR 23-0153	<b>John Deere 673</b> <b>Operator: DNR</b>  Backhoe and Operator
<b>Depth (Feet)</b>	<b>Description</b>		<b>Sketch/Photo</b>
0.0 – 0.8	Topsoil (SP-SM). Silty Sand, rich dark brown, moist, organics present. The sand is fine and poorly graded.		
0.8 – 4.0	Silty Sand (SP-SM). Brown, poorly graded fine rounded to subrounded sand. Medium density.		
4.0 - 7.5	Silty sand (SP-SM). Medium subrounded grains, grey, sand with silt. Medium density.		
Water first encountered at approximately 7.0 feet of depth seeping from sidewalls of test pit.			

	<b>Test Pit/Exploration Log</b> <b>TP-5</b> Potential Stormwater Infiltration TP	<b>Webster Stormwater</b> <b>Predesign and Design</b>	<b>Olympia, WA</b> 9805 Blomberg Street SW, Olympia, Washington
<b>Griffin Young, GIT</b>  Inspected by:	<b>February 8, 2024</b>  Date	<b>Department of Natural Resources (DNR)</b>  DNR 23-0153	<b>John Deere 673</b> <b>Operator: DNR</b>  Backhoe and Operator
<b>Depth (Feet)</b>	<b>Description</b>		<b>Sketch/Photo</b>
0.0 – 0.6	Topsoil (SP-SM). Silty Sand, rich dark brown, moist, organics present. The sand is fine and poorly graded.		
0.8 – 3.0	Silty Sand (SP-SM). Brown, poorly graded, fine to upper fine, rounded to subrounded sand. Medium density. Root hole containing loose sand in layer was observed.		
3.0 – 8.0	Silty sand (SP-SM). Medium subrounded grains, grey, sand with silt. Medium density.		
Water first encountered at approximately 8.0 feet of depth seeping from sidewalls of test pit.			

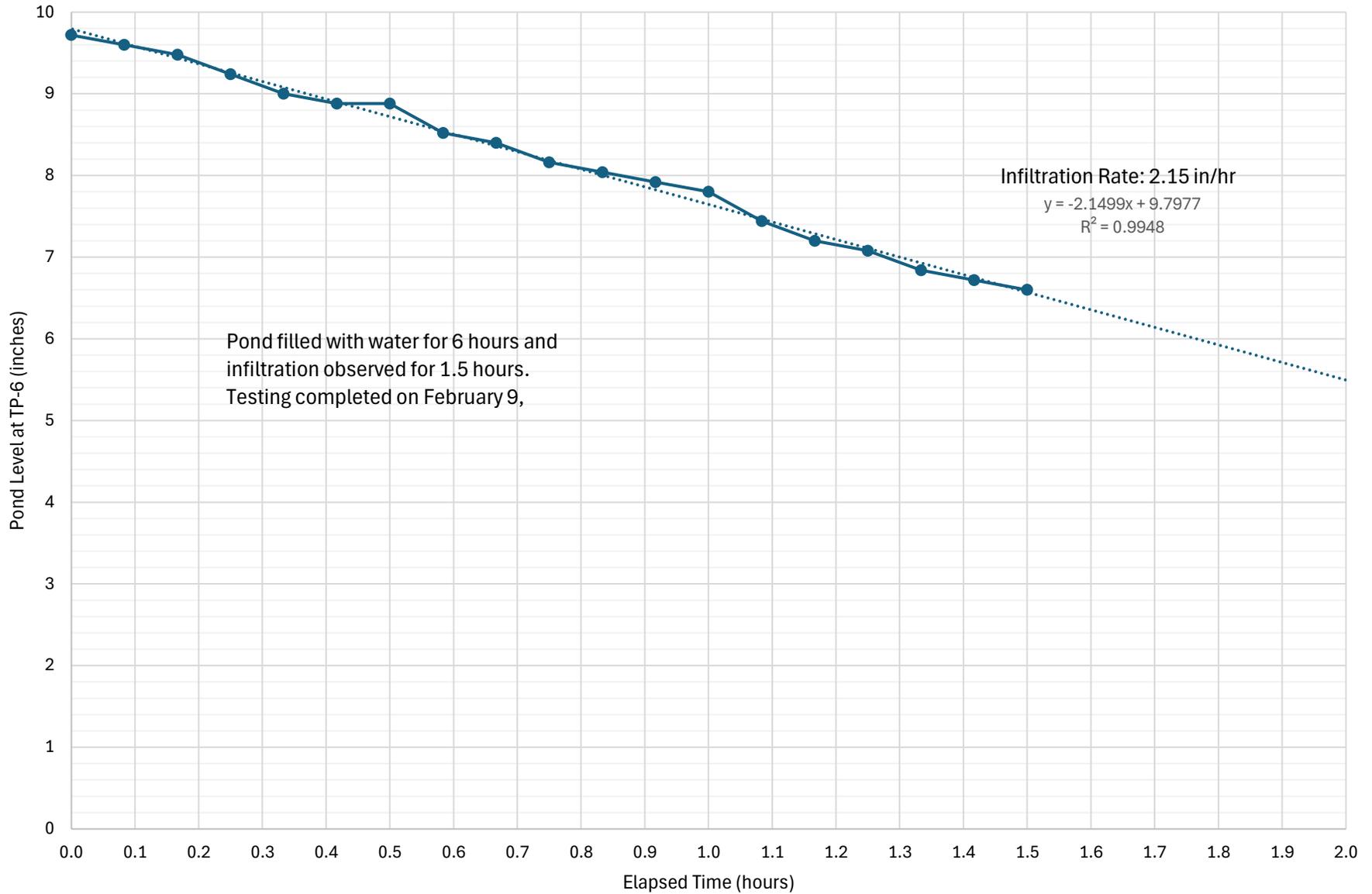
	<b>Test Pit/Exploration Log</b> <b>TP-6</b> Pilot Infiltration Test (PIT)	<b>Webster Stormwater</b> <b>Predesign and Design</b>	<b>Olympia, WA</b> 9805 Blomberg Street SW, Olympia, Washington
<b>Griffin Young, GIT</b>  Inspected by	<b>February 8, 2024</b>  Date	<b>Department of Natural</b> <b>Resources (DNR)</b>  DNR 23-0153	<b>John Deere 673</b> <b>Operator: DNR</b>  Backhoe and Operator
<b>Depth (Feet)</b>	<b>Description</b>		<b>Sketch/Photo</b>
0.0 – 0.8	Topsoil (SP-SM). Silty Sand, rich dark brown, moist, organics present. The sand is fine and poorly graded.		
0.8 – 3.0	Silty Sand (SP-SM). Brown, poorly graded fine rounded to subrounded sand. Medium density.		
Ground excavated to 11.8 feet by 12.0 feet by 3.0 feet for the PIT.			

## ***Attachment 3***

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### Infiltration Testing Results

# Pilot Infiltration Testing Results DNR Webster Nursery



# Webster Nursery Production Expansion – Design & Storm Water Construction

Significant increases in wildfire acres burned in the western United States and forest nursery closures during the last two decades have resulted in a decreased ability for public and private forest nursery infrastructure to meet seedling demand in the Pacific Northwest.

This project would leverage the existing Webster Forest Nursery facility to increase seedling production to meet the demand for post disturbance reforestation efforts and support new initiatives to restore riparian areas and mitigate climate change impacts in Washington.

Specifically, this request is to complete a design phase of the greenhouses and warehouse and construction of the storm water structures.

*At end state this project will increase Webster Nursery seedling production by 4 Million trees per year and double the current Nursery output.*

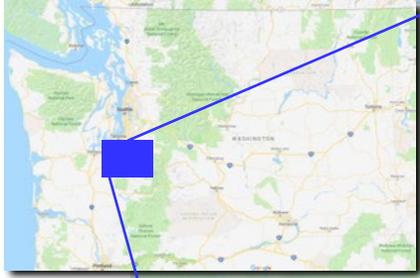
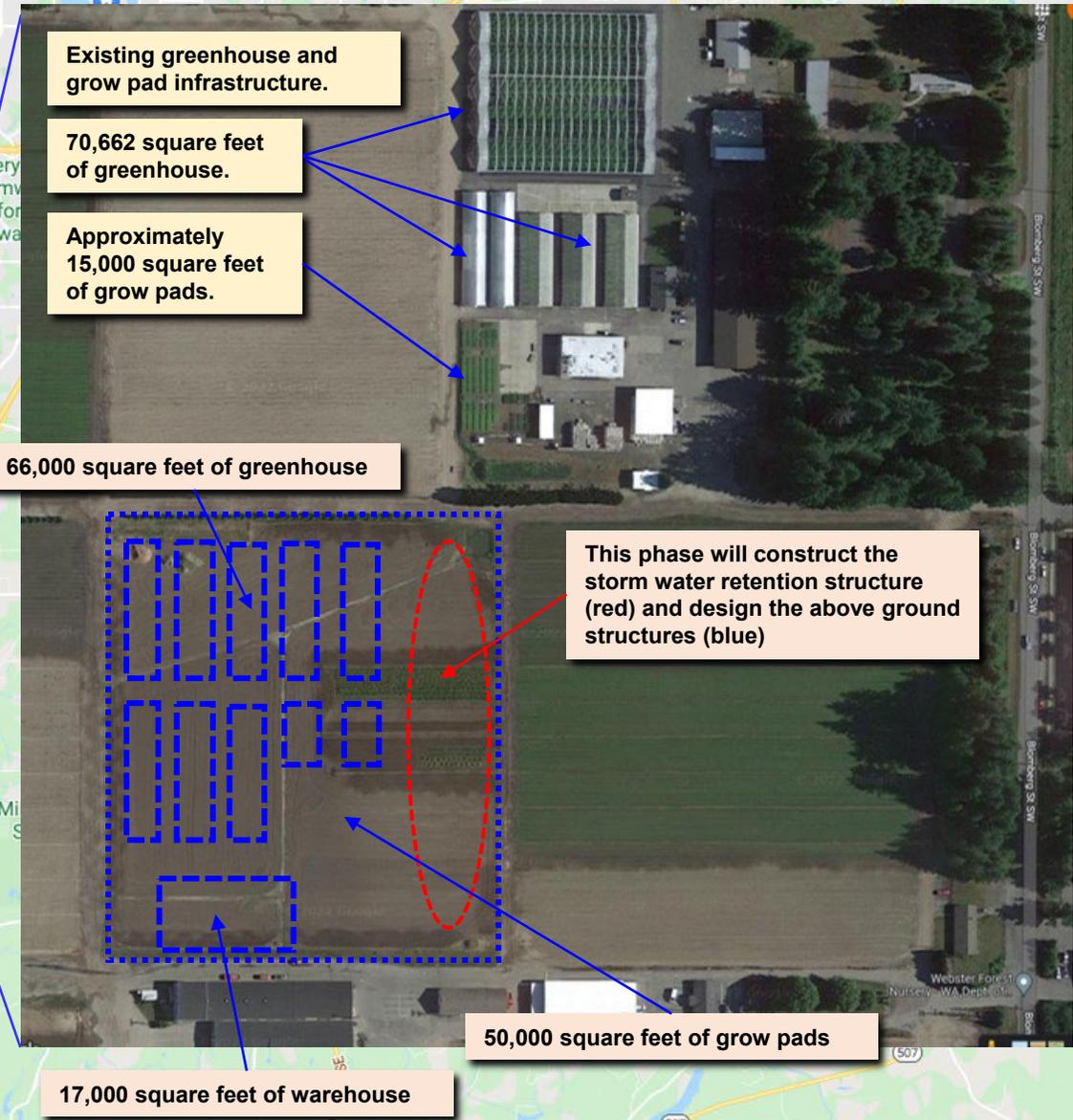
Project:  
2025 Request: **\$5591,000**  
2025 Phase: **Building Design & Storm Water Construction**  
2023 Request: **\$663,000**  
2023 Phase: Pre-design.

Tot Project Cost: **Estimated mid-design at \$ 32,000,000 – too be refined by design process.**

End state of project is construction of 66,000 square feet of greenhouse space, 50,000 square feet of grow pad space and 17,000 square feet of partially refrigerated warehouse space. The pre-design will determine storm water and gopher mitigation requirements and result in storm water mitigation design for execution in the subsequent biennium.

Operating impact or request: **\$0 for '25-'27**

Project located on existing DNR Nursery property and will occupy approximately six acres with storm water infrastructure.



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000653

**Project Title:** Omak Consolidation, Expansion and Relocation

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 7

### Project Summary

This project is to construct a complex of 14 buildings on an eight-acre site leased from the City of Omak at the Omak Airport. This project supports the Department of Natural Resources' (DNR) Aviation (Fire) program, Northeast Region's Fire Program, as well as forest resiliency, recreation and other programs. This project eliminates four space leases, the rental of four mobile office trailers and a land lease currently in use by the Department.

### Project Description

#### **Project Description (Describe the proposed project):**

#### **Identify the problem or opportunity addressed. Why is the request a priority?**

This project consolidates a collection of leases, mobile office trailer rentals and a land lease into a single complex that accommodates the Department of Natural Resources' (DNR) expanded operations, particularly related to fire suppression in the greater Omak vicinity.

DNR currently leases a mix of buildings and mobile office trailers at several locations at the Airport, as well as off-site vehicle storage and billeting space for seasonal firefighting personnel. The current collection of facilities is sub-standard to requirements, the largest of which is not weather tight. The four mobile office trailers supporting the Aviation Program do not have utility delivery of potable water or sewer/septic service and DNR must truck in potable water to the site and truck out septic waste. DNR rotates (air crew and Helitack) or bases 83 personnel at Omak this location.

A major component of this project is to establish suitable dormitory space for seasonal fire personnel. Partial year housing or leasing opportunities are very limited in the vicinity of Omak. Some seasonal personnel have resorted to living in their personal vehicles or campgrounds in the area to fill seasonal positions during fire season. The lack of available housing solutions has limited applicants for open seasonal positions and some positions have remained unfilled over recent years.

Specifically, this project will construct an operations building for aviation operations and personnel, a work center office building for DNR's Northeast Region, a shop building, a fire cache and warehouse building, five buildings contributing a total of 36 dormitory rooms, two shower/latrine/laundry structures, a dayroom/community space with meal preparation facilities, and a small outbuilding to house flammable liquids. The project will establish a compound on eight acres of land leased from the City of Omak.

Previous phases of this project have included an effort by the City of Omak to construct water delivery infrastructure at the Airport such that the infrastructure delivers water in sufficient volume to support the fire suppression systems necessary for permitted construction under current building codes. The City's project is underway and is due to complete construction late in 2024.

#### **What will the request produce or construct? When will the project start and be completed?**

This request is for construction at the Omak Airport resulting from the design currently underway. This request is to support the third and final phase of the Department's project at this site. The design, completed through the 60% milestone (select documents attached), has finalized size, siting, design and estimated cost of the construction necessary to complete the project.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:01PM

Project Number: 40000653

Project Title: Omak Consolidation, Expansion and Relocation

## Description

Specifically, this request is for the funding to support the construction resulting from the design phase. The design includes an operations building for aviation operations and personnel, a work center office building for the Department's Northeast Region, a shop building, a fire cache and warehouse building, five buildings contributing a total of 36 dormitory rooms, two shower/latrine/laundry structures, a dayroom/community space with meal preparation facilities, and a small outbuilding to house flammable liquids. The buildings are a combination of wood, stick-frame structures, two pre-manufactured concrete buildings and a small structure constructed from concrete masonry units.

Previous phases of this project delivered pre-design products, design and construction of the well and water reservoir by the City of Omak and the ongoing design that will support the final construction phase that is the subject of this request.

### How would the request address the problem or opportunity? What would be the result of not taking action?

This request satisfies a deliberate approach to solving a series of complex problems surrounding the Department's aviation operations in support of fire suppression, and agency fire and forest health operations in the Omak area. This project will eliminate the use of multiple leases and rental of mobile office trailers, most of which are not suitable for current use while also providing seasonal firefighting personnel with suitable, safe, unisex dormitory space.

The result of not continuing the Departments efforts to complete the project is to delay a deliberate process by at least two years and undercut City of Omak interest in supporting further development efforts. Based on the lack of ability of the Department to support seasonal personnel with billeting support and the condition of the leased fire station and work center, occupation health issues may require DNR to lease additional mobile office trailers to support ongoing operations. DNR is unable to staff all fire positions at the site on a recurrent basis due to the lack of applicants willing to fill positions without a suitable billeting solution. Further delay of progress towards a built solution extends the period of continued operation of inefficient processes in a period of increasing fire threats due to environmental conditions.

### What alternatives were explored? Why was the recommended alternative chosen?

DNR has reviewed agency owned property in the general area regarding potential development. The agency's assessment determined that all potential sites would incur substantial development costs and none of the options would satisfy the general requirement to consolidate operations inclusive of the aviation requirements. Similarly, no local leasing solutions would accommodate the agency's requirement for access to the airfield and the spatial requirements necessary to support the fire station, work center and Helitack base.

The Omak Airport is a nexus for fire suppression related aviation activities during fire season including those of federal agencies, tribal resources and contracted assets supporting one or more agencies. Omak has long been a center of DNR's fire suppression efforts; however, it has lacked the infrastructure to fully take advantage of the geographical advantages of the Airport in relation to protected lands.

### Which clientele would be impacted by the budget request?

The primary beneficiaries of this project are the agency employees servicing this portion of the state. The indirect beneficiaries of this project are the users of public lands in the area, and private landowners that will continue to receive expanded fire suppression response efforts.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:01PM

Project Number: 40000653

Project Title: Omak Consolidation, Expansion and Relocation

## Description

Specifically, this project affects 83 Department of Natural Resources' positions, including billeting opportunities for up to 36 seasonal fire personnel.

### Does this project or program leverage non-state funding? If yes, how much by source?

This project does not leverage non-state funding.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project addresses DNR's Strategic Plan in the following ways. This project supports Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by significantly improving the working conditions for personnel operating in the area and will support continued fire suppression response efforts. This project supports Priority Two, "Build Strong and Healthy Rural Communities," through strengthening partnerships with local stakeholders to address community economic development issues. This project supports Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by more effectively positioning fire and forestry resources in position to affect positive outcomes and with the means to act effectively.

### Does this request include funding for any IT-related cost?

This project does not have an IT component.

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

This project is not linked to the Puget Sound Action Agenda.

### How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?

This project takes advantage of modularized design and segregated building envelopes as well as electric only HVAC systems whereby portions of the site such as the dormitories, latrines, and air operations spaces can transition to maintenance level temperature controls during the off season without affecting buildings in use year-round.

None of the structures in this project contain square footage above thresholds for inclusion in requirements for Tier I or Tier II buildings under the Clean Building Act.

DNR reviewed the potential for solar panel installation as a design goal during the design process. The project site, however, is on an active airport and involves DNR operated aircraft. Both the City, operator of the airport and the Department's Chief Pilot vetoed the use of solar panels due to concerns regarding flight safety issues and liabilities.

This project eliminates DNR use of four leased mobile office trailers one leased structure built as an aircraft hangar but used as office and workspace and a portion of one leased structure built as an aircraft hangar and modified for office use. In terms of energy efficiency, facilities of this sort have extremely inefficient energy performance, particularly heating and cooling efficiency. A review of energy billing over several years at the two leased facilities at the airport indicate energy use at between

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:01PM

Project Number: 40000653

Project Title: Omak Consolidation, Expansion and Relocation

**Description**

25% and 50% above OFM standardized cost projections on a per square foot basis for that zone and building type.

**How is your proposal impacting equity in the state?**

This project relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards posed by work conducted at the existing leased and substandard Department of Natural Resources sites and providing adequate latrine and hygiene facilities to fire personnel as well as eliminating conditions in which seasonal personnel live in vehicles and camp grounds while in Departmental employment.

This project includes a sizable component that addresses temporary housing for seasonal employees and infrastructure to support temporary housing for seasonal employees in a housing market that otherwise does not provide adequate affordable housing opportunities. This project matches economic opportunity in the form of employment to availability of housing to support the ability of personnel to take advantage of the employment opportunities.

**NEW: Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay.

**Is there additional information you would like decision makers to know when evaluating this request?**

A slide and selected 60% Design documents are attached to this decision package.

**NEW: If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relate to a salmon strategy action**

This project is not linked to the Governor's Salmon Strategy.

**NEW: Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

Construction Project Coordinator 4 - 0.4 FTE

**Location**

City: Omak

County: Okanogan

Legislative District: 007

**Project Type**

New Facilities/Additions (Major Projects)

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:01PM

Project Number: 40000653

Project Title: Omak Consolidation, Expansion and Relocation

**Description**

**Growth Management impacts**

N/A

**New Facility:** Yes

**How does this fit in master plan**

This project constructs 14 new facilities in a single complex. This project replaces a collection of leased buildings, sites and trailers and replaces the sub-standard sites with a purpose-built facility sustainable for future operations.

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	29,542,000				29,542,000
	<b>Total</b>	<b>29,542,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29,542,000</b>

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No. This project was initiated prior to 1 July 2023.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No. This project was initiated prior to 1 July 2023.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A.

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	Omak Consolidation, Expansion and Relocation
OFM Project Number	400000033

Contact Information	
Name	Wayne Skill
Phone Number	360-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet	30,330	MACC per Gross Square Foot	\$769
Usable Square Feet		Escalated MACC per Gross Square Foot	\$812
Alt Gross Unit of Measure			
Space Efficiency		A/E Fee Class	B
Construction Type	Dormitories	A/E Fee Percentage	7.53%
Remodel	No	Projected Life of Asset (Years)	50
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	Yes
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	8.44%	Location Used for Tax Rate	Omak
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	A06172
Project Administered By	Agency		

Schedule			
Pre-design Start	October-21	Pre-design End	May-22
Design Start	November-23	Design End	June-25
Construction Start	October-25	Construction End	June-27
Construction Duration	20 Months		

Green cells must be filled in by user

Project Cost Summary			
Total Project	\$30,108,041	Total Project Escalated	\$31,750,374
		Rounded Escalated Total	\$31,750,000
Amount funded in Prior Biennia			\$1,289,000
<b>Amount in current Biennium</b>			<b>\$29,542,000</b>
Next Biennium			\$0
Out Years			\$919,000

Acquisition			
Acquisition Subtotal	\$90,800	Acquisition Subtotal Escalated	\$90,800

Consultant Services			
Pre-design Services	\$0		
Design Phase Services	\$1,271,846		
Extra Services	\$0		
Other Services	\$571,409		
Design Services Contingency	\$92,163		
<b>Consultant Services Subtotal</b>	<b>\$1,935,419</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$1,977,756</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$23,313,170	Maximum Allowable Construction Cost (MACC) Escalated	\$24,633,133
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$1,165,659		\$1,240,028
Non-Taxable Items	\$0		\$0
Sales Tax	\$2,066,078	Sales Tax Escalated	\$2,183,763
<b>Construction Subtotal</b>	<b>\$26,544,906</b>	<b>Construction Subtotal Escalated</b>	<b>\$28,056,924</b>

Equipment			
Equipment	\$164,400		
Sales Tax	\$13,875		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$178,275</b>	<b>Equipment Subtotal Escalated</b>	<b>\$189,650</b>

Artwork			
Artwork Subtotal	\$157,962	Artwork Subtotal Escalated	\$157,962

Agency Project Administration			
Agency Project Administration Subtotal	\$1,200,679		
DES Additional Services Subtotal	\$0		
Other Project Admin Costs	\$0		
<b>Project Administration Subtotal</b>	<b>\$1,200,679</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$1,277,282</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$30,108,041</b>	Total Project Escalated	<b>\$31,750,374</b>
		Rounded Escalated Total	<b>\$31,750,000</b>

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$90,800		\$90,800		\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$1,977,756	\$1,145,000	\$706,905		\$125,851
<b>Construction</b>					
Construction Subtotal	\$28,056,924	\$0	\$28,096,107		-\$39,183
<b>Equipment</b>					
Equipment Subtotal	\$189,650		\$189,918		-\$268
<b>Artwork</b>					
Artwork Subtotal	\$157,962	\$0	\$158,173		-\$211
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$1,277,282	\$144,000	\$300,000		\$833,282
<b>Other Costs</b>					
Other Costs Subtotal	\$0	\$0	\$0		\$0

<b>Project Cost Estimate</b>					
Total Project	\$31,750,374	\$1,289,000	\$29,541,903	\$0	\$919,471
	\$31,750,000	\$1,289,000	\$29,542,000	\$0	\$919,000
Percentage requested as a new appropriation			93%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**

Construction Phase of project

*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**

Design Phase. 60% Design documents are basis for estimations and request for appropriation.

*Insert Row Here*

**What is planned with a future appropriation?**

N/A

*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease	\$90,800				
Appraisal and Closing					
Right of Way					
Demolition					
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$90,800</b>		NA	<b>\$90,800</b>	

Green cells must be filled in by user

## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis					
Environmental Analysis					
Predesign Study					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.0000</b>	<b>\$0</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$1,271,846				69% of A/E Basic Services
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$1,271,846</b>		<b>1.0000</b>	<b>\$1,271,847</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)					
Geotechnical Investigation					
Commissioning					
Site Survey					
Testing					
LEED Services					
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)					
Landscape Consultant					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.0000</b>	<b>\$0</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$571,409				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$571,409</b>		<b>1.0638</b>	<b>\$607,866</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$92,163				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$92,163</b>		<b>1.0638</b>	<b>\$98,043</b>	Escalated to Mid-Const.

**CONSULTANT SERVICES TOTAL**

**\$1,935,419**

**\$1,977,756**

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation	\$989,173				
G20 - Site Improvements	\$2,893,694				
G30 - Site Mechanical Utilities	\$1,402,901				
G40 - Site Electrical Utilities	\$568,000				
G60 - Other Site Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$5,853,768</b>		<b>1.0352</b>	<b>\$6,059,821</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements					
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.0352</b>	<b>\$0</b>	
<b>3) Facility Construction</b>					
A10 - Foundations	\$1,171,694				
A20 - Basement Construction					
B10 - Superstructure	\$1,266,418				
B20 - Exterior Closure	\$2,288,209				
B30 - Roofing	\$1,742,222				
C10 - Interior Construction	\$346,492				
C20 - Stairs	\$12,000				
C30 - Interior Finishes	\$582,446				
D10 - Conveying					
D20 - Plumbing Systems	\$272,655				
D30 - HVAC Systems	\$1,573,100				
D40 - Fire Protection Systems	\$130,925				
D50 - Electrical Systems	\$1,310,347				
F10 - Special Construction	\$330,798				
F20 - Selective Demolition					
General Conditions	\$6,432,096				
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$17,459,402</b>		<b>1.0638</b>	<b>\$18,573,312</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$23,313,170</b>			<b>\$24,633,133</b>	
	\$769			\$812 per GSF	

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**7) Owner Construction Contingency**

Allowance for Change Orders	\$1,165,659		
Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$1,165,659</b>	<b>1.0638</b>	<b>\$1,240,028</b>

**8) Non-Taxable Items**

Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.0638</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$2,066,078</b>		<b>\$2,183,763</b>
------------------	--------------------	--	--------------------

<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$26,544,906</b>		<b>\$28,056,924</b>
-------------------------------------	---------------------	--	---------------------

Green cells must be filled in by user

## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment	\$50,200				
E20 - Furnishings	\$114,200				
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$164,400</b>		<b>1.0638</b>	<b>\$174,889</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.0638</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$13,875</b>			<b>\$14,761</b>	
<b>EQUIPMENT TOTAL</b>					
	<b>\$178,275</b>			<b>\$189,650</b>	

Green cells must be filled in by user

## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$157,962				0.5% of total project cost for new construction 0.5% of total project cost for new and renewal construction
Higher Ed Artwork	\$0				
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$157,962</b>		<b>NA</b>	<b>\$157,962</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$1,200,679				
Additional Services					
Other					
Insert Row Here					
<i>Subtotal of Other</i>	<i>\$0</i>				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$1,200,679</b>		<b>1.0638</b>	<b>\$1,277,282</b>	

Green cells must be filled in by user

## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.0352</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

First 2 years of ground lease during construction (349,234 SF of site x \$.13/SF) = \$45,400/yr

*Insert Row Here*

**Tab B. Consultant Services**

*Insert Row Here*

**Tab C. Construction Contracts**

See additional documentation in DP - individual building cost and site development costs broken out.

14 individual structures on site.

*Insert Row Here*

**Tab D. Equipment**

Installed appliances - kitchen, laundry, latrine

*Insert Row Here*

**Tab E. Artwork**

Artwork is included in estimate, however, no building is larger than 4900 SF and none have any public space.

No public access.

*Insert Row Here*

**Tab F. Project Management**

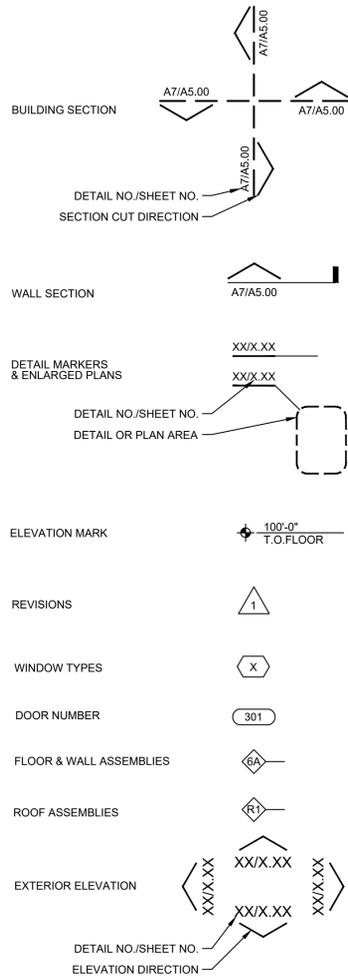
CPC 4 X 9 Months

*Insert Row Here*

**Tab G. Other Costs**

*Insert Row Here*

**SYMBOLS**



**GENERAL NOTES**

1. PROVIDE SOLID BLOCKING REINFORCEMENT FOR ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: GRAB BARS AT TOILETS, GRAB BARS & SHOWER SEAT IN SHOWERS, CASEWORK, SHELVING, AND OTHER WALL MOUNTED ACCESSORIES, SEE DETAILS 4/A8.00
2. SEE DETAILS ON SHEET A7.00 FOR STANDARD MOUNTING HEIGHTS, ACCESSIBLE WATER CLOSET GRAB BARS LOCATIONS, AND ACCESSIBLE FLOOR CLEARANCE REQUIREMENTS, PER ICC/ANSI A117.1-2017
3. PATCH, REPAIR, AND PAINT ALL ASSEMBLIES AND SURFACES DISTURBED BY DEMOLITION, TO MATCH ADJACENT SURFACES AND FINISHES.
4. MAINTAIN FIRE RATING OF EXISTING ASSEMBLIES. ALL WALLS AND FLOOR/CEILING ASSEMBLIES THAT SEPARATE A DWELLING UNIT FROM ANOTHER DWELLING UNIT OR OTHER USE SHALL BE 1 HOUR RATED. SEE CODE SUMMARY PLAN FOR ADDITIONAL INFORMATION. SEE DETAILS 1, 2, 6, AND 11 ON SHEET A8.00 FOR PENETRATIONS IN FIRE RATED ASSEMBLIES.
5. EXISTING P-TAC UNITS TO BE REPLACED, TYP. OF ALL, U.N.O.SEE MECHANICAL FOR ADDITIONAL INFORMATION.
6. COORDINATE INSTALLATION OF ALL NEW PLUMBING FIXTURES FOR RECONNECTION AT THE SAME/SIMILAR LOCATION OF OLD FIXTURES REMOVED IN ORDER TO REUSE EXISTING PLUMBING SUPPLY, WASTE, AND VENT LINES, U.N.O.
7. ALL CASEWORK PROVIDED BY OWNER'S PREFERRED VENDOR. CONTRACTOR SHALL COORDINATE FIELD MEASUREMENTS AND INSTALLATION.
8. CONTRACTOR SHALL COORDINATE PROCUREMENT AND INSTALLATION OF FIXTURES AND APPLIANCES WITH OWNER'S REPRESENTATIVE.
9. PROVIDE TILE AT WALL BEHIND KITCHENETTE AND SIDE WALL, EXTEND FINISH TO WIDTH OF COUNTER.
10. CONTRACTOR TO MAINTAIN 1-HR RATED PENETRATIONS & DOORS AT NEW WALLS THROUGHOUT.
11. CONTRACTOR TO PROVIDE 3200 SERIES KNOX BOX. LOCATE LOCATION WITH FIRE MARSHAL IN FIELD.
12. PROVIDE FIRE EXTINGUISHERS TYPE 2A-10BC AS SHOWN ON FLOOR PLANS COMPLYING WITH IFC 906.
13. SEE DETAIL 12/A8.00 FOR 1HR CEILING ASSEMBLY AT NEW OR MODIFIED DWELLING UNITS.
14. PROVIDE FIRE BLOCKING IN ALL LOCATIONS AS SHOWN ON DETAIL 3/A8.00.
15. SEE 7/A8.00 & 8/A8.00 FOR ALL NEW WALL ASSEMBLIES.
16. PROVIDE ALL NEW CEILING GRID IN THE CORRIDORS. MAINTAIN EXISTING CEILING HEIGHTS. MAINTAIN 1-HOUR RATING OF CEILING ASSEMBLY ABOVE ACT AND APARTMENTS. SEE DETAIL 9/A8.01

# DNR OMAK FIRE CENTER BUILDING B - WORK CENTER OMAK, WA 98841

**PROJECT TEAM**

**OWNER**  
WASHINGTON STATE  
DEPARTMENT OF NATURAL RESOURCES  
OMAK, WA 98841  
TEL: \_\_\_\_\_  
**CONTACT:** \_\_\_\_\_

**CIVIL**  
FACET ENGINEERING  
601 W MAIN AVENUE  
SUITE 617  
SPOKANE, WA 99201  
TEL: (360) 899-1100  
**CONTACT:** ERIK FUENTES

**ARCHITECTURAL**  
STUDIO+ ARCHITECTS  
9 S WASHINGTON STREET  
SUITE 518  
SPOKANE, WA 99201  
TEL: (509) 627-8295  
**CONTACT:** CAMERON GOLIGHTLY

**STRUCTURAL**  
FACET ENGINEERING  
601 W MAIN AVENUE  
SUITE 617  
SPOKANE, WA 99201  
TEL: (509) 899-1100  
**CONTACT:** ANTHONY SORENTINO

**MECHANICAL/PLUMBING**  
MSI ENGINEERS, INC  
108 N WASHINGTON STREET  
SUITE 505  
SPOKANE, WA 99201  
TEL: (509) 624-1050  
**CONTACT:** NATALIE JOHNSTON

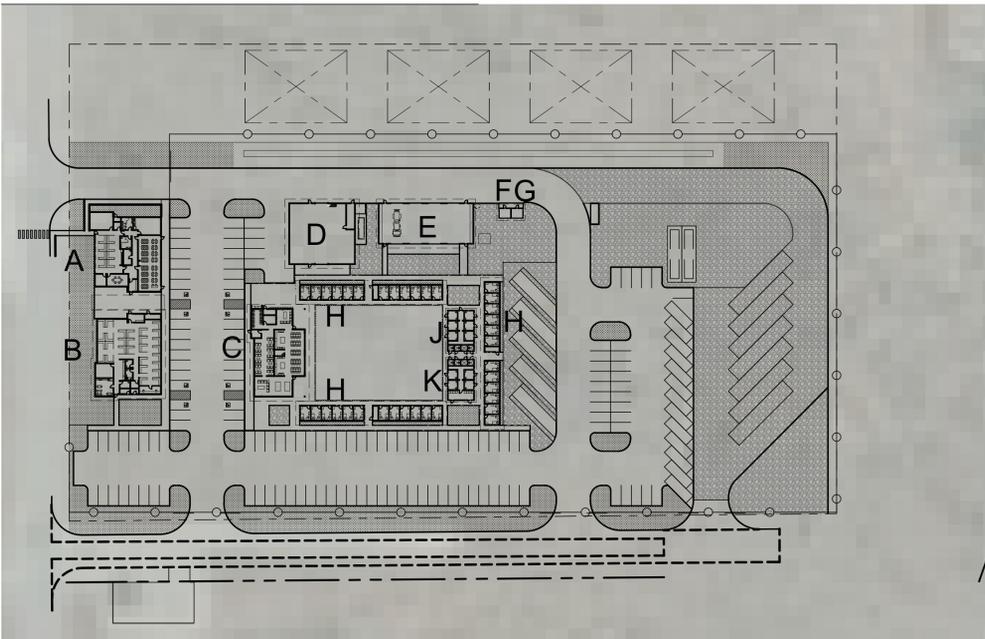
**ELECTRICAL**  
MSI ENGINEERS, INC  
108 N WASHINGTON STREET  
SUITE 505  
SPOKANE, WA 99201  
TEL: (509) 624-1050  
**CONTACT:** BEN JENNINGS

**GEOTECHNICAL ENGINEER**  
ALLWEST TESTING  
16617 E EUCLID AVENUE  
BUILDING A  
SPOKANE VALLEY, WA 99216  
TEL: (509) 534-4411  
**CONTACT:** SCOTT FRASER

**DRAWING INDEX**

<b>GENERAL:</b>	
G1.00	COVER SHEET
<b>CIVIL (SEE SITE DRAWINGS):</b>	
<b>ARCHITECTURAL:</b>	
A3.30B	FLOOR PLAN
A3.40B	FLOOR FINISH AND SIGNAGE PLAN
A3.50B	REFLECTED CEILING PLANS
A3.60B	ROOF PLAN
A4.00B	EXTERIOR ELEVATIONS
A5.00B	BUILDING SECTIONS
A5.01B	BUILDING SECTIONS
A5.02B	BUILDING SECTIONS
<b>STRUCTURAL:</b>	
S2	FOUNDATION PLAN
S3	ROOF FRAMING PLAN
<b>MECHANICAL:</b>	
M0.01B	BLDG B - LEGENDS, NOTES & ABBREV.
M0.02B	BLDG B - MECHANICAL SCHEDULES
M3.31B	BLDG B - FLOOR PLAN - HAVC
<b>PLUMBING:</b>	
P0.01B	BLDG B - LEGENDS, NOTES & ABBREV.
P0.02B	BLDG B - PLUMBING SCHEDULES
P3.30B	BLDG B - FOUNDATION - PLUMBING
P3.31B	BLDG B - FLOOR PLAN - PLUMBING
<b>ELECTRICAL:</b>	
E0.01B	BLDG B - LEGENDS, NOTES & ABBREV.
E1.10B	BLDG B - POWER DETAILS
E2.01B	BLDG B - FLOOR PLAN - LIGHTING
E2.02B	BLDG B - LIGHTING CONTROL ZONES
E3.01B	BLDG B - FLOOR PLAN - SPECIAL SYSTEMS

**PROJECT SITE MAP**



**VICINITY MAP**



**RENDERING**



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201

DNR OMAK FIRE CENTER

OMAK, WA 98841

DRAWN BY  
JJ

CHECKED BY  
KC

JOB NUMBER  
231102

REVISIONS

DATE

07.26.2024

SHEET NAME

COVER

SHEET

G1.00B



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201

DNR OMAK  
FIRE CENTER  
BUILDING B  
WORK CENTER

OMAK, WA 98841

DRAWN BY  
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07.26.2024

SHEET NAME

FLOOR  
PLAN

SHEET

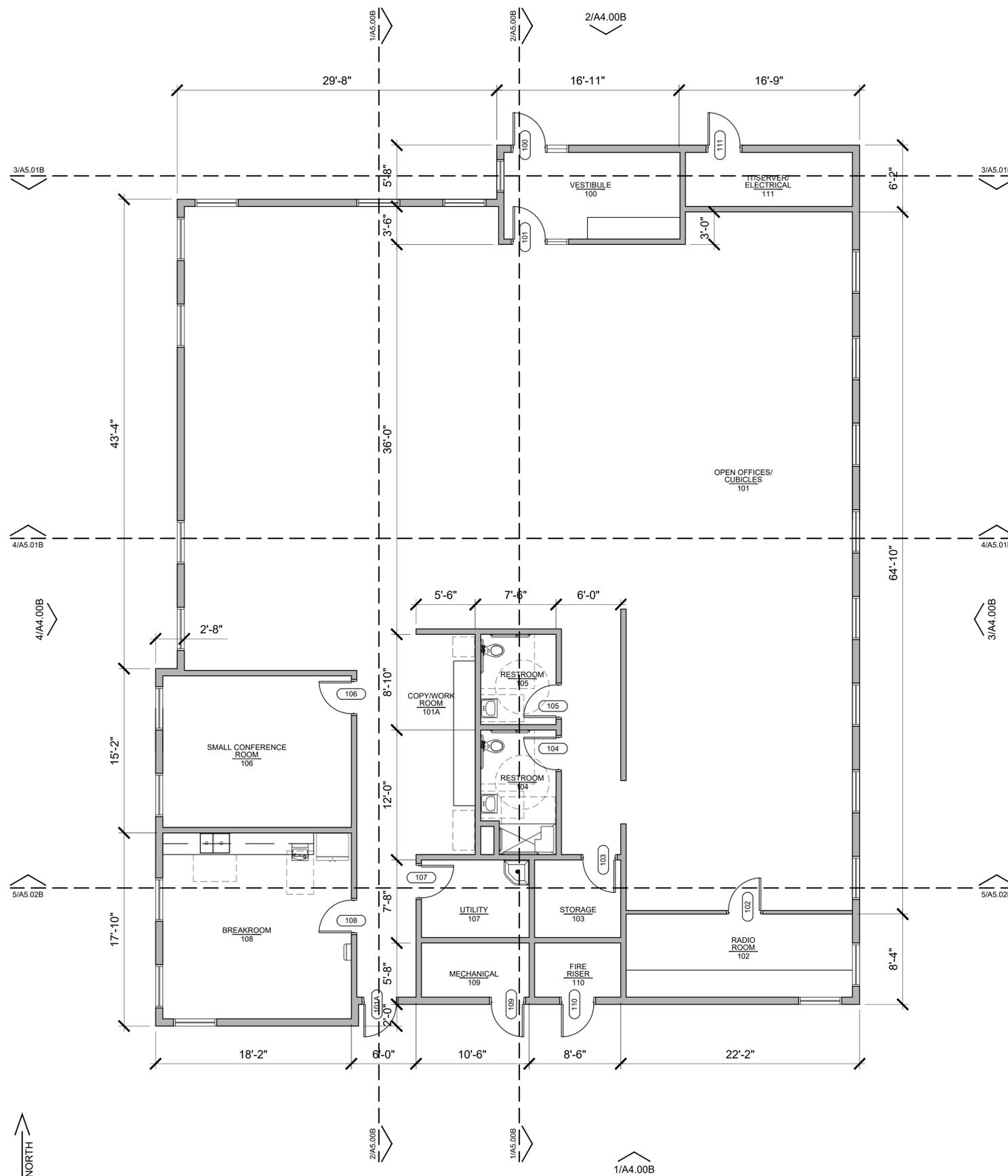
A3.30B

GENERAL NOTES:

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FLOOR PLAN LEGEND:

- |  |  |  |   |
|--|--|--|---|
|  | NEW OR INFILL WALL ASSEMBLY, SEE SHEET A8.00 |  | DOOR TYPE TAG, REFERENCE DOOR SCHEDULE ON SHEET A7.00     |
|  | EXISTING WALL                                |  | WINDOW TYPE TAG, REFERENCE WINDOW SCHEDULE ON SHEET A7.00 |
|  | ROOM NAME SPACE TAG NUMBER                   |  | EXTERIOR AND INTERIOR ELEVATION REFERENCE                 |
|  |  |  | WALL ASSEMBLY TAG, REFERENCE DETAILS ON SHEET A8.00       |



1 OMAK WORK CENTER FLOOR PLAN

SCALE: 3/16" = 1'-0"



**FLOOR FINISH PLAN NOTES:**

1. ALL CHANGES OF FLOORING MATERIAL ARE TO TAKE PLACE AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE.
2. FLOOR FINISHES ARE CONTINUOUS IN THE ENTIRE AREA IN WHICH THEY ARE DESIGNATED, UNDER EQUIPMENT, MOVEABLE CASEWORK, AND INTO TOR KICK / KNEE SPACES.
3. PROVIDE TRANSITION STRIPS AT ALL INTERSECTION OF DISSIMILAR MATERIALS.
4. CONTRACTOR SHALL PERFORM REQUIRED FLOOR PREPARATION, APPLY FLOOR LEVELING COMPOUND AND APPLY FLOOR SEALER AS NEEDED FOR SPECIFIED FLOOR FINISHES.
5. SEE FINISH SCHEDULE AND INTERIOR ELEVATION SHEETS FOR FURTHER FINISHES INFORMATION.
6. START FLOORING PATTERN AT CENTER OF EACH ROOM TO DETERMINE EXACT LAYOUT.
7. NEW 4" RUBBER BASE THROUGHOUT UNLESS NOTED OTHERWISE.
8. S.F. NUMBERS NOTED ON ROOM TAGS ARE APPROXIMATIONS OF OVERALL ROOM SIZES ONLY FOR GENERAL INFORMATION. ACTUAL MATERIAL QUANTITIES NEED TO BE FIELD VERIFIED.

**FINISH LEGEND:**

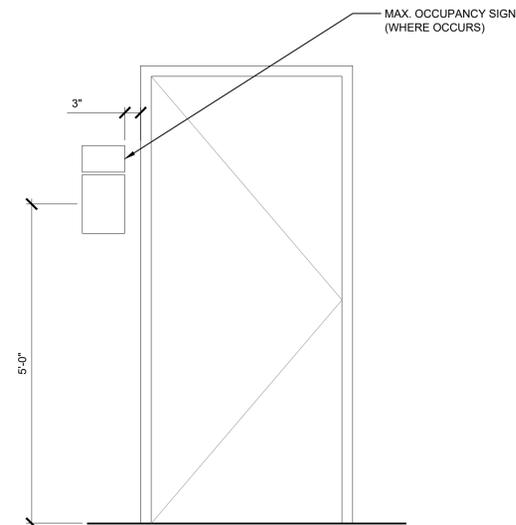
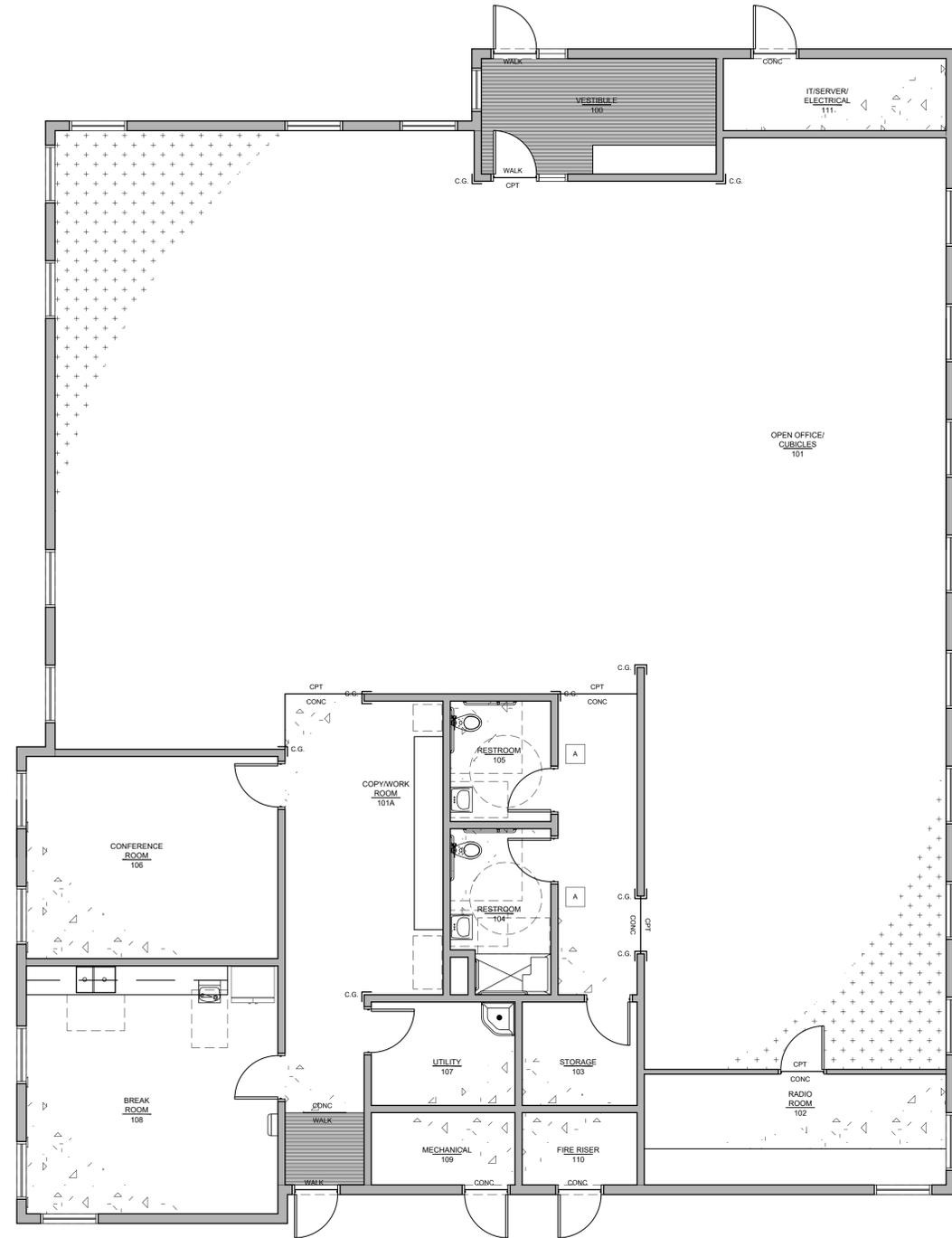
	WALK WALK OFF MAT SPEC 09 68 13		CPT TILE CARPET SPEC 09 68 13
	SC SEALED CONCRETE 03 30 00 & 09 91 00		
	C.G. CORNER GUARD SEE DETAIL X/XX-XX		
	CONC WALK FLOOR TRANSITION SPEC 09 65 13		

NOTE: SEE MATERIAL LEGEND  
09 00 00 FOR MATERIAL COLORS

**SIGNAGE LEGEND:**

		WORD & PICTURE SIGNS 8"X11" (RESTROOM)
		FIRE EVACUATION/AREA OF RESCUE ASSISTANCE

NOTE: SIGNS ON OR NEAR FIRE DOORS TO BE  
IN LETTERS NOT LESS THAN 1" HIGH PER IFC  
SECTION 703.2.1.  
FIRE RISER ROOM 103 SHALL BE IDENTIFIED BY  
SIGN PER IFC SECTION 509.1.



NOTE: ON WALL 3" ADJACENT TO DOOR (EITHER SIDE)  
SEE SPECIFICATION 10 14 00

**2 SIGNAGE**  
SCALE: 3/4" = 1'-0"



**1 OMAK WORK CENTER FINISH PLAN**  
SCALE: 3/16" = 1'-0"



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201

DNR OMAK  
FIRE CENTER  
BUILDING B  
WORK CENTER  
OMAK, WA 98841

DRAWN BY  
JJ  
CHECKED BY  
KC  
JOB NUMBER  
231102

REVISIONS

DATE

07.26.2024

SHEET NAME

REFLECTED  
CEILING  
PLAN

SHEET

A3.50B

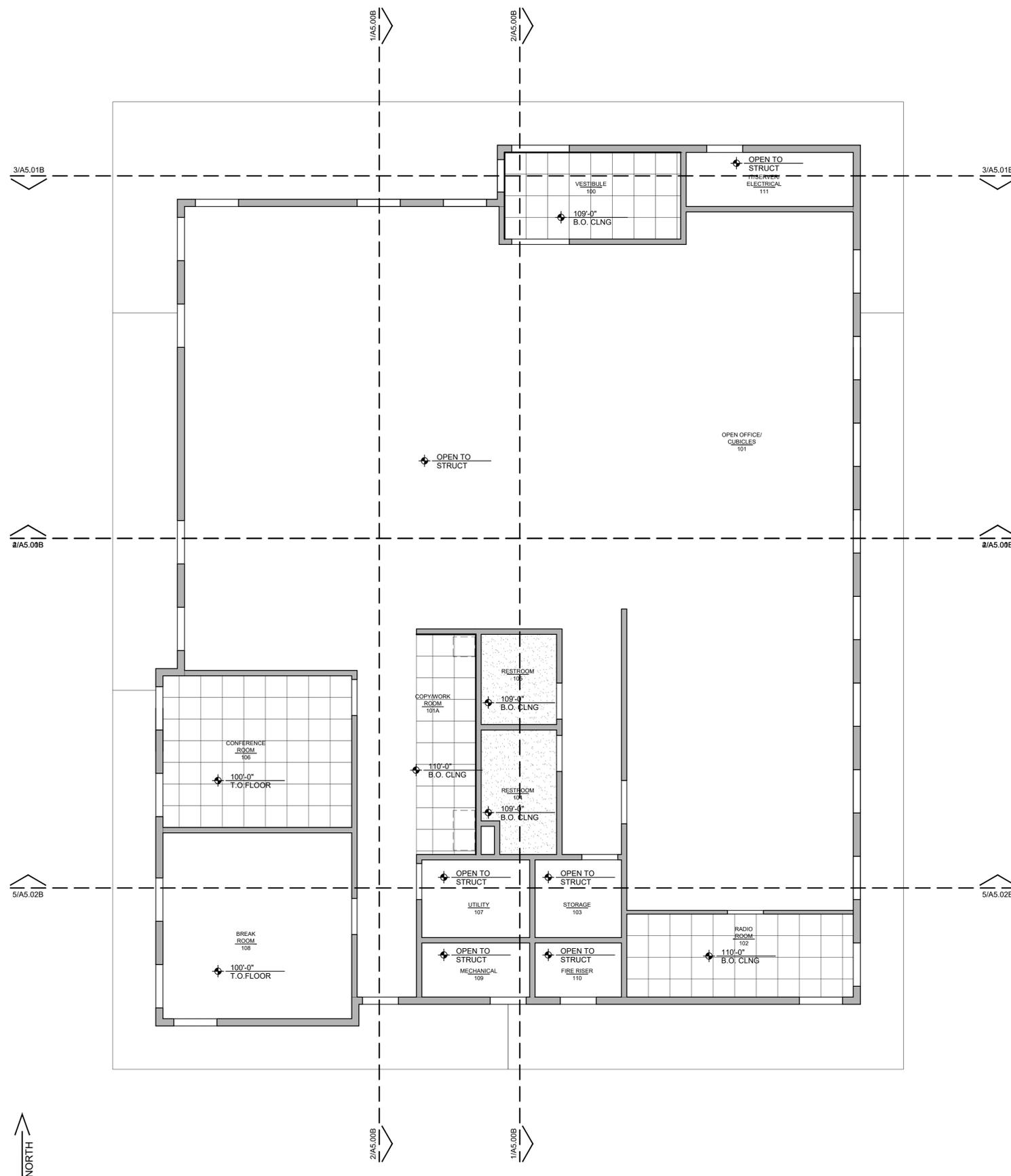
REFLECTED CEILING PLAN GENERAL NOTES:

1. SPOT ELEVATIONS ARE FROM FINISH FLOOR TO FINISH CEILING
2. ELECTRICAL AND MECHANICAL SHOWN FOR REFERENCE ONLY. SEE RELATED ELECTRICAL AND MECHANICAL DRAWINGS.
3. SEE FIRE ALARM AND SPRINKLER PLANS/SUBMITTALS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. MAINTAIN REQUIRED FIRE RATINGS AT ALL RATED FLOOR, WALL, CEILING, AND ROOF ASSEMBLIES RECESSED OR PENETRATED BY FIXTURES, PIPING, CONDUIT, DUCTWORK, AND/OR OTHER ELEMENTS.
5. SEE SHEET XX.XX FOR GENERAL SUSPENDED CEILING DETAILS.
6. ALL NEW WALLS SHALL EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEAL ALL PENETRATIONS AND JOINTS WITH ACOUSTICAL SEALANT.

REFLECTED CEILING PLAN LEGEND:

- GYPSUM BOARD CEILING, SMOOTH LEVEL 4 FINISH, PAINTED PER SCHEDULE SPEC 09 29 00.99
- ACOUSTICAL TILE, 2'X2' SUSPENDED ACOUSTIC CEILING SYSTEM PER SCHEDULE SPEC 09 51 23.01

108'-0" B.O. CLNG CEILING HEIGHT A.F.F.



1 OMAK WORK CENTER REFLECTED CEILING PLAN  
SCALE: 3/16" = 1'-0"



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FIRE CENTER  
BUILDING B  
WORK CENTER  
OMAK, WA 98841

DRAWN BY  
JJ  
CHECKED BY  
KC  
JOB NUMBER  
231102

REVISIONS

DATE

07.26.2024

SHEET NAME

ROOF PLAN

SHEET

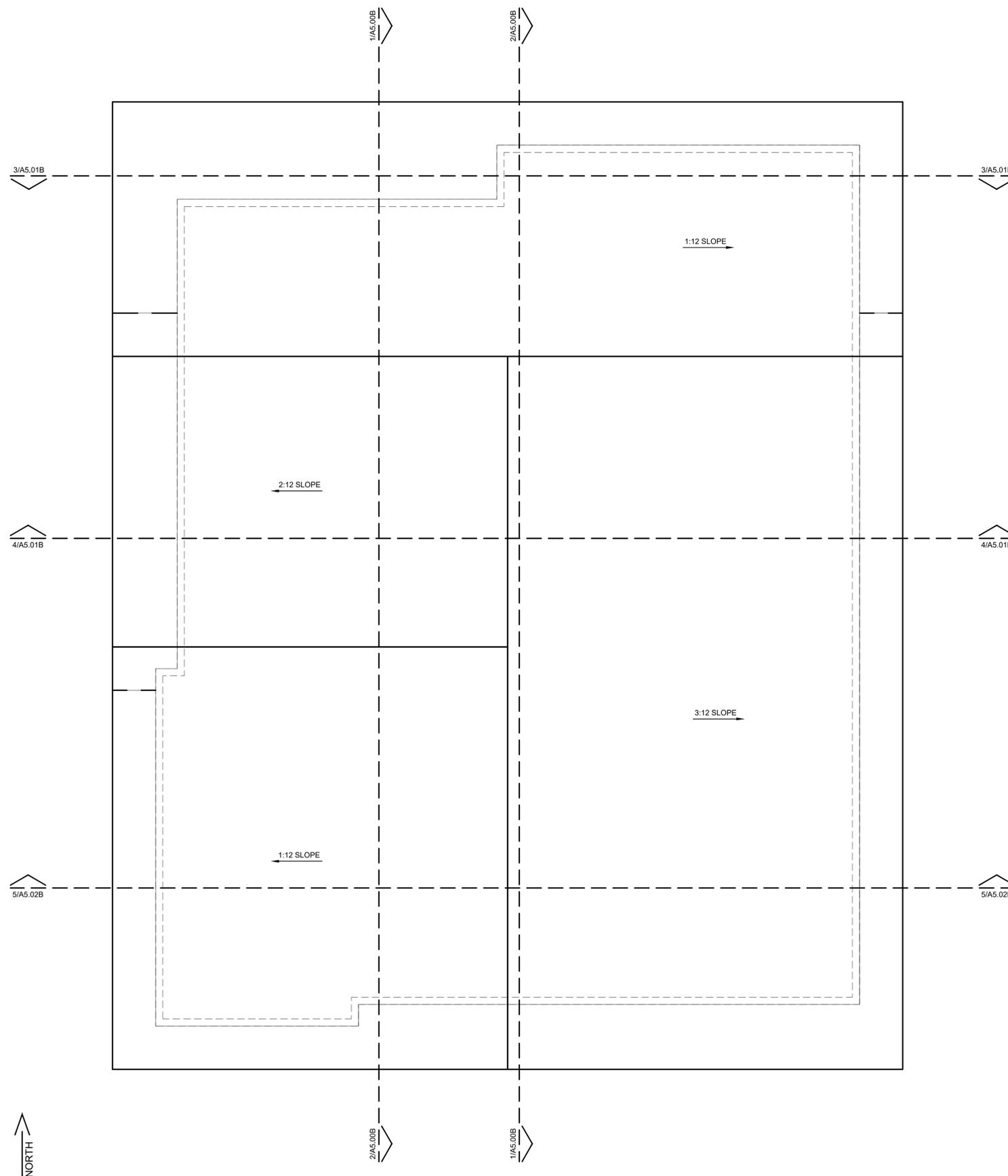
A3.60B

**GENERAL NOTES:**

- SEE DETAILS XXXX.XX FOR VENT PIPE FLASHING DETAILS
- REFER TO MECHANICAL PLANS FOR HVAC UNIT LOCATIONS AND VENT PIPE PENETRATIONS.
- MAINTAIN POSITIVE ROOF SLOPE AT ALL CRICKETS, VALLEYS, AND OVERBUILDS FOR POSITIVE DRAINAGE FROM ALL POINTS TO ROOF DRAINS, 1/4-1/2 MIN. AND AS NOTED ON PLANS.
- PROVIDE HEAT TAPE IN ALL OF THE DOWNSPOUTS AND THE OVERFLOW DRAINS.
- REFER TO STRUCTURAL FOR FRAMING REQUIREMENTS AND ADDITIONAL INFORMATION. REFER TO STRUCTURAL DRAWINGS FOR WALL SUPPORTS AND COORDINATE DURING ROOF FRAMING STAGE IN ORDER TO LOCATE AND ESTABLISH EXACT LOCATIONS OF SUPPLEMENTAL FRAMING FOR ROOF & WALL OPENINGS.
- PROVIDE ALL NECESSARY ROOFING ACCESSORIES INCLUDING: REGLETS, BINDER BARS, FLASHING, COLLARS & BOOTS, FASTENERS, ETC. FOR A COMPLETE WARRANTED ROOF SYSTEM INSTALLATION.
- PRIOR TO ROOFING INSTALLATION, CONTRACTOR SHALL PHYSICALLY INSPECT ROOF SLOPE TO VERIFY ADEQUATE DRAINAGE.
- ALL EXPOSED METAL AND FLASHING TO BE PRE-FINISHED SHEET METAL FLASHING AND TRIM. MATCH ADJACENT MATERIAL COLOR BEING FLASHED.
- VERIFY SIZES AND REQUIREMENTS OF HVAC UNITS AND CURBS WITH MECHANICAL EQUIPMENT MANUFACTURER. REFERENCE DRAWINGS & SCHEDULES.
- VERIFY LOCATIONS AND QUANTITY OF ROOF VENT/ROOF CAP PENETRATIONS WITH HVAC-PLUMBING DRAWINGS. PROVIDE FLASHINGS AND/OR CURBS AS REQUIRED ACCORDING TO ROOF SYSTEM MANUFACTURER RECOMMENDED STANDARD DETAILS.
- CONTRACTOR TO PROVIDE STEEL FRAME OPENINGS AT ALL ROOF TOP EQUIPMENT, TYP.
- REFER TO SHEETS XX.XX AND XX.XX FOR ROOF ASSEMBLIES AND DETAILS.

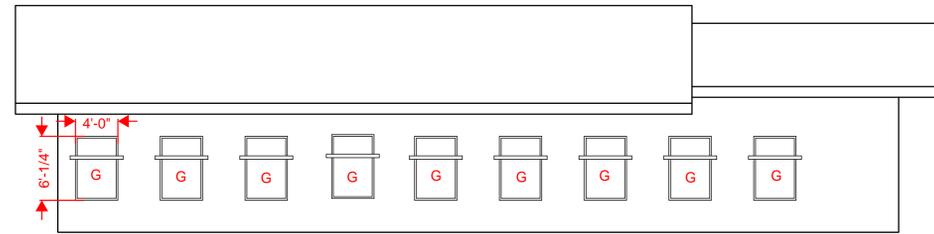
**ROOF PLAN LEGEND:**

-  STANDING SEAM METAL ROOFING
-  SLOPE ROOF DIRECTION OF ARROW



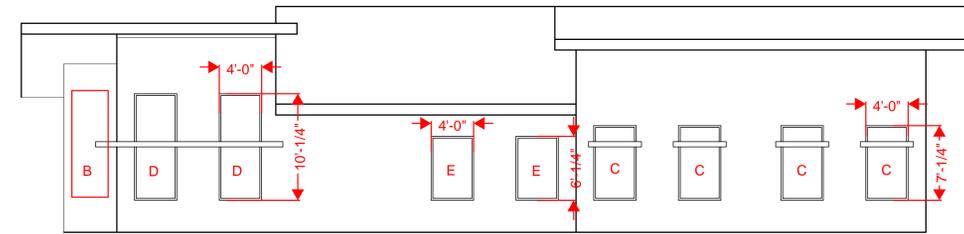
**1 OMAK WORK CENTER ROOF PLAN**

SCALE: 1/4" = 1'-0"



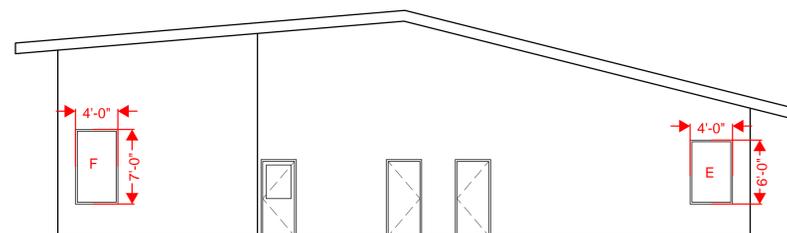
3 EAST ELEVATION

SCALE: 1/8" = 1'-0"



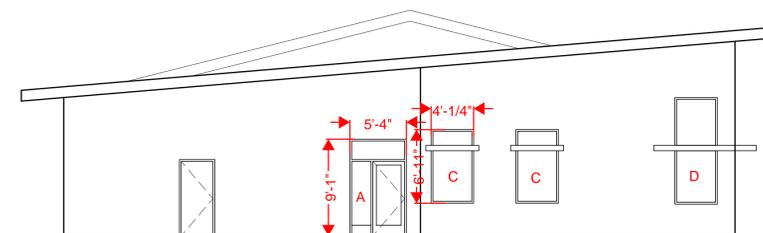
4 WEST ELEVATION

SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION

SCALE: 1/8" = 1'-0"



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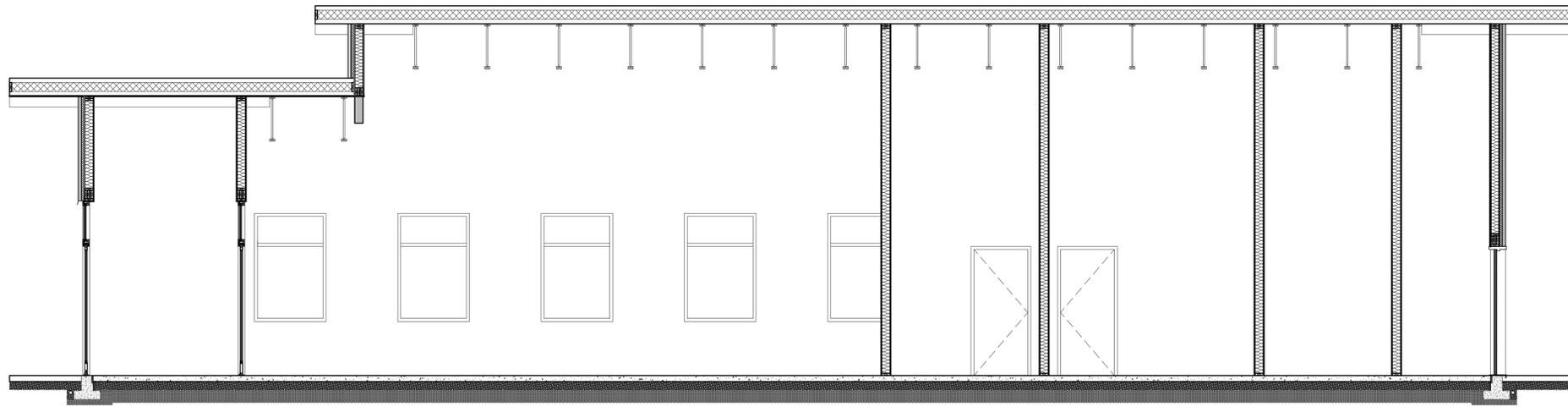
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231102

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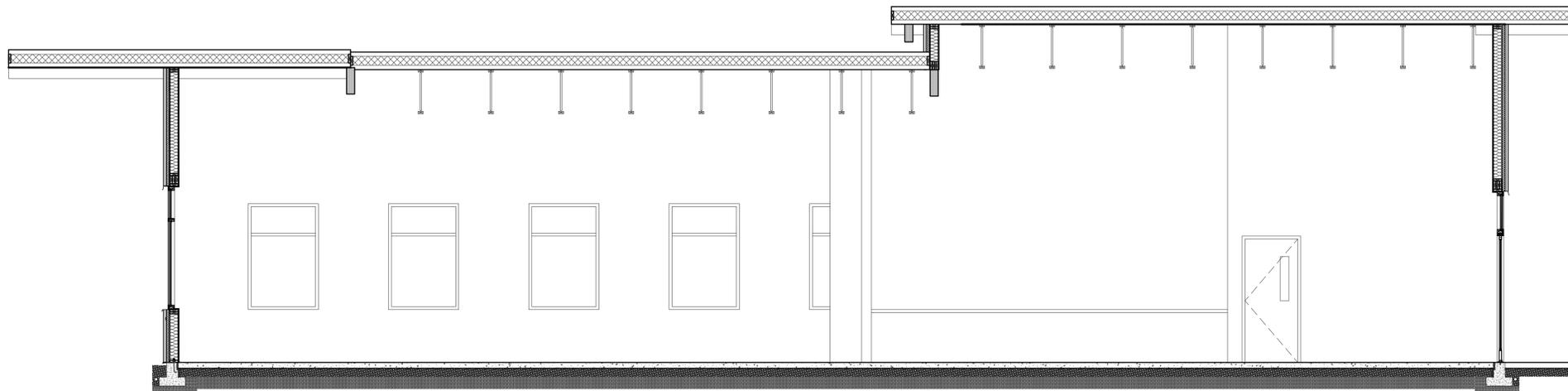
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SHEET NAME  
BUILDING  
SECTIONS

SHEET  
A5.00B



2 BUILDING SECTION  
SCALE: 1/4" = 1'-0"



1 BUILDING SECTION  
SCALE: 1/4" = 1'-0"



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BUILDING B  
WORK CENTER  
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KC  
JOB NUMBER  
231102

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DATE

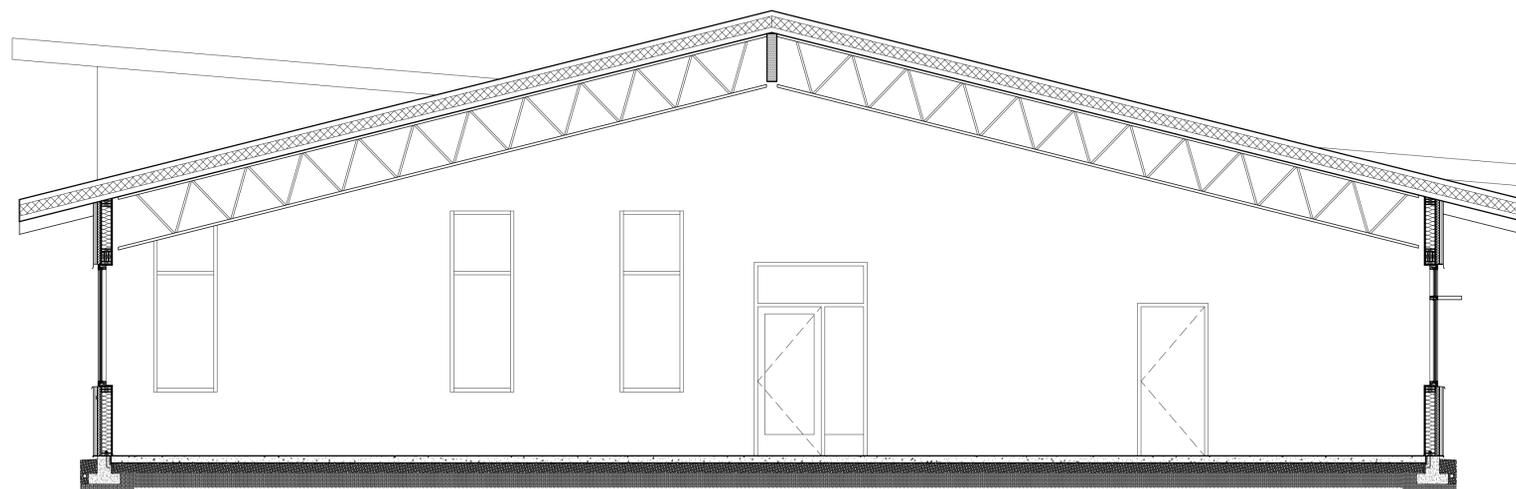
07.26.2024

SHEET NAME

BUILDING  
SECTIONS

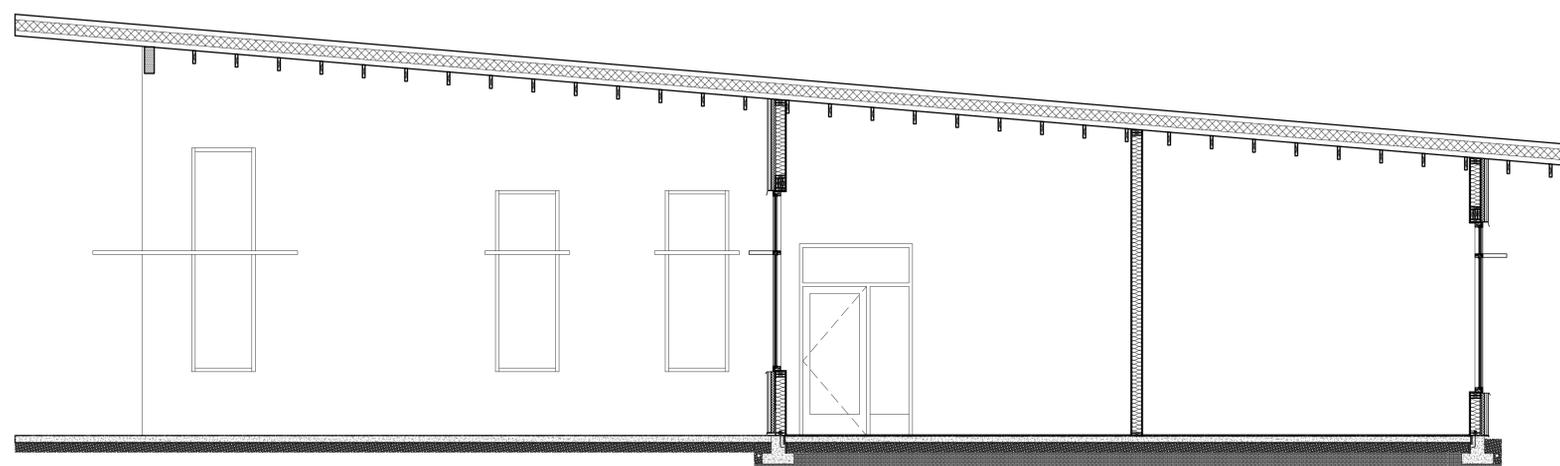
SHEET

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#### 4 BUILDING SECTION

SCALE: 1/4" = 1'-0"



#### 3 BUILDING SECTION

SCALE: 1/4" = 1'-0"



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BUILDING B  
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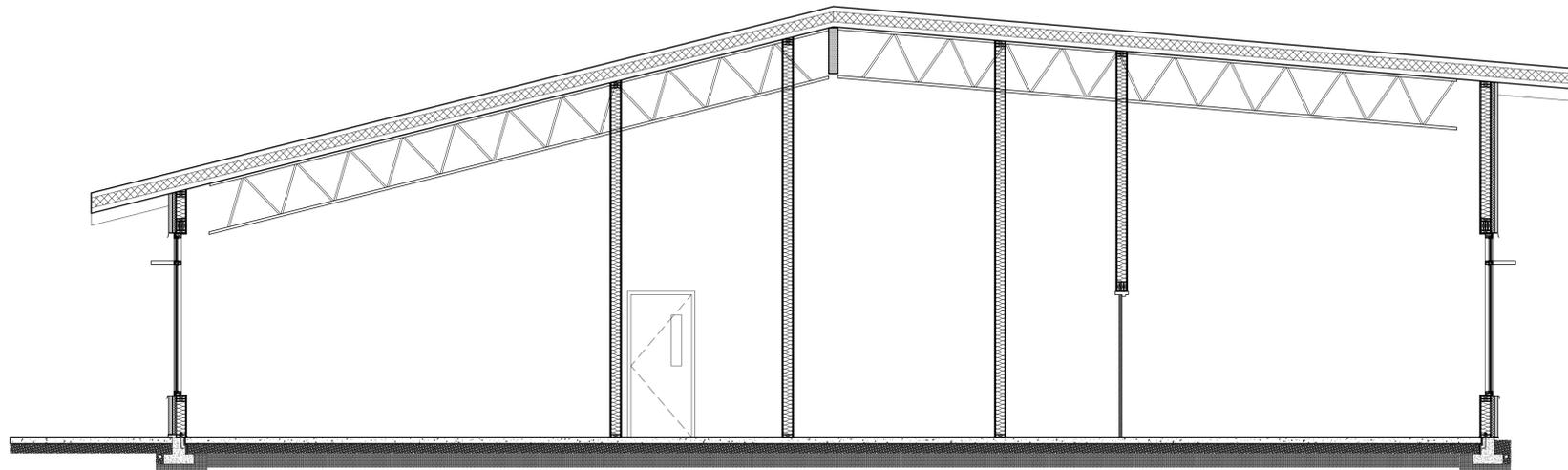
DRAWN BY  
JJ  
CHECKED BY  
KC  
JOB NUMBER  
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DATE  
07.26.2024

SHEET NAME  
BUILDING  
SECTIONS

SHEET  
A5.02B



5 BUILDING SECTION

SCALE: 1/4" = 1'-0"

FILE LOCATION: Z:\SHARE\PROJECTS\ACTIVE\2024\0424\0424\0424\STUDIO PLUS - DNR OMAK FIRE CENTER (STRUCTURAL)\DRAWINGS\SCAD\REV\ACTIVE\EDOMAK DNR WORK - SLIDING - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (24.00 X 36.00 INCHES) - LAST MODIFIED BY: JOEL HARRNESS



STUDIO+ ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



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FIRE CENTER  
BUILDING B  
WORK CENTER  
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DESIGN DEVELOPMENT - NOT FOR CONSTRUCTION

DRAWN BY  
JH  
CHECKED BY  
AWS  
JOB NUMBER  
2405.0421

REVISIONS

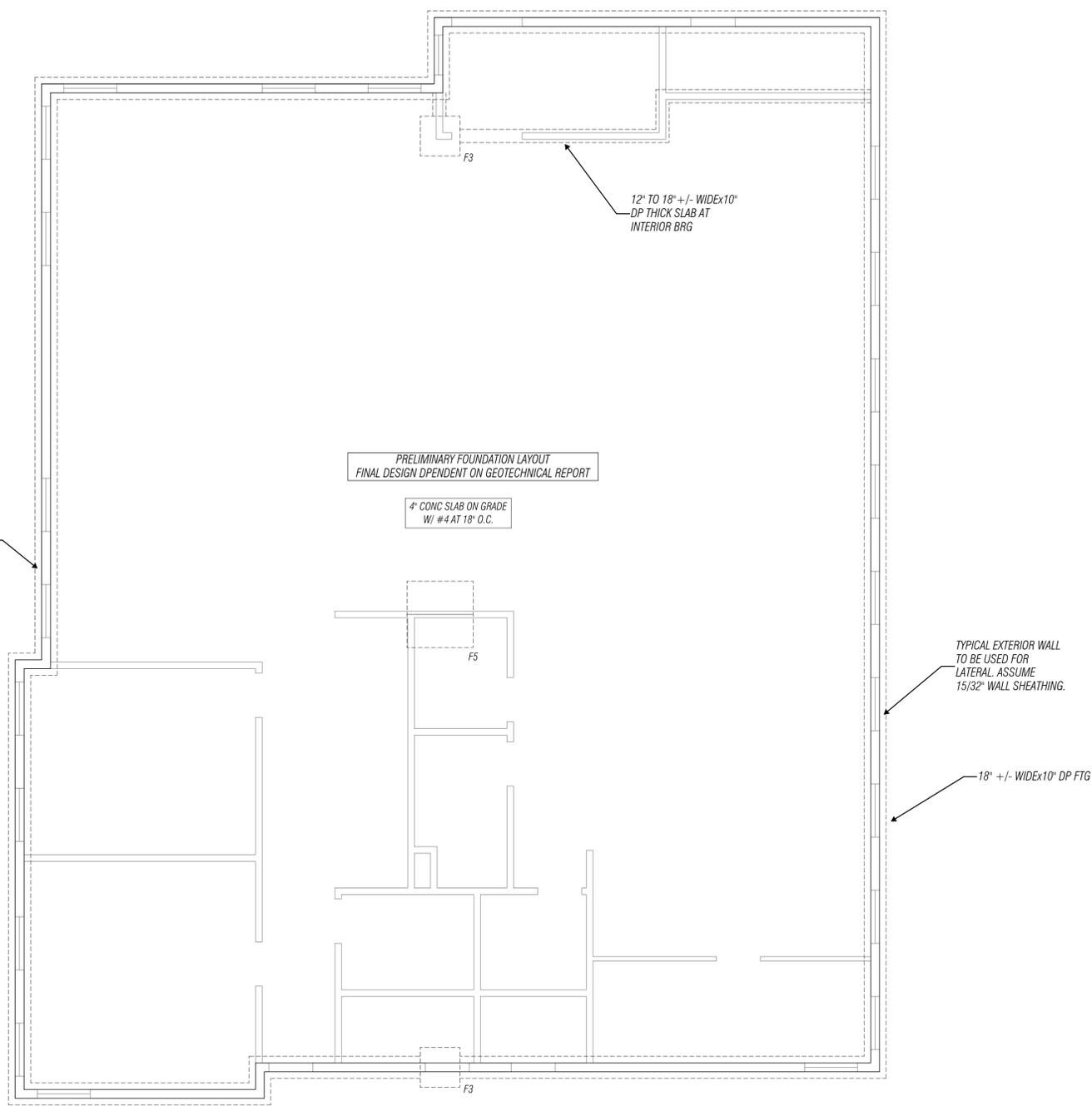
DATE  
07.26.2024

SHEET NAME

FOUNDATION PLAN

SHEET

S2



PRELIMINARY FOUNDATION LAYOUT  
FINAL DESIGN DEPENDENT ON GEOTECHNICAL REPORT

4" CONC SLAB ON GRADE  
W/ #4 AT 18" O.C.

TYPICAL EXTERIOR WALL  
TO BE USED FOR  
LATERAL. ASSUME  
15/32" WALL SHEATHING.

TYPICAL EXTERIOR WALL  
TO BE USED FOR  
LATERAL. ASSUME  
15/32" WALL SHEATHING.

18" +/- WIDEX10" DP FTG

**FOUNDATION NOTES:**

- REFER TO SHEET S4 FOR SHEARWALL REQUIREMENTS AND HOLDOWN LOCATIONS.
- PROVIDE FOOTING DRAIN AROUND PERIMETER OF BUILDINGS.
- FOOTINGS ARE TO BEAR ON COMPETENT NATIVE SOIL OR STRUCTURAL FILL CAPABLE OF SUPPORTING THE ALLOWABLE BEARING PRESSURE OF 2,000 PSF.
- PROVIDE #4 CORNER FTG BAR FOR EACH HORIZONTAL BAR. LAP 2'-0" MIN.

1 FOUNDATION PLAN  
S2 WORK CENTER  
SCALE 3/16" = 1'-0"

**FOOTING SCHEDULE**

MARK	SIZE	THICKNESS	REINFORCING
F4	4'-0" SQ	10"	(4) #5 EA WAY
F6	6'-0" SQ	12"	(6) #5 EA WAY
F8	8'-0" SQ	16"	(10) #5 EA WAY

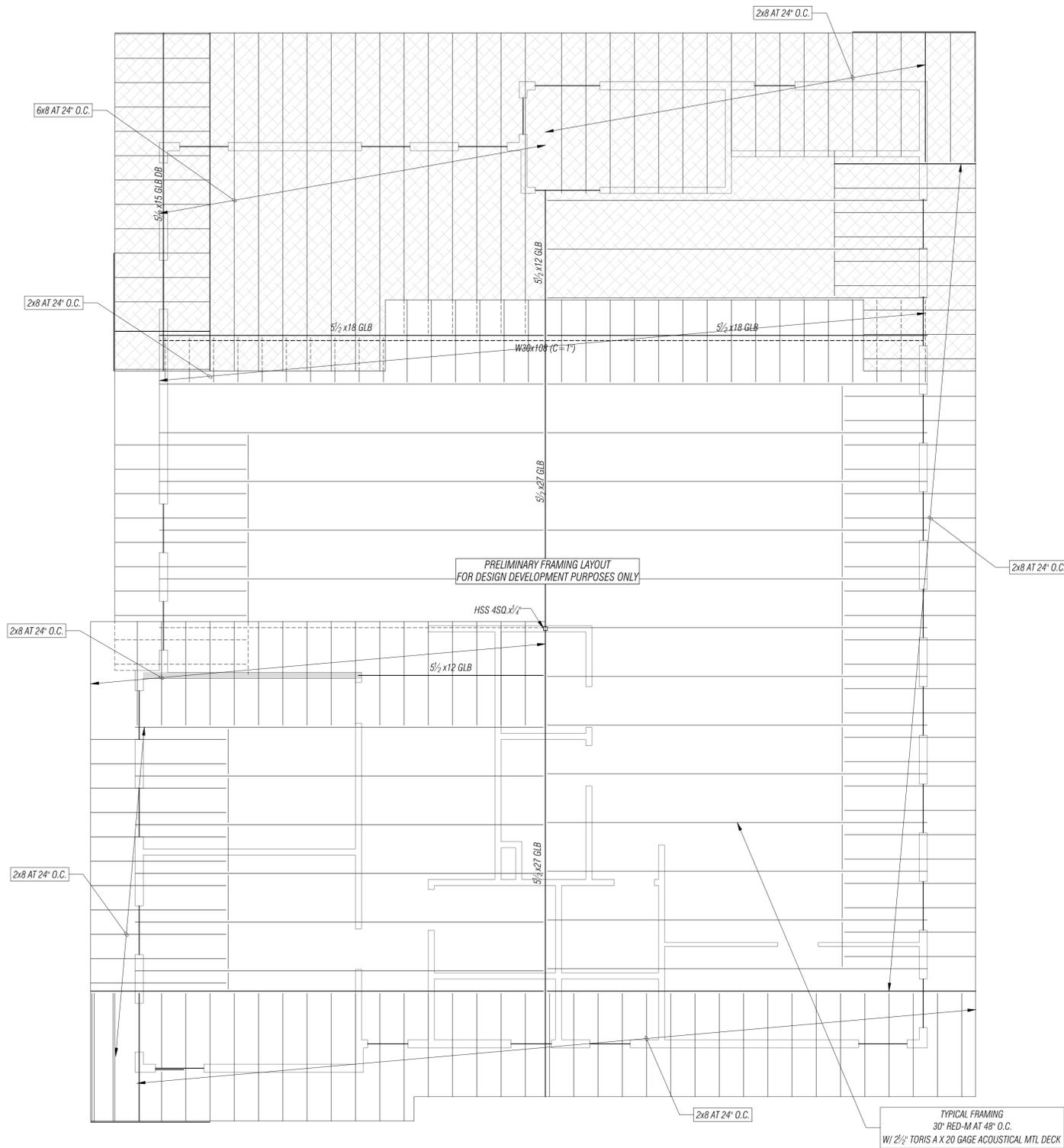
**POST SCHEDULE**

MARK	SIZE
A	4x4 DF #2
B	4x6 DF #2
C	5/8" x 5/8" PSL
D	HSS 3 1/2" SQ x 1/4"
E	HSS 5" SQ x 1/4"
F	HSS 6" SQ x 1/4"

FILE LOCATION: Z:\SHARE\PROJECTS\ACTIVE\2024\04\04\1 STUDIO PLUS - DNR OMAK FIRE CENTER (STRUCTURAL)\DRAWINGS\SCAD\REV\ACTIVE\EDM\DKR\WORK\_SLDWG - ORIGINAL SHEET SIZE ARCH FULL BLEED: 24.00 X 36.00 INCHES - LAST MODIFIED BY: JOEL HARRNESS

**ROOF FRAMING NOTES:**

- REFER TO SHEET Sx FOR SHEARWALL AND HOLD-DOWN LOCATIONS.
- STUD SPACING IS 16" O.C. FOR ALL WALLS.
- REFER TO DETAIL xxx/Sx FOR TYPICAL HEADER FRAMING.
- ALL HEADERS ARE 4x6 UNLESS NOTED OTHERWISE.
- ROOF TRUSS DESIGN LOADS:  
 DEAD LOAD - TO PSF + SELF WT  
 LIVE LOAD - 25 PSF  
 LL DEFLECTION - L/360 MIN; 1/2" MAX  
 TL DEFLECTION - L/240 MIN; 3/4" MAX
- GT INDICATES GIRDER TRUSS  
 HT INDICATES HIP TRUSS  
 HGT INDICATES HIP GIRDER TRUSS
- GIRDER TRUSS TO GIRDER TRUSS HANGERS TO BE SPECIFIED BY MANUFACTURER.



**1**  
S3  
**ROOF FRAMING PLAN**  
WORK CENTER  
SCALE 3/16" = 1'-0"

**POST SCHEDULE**

MARK	SIZE
(A)	4x4 DF#2
(B)	4x6 DF#2
(C)	3/2"x8/2" PSL
(D)	HSS 3/2"SQx1/4
(E)	HSS 5"SQx1/4
(F)	HSS 6"SQx1/4



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 FIRE CENTER  
 BUILDING B  
 WORK CENTER  
 OMAK, WA 98841

DRAWN BY  
 JH  
 CHECKED BY  
 AWS  
 JOB NUMBER  
 2405.0421

REVISIONS

DATE  
 07.26.2024

SHEET NAME

**ROOF FRAMING PLAN**

SHEET

**S3**

DESIGN DEVELOPMENT - NOT FOR CONSTRUCTION

HVAC CLIMATE DESIGN CRITERIA		
PROJECT LOCATION	FULLMAN, WA	
ASHRAE WEATHER DATA	FULLMAN, WA	SEE NOTE 1
DESIGN ALTITUDE	2,365 FT	
CLIMATE ZONE	5B	SEE NOTE 2
OUTDOOR DESIGN TEMPS:	HEATING: 4°F DB COOLING: 92°F DB/65°F WB	SEE NOTE 3
INDOOR DESIGN TEMPS:	HEATING: 72°F DB COOLING: 75°F DB/67°F WB	SEE NOTE 4
NOTES: 1. CLIMATE DATA PROVIDED BY ASHRAE. 2. PER 2018 WSEC, TABLE C301.1. 3. OUTDOOR DESIGN TEMPS PER 2018 WSEC, C302.2 APPDX C. 4. INDOOR DESIGN TEMPS PER 2018 WSEC, C302.1.		

DUCT SIZING CRITERIA			
DUCT	DUCT SERVICE	MAX DP (IN/100')	MAX VEL (FPM)
LOW PRESS (2" <= WG)	SUPPLY DIFFUSER	0.08"	500
	RETURN/EXHAUST GRILLE	0.08"	600
	SUPPLY/RETURN/EXHAUST BRANCH DUCT	0.08"	1300
	SUPPLY/RETURN/EXHAUST MAIN DUCT ABOVE CEILING	0.10"	1500
	SUPPLY/RETURN/EXHAUST MAIN DUCT IN SHAFT	0.10"	1750
MEDIUM PRESSURE (>2" WG)	SUPPLY DUCT TO TERMINAL UNIT	0.15"	2200
	SUPPLY BRANCH DUCT	0.20"	2200
	SUPPLY MAIN DUCT ABOVE CEILING	0.20"	2000
	SUPPLY MAIN DUCT EXPOSED	0.20"	2000
	SUPPLY MAIN DUCT IN SHAFT	0.20"	2000
NOTES: DUCT SIZING CRITERIA PROVIDED FOR SITUATIONS WHERE FIELD CONDITIONS REQUIRE DUCT MODIFICATIONS, ETC.			

SEISMIC DESIGN CRITERIA	
1.	SEE STRUCTURAL DRAWINGS FOR THE SEISMIC DESIGN CATEGORY (SDC) AND ASSOCIATED DESIGN CRITERIA FOR THIS PROJECT LOCATION.
2.	ALL MECHANICAL SYSTEMS, PIPING AND EQUIPMENT CONVEYING OR USING NATURAL GAS (GAS PIPING, BOILERS, WATER HEATERS, ETC.) SHALL BE SEISMICALLY BRACED AND ANCHORED.
3.	DELEGATED DESIGN: THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED SEISMIC DESIGNER TO PROVIDE ENGINEERING OF ALL SEISMIC RESTRAINT AND ANCHORING SYSTEMS. SEISMIC DESIGN AND INSTALLATION SHALL BE CONTRACTOR FURNISHED.
4.	SEISMIC BRACING PRODUCTS AND SYSTEMS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, SECTION 23 05 50, AND AS DETERMINED BY THE SEISMIC DESIGNER.

TESTING, BALANCING AND COMMISSIONING	
1.	HVAC SYSTEMS INCLUDING AIR, HYDRONIC AND SERVICE WATER HEATING SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE 2018 WA STATE ENERGY CODE. THE PROJECT SPECIFICATIONS AND GENERALLY ACCEPTED ENGINEERING STANDARDS TO ENSURE AT A MINIMUM THAT AIR AND WATER FLOW RATES ARE MEASURED AND ADJUSTED TO DELIVER THE DESIGN RATES WITHIN SPECIFIED TOLERANCES.
2.	A BUILDING COMMISSIONING PROCESS LEAD BY A CERTIFIED COMMISSIONING PROFESSIONAL SHALL BE COMPLETED FOR MECHANICAL SYSTEMS, SERVICE WATER HEATING SYSTEMS, ELECTRICAL POWER AND LIGHTING SYSTEMS AND ENERGY METERING IN ACCORDANCE WITH ALL REQUIREMENTS OF SECTION 40B OF THE 2018 WA STATE ENERGY CODE.

GENERAL NOTES	
1.	THE MECHANICAL SYSTEMS SHALL CONSIST OF ALL WORK SHOWN ON THE MECHANICAL DRAWINGS, DIAGRAMS AND AS DESCRIBED IN ASSOCIATED TECHNICAL SPECIFICATIONS.
2.	REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK SHOWN ON THE DRAWINGS WITH THE SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS REFER TO THE GENERAL CONDITIONS AND NOTIFY THE A/E FOR DIRECTION.
3.	MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
4.	MECHANICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPIES OF INSPECTIONS TO OWNER.
5.	ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. USED OR DAMAGED MATERIALS, PRODUCTS, ETC. ARE NOT ALLOWED AND IF DISCOVERED SHALL BE REMOVED AND REPLACED.
6.	MODEL NUMBERS OF EQUIPMENT SHOWN ON THE SCHEDULES AND THROUGHOUT THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MFR/MODEL ALONE. REVIEW THE COMPLETE DESCRIPTION, LOCATION AND ARRANGEMENT ON THE DRAWINGS, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL CONFIGURATION AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS OF DESIGN.
7.	WHEN & WHERE APPLICABLE, THE NEW MECHANICAL EQUIPMENT MAY NOT BE USED FOR TEMPORARY VENTILATION, HEATING, COOLING OR SERVICE UNLESS SPECIFICALLY NOTED OTHERWISE FOR PHASED CONSTRUCTION OR OCCUPANCY.
8.	WHERE EXISTING REFRIGERATION SYSTEMS ARE DISTURBED BY THE DEMOLITION OR NEW WORK, THE EXISTING REFRIGERANT GAS CHARGE SHALL NOT BE VENTED TO THE ATMOSPHERE BUT SHALL BE CAPTURED AND RECLAIMED/REUSED (IF IN GOOD CONDITION) OR DISPOSED OF IN A SAFE AND LEGAL MANNER.
9.	WHERE EXISTING GLYCOL ANTI-FREEZE HYDRONIC SYSTEMS ARE IMPACTED BY THE WORK, THE EXISTING ANTI-FREEZE GLYCOL-WATER SOLUTIONS SHALL BE EITHER CAPTURED AND STORED FOR REUSE, OR DISPOSED OF IN A SAFE AND LEGAL MANNER. REFILL SYSTEMS WITH SAME LEVEL OF GLYCOL PROTECTION AS ORIGINAL (OR AS SPECIFIED NEW).

LOCATIONS & COORDINATION	
1.	THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS AND FITTINGS. PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES TO AVOID CONFLICTS.
2.	INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. IN GENERAL, IT IS THE INTENT THAT ALL MECHANICAL SYSTEMS BE CONCEALED ABOVE CEILINGS OR INSIDE WALLS AND SHAFTS.
3.	COORDINATE ALL EXPOSED MECHANICAL SYSTEMS, PIPING AND DUCTWORK SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
4.	PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
5.	COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
6.	FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.

SYSTEMS SUPPORTS & BASES	
1.	HANGERS, SUPPORTS AND ANCHORS FOR MECHANICAL SYSTEMS AND EQUIPMENT ARE NOT NECESSARILY DESIGNED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT AND OTHER DEVICES. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS. SEE TYPICAL MECHANICAL DETAILS, ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, LIMITATIONS AND DETAILS.
2.	DO NOT ANCHOR TO OR SUSPEND MECHANICAL SYSTEMS DIRECTLY OFF OF BARE METAL ROOF DECKING.
3.	ROOF CURBS: ROOF CURBS SHALL BE MOUNTED PLUMB AND LEVEL ON PITCHED ROOFS. PROVIDE FACTORY CURBS WITH CORRECT SLOPE OR PROVIDE FIELD INSTALLED BLOCKING AND SHIMS BELOW CURB. ALL WOOD PRODUCTS SHALL BE PRESSURE TREATED LUMBER.
4.	SEISMIC BRACING: PROVIDE SEISMIC ANCHORING OR BRACING FOR ALL NATURAL GAS, PROPANE OR FUEL OIL PIPING. PROVIDE SEISMIC ANCHORING FOR ALL GAS-FIRED EQUIPMENT. FOR ADDITIONAL SEISMIC BRACING REQUIREMENTS REFER TO SPECIFICATIONS AND SEISMIC NOTES.

MECHANICAL & ELECTRICAL COORDINATION	
1.	INFORMATION LISTED SCHEDULES IS BASED ON THE EQUIPMENT AS SELECTED BY THE ENGINEER DURING THE DESIGN. THE ACTUAL EQUIPMENT SELECTED BY THE CONTRACTOR MAY BE DIFFERENT AND HAVE DIFFERING ELECTRICAL CHARACTERISTICS. PRIOR TO ROUGH-IN OR ORDERING EQUIPMENT, COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ESTABLISH ACTUAL ELECTRICAL CHARACTERISTICS, ELECTRICAL LOAD, VOLTAGE, OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT. TO ASSURE PROPER ELECTRICAL CONNECTIONS AND SERVICES ARE PROVIDED.
2.	COORDINATE THE EXACT LOCATION OF ALL ROOM THERMOSTATS AND/OR ROOM TEMPERATURE/CO2 SENSORS WITH ELECTRICAL PLANS & ROOM ELEVATIONS, PRIOR TO INSTALLATION, SO AS TO AVOID CONFLICT WITH CASEWORK, MARKER BOARDS, WALL SWITCHES, ETC.
3.	COORDINATE THE FURNISHING AND INSTALLATION OF ALL ELECTRICAL DISCONNECT SWITCHES, STARTERS, VPDS, ETC., IN ORDER TO ASSURE THAT ALL ENERGIZED MECHANICAL IS PROVIDED WITH THE REQUIRED CIRCUIT PROTECTION METHODS AND CONTROL DEVICES. WHERE DRAWINGS NOTES, SCHEDULES AND EQUIPMENT SPECIFICATIONS ARE SILENT OR UNCLEAR AS TO WHICH DIVISION (22-PLBG, 23-HVAC, OR 26-ELECTRICAL) IS TO PROVIDE THESE DEVICES, THE CONTRACTOR SHALL CONTACT THE ENGINEER, PRIOR TO BID, FOR DIRECTION.

DUCTWORK & AIR DISTRIBUTION	
1.	VOLUME DAMPERS ARE NOT SHOWN FOR CLARITY. PROVIDE A DAMPER FOR EACH SUPPLY, RETURN AND EXHAUST OPENING AND IN BRANCHES WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH AND ELSEWHERE AS NOTED ON THE DRAWINGS OR SPECIFICATIONS.
2.	PROVIDE CONCEALED DAMPER REGULATORS FOR ALL VOLUME DAMPERS OVER INACCESSIBLE CEILINGS AND SOFFITS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
3.	PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE.
4.	INSTALL FIRE DAMPERS, SMOKE DAMPERS AND/OR COMBO FIRE-SMOKE DAMPERS AT ALL LOCATIONS WHERE DUCTS PENETRATE FIRE RATED WALLS. COORDINATE DAMPER ACCESS WITH GENERAL CONTRACTOR AND ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR.
5.	ALL DUCTWORK SIZES SHOWN ARE OUTSIDE DIMENSIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
6.	PROVIDE 1" THICK DUCT LINER IN ALL TRANSFER AIR DUCTWORK UNLESS NOTED OTHERWISE.
7.	TURNING VANES: ALL RECTANGULAR DUCT ELBOWS SHALL BE PROVIDED WITH TURNING VANES, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DUCTWORK DRAWING PLANS AND SECTIONS.
8.	RADIUS ELBOWS (NO VANES): UTILIZE RADIUS ELBOWS ON ALL MATERIAL HANDLING TYPE DUCTWORK, KITCHEN HOOD EXHAUST (TYPE I & II), LOCKER ROOM (LINT) EXHAUST, PATIENT ROOM (LINT) EXHAUST, AND ELSEWHERE AS INDICATED. CONTRACTOR'S OPTION TO UTILIZE RADIUS ELBOWS (WHERE SPACE ALLOWS) IN LIEU OF RECTANGULAR VANED ELBOWS.
9.	PROVIDE TRANSITIONS AS REQUIRED TO TO CONNECT DUCTWORK TO TERMINAL UNITS, FANS, AIR HANDLERS CONNECTIONS, ETC.
10.	PROVIDE FLEXIBLE DUCT FITTINGS ON CONNECTIONS TO ALL ENERGIZED AIR MOVING EQUIPMENT (FANS, AIR HANDLERS, ETC.).
11.	MAXIMUM FLEXIBLE DUCTWORK LENGTH FROM MAIN DUCT TO DIFFUSERS SHALL BE APPROXIMATELY 5 FT, WITH MINIMAL OFFSET AND NO KINKS.

PIPING & HYDRONICS	
1.	PLENUMS: PIPES AND WIRING IN PLENUMS SHALL BE RATED FOR PLENUM USE. PVC, ABS, PLASTIC PIPING IS NOT ACCEPTABLE IN PLENUM APPLICATIONS UNLESS INSULATED AND WRAPPED IN APPROVED FIRE RATED JACKETING.
2.	SMALL PIPING OR COMPONENTS: PIPING PLANS DO NOT NECESSARILY SHOW ALL SMALL PIPING OR COMPONENTS, INSTRUMENT TAPS OR DRAINS. PROVIDE ALL PIPING, VALVES, SPECIALTY ITEMS, INSTRUMENTATION, ETC. AS INDICATED ON THE PIPING FLOW DIAGRAMS, PIPING/EQUIPMENT DETAILS.
3.	SIZES FOR SUPPLY AND RETURN PIPING CONNECTIONS TO EQUIPMENT, COILS, ETC. SHALL EQUAL TO THE FULL BRANCH RUN-OUT SIZES INDICATED ON THE DRAWINGS. PROVIDE REDUCERS AT EQUIPMENT CONNECTIONS AND BEFORE AND AFTER CONTROL VALVES, BALANCE VALVES, ETC. WHEN NECESSARY. ALL NEAR-COIL/EQUIPMENT PIPING SHALL BE FULL BRANCH LINE SIZE, INCLUDING BYPASS LINES, ETC. AND SHALL ONLY BE REDUCED FOR SMALLER DIAMETER CONTROL VALVES OR COIL/EQUIPMENT CONNECTIONS.
4.	WHERE AIR HANDLING UNITS ARE PROVIDED WITH MULTIPLE (STACKED) COIL BANKS, PROVIDE DIVIDED BRANCH SUPPLY AND RETURN PIPING CONNECTIONS TO EACH COIL IN THE BANK, WHETHER OR NOT INDICATED ON THE DRAWINGS OR PIPING DETAILS. BRANCH PIPING TO EACH COIL IN THE BANK MAY BE REDUCED FROM THE MAIN INDICATED PIPE SIZE, BUT NOT TO BE SMALLER THAN THE COIL CONNECTION SIZES.
5.	PROVIDE AIR VENTS ON HYDRONIC DISTRIBUTION PIPING AT HIGH POINTS, CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AND ALONG HORIZONTAL RUNS AT APPROXIMATELY 100 FT. INTERVALS.
6.	INSTALL UNIONS, IN PIPING 2" AND SMALLER, AT FINAL CONNECTIONS TO EACH PIECE OF EQUIPMENT, ON EACH SIDE OF CONTROL VALVES AND ELSEWHERE AS INDICATED.
7.	INSTALL FLANGES, IN PIPING 2 1/2" AND LARGER, AT FIRST CONNECTIONS TO EQUIPMENT AND AT ALL FLANGED VALVES AND DEVICES.

MECHANICAL ABBREVIATIONS			
AAV	AUTOMATIC AIR VENT	HW	HOT WATER
ABV	ABOVE	HX	HEAT EXCHANGER
AD	ACCESS DOOR	HZ	HERTZ
AFS	AIR FLOW SWITCH	ID	INSIDE DIAMETER
AFB	ABOVE FINISHED FLOOR	INV	INVERT
AG	ABOVE GROUND	I.E.	INVERT ELEVATION
AHU	AIR HANDLING UNIT	INSUL	INSULATION
AL	ACOUSTICALLY LINED	IND	INDIRECT
ALUM	ALUMINUM	KW	KILOWATT
APD	AIR PRESSURE DROP	KWH	KILOWATT HOUR
ARCH	ARCHITECT	LA	LEAVING AIR
AVG	AVERAGE	LAT	TEMPERATURE
AWT	AVERAGE WATER TEMPERATURE	LBS	POUNDS
BAS	BUILDING AUTOMATION SYSTEM	LDB	LEAVING DRY BULB
BDD	BACKDRIFT DAMPER	LF	LINEAR FOOT
BFF	BELOW FINISHED FLOOR	LWT	LEAVING WATER
BFP	BACKFLOW PREVENTER	LG	LONG OR LENGTH
BG	BELOW GROUND	LP	LOW POINT
BHP	BRAKE HORSEPOWER	LWB	LEAVING WET BULB
BLDG	BUILDING	LWG	LOW WALL GRILLE
BP	BYPASS	LWT	LEAVING WATER TEMPERATURE
BTU	BRITISH THERMAL UNIT	LYG	LEAVING
BTUH	BRITISH THERMAL UNITS PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
BOD	BOTTOM OF DUCT	MOCP	MAXIMUM OVERCURRENT PROTECTION
BOP	BOTTOM OF PIPE	MBH	THOUSAND (1000) BTU PER HOUR
BSMT	BASEMENT	MBH	MOTOR CONTROL CENTER
BY	BALANCING VALVE	MFR	MANUFACTURER
CA	CAPACITY	MS	MOTOR STARTER
CC	CENTER TO CENTER OR COOLING COIL	MTD	MOUNTED
CD	CEILING DIFFUSER	MTG	MOUNTING
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CG	CEILING GRILLE	NO	NORMALLY OPEN
CI	CAST IRON	MOD	MOTOR-OPERATED DAMPER
CLG	CEILING	NIC	NOT IN CONTRACT
COG	CLEAN OUT TO GRADE	NPT	NATIONAL PIPE THREAD
CO	CLEAN OUT	NTS	NOT TO SCALE
COMB	COMBUSTION	OA	OUTDOOR AIR
COND	CONDENSATE OR CONDENSER	OBDD	OPPOSED BLADE DAMPER
CONC	CONCRETE CONSTRUCTION	OD	OUTSIDE DIAMETER
CONST	CONSTRICTION OF PERFORMANCE	OSA	OUTSIDE AIR
COP	COEFFICIENT OF PERFORMANCE	OAT	OUTSIDE AIR TEMPERATURE
CU	COPPER	OF	OWNER FURNISHED, CONTRACTOR INSTALLED
CUH	CABINET UNIT HEATER	OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
CW	COLD WATER	PD	PRESSURE DROP
CU	CONDENSING UNIT	PI	PIECE
CR	CONDENSATE RETURN	PIAC	PRESSURE INDEPENDENT AIR CONTROLLER
CL	CENTER LINE	PG	PROPYLENE GLYCOL PLUMBING
CR	DEEP OR DEPTH	PLBG	PLUMBING
DB	DRY BULB OR DECIBEL	POC	POINT OF CONNECTION
DBA	A-WEIGHTED DECIBELS	PRV	PRESSURE REDUCING VALVE
DCV	DEMAND CONTROL VENTILATION	PSI	POUNDS PER SQUARE INCH
DDC	DIRECT DIGITAL CONTROL	PSIG	POUNDS PER SQUARE INCH GAUGE
DEMO	DEMOLITION	PT	PRESSURE & TEMPERATURE DAMPER
DN	DOWN	RA	RETURN AIR
DIA	DIAMETER Ø	RAG	RETURN AIR GRILLE
DPS	DIFFERENTIAL PRESSURE SWITCH	RAT	RETURN AIR TEMPERATURE
DP	DROP	RD	ROOF DRAIN
DPR	DAMPEN	RET	RETURN
DWG	DRAWING	REV	RETURN AIR
(E)	EXISTING	RFM	REVOLUTIONS PER MINUTE
EA	EACH OR EXHAUST AIR	RTU	ROOF TOP UNIT
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EBD	ENTERING DRY BULB	SAT	ELECTRIC OR ELECTRICAL TEMPERATURE
EER	ENERGY EFFICIENCY RATIO	SEER	SEASONAL ENERGY EFFICIENT RATIO
EFF	EFFICIENCY	SENS	SENSIBLE
EG	EXHAUST GRILLE	SD	SMOKE DETECTOR OR DAMPER
ELEC	ELECTRIC OR ELECTRICAL ELEVATION	SF	SUPPLY FAN
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM	SFD	SMOKE-FIRE DAMPER
ENCL	ENCLOSURE	SHT	SHEET
ESP	EXTERNAL STATIC PRESSURE ESTIMATE(D)	SP	STATIC PRESSURE
EST	ENTERING WET BULB TEMPERATURE	SQ	SQUARE
EWB	ENTERING WET BULB TEMPERATURE	SQ FT	SQUARE FOOT
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
EXH	EXHAUST	STD	STANDARD
FA	FRESH AIR (OUTSIDE AIR)	TA	TRANSFER AIR
FCO	FLOOR CLEAN OUT	TEMP	TEMPERATURE
FCD	FIRE DAMPER OR FLOOR DRAIN	TH	THICK OR THICKNESS
FDC	FIRE DEPARTMENT CONNECTION	TOD	TOP OF DUCT
FF	FINAL FILTER	TOP	TOP OF PIPE
FLA	FULL LOAD AMPS	TP	TRAP PRIMER
FLR	FLOOR	TU	TERMINAL UNIT
FOB	FLAT ON BOTTOM	TYP	TYPICAL
FOT	FLAT ON TOP	UF	UNDER FLOOR
FPM	FEET PER MINUTE	UH	UNDERGROUND UNIT HEATER
FR	FINS PER INCH	UR	URINAL
FPS	FEET PER SECOND	US	UNDER SLAB
FP	FIRE PROTECTION	V	VENT OR VOLT
FS	FLOOR SINK	VAC	VACUUM
FT	FEET/FOOT OR FINNED TUBE	VAV	VARIABLE AIR VOLUME
FV	FACE VELOCITY	VEL	VELOCITY
G	GAS (NATURAL)	VFD	VARIABLE FREQUENCY DRIVE
GA	GAUGE OR GAGE	VRF	VARIABLE REFRIGERANT FLOW
GAL	GALLONS	VRV	VARIABLE REFRIGERANT VOLUME
GALV	GALVANIZED	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	VD	VOLUME DAMPER
GPB	GALLONS PER HOUR	WB	WET BULB
H	HIGH OR HEIGHT	WC	WATER CLOSET
HB	HOSE BIBB	WCO	WALL CLEAN OUT
HC	HEATING COIL	WH	WATER HEATER
HD	HEAD	WHA	WATER HAMMER ARRESTOR
HGBP	HOT GAS BYPASS	WG	WATER GAUGE
HL	HIGH LIMIT	WPD	WATER PRESSURE DROP DEVICES
HP	HORSEPOWER OR HIGH POINT	WT	WEIGHT
HR	HOUR		
HUM	HEATING HUMIDIFIER		

HVAC PIPING LEGEND	
—HWS—	HEATED WATER SUPPLY
—HWR—	HEATED WATER RETURN
—CWS—	CHILLED WATER SUPPLY
—CWR—	CHILLED WATER RETURN
—CHS—	CHILLER CIRC RETURN
—CHR—	CHILLER CIRC RETURN
—CD—	CONDENSATE DRAIN
—D—	DRAIN
—PC—	PUMPED CONDENSATE
—RL—	REFRIGERANT LIQUID
—RS—	REFRIGERANT SUCTION
—REF—	REFRIGERANT LINE SET
—G—	NATURAL GAS

GENERAL PIPING SYMBOLS	
	PIPE PITCH DIRECTION (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION
	BOTTOM CONNECTION
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN

VALVE AND EQUIPMENT SYMBOLS	
	GENERIC VALVE (TYPE AS SPECIFIED)
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & QUICK COUPLE HOSE CONNECTOR)
	FLEXIBLE CONNECTION
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY RELIEF VALVE
	BALANCING VALVE (MANUAL OR AUTOFLOW AS SPECIFIED)
	PRESSURE REDUCING VALVE (PRV)
	THERMOMETER
	PRESSURE GAGE
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	QUICK-COUPLE HOSE CONNECTOR
	PLANT COMPRESSED AIR OUTLET QUICK CONNECT
	PUMP

LINEWEIGHT LEGEND	
—	LIGHT LINES INDICATES EXISTING ITEMS TO REMAIN

### HOUSEKEEPING PAD SCHEDULE

EQUIPMENT SERVED	LOCATION ROOM #	CONC. PAD SIZE (L X W)	CONC. PAD THICKNESS (")	NOTES
WATER HEATER	MECH. G101	4'x4'	4"	①
HEAT PUMPS	OUTDOOR	20' x 8'	4"	①②

**NOTES:**

① VERIFY EQUIPMENT PAD SIZE WITH ACTUAL DIMENSIONS OF EQUIPMENT TO BE PROVIDED AND ADJUST TO PROVIDE A MINIMUM OF 12" (MECHANICAL ROOMS) OR 6" (ROOF TOP EQUIPMENT) OVERLAP IN EVERY DIRECTION.

② SEE SITE PLAN FOR UNIT LOCATIONS.

### INDOOR ENERGY RECOVERY VENTILATOR SCHEDULE

#	MFR	MODEL	SERVICE	SUPPLY FAN					EXHAUST FAN					ENERGY REC. (HEATING)					ENERGY REC. (COOLING)					ELECTRICAL			WEIGHT (LBS)	NOTES					
				CFM	TSP (°WC)	ESP (°WC)	RPM	BHP	HP	CFM	ESP (°WC)	RPM	BHP	HP	EA (CFM)	OSA (CFM)	EAT (°FDB)	OAT (°FDB)	SAT (°FDB)	SENS. EFF. %	EA (CFM)	OSA (CFM)	EAT (°FDB)	OAT (°FDB)	SAT (°FDB)	SENS. EFF. %			V/PH	MCA	MOCP		
ERV-B1	RENEWAIRE	HE1.5XINV		1,000						1.0	1,000					1.0	1,000	1,000	70	6			1,000	1,000	75	96			208-230/1		15	500	①
ERV-B2	RENEWAIRE	HE1.5XINV		1,100						1.0	1,000					1.0	1,000	1,000	70	6			1,000	1,000	75	96			208-230/1		15	500	①

**NOTES:**

① CEILING MOUNTED ENERGY RECOVERY VENTILATOR UNIT.  
 - DEDICATED OUTSIDE AIR SYSTEM (DOAS) PER WSEC 2018 REQUIREMENTS. DECOUPLED APPLICATION.  
 - DOWNFLOW CONFIGURATION. FIXED PLATE TOTAL ENERGY TYPE HEAT EXCHANGER.  
 - PROVIDE WITH THE FOLLOWING FEATURES AND OPTIONS:  
 • INSULATED DOUBLE-WALL CONSTRUCTION.  
 • REMOVABLE, GASKETED ACCESS PANELS.

• MOTORIZED SHUT-OFF DAMPERS, CLASS-I LOW LEAK TYPE.  
 • MERV 8, 2" THICK PLEATED FILTERS IN BOTH AIR STREAMS.  
 • DIRECT DRIVE TYPE EC FANS.  
 • SINGLE POINT POWER CONNECTION & NON-FUSED DISCONNECT SWITCH.  
 • FACTORY CONTROLS: TIME CLOCK AND FAN SPEED CONTROLLER

### BRANCH CIRCUIT CONTROLLER SCHEDULE

#	MFR	MODEL	REFRIG.	PORTS	SERVICE	ELECTRICAL			WEIGHT	NOTES
						V/PH	MCA	MOCP		
BS-B1	DAIKIN		R410A	6		208-230/1		15	70	①
BS-B2	DAIKIN		R410A	6		208-230/1		15	70	①

**NOTES:**

① INCLUDE BALL VALVES, 700 PSIG WORKING PRESSURE, FULL PORT, REFRIG. 410A RATED AT EACH PIPE CONNECTION ON BRANCH CONTROLLER.

### INDOOR VRF FAN COIL UNIT SCHEDULE

#	MFR	MODEL	CONFIG.	LOCATION	REFRIG.	SUPPLY CFM	ESP (IN)	OSA CFM	HTG CAP. (MBH)	TOTAL CLG CAP. (MBH)	SENS. CLG CAP. (MBH)	ELECTRICAL			WEIGHT (LBS)	SOUND PRES. LEVELS		NOTES
												V/PH	MCA	MOCP		LOW SPEED DB(A)	HIGH SPEED DB(A)	
FC-B1	DAIKIN				R410A							208-230/1		15				①②③④
FC-B2	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-B3	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-B4	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-B5	DAIKIN				R410A							208-230/1		15				①②③④
FC-B6	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-B7	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-B8	DAIKIN				R410A							208-230/1		15				①②③⑤

**NOTES:**

① PROVIDE FACTORY CONDENSATE PUMP. PUMP TO BE POWERED FROM FAN COIL UNIT.

② INCLUDE NAVIGATION WIRED REMOTE CONTROLLER WITH SPACE TEMPERATURE SENSOR.

③ DISCONNECT SWITCH BY DIV. 26.

④ INCLUDE MANUFACTURER'S FILTER BOX WITH 2" MERV-8 FILTER.

⑤ INCLUDE MANUFACTURER'S CLEANABLE MESH FILTER.

### ELECTRIC DUCT HEATER SCHEDULE

#	SERVES	MFR	MODEL	CFM	DUCT		HEATER		ELECTRICAL			NOTES	
					WIDTH (")	HEIGHT (")	KW	MBH	EAT/LAT (°F)	V/PH	MCA		MOCP
EDH-A1	ERV-1	RENEWAIRE							52/73	208/3		20	①
EDH-A2	ERV-2	RENEWAIRE							52/73	208/3		20	①

**NOTES:**

① PROVIDE THE FOLLOWING FEATURES & OPTIONS:  
 - SCR CONTROL WITH THERMOSTAT & SENSOR  
 - FACTORY DISCONNECT  
 - AUTOMATIC LIMIT SWITCH FOR OVERTEMP PROTECTION

### AIR OUTLETS SCHEDULE

#	MFR	MODEL	SERVICE	TYPE	MATERIAL	PATTERN	BLADE			NOTES
							SPC (")	POS	DEFL (")	
1	PRICE	SMCD	SUPPLY	DIFFUSER	STEEL	4-WAY ADJUST.	-	-	-	①②③④
2	PRICE	530	RETURN/EXHAUST/TRANSFER	GRILLE	STEEL	FIXED	3/4"	FACE HORIZ.	45	②③④⑥
3	PRICE	510	SUPPLY	GRILLE	STEEL	FIXED	3/4"	FACE HORIZ.	0	②③④⑤⑥
4	PRICE	SDS150	SUPPLY	LINEAR SLOT DIFFUSER	STEEL	ADJ. ICE TONGS	1-1/2"	3 SLOTS	-	①②③⑦⑧
5	PRICE	SDS150	SUPPLY	LINEAR SLOT DIFFUSER	STEEL	ADJ. ICE TONGS	1-1/2"	4 SLOTS	-	①②③⑦⑧
6	PRICE	RCD	SUPPLY	DIFFUSER	STEEL	FIXED	ADJ.	-	ADJ.	①②③⑨
7	PRICE	HCD1	SUPPLY	DIFFUSER	STEEL	ADJUSTABLE	ADJ.	-	ADJ.	①②③⑨

**NOTES:**

① FINISH ON OUTLETS TO BE WHITE.  
 ② PROVIDE BALANCING DAMPER IN BRANCH DUCT SERVING AIR OUTLET AT TAKEOFF FROM TRUNK DUCT.  
 ③ PROVIDE TRANSITION FROM AIR OUTLET NECK TO BRANCH DUCT AS REQUIRED.  
 ④ PROVIDE 24"x24" PAN FOR LAY-IN CEILING INSTALLATION AS REQUIRED (SEE HVAC FLOOR PLANS).  
 ⑤ PROVIDE SPIRAL DUCT FRAME AS REQUIRED (SEE HVAC FLOOR PLANS). SEE DETAILS.  
 ⑥ COLOR TO MATCH ADJACENT SURFACE. PROVIDE FACTORY CUSTOM COLOR OR FIELD PAINT AS REQUIRED.  
 ⑦ PROVIDE SDB PLENUM.  
 ⑧ FINISH ON DIFFUSERS TO BE BLACK.  
 ⑨ COLOR BY ARCHITECT.

### OUTDOOR VRF HEAT PUMP SCHEDULE

#	MFR	MODEL	REFRIG.	HEATING				COOLING				ELECTRICAL			WEIGHT (LBS)	NOTES	
				CAP (MBH)	OAT DB (°F)	COP AT 47F	COP AT 17F	CAP (MBH)	OAT DB (°F)	EER	IEER	V/PH	MCA	MOP			
HP-B1	DAIKIN		R410A		6					96				208-230/3	60	800	①③④
HP-B2	DAIKIN		R410A		6					96				208-230/3	60	800	①③④

**NOTES:**

① -

② -

③ CONTRACTOR TO PROVIDE BIG FOOT MULTI-FRAME STAND OR EQUIVALENT.

④ INCLUDE I-TOUCH MANAGER CENTRAL CONTROLLER WITH BACNET SOFTWARE IF REQUIRED.

### ELECTRIC UNIT HEATER SCHEDULE

#	MFR	MODEL	TYPE	LOCATION	CFM	KW	DT (°F)	ELECTRICAL		NOTES
								V/PH	AMPS	
EUH-B1	INDEECO	UCI	SUSPENDED UNIT HEATER	216 MECHANICAL	500	1.0	13	208/3	3.1	①②
EUH-B2	INDEECO	UCI	SUSPENDED UNIT HEATER	216 MECHANICAL	500	1.0	13	208/3	3.1	①②

**NOTES:**

① PROVIDE:  
 - THERMOSTAT AND REMOTE SENSOR  
 - THERMAL OVERHEAT MANUAL RESET  
 - PERMANENTLY LUBRICATED & ENCLOSED FAN MOTOR  
 - AUTOMATIC FAN DELAY AT START-UP & SHUTDOWN  
 - CONCEALED POWER ON/OFF SWITCH FOR MAINTENANCE  
 - FACTORY DISCONNECT  
 - MOUNTING KIT FOR SUSPENDED INSTALLATION

② SEE ELECTRIC HEATER CONTROL DIAGRAM.



STUDIO+ ARCHITECTS  
 9 S WASHINGTON ST, SUITE 518  
 SPOKANE, WA 99201



DNR OMAK FIRE CENTER BUILDING B WORK CENTER  
 OMAK, WA 98841

DRAWN BY RID  
 CHECKED BY NJJ  
 JOB NUMBER 231102

REVISIONS

DATE  
 07.26.2024

SHEET NAME  
 BLDG B - MECHANICAL SCHEDULES

SHEET

M0.02B



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING B  
WORK CENTER  
OMAK, WA 98841

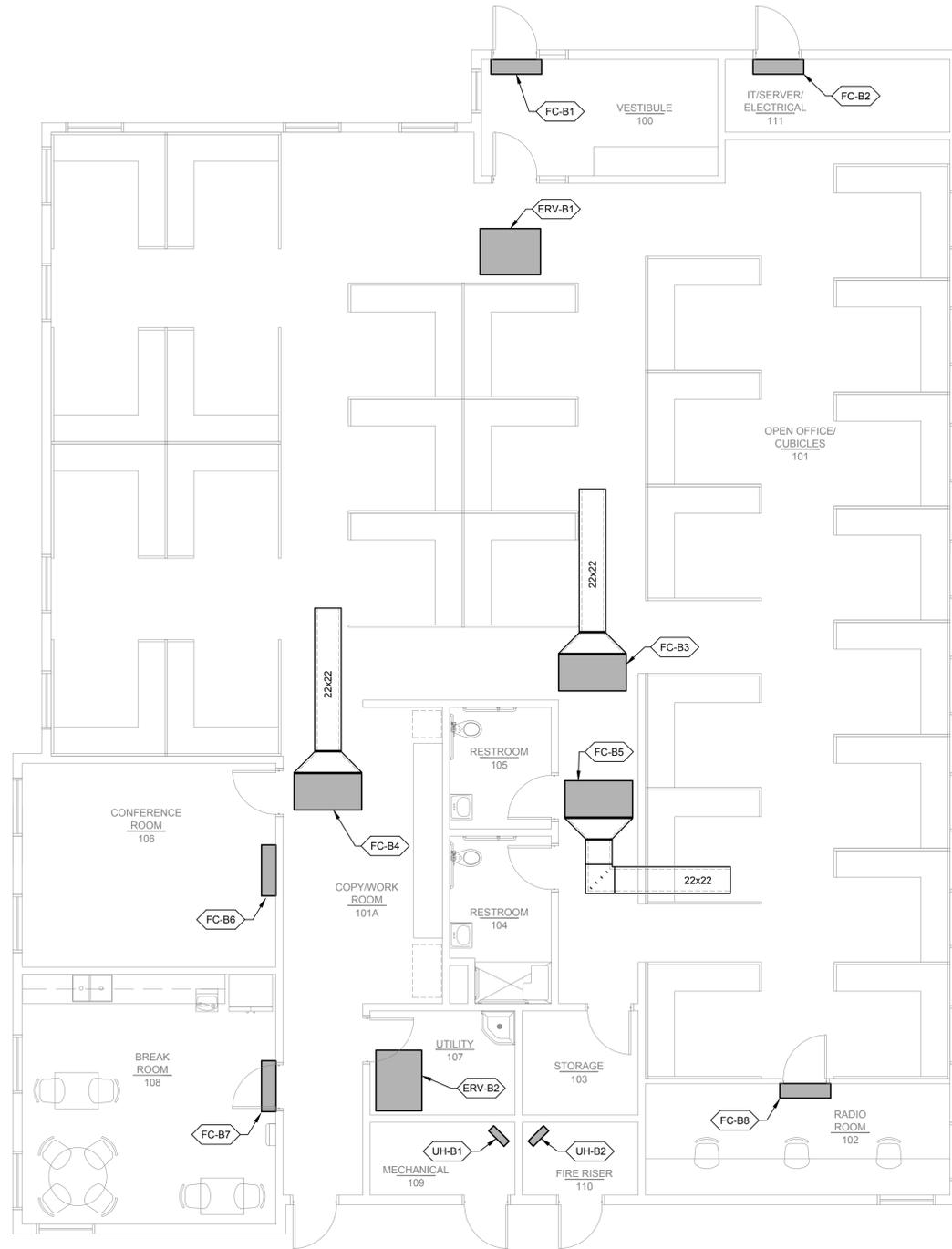
DRAWN BY  
RID  
CHECKED BY  
NJJ  
JOB NUMBER  
231102

REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG B -  
FLOOR  
PLAN -  
HVAC

SHEET  
M3.31B



**1 BUILDING B - FLOOR PLAN - HVAC**

Scale: 3/16" = 1'-0"



1

### HANGERS AND SUPPORTS

- HANGERS, SUPPORTS AND ANCHORS FOR MECHANICAL AND PLUMBING SYSTEMS AND EQUIPMENT ARE NOT NECESSARILY DESIGNED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT AND OTHER DEVICES. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS. SEE TYPICAL MECHANICAL DETAILS ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, LIMITATIONS AND DETAILS.
- DO NOT ANCHOR TO OR SUSPEND EQUIPMENT, DUCTWORK OR PIPING DIRECTLY OFF OF BARE METAL ROOF DECKING.

### PLUMBING PIPING

- PLENUMS: PIPES AND WIRING IN PLENUMS SHALL BE RATED FOR PLENUM USE. PVC, ABS, PLASTIC PIPING IS NOT ACCEPTABLE IN PLENUM APPLICATIONS UNLESS INSULATED AND WRAPPED IN APPROVED FIRE RATED JACKETING.
- SMALL PIPING OR COMPONENTS: PIPING PLANS DO NOT NECESSARILY SHOW ALL SMALL PIPING OR COMPONENTS, INSTRUMENT TAPS OR DRAINS. PROVIDE ALL PIPING, VALVES, SPECIALTY ITEMS, INSTRUMENTATION, ETC. AS INDICATED ON THE PIPING FLOW DIAGRAMS, PIPING/EQUIPMENT DETAILS AND/OR CONTROL INSTRUMENTATION DIAGRAMS.

### TESTING, BALANCING AND COMMISSIONING

- MECHANICAL SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE 2018 WA STATE ENERGY CODE, THE PROJECT SPECIFICATIONS AND GENERALLY ACCEPTED ENGINEERING STANDARDS TO ENSURE AT A MINIMUM THAT FLOW RATES ARE MEASURED AND ADJUSTED TO DELIVER THE DESIGN RATES WITHIN SPECIFIED TOLERANCES.
- A BUILDING COMMISSIONING PROCESS LEAD BY A CERTIFIED COMMISSIONING PROFESSIONAL SHALL BE COMPLETED FOR MECHANICAL SYSTEMS IN ACCORDANCE WITH ALL REQUIREMENTS OF SECTION 408 OF THE 2018 WA STATE ENERGY CODE.

### LOCATIONS & COORDINATION

- THE MECHANICAL AND PLUMBING PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS AND FITTINGS. PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES TO AVOID CONFLICTS.
- INSTALL ALL MECHANICAL AND PLUMBING WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. IN GENERAL IT IS THE INTENT THAT ALL MECHANICAL SYSTEMS BE CONCEALED ABOVE CEILINGS OR INSIDE WALLS AND SHAFTS.
- COORDINATE ALL EXPOSED MECHANICAL SYSTEMS, PIPING AND DUCTWORK SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.) GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
- COORDINATE ALL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. DIV. 23/22 CONTRACTOR RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.

### ELECTRICAL COORDINATION

- INFORMATION LISTED IN EQUIPMENT SCHEDULES IS BASED ON THE EQUIPMENT AS SELECTED BY THE ENGINEER DURING THE DESIGN PROCESS. THE ACTUAL EQUIPMENT SELECTED BY THE CONTRACTOR MAY BE DIFFERENT AND HAVE DIFFERING ELECTRICAL CHARACTERISTICS. PRIOR TO ROUGH-IN OR ORDERING EQUIPMENT, COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ESTABLISH ACTUAL ELECTRICAL CHARACTERISTICS, ELECTRICAL LOAD, VOLTAGE, OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT, TO ASSURE PROPER ELECTRICAL CONNECTIONS AND SERVICES ARE PROVIDED.
- COORDINATE THE FURNISHING AND INSTALLATION OF ALL ELECTRICAL DISCONNECT SWITCHES, STARTERS, VFDs, ETC., IN ORDER TO ASSURE THAT ALL ENERGIZED MECHANICAL IS PROVIDED WITH THE REQUIRED CIRCUIT PROTECTION METHODS AND CONTROL DEVICES. WHERE DRAWINGS NOTES, SCHEDULES AND EQUIPMENT SPECIFICATIONS ARE SILENT OR UNCLEAR AS TO WHICH DIVISION (22-PLBG, 23-HVAC, OR 26-ELECTRICAL) IS TO PROVIDE THESE DEVICES, THE CONTRACTOR SHALL CONTACT THE ENGINEER, PRIOR TO BID, FOR DIRECTION.

### GENERAL NOTES

- THE PLUMBING SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON DRAWINGS, DIAGRAMS AND AS DESCRIBED IN SPECIFICATIONS.
- COORDINATE WITH SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS REFER TO THE GENERAL CONDITIONS AND NOTIFY THE A/E FOR DIRECTION.
- INSTALL ALL PLUMBING WORK AS HIGH AS POSSIBLE. TIGHT TO STRUCTURE ABOVE. COORDINATE ALL EXPOSED PLUMBING SYSTEMS SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET PLUMBING WORK AS REQUIRED.
- COORDINATE ALL PLUMBING WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. DIV. 22 CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.
- ALL REQUIRED FIRESTOPPING FOR PIPE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATION SECTIONS FOR FIRESTOPPING MATERIALS AND METHODS.
- PROVIDE ALL NECESSARY SUPPORT MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT AND OTHER DEVICES. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS. SEE PLUMBING DETAILS, ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, LIMITATIONS AND DETAILS.
- ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR SHEET.
- PLENUMS: PIPES AND WIRING IN PLENUMS SHALL BE RATED FOR PLENUM USE. PVC, ABS, PLASTIC PIPING IS NOT ACCEPTABLE IN PLENUM APPLICATIONS.
- MODEL NUMBERS OF EQUIPMENT SHOWN ON THE SCHEDULES AND THROUGHOUT THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MFR/MODEL ALONE. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS OF DESIGN.
- ALL INSULATED PIPING EXPOSED TO VIEW IN OCCUPIED SPACES SHALL BE PROVIDED WITH PVC JACKETING.
- PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS AND FLOOR SINKS, UNLESS NOTED OTHERWISE. TRAP PRIMER SOURCES SHALL BE EITHER FROM AUTOMATIC, ELECTRONIC TRAP PRIMER UNITS LOCATED IN THE VICINITY (FOR CLUSTERS OF MULTIPLE DRAINS), WATER CLOSET FLUSH VALVE TAPS, SINK TAIL PIECE BRANCHES, OR PRESSURE DROP OPERATED UNITS AS BEST FITS THE SITUATION. ALL FLOOR DRAINS AND FLOOR SINKS IN KITCHENS, MECHANICAL MEZZANINES, AND MECHANICAL ROOMS ARE REQUIRED TO BE INSTALLED WITH AUTOMATIC ELECTRONIC TRAP PRIMER UNITS.
- PROVIDE AN ACCESS PANEL WHERE REQUIRED FOR ACCESS TO WATER HAMMER ARRESTORS. PROVIDE WATER HAMMER ARRESTORS AT THE FOLLOWING LOCATIONS:
  - HOT AND COLD WATER SERVING ALL RESTROOMS
  - AT ALL FLUSH VALVES AND OTHER QUICK ACTING VALVES
  - FIXTURES LOCATED AT THE END OF MAIN AND BRANCH PIPING RUNS
  - IN WATER SUPPLIES TO REMOTE SINKS
  - WATER SUPPLY LINES TO FAST ACTING VALVES.
- PROVIDE RPBA'S AS REQUIRED BY CODE. RPBA'S TO BE ACCESSIBLE FOR MAINTENANCE. INSTALL AT A MAXIMUM OF 5'-0" AFF. RPBA'S TO BE PROVIDED FOR, BUT NOT LIMITED TO, THE FOLLOWING:
  - HOSE BIBBS LOCATED IN MECHANICAL ROOMS, MECHANICAL YARDS, AND/OR IN DUMPSTER AREAS.
  - FUME HOODS
  - COMBI OVENS

### SEISMIC DESIGN CRITERIA

- SEE STRUCTURAL DRAWINGS FOR THE SEISMIC DESIGN CATEGORY (SDC) AND ASSOCIATED DESIGN CRITERIA FOR THIS PROJECT LOCATION.
- ALL MECHANICAL SYSTEMS, PIPING AND EQUIPMENT CONVEYING OR USING NATURAL GAS (GAS PIPING, BOILERS, WATER HEATERS, ETC.) SHALL BE SEISMICALLY BRACED AND ANCHORED.
- DELEGATED DESIGN: THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED SEISMIC DESIGNER TO PROVIDE ENGINEERING OF ALL SEISMIC RESTRAINT AND ANCHORING SYSTEMS. SEISMIC DESIGN AND INSTALLATION SHALL BE CONTRACTOR FURNISHED.
- SEISMIC BRACING PRODUCTS AND SYSTEMS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, SECTION 22 05 50, AND AS DETERMINED BY THE SEISMIC DESIGNER.

### ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	HW	HOT WATER
ABV	ABOVE	HX	HEAT EXCHANGER
ACCU	AIR COOLED CONDENSING UNIT	ID	HERTZ
AD	ACCESS DOOR	IZ	INSIDE DIAMETER
AFS	AIR FLOW SWITCH	INV	INVERT
AFF	ABOVE FINISHED FLOOR	I.E.	INVERT ELEVATION
AG	ABOVE GROUND	INSUL	INSULATION
AHU	AIR HANDLING UNIT	IND	INDIRECT
AL	ACOUSTICALLY LINED	KW	KILOWATT
ALUM	ALUMINUM	KWH	KILOWATT HOUR
APD	AIR PRESSURE DROP	L	LENGTH OR LOUVER
ARCH	ARCHITECT	LAT	LEAVING AIR TEMPERATURE
AVG	AVERAGE	LBS	POUNDS
AWT	AVERAGE WATER TEMPERATURE	LDB	LEAVING DRY BULB
BAS	BUILDING AUTOMATION SYSTEM	LF	LINEAR FOOT
BDD	BACKDRAFT DAMPER	LWT	LEAVING WATER TEMPERATURE
BFF	BELOW FINISHED FLOOR	LG	LONG OR LENGTH
BFP	BACKFLOW PREVENTER	LP	LOW POINT
BG	BELOW GROUND	LWB	LEAVING WET BULB
BHP	BRAKE HORSEPOWER	LWS	LOW WALL GRILLE
BLDG	BUILDING	LWT	LEAVING WATER TEMPERATURE
BP	BYPASS	LVG	LEAVING
BTU	BRITISH THERMAL UNITS PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
BTUH	BRITISH THERMAL UNITS PER HOUR	MOCP	MAXIMUM OVERCURRENT PROTECTION
BOD	BOTTOM OF DUCT	MBH	THOUSAND (1000) BTU PER HOUR
BOP	BOTTOM OF PIPE	MCC	MOTOR CONTROL CENTER
BSMT	BASEMENT	MFR	MANUFACTURER
BV	BALANCING VALVE	MS	MOTOR STARTER
C	CELSIUS	MTD	MOUNTED
CA	COMBUSTION AIR CAPACITY	MTG	MOUNTING
CC	CENTER TO CENTER	MAU	MAKE-UP AIR UNIT
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CG	CEILING GRILLE	MOD	MOTOR-OPERATED DAMPER
CI	CAST IRON	NIC	NOT IN CONTRACT
CLG	CEILING	NPT	NATIONAL PIPE THREAD
COG	CLEAN OUT TO GRADE	NTS	NOT TO SCALE
CO	CLEAN OUT	OA	OUTDOOR AIR
COMB	COMBUSTION	OBD	OPPOSED BLADE DAMPER
COND	CONDENSATE OR CONDENSER	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OSA	OUTSIDE AIR
CONST	CONSTRUCTION	OAT	OUTSIDE AIR TEMPERATURE
COEFF	COEFFICIENT OF PERFORMANCE	OF	OWNER FURNISHED, CONTRACTOR INSTALLED
CU	COPPER	PH	PRESSURE DROP
CUH	CABINET UNIT HEATER	PI	PHASE
CW	COLD WATER	PIAC	PRESSURE INDEPENDENT AIR CONTROLLER
CU	CONDENSING UNIT	PG	PROPYLENE GLYCOL
CR	CONDENSATE RETURN	PLBG	PLUMBING
CL	CENTER LINE	POC	POINT OF CONNECTION
D	DEEP OR DEPTH	PRV	PRESSURE REDUCING VALVE
DB	DRY BULB OR DECIBEL	PSI	POUNDS PER SQUARE INCH
DBA	A-WEIGHTED DECIBELS	PSIG	POUNDS PER SQUARE INCH GAUGE
DDC	DIRECT DIGITAL CONTROLS	PT	PRESSURE & TEMPERATURE RETURN AIR
DEMO	DEMOLITION	RA	RETURN AIR
DN	DOWN	RAG	RETURN AIR GRILLE
DIA	DIAMETER Ø	RAT	RETURN AIR TEMPERATURE
DPS	DIFFERENTIAL PRESSURE SWITCH	RD	ROOF DRAIN
DP	DROP	RET	RETURN
DPR	DAMPER	REV	REVISION
DWG	DRAWING	RF	RETURN FAN
(E)	EXISTING	RPM	REVOLUTIONS PER MINUTE
EA	EACH OR EXHAUST AIR	RHW	RECIRCULATING HOT WATER
EAT	ENTERING AIR TEMPERATURE	RTU	ROOF TOP UNIT
EDB	ENTERING DRY BULB	S	SINK
EEF	ENERGY EFFICIENCY RATIO	SA	SUPPLY AIR
EF	EXHAUST FAN	SAT	SUPPLY AIR TEMPERATURE
EFF	EFFICIENCY	SEER	SEASONAL ENERGY EFFICIENT RATIO
EG	EXHAUST GRILLE	SENS	SENSIBLE
ELEC	ELECTRIC OR ELECTRICAL	SD	SMOKE DETECTOR OR DAMPER
ELEV	ELEVATION	SF	SUPPLY FAN
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM	SFD	SMOKE-FIRE DAMPER
ENCL	ENCLOSURE	SP	STATIC PRESSURE
EQUIP	EQUIPMENT	SQ	SQUARE
ESP	EXTERNAL STATIC PRESSURE	SQ FT	SQUARE FOOT
EST	ESTIMATE(D)	SS	STAINLESS STEEL
EWB	ENTERING WET BULB	STD	STANDARD
EW	ENTERING WATER TEMPERATURE	TA	TRANSFER AIR
EXH	EXHAUST	TEMP	TEMPERATURE
F	FAHRENHEIT	TH	THICK OR THICKNESS
FA	FRESH AIR (OUTSIDE AIR)	TOD	TOP OF DUCT
FCO	FLOOR CLEAN OUT	TOP	TOP OF PIPE
FCU	FAN COIL UNIT	TP	TRAP PRIMER
FD	FIRE DAMPER OR FLOOR DRAIN	TU	TERMINAL UNIT
FDC	FIRE DEPARTMENT CONNECTION	TYP	TYPICAL
FF	FINAL FILTER	UF	UNDER FLOOR
FLA	FULL LOAD AMPS	UG	UNDERGROUND
FLR	FLOOR	UH	UNIT HEATER
FLEX	FLEXIBLE	UR	URINAL
FOB	FLAT ON BOTTOM	US	UNDER SLAB
FOT	FLAT ON TOP	V	VENT OR VOLT
FPM	FEET PER MINUTE	VAC	VACUUM
FPI	FINS PER INCH	VAV	VARIABLE AIR VOLUME
FPS	FEET PER SECOND	VEL	VELOCITY
FP	FIRE PROTECTION	VFD	VARIABLE FREQUENCY DRIVE
FS	FLOOR SINK	VRF	VARIABLE REFRIGERANT FLOW
FT	FEET/FOOT OR FINNED TUBE	VRV	VARIABLE REFRIGERANT VOLUME
FV	FACE VELOCITY	VTR	VENT THRU ROOF
G	GAS (NATURAL)	VD	VOLUME DAMPER
GAL	GALLONS	W	WIDE OR WIDTH
GALV	GALVANIZED	WB	WET BULB
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
GPH	GALLONS PER HOUR	WCO	WALL CLEAN OUT
GYP	GYPSONUM WALL BOARD	WH	WATER HEATER
H	HIGH OR HEIGHT	WHA	WATER HAMMER ARRESTOR
HB	HOSE BIBB	WG	WATER GAUGE
HC	HEATING COIL	WPD	WATER PRESSURE DROP
HD	HEAD	WT	WEIGHT
HGBP	HOT GAS BYPASS		
HL	HIGH LIMIT		
HP	HORSEPOWER OR HIGH POINT		
HR	HOUR		
HTG	HEATING		

### PLUMBING SYMBOLS

	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	CONCENTRIC REDUCER/INCH
	ECCENTRIC REDUCER/INCH
	UNION
	RISE/DROP IN PIPE
	VENT THRU ROOF
	CAP
	CLEAN-OUT (WALL)
	CLEAN-OUT (FLUSH TO FLOOR OR GRADE)
	FLOOR DRAIN
	CIRCULATING PUMP (POINTS IN DIRECTION OF FLOW)
	VALVE (AS INDICATED OR SPECIFIED)
	CHECK VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE)
	GAS VALVE
	SOLENOID VALVE
	HOSE BIBB
	CIRCUT SETTER
	VALVE BOX W/ VALVE (AS SPECIFIED)
	THERMOMETER
	PRESSURE GAGE

### PLUMBING LEGEND

	COLD WATER
	HOT WATER
	HOT WATER RETURN
	TEMPERED HOT WATER
	VENT
	SANITARY DRAIN ABOVE FLOOR
	SANITARY DRAIN BELOW FLOOR
	STORM DRAIN ABOVE FLOOR
	STORM DRAIN BELOW FLOOR
	CONDENSATE DRAIN ABOVE FLOOR
	CONDENSATE DRAIN BELOW FLOOR
	RAINWATER CONDUCTOR ABOVE FLOOR
	RAINWATER CONDUCTOR BELOW FLOOR
	FIRE PROTECTION
	OXYGEN
	MEDICAL VACUUM
	MEDICAL AIR
	NITROGEN OXIDE
	NITROGEN
	COMPRESSED AIR

### GENERAL SYMBOLS

	SECTION IDENTIFYING NUMBER
	CROSS-SECTION SYMBOL
	SHEET WHERE SECTION IS SHOWN
	DETAIL IDENTIFYING NUMBER
	DETAIL SYMBOL
	SHEET WHERE DETAIL IS SHOWN
	POINT OF CONNECTION (POC) SYMBOL
	EQUIP. TYPE-NUMBER (SEE SCHEDULES)
	EQUIPMENT IDENTIFIER (OPTIONAL TAG STYLE)
	REVISION CLOUD AND REVISION NUMBER

### LINEWEIGHT LEGEND

	LIGHT SOLID LINES INDICATES EXISTING ITEMS TO REMAIN
	LIGHT DASHED LINES GENERALLY INDICATE HIDDEN OR UNDERGROUND PIPING OR EQUIPMENT
	DARK LINE INDICATES NEW PIPING & EQUIPMENT
	DARK DASHED LINES INDICATE EXISTING PIPING & EQUIPMENT TO BE REMOVED (FLOOR PLANS & SECTIONS)
	DASHED LINES INDICATE EXISTING PIPING & EQUIPMENT TO BE REMOVED (DEMOLITION DETAILS & FLOW DIAGRAMS)

**NOTE:**  
LINEWEIGHTS ARE GENERAL GUIDES ONLY. REFER TO DRAWING NOTES AND WORK PHASES (DEMO OR NEW) FOR ADDITIONAL DISTINCTIONS.

NOTE: SYMBOLS AND ABBREVIATIONS ON THE DRAWINGS ARE TO BE

WALL HYDRANT SCHEDULE				
#	MANUFACTURER	MODEL #	SIZE	NOTES
HB-1	WOODFORD	MODEL 24	3/4"	②
HB-2	WOODFORD	MODEL B22	1/2"	PROVIDE WITH CHROME FINISHED BOX
FPWH-1	JAY R. SMITH	MODEL 5519	3/4"	AUTO DRAINING, VACUUM BREAKER, LOOSE - TEE KEY ①
NOTES: ① VERIFY WALL THICKNESS. ② LOCATED IN MECHANICAL ROOM				

WATER HAMMER ARRESTER SIZING CHART		
SYMBOL	FIXTURE UNIT RATING	CONNECTION TO SUPPLY PIPE
WHA-1	1-11	3/4"
WHA-2	12-32	1"
WHA-3	33-60	1"
WHA-4	61-113	1"

PLUMBING FIXTURES ⑤																				
#	FIXTURE	MFR	MODEL #	MOUNTING	MATERIAL	SIZE	MFR & MODEL# OF FAUCET & VALVE	DRAIN	CARRIER	TRAP	ACCESSORIES	W	V	HW	CW	STOPS	GAS	CA	TEMP	NOTES
P1	ADA WATER CLOSET	AMERICAN STANDARD	MADERA 3481.001	FLOOR	VITREOUS CHINA	ELONGATED BOWL	SLOAN ROYAL 111-1.6-TP	-	-	INTEGRAL	TOILET SEAT	4"	2"	-	1"	INTEGRAL	-	-	-	②③
P2	ADA LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	WALL	VITREOUS CHINA	20"x18"	CHICAGO 3512-4E2805AB	ELKAY LKAD174	JAY R. SMITH 0700 SERIES	1 1/4"x17GA C.P.	-	1 1/2"	1 1/2"	1/2"	1/2"	BRASS CRAFT STCR1915A	-	-	-	①②③
P3	SINK	ELKAY	SS81242	FLR/WALL	STAINLESS STEEL	24"x24"x14"	CHICAGO 943-317CP	ELKAY LK99	-	1 1/2"x17GA C.P.	-	1 1/2"	1 1/2"	1/2"	1/2"	BRASS CRAFT STCR1920A	-	-	-	③
P4	MOP SINK	ACORN	TDF-32TF2	FLOOR	TERRAZZO	32"x32"x12"	CHICAGO #897-CP	INTEGRAL	-	3"C.I.	MOP HANGER & HOSE HOOK	3"	2"	3/4"	3/4"	INTEGRAL	-	-	-	③
P5	BOTTLE FILLER/ WATER COOLER	ELKAY	LVRC8WSK	SURFACE	STAINLESS STEEL	SINGLE HEIGHT	INTEGRAL	INTEGRAL	-	1 1/4"x17GA C.P.	-	1 1/2"	1 1/2"	-	1/2"	BRASS CRAFT TO SUIT	-	-	-	②④
P6	ADA SHOWER	AQUATIC	1363-BFS	FLOOR	FIBERBLASS	38"x38"x77"	LEANORD 76-3A-F	INTEGRAL	-	1 1/2"POLY P-TRAP	VINYL FLEXIBLE DAM	2"	2"	3/4"	3/4"	INTEGRAL	-	-	-	②③
NOTES: ① PROVIDE WITH PLUMBEREX TRAP & SUPPLIES WRAP KIT. ② MOUNT PER ADA REQUIREMENTS. ③ CAULK FIXTURE AT FLOOR, COUNTERTOP AND/OR WALL SURFACE WITH CAULKING. ④ ELECTRICAL LOAD: 115V, 60 HZ, 2.8 AMPS PROVIDE WITH INTEGRAL FACTORY MOUNTED WATER FILTER ⑤ PROVIDE WITH MODEL G3700LF TMV MOUNTED IN WALL WITH RECESSED VALVE BOX ADJACENT TO SHOWER. ⑥ PLEASE NOTE THAT THIS IS PLUMBING FIXTURE EQUIPMENT SCHEDULE ONLY. WHILE IT MAY INDICATE TO MOUNT SOME FIXTURES PER ADA REQUIREMENTS, THE EXACT FIXTURE MOUNTING LOCATION AND ELEVATIONS SHALL BE DETERMINED BY THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.																				

WATER HEATER SCHEDULE											
#	MFR	MODEL	GALLONS	BTUH INPUT	TEMPERATURES OUTLET (°F)	RISE (°F)	RECOVERY (GPH)	TANK FLUE #/ SIZE (")	FUEL	ELECTRICAL	NOTES
WH-B1	A.O.SMITH	HPTV-66	68	-	120	80	76	-	-	120V60HZ/1Ø	①②③
DET-B1	AMTROL	ST-12	4.4	-	-	-	-	-	-	-	-
NOTES: ① 15 AMP CIRCUIT ② 3.2 UEF ③ R-513A REFRIGERANT											

DOMESTIC HOT WATER RECIRCULATION PUMPS												
#	MFR	MODEL #	TYPE	SERVICE	FLOW (GPM)	HEAD (FT)	RPM	ELECTRICAL				NOTES
								HP	V	PHASE	HZ	
RCP-B1	B&G	XL N 20-35	IN-LINE	HW WATER RECIRC	2	15	VARIES	1/12	115	1	60	①②
NOTE: ① LOCATED IN MECHANICAL ROOM. ② STAINLESS STEEL CONSTRUCTION.												

THERMOSTATIC MIXING VALVE							
#	MFR	MODEL #	PRESSURE DROP (PSI)	FLOW RATE (MIN. GPM)	VALVE SIZE (INLET/OUTLET)	SET TEMP.	NOTES
TMV-B1	BRADLEY	S59-3045-H-P-SS	5 @ 12.5 GPM	.5	3/4"x1"	120°	①②
NOTE: ① PROVIDE WITH STSTL SURFACE MOUNTED CABINET. ② PROVIDE WITH HIGH THERMOSTAT							

BACKFLOW PREVENTION DEVICES						
#	MANUFACTURER	MODEL #	SIZE	SERVICE	ACCESSORIES	NOTES
BFP-B1	WATTS	#LF009 SERIES	2"	DOMESTIC WATER	-	①
BFP-B2	WATTS	#LF009 SERIES	2"	DOMESTIC WATER	-	①
NOTES: ① PROVIDE WITH AIR GAP FITTING AND DRAIN UNDIMINISHED IN SIZE TO FLOOR DRAIN.						

FLOOR DRAIN SCHEDULE									
#	MFR	MODEL	TYPE	BODY		STRAINER/GRATE		VARIATION	NOTES
				STYLE	MATERIAL	STYLE	MATERIAL		
FD-1	JAY R. SMITH	2005Y-A-P-U	FLOOR DRAIN	-	CAST IRON	VANDEL-PROOF ROUND	NICKEL BRONZED	TRAP PRIMER	①
FS-1	JAY R. SMITH	3120Y-12	FLOOR SINK	-	CAST IRON	-	NICKEL BRONZED	TRAP PRIMER	①②
NOTE: ① PROVIDE WITH SUFFIX -C WHEN LOCATED IN MECHANICAL ROOMS AND SIMILAR SPACES. ② INSTALL FLOOR SINK GRATES FLUSH TO FINISH FLOOR IN MECHANICAL SPACES AND KITCHENS									

PRESSURE REDUCING VALVES							
#	MFR	MODEL #	PRESSURE REDUCTION SETTING	VALVE SIZE	FALL-OFF PRESSURE	MAX GPM	NOTES
PRV-B 1	CLA-VAL	90-48	10 PSI	1"	-	210 GPM	①②
NOTES: ① PROVIDE WITH BRONZE STRAINER AND STAINLESS STEEL SCREEN ② PROVIDE WITH LOW FLOW BY-PASS INTEGRAL TO VALVE							

TRAP PRIMER VALVE SCHEDULE						
#	MANUFACTURER	MODEL #	SERVICE	ACCESSORIES	ELECTRICAL	NOTES
TPV-1	PPP	SP-500-24V	TRAP PRIMER	-	24V	②③
TPV-2	PPP	PTS-8-EMS-24V	TRAP PRIMER	-	24V	①②
NOTES: ① PROVIDE TO SERVE 2 TO 8 DRAINS OR FLOOR SINKS. PROVIDE MC500 OUTLETS CAPS WHERE NEEDED TO CAP UN-USED MANIFOLD OUTLETS. ② INTERLOCK WITH BUILDING EMCS BY DIV 23. ③ PROVIDE ONE TRAP PRIMER PER FLOOR DRAIN /SINK UNLESS NOTED OTHERWISE ON PLANS.						



STUDIO+ ARCHITECTS  
 9 S WASHINGTON ST, SUITE 518  
 SPOKANE, WA 99201



DNR OMAK FIRE CENTER BUILDING B WORK CENTER  
 OMAK, WA 98841

DRAWN BY RID  
 CHECKED BY NJJ  
 JOB NUMBER 231102

REVISIONS

DATE  
 07.26.2024

SHEET NAME  
 BLDG B - PLUMBING SCHEDULES

SHEET  
 P0.02B



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING B  
WORK CENTER  
OMAK, WA 98841

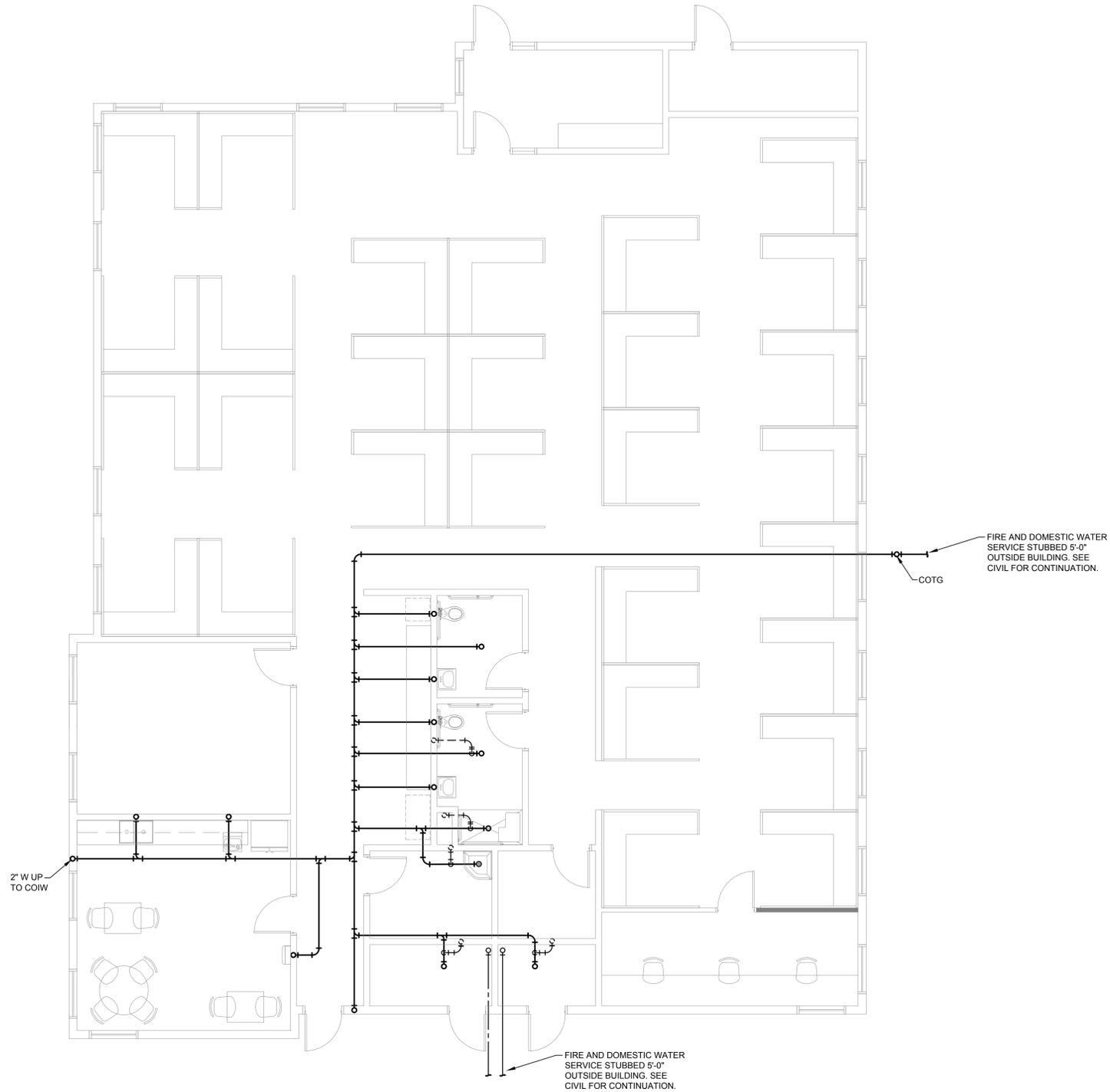
DRAWN BY  
RID  
CHECKED BY  
NJJ  
JOB NUMBER  
231102

REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG B -  
FOUNDATION  
-  
PLUMBING

SHEET  
P3.30B



**1 BUILDING B - FOUNDATION - PLUMBING**  
Scale: 3/16" = 1'-0"

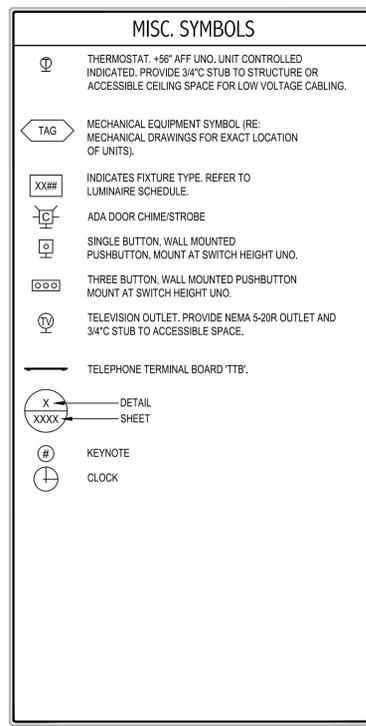
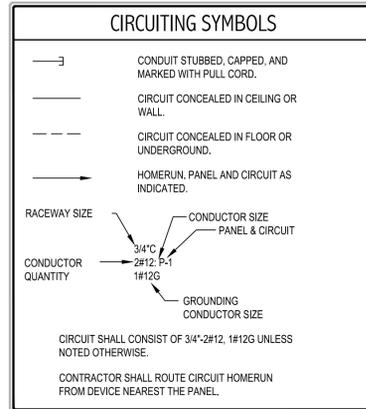




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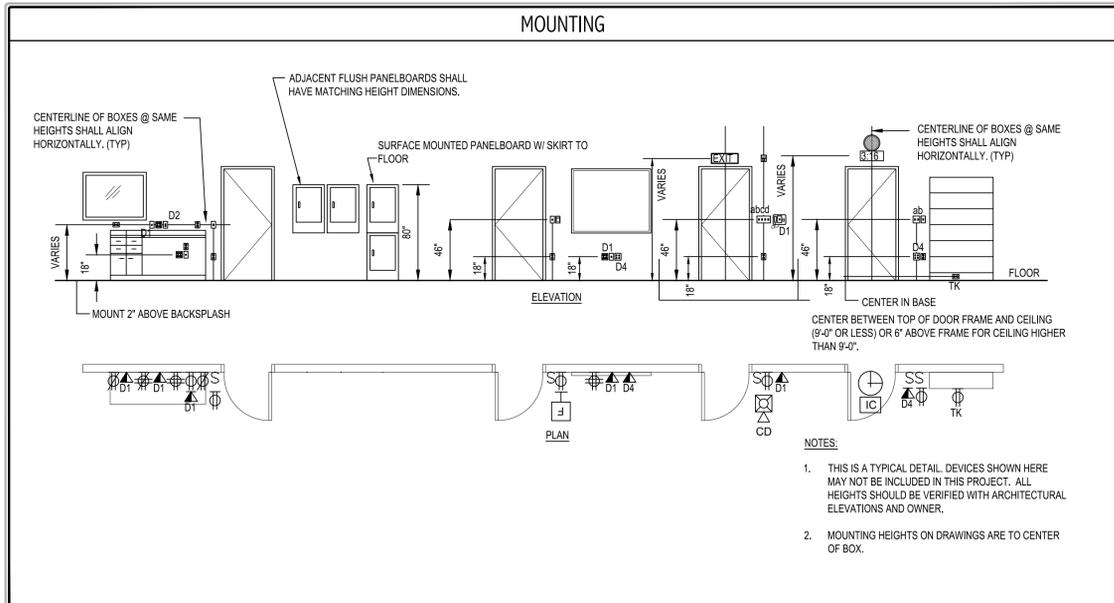
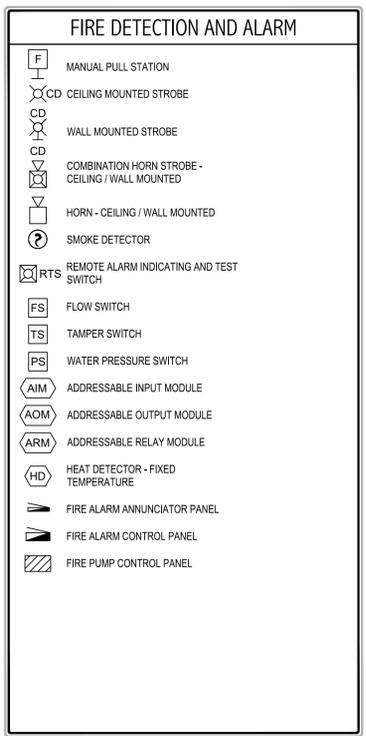
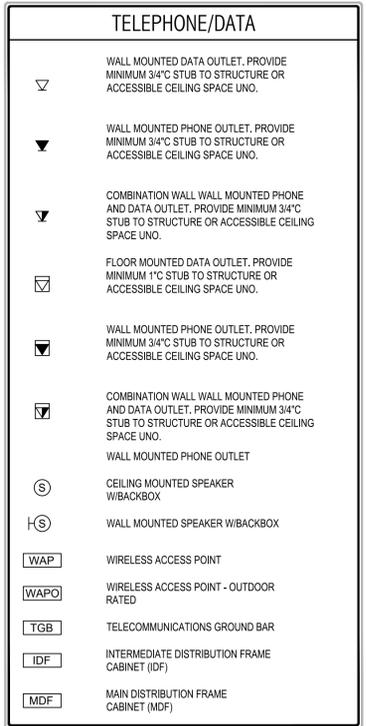
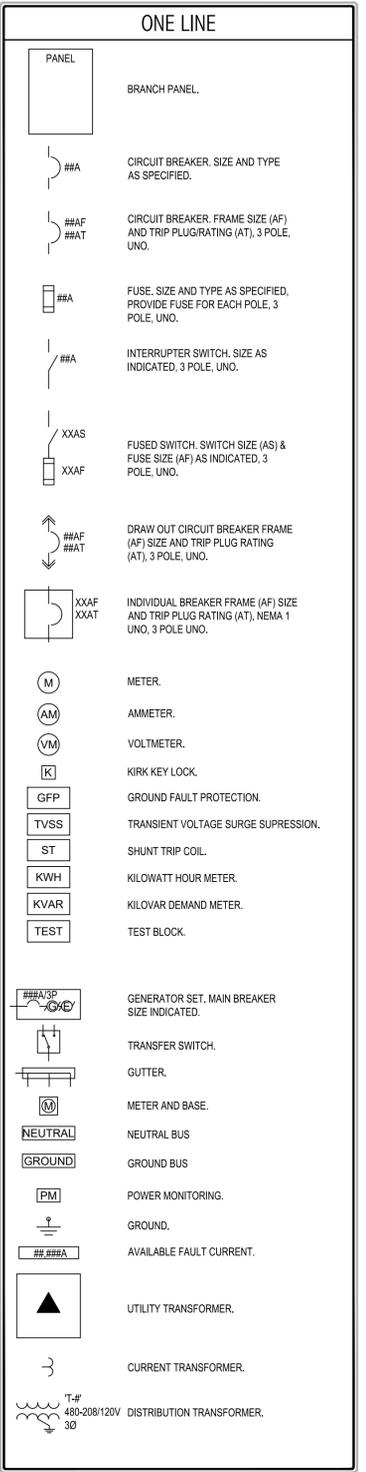
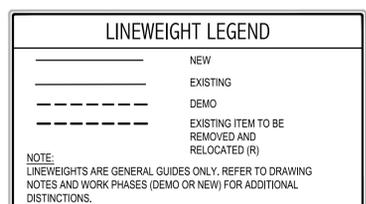
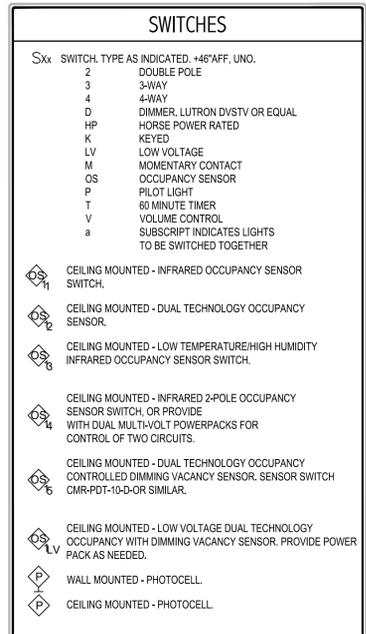
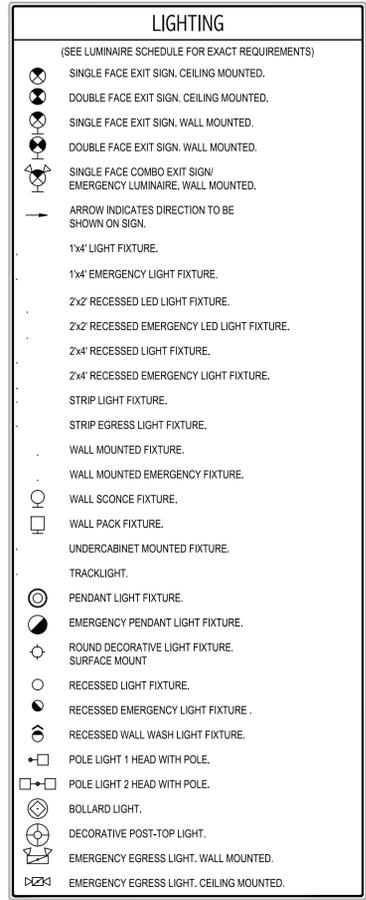
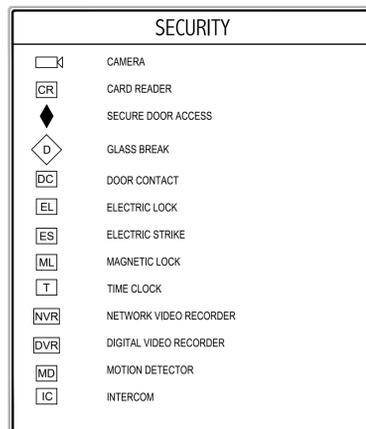
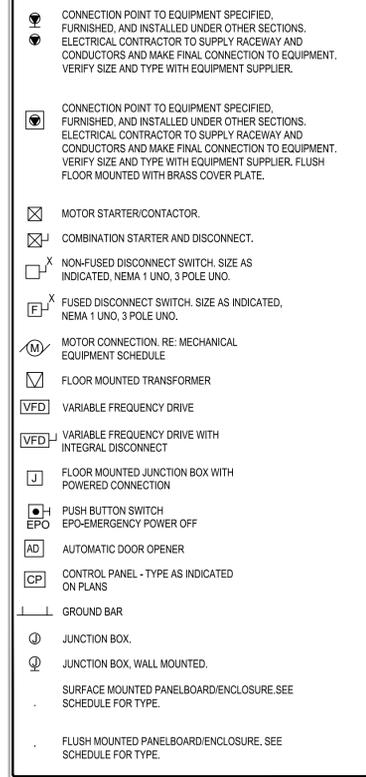
### ABBREVIATIONS

(E)	EXISTING	M	MAGNETIC CONTACTOR COIL
(D)	DEMOLISH	MAU	MAKEUP AIR UNIT
(F)	FUTURE	MAX	MAXIMUM
(R)	RELOCATED	MB	MAIN BREAKER
(RE)	REPLACED	MCA	MINIMUM CIRCUIT AMPACITY
A	AMPERES	MCB	MAIN CIRCUIT BREAKER
AC	ABOVE COUNTER	MCC	MOTOR CONTROL CENTER
ADA	AMERICANS WITH DISABILITIES ACT	MCM	THOUSAND CIRCULAR MILS
AF	AMPERE FRAME	MCP	MOTOR CIRCUIT PROTECTOR
AFC	AVAILABLE FAULT CURRENT	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
AHU	AUTHORITY HAVING JURISDICTION	MISC	MISCELLANEOUS
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	MLO	MAIN LUGS ONLY
AS	AMP SWITCH	MOC	MAXIMUM OVERCURRENT PROTECTION
AT	AMP TRIP	MS	MOTOR STARTER
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
AVG	AVERAGE	MW	MICROWAVE
AWG	AMERICAN WIRE GAUGE	N	NEUTRAL
BAS	BUILDING AUTOMATION SYSTEM	NC	NORMALLY CLOSED
BFG	BELOW FINISHED GRADE	NCL	NON CRITICAL LOAD
BMS	BUILDING MANAGEMENT SYSTEM	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NO	NORMALLY OPEN
CL	CRITICAL LOAD	NTS	NOT TO SCALE
CM	CEILING MOUNTED	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
CO	CONDUIT ONLY, PROVIDE PULL-LINE	OL	OVERLOAD
CT	CURRENT TRANSFORMER	OS	OCCUPANCY SENSOR
DC	DIRECT CURRENT	P	POLE
DET	DETAIL	PC	PHOTOCELL
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE
E	EMERGENCY/CRITICAL CARE	RCP	REFLECTIVE CEILING PLAN
EF	EXHAUST FAN	RCPT	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	REF	REFRIGERATOR
ENT	ELECTRICAL NON-METALLIC TUBING	RE:	REFER TO
EPO	EMERGENCY POWER OFF	RGS	RIGID GALVANIZED STEEL
EW	ELECTRIC WATER COOLER	RIB	RELAY IN A BOX
EWV	ELECTRIC WATER HEATER	SER	SERVICE ENTRANCE RATED
F	FUSE	SF	SQUARE FOOT
FA	FIRE ALARM	SPD	SURGE PROTECTION DEVICE
FACP	FIRE ALARM CONTROL PANEL	SPST	SINGLE POLE SINGLE THROW
FLA	FULL LOAD AMPS	TC	TIME CLOCK
FSD	FIRE SMOKE DAMPER	TOR	TIME DELAY RELAY
FVNR	FULL VOLTAGE NON-REVERSING	TJB	TERMINAL JUNCTION BOX
G	GROUND	TK	TOE KICK
GND	GROUND	TP	TWISTED PAIR
GFI	GROUND FAULT INTERRUPTION	TT	TWISTED TRIAD
GFCI	GROUND FAULT CIRCUIT INTERRUPTION	TSP	TWISTED SHIELDED PAIR
GFP	GROUND FAULT PROTECTION	TST	TWISTED SHIELDED TRIAD
H	HEAT	TTB	TELEPHONE TERMINAL BOARD
HH	HANDHOLE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL
HOA	HAND OFF AUTO	UH	UNIT HEATER
HP	HORSE POWER	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING, VENTILATING, & AIR CONDITIONING	UPS	UNINTERRUPTIBLE POWER SYSTEM/SUPPLY
IC	INTERRUPTING CAPACITY	USB	UNIVERSAL SERIAL BUS
ID	IN-DUCT/INTER-DUCT	USB-C	UNIVERSAL SERIAL BUS TYPE C
IG	ISOLATED GROUND	V	VOLT
J/B	JUNCTION BOX	VA	VOLT AMPERE
KVA	KILOVOLT AMPERES	WG	PROVIDE PROTECTIVE WIRE GUARD
KW	KILOWATT	WU	WHILE IN USE
KWH	KILOWATT HOUR	WP	WEATHER PROOF/NEMA 3R
LF	LINEAR FEET	XFMR	TRANSFORMER
LTG	LIGHTING		
LTS	LIGHTS		



### POWER SYMBOLS

TYPE OF DEVICE		DESCRIPTION			
STANDARD	WITH GFCI	WITH SWITCHED	WITH USB	WITH ISOLATED GND	
⊕					SIMPLEX NEMA 5-20A OUTLET, +18" AFF UNO.
⊕					SIMPLEX NEMA 5-20A OUTLET, MTD ABOVE COUNTER UNO.
⊕					DUPLEX NEMA 5-20A OUTLET, +18" AFF UNO.
⊕					DUPLEX NEMA 5-20A OUTLET, MTD ABOVE COUNTER UNO.
⊕					DUPLEX NEMA 5-20A OUTLET, FLUSH FLOOR MTD WITH BRASS COVER PLATE UNO.
⊕					DUPLEX NEMA 5-20A OUTLET, CEILING MTD UNO.
⊕					FOURPLEX NEMA 5-20A OUTLET, +18" AFF UNO.
⊕					FOURPLEX NEMA 5-20A OUTLET, MTD ABOVE COUNTER UNO.
⊕					FOURPLEX NEMA 5-20A OUTLET, FLUSH FLOOR MTD WITH BRASS COVER PLATE UNO.
⊕					FOURPLEX NEMA 5-20A OUTLET, CEILING MTD UNO.



STUDIO+ ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



DNR OMAK FIRE CENTER BUILDING B WORK CENTER  
OMAK, WA 98841

DRAWN BY AMZ  
CHECKED BY BMJ  
JOB NUMBER 231102

REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG B - LEGENDS, NOTES & ABBREV.

SHEET

E0.01B

NOTE: SYMBOLS AND ABBREVIATIONS ON THE DRAWINGS ARE TO BE INTERPRETED IN ACCORDANCE WITH THE LEGENDS ON THIS SHEET. NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED ON THIS SHEET ARE NECESSARILY USED FOR THIS PROJECT.

### GENERAL NOTES

- REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, AND ALL OTHER STATE AND LOCAL CODES. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER IN WRITING IF PORTIONS OF THE DESIGN SET OR FIELD CONDITIONS DO NOT MEET REQUIRED CODES.
- FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DEPICTED FROM THE PLANS AND SPECIFICATIONS. COMPLETE AS NOTED OR IMPLIED, NOT LIMITED TO WHAT IS SHOWN. IF THERE APPEARS TO BE ANY ITEMS IN CONFLICT WITH THE DRAWINGS, INCONSISTENCIES WITH DESIGN OR INTENT, OR NEED FOR CLARIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY THESE ITEMS PRIOR TO BID IN WRITING WITH THE ENGINEER. IF THE CONTRACTOR FAILS TO CLARIFY ANY QUESTIONS OR INCONSISTENCY, HE ACCEPTS RESPONSIBILITY TO CORRECT AT HIS COST ANY SUCH ITEM TO MEET INTENT AS DEFINED BY THE ENGINEER.
- IT IS THE INTENT OF THE ELECTRICAL CONTRACT DOCUMENTS THAT ALL ELECTRICAL SYSTEMS ARE INSTALLED COMPLETE, TESTED, AND READY FOR OPERATION. WHETHER OR NOT EVERY ITEM OF EQUIPMENT, DEVICE, BOX, ETC... IS SHOWN ON THE PLANS.
- ALL DRAWINGS ARE SCHEMATIC IN NATURE AND ALL APPURTENANCES NOT INDICATED TO MAKE A WORKING SYSTEM MUST BE INCLUDED IN THE CONTRACTOR'S BID. LOCATIONS OF ALL DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, ELEVATIONS, CASEWORK, AND SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.
- ELECTRICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPY OF FINAL INSPECTION REPORT TO THE OWNER.
- SEAL ALL PENETRATIONS IN FIRE RATED WALLS, FLOORS, AND CEILINGS WITH A U.L. APPROVED FIRE STOP SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO ELECTRICAL DEVICE, RACEWAY, AND CABLE PENETRATIONS. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FIREWALL LOCATIONS/DESIGNATIONS.
- ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC. MOUNTED IN THE FIRE RATED CEILINGS OR WALL SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALLS BY THIS CONTRACTOR. ALL FIRE RATED WALLS TO MAINTAIN ORIGINAL FIRE RATINGS.
- ALL WIRING DEVICES SHALL BE OF THE SAME MANUFACTURER AND SHALL MATCH THROUGHOUT. VERIFY WITH SPECIFICATIONS AND OWNER/ARCHITECT FOR DEVICE COLOR(S) & FINISHES.
- COLOR CODE WIRES AS FOLLOWS:

CONDUCTORS	120/208V	277/480V
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	WHITE OR GRAY
GROUND	GREEN	GREEN
- ALL WIRE SIZE #8 OR LARGER SHALL BE STRANDED TYPE THHN/THWN, ALL WIRE #10 OR SMALLER TO BE SOLID TYPE. MINIMUM SIZE #12 UNLESS OTHERWISE INDICATED.
- PROVIDE A GROUND CONDUCTOR IN ALL RACEWAYS.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- PROVIDE MINIMUM 220 LB PULL STRING IN ALL EMPTY RACEWAYS.
- PROVIDE ALL EXPANSION FITTINGS, PITCH POCKETS, EQUIPMENT SUPPORTS, AND ACCESS DOORS AS REQUIRED FOR ELECTRICAL WORK.
- ALL CONDUIT RUNS USING PVC CONDUIT SHALL USE RGD OR IMC FOR ANY BEND OVER 45 DEGREES AND ALL 90 DEGREE ELBOWS.
- ALL UNDERGROUND CONDUITS SHALL BE MINIMUM OF 1" CONDUIT THROUGHOUT UNDERGROUND SYSTEM UNLESS OTHERWISE INDICATED.
- ALL CONDUIT PENETRATING SLAB IN EXPOSED LOCATIONS SHALL BE RIGID STEEL.
- CATALOG NUMBERS USED IN SYMBOLS LIST AND FIXTURE SCHEDULE ARE TO BE AS NOTED OR APPROVED EQUALS. MAINTAIN SPECIFIED GRADE.
- THE CONTRACTOR SHALL ENSURE THAT THE ENTIRE ELECTRICAL SYSTEM ASSOCIATED WITH THIS PROJECT IS GROUNDED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ARTICLE 250 OF THE N.E.C.
- DO NOT CUT OR ALTER STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED LISTING AGENCY.
- ALL RACEWAYS IN FINISHED SPACES SHALL BE CONCEALED.
- ALL CONDUIT AND RACEWAY SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE, AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, CEILINGS, OR FLOORS.
- PROVIDE METALLIC RACEWAY FOR WIRING RUNNING THROUGH WALLS, FLOOR, AND CEILINGS. ALL WIRING AND CABLEING NOT INSTALLED IN METALLIC RACEWAYS SHALL BE PLENUM RATED.
- EACH TRADE CONTRACTOR IS RESPONSIBLE FOR SUSPENDED SUPPORTS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL SUB-CONTRACTORS SHALL COORDINATE WITH EACH OTHER FOR ELEVATION PRIORITY PLACEMENT OF GRADED PIPES, LARGE DUCTWORK, EQUIPMENT, CONDUIT, FIRE PROTECTION, AND LIGHTING.
- IF THERE APPEAR TO ANY ITEMS IN CONFLICT WITH THE DRAWINGS, INCONSISTENCIES WITH DESIGN OR INTENT, OR NEED FOR CLARIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY THESE ITEMS PRIOR TO BID IN WRITING WITH THE DESIGN TEAM/ENGINEER.

### GENERAL NOTES - LIGHTING

- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF EXTERIOR LUMINAIRES.
- REFER TO ARCHITECTURAL PLANS TO DETERMINE PENDANT LENGTH AND ELEVATIONS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF INTERIOR LUMINAIRES AND MOUNTING HEIGHTS.
- COORDINATE THE FINAL LOCATION OF LUMINAIRES IN MECHANICAL ROOMS AND ATTIC SPACES TO AVOID CONFLICTS WITH DUCT WORK, PIPING, AND MECHANICAL EQUIPMENT.
- ALL LUMINAIRES SHALL BE INSTALLED IN COMPLIANCE WITH NEC ARTICLE 410.
- ROUTE ALL EXTERIOR LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
- INSTALL AND WIRE REMOTE DRIVERS. REFER TO LUMINAIRE SCHEDULE. MOUNT IN ACCESSIBLE LOCATIONS. SHOW LOCATIONS ON THE AS-BUILT DRAWINGS.
- PROVIDE UN-SWITCHED PHASE CONDUCTOR TO ALL EXIT SIGNS AND INDICATED LUMINAIRES.
- PROVIDE UNSWITCHED 'CHARGING' CIRCUIT TO ALL BATTERY BACKED FIXTURE(S)
- ALL SWITCHES TO BE 20 AMP 277 VOLT SPECIFICATION GRADE.
- NUMBER ADJACENT TO LIGHT FIXTURE INDICATES PANEL AND POLE/CIRCUIT POSITION DEVICE TO BE CIRCUITED TO. PROVIDE MINIMUM 2#12 AWG & 1#12 AWG GND CU IN 3/4" UNLESS NOTED OTHERWISE. CONDUCTOR(S) AND GROUND TO BE INCREASES TO #10 AWG FOR CIRCUIT LENGTH GREATER THAN 100'.
- LOWER CASE LETTER 'X' NEXT TO SWITCH/LIGHT FIXTURE INDICATES SWITCHING INTENTION.
- EMERGENCY LIGHTING SYMBOLS ARE SHADED ON THE LIGHTING PLANS. EMERGENCY SOURCE SHALL BE BATTERY BACKED BALLAST WITH MINIMUM OF 1400 LUMEN OUTPUT FOR A 90 MINUTE PERIOD, UNLESS NOTED OTHERWISE. PROVIDE UNSWITCHED CONDUCTORS FOR CHARGING CIRCUIT AS REQUIRED.
- LUMINAIRE SCHEDULE INDICATES BASIS OF DESIGN. ALL OTHER MANUFACTURERS AND SUBSTITUTION(S) MUST MEET OR EXCEED ALL REQUIREMENTS OF THE BASIS OF DESIGN. FIXTURE(S) TO BE CONSIDERED 'EQUAL'. SEE LUMINAIRE SCHEDULE.
- ALL CUSTOM COLOR AND FINISHES TO BE CONFIRMED WITH ARCHITECT/OWNER PRIOR TO PURCHASE.
- ALL FIXTURE(S) TO BE LED TYPE UNLESS NOTED OTHERWISE.
- UNDER COUNTER LIGHT LUMINAIRE LENGTH TO BE VERIFIED WITH ARCHITECTURAL ELEVATIONS AND CASEWORK PRIOR TO PURCHASE INSTALLATION.
- ALL ADJUSTABLE LUMINAIRES TO AIMED AS DIRECTED BY THE OWNER/ARCHITECT.
- PROVIDE ADDITIONAL SWITCH LEGS, TRAVELERS, GROUNDS, NEUTRALS, ETC. TO FACILITATE CONTROL OF LIGHTING FIXTURES TO MEET THE INTENT OF THE DESIGN.
- PROVIDE CLASS 2 WIRING BETWEEN ALL LIGHT FIXTURE(S) AND CONTROL DEVICES TO FACILITATE NECESSARY LIGHTING CONTROL.
- ALL FIXTURES WITHIN A GIVEN ROOM/AREA ARE OF THE SAME TYPE INDICATED UNLESS NOTED OTHERWISE.

### GENERAL NOTES - SINGLE/ONE LINE

- FEEDERS ARE COPPER UNLESS NOTED OTHERWISE.
- MINIMUM SHORT CIRCUIT RATING TO BE 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS.
- THE ONE-LINE DIAGRAM IS DIAGRAMMATIC, AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- ALL BUSSING SHALL BE FULLY RATED.
- ALL TRANSFORMERS ARE 480V, 3 PHASE, 3-WIRE PRIMARY; 208Y/120V, 3 PHASE, 4-WIRE SECONDARY; NEMA TP-1 RATED, U.O.N.
- ALL DISTRIBUTION TRANSFORMERS SHALL BE K-4 AND NEMA TP-1 RATED UNLESS NOTED OTHERWISE.
- NOT ALL CIRCUIT BREAKERS MAY BE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.
- PROVIDE SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDY TO INCLUDE ALL OVERCURRENT DEVICES, SET OVERCURRENT DEVICE SETTINGS AS INDICATED BY STUDY. PROVIDE ARC FLASH LABELS AS INDICATED BY STUDY.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 240.21. PROVIDE ADDITIONAL OVERCURRENT PROTECTIONS AS REQUIRED/NEEDED.
- FAULT CURRENT INFORMATION WAS UNAVAILABLE AT TIME OF DESIGN. FAULT CURRENT CALCULATIONS ARE BASED ON AN INFINITE BUS WITH A \_\_\_\_\_ KVA, \_\_\_\_\_ V, 3-PHASE, TRANSFORMER WITH \_\_\_\_\_% IMPEDANCE AND COPPER CONDUCTOR(S). CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT FROM SERVING UTILITY AND NOTIFY ENGINEER OF RECORD PRIOR TO PURCHASE OF ANY ELECTRICAL PANELS/SWICHBOARDS.

### GENERAL NOTES - POWER

- OUTLETS AND DEVICES SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMAL LATERAL SEPARATION OF 12" OR (1) STUD SPACE.
- NUMBER ADJACENT TO DEVICE/RECEPTACLE INDICATES PANEL AND POLE/CIRCUIT POSITION DEVICE TO BE CIRCUITED TO. PROVIDE MINIMUM 2#12 AWG & 1#12 AWG GND CU IN 3/4" UNLESS NOTED OTHERWISE. CONDUCTOR(S) AND GROUND TO BE INCREASES TO #10 AWG FOR CIRCUIT LENGTH GREATER THAN 100'.
- LOCATIONS OF WALL MOUNTED DEVICES ARE SHOWN SCHEMATICALLY AND ARE NOT DIMENSIONED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, ELEVATIONS, AND CASEWORK/EQUIPMENT SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
- CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION(S) OF ELECTRICAL EQUIPMENT, DISCONNECTS, J-BOXES, ETC. CONTRACTOR TO COORDINATE ROUTING OF ALL FEEDERS, CONDUITS, CONDUCTORS, ETC. WITH FIELD CONDITIONS.
- ALL WORKING SPACE CLEARANCES AND EGRESS ABOUT ELECTRICAL PANELS, SWITCHGEAR, ETC. SHALL COMPLY WITH NEC ARTICLE 110.26 AND ALL LOCAL CODES.
- MECHANICAL EQUIPMENT POWER CONTROL DEVICES (STARTERS, COMBINATION STARTERS, VFDS, ETC.) AND UNIT DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE EQUIPMENT SCHEDULE OR PLANS.
- SEE MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT. CONTRACTOR MUST COORDINATE WITH DIV 22/23 FOR ALL MECHANICAL PLUMBING EQUIPMENT.
- DESIGN OF ELECTRICAL REQUIREMENTS IS BASED ON MECHANICAL EQUIPMENT SPECIFIED DURING DESIGN. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR IF EQUIPMENT PURCHASED IS DIFFERENT FROM THAT SPECIFIED THAT STILL MEETS DESIGN INTENT, INCLUDING BUT NOT LIMITED TO OVER-CURRENT PROTECTION, LOCAL DISCONNECTING MEANS, AND WIRE SIZING. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES/CHANGES.
- PRIOR TO ORDERING EQUIPMENT OR ROUGH-IN, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ESTABLISH THE ACTUAL LOAD AND OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT. CIRCUITING, FUSING, DISCONNECT(S), ETC. MODIFICATIONS MAY BE REQUIRED TO MEET EQUIPMENT MANUFACTURER'S REQUIREMENTS AND NAMEPLATE.
- PRIOR TO ROUGH-IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE WITH THE EQUIPMENT MANUFACTURER TO ESTABLISH ALL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
- MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.
- LABEL ALL RECEPTACLE FACE PLATES WITH PANEL AND CIRCUIT NUMBER. LABEL CAN BE PLACED ON THE INSIDE OF FACE PLATES.
- PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, DISCONNECT SWITCHES, WIRING GUTTERS, VFDS, SWITCHBOARDS, PANELBOARDS, ETC. TO IDENTIFY EQUIPMENT OR EQUIPMENT SERVED. LABELS SHALL BE 1/8" THICK OF PHENOLIC MATERIAL, MACHINE ENGRAVED.
- ALL RECEPTACLES TO BE TAMPER RESISTANT PER NEC 406.12.
- CONTROLLED RECEPTACLES TO BE UNIQUELY IDENTIFIED PER NEC 406.

### GENERAL NOTES - LOW VOLTAGE

- OUTLETS AND DEVICES SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMAL LATERAL SEPARATION OF 12" OR (1) STUD SPACE.
- PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS, AND CEILING.
- PROVIDE ST1 'EZ-PATH 44+' ASSEMBLIES(OR APPROVED EQUAL) AT EACH LOCATION WHERE LOW VOLTAGE WIRING PENETRATES A RATED WALL OR CEILING.
- ALL COMMUNICATION/DATA CONDUIT AND CONDUIT STUBS SHALL BE MINIMUM 1" UNLESS NOTED OTHERWISE.
- ALL LOW VOLTAGE WIRING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.
- PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING. SEE SPECIFICATIONS, QUANTITY AND SIZE OF RACEWAYS SHOWN ON PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS REQUIRED.
- MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.
- PROVIDE ALL RACEWAYS AND WIRING REQUIRED TO INSTALL ELECTRONIC DOOR HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS, SCHEDULES, AND DIAGRAMS.
- PROVIDE 3/4" FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF. MOUNT 8" DIMENSION VERTICAL. PAINT FLAT WHITE.

### GENERAL NOTES - UTILITY & SERVICE

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COORDINATION ASSOCIATED WITH THE SERVING UTILITY, INCLUDING BUT NOT LIMITED TO: TRENCHING, BACKFILL, CONDUIT(S), CONDUCTOR(S), TERMINATIONS, METERING REQUIREMENTS, CT-CAN, SERVICE DISCONNECT, COMPLETING AND SUBMITTING ALL NECESSARY APPLICATIONS FOR SERVICE.
- ELECTRICAL CONTRACTOR SHALL PAY ALL UTILITY CONNECTION CHARGES.
- OBTAIN ALL REQUIRED PERMITS AND EASEMENTS.
- CONDUCTOR(S) ARE COPPER UNLESS NOTED OTHERWISE.

### GENERAL NOTES - DEMOLITION

- COORDINATE DEMOLITION REQUIREMENTS WITH GENERAL CONTRACTOR OWNER PRIOR TO ANY DEMOLITION.
- THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.
- PROVIDE EXTENSION RINGS, COVER PLATES, OR ACCESS DOORS AS NECESSARY TO MAINTAIN ACCESS TO EXISTING WIRING, WHERE REQUIRED BY NEW CONSTRUCTION.
- WHERE 'ALL ELECTRICAL SYSTEMS' ARE NOTED TO BE REMOVED FROM AN AREA, REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, LOW-VOLTAGE, CONTROL(S), AND WIRING UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL ELECTRICAL EQUIPMENT DEMOLISHED UNLESS OTHERWISE NOTED TO BE RETURNED TO OWNER.
- REMOVE WIRE BACK TO OVERCURRENT PROTECTIVE DEVICE OR TO UPSTREAM DEVICE REMAINING. MAINTAIN CIRCUITING/CONTINUITY TO EXISTING DEVICES NOT AFFECTED BY DEMOLITION.
- MAINTAIN CIRCUIT CONTINUITY OF ALL EXISTING TO REMAIN RECEPTACLES AND LUMINAIRES.
- WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.
- EXISTING CONDUITS MAY BE REUSED IF POSSIBLE.
- ALL CONDUCTORS WILL BE REMOVED FROM ABANDONED CIRCUITS.
- PROVIDE EXTENSION RINGS, COVER PLATES, OR ACCESS DOORS AS NECESSARY TO MAINTAIN ACCESS TO EXISTING WIRING, WHERE REQUIRED BY NEW CONSTRUCTION.
- PROVIDE BLANK COVER PLATES ON JUNCTION BOXES WHICH ARE NOT REUSED.
- FIELD VERIFY EXISTING CIRCUITING AND MAKE ADJUSTMENTS AS NECESSARY TO THE CIRCUITING SHOWN ON THE PLANS, AS REQUIRED BY FIELD CONDITIONS.
- IF AN ITEM IS TO BE REPLACED, THE CONTRACTOR SHALL RECONNECT ALL EXISTING CONNECTIONS.
- ALL CONDUCTOR(S) TO BE REMOVED IN ABANDONED CONDUIT(S).
- PROVIDE UPDATED TYPED PANELBOARD SHEDULE(S) INDICATED 'SPARES' FOR REMOVED CIRCUITS.

### GENERAL NOTES - WSEC

- LIGHTING CONTROLS AND CONTROLS COMMISSIONING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH WASHINGTON STATE ENERGY CODE 'WSEC'.
- COMMISSIONING REQUIREMENTS: ALL LIGHTING CONTROLS INCLUDING DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES, THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT CERTIFYING ALL LIGHTING CONTROLS HAVE BEEN COMMISSIONED. INCLUDE CERTIFICATION IN O&M MANUAL.
- ALL LIGHTING CONTROLS TO MEET OR EXCEED THE LATEST ADOPTED WSEC. CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF DRAWINGS/PLANS DO NOT MEET OR EXCEED THE LATEST 'WSEC'.
- TRANSFORMERS: THE MINIMUM EFFICIENCY OF ALL LOW VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMERS SHALL BE THE CLASS 1 EFFICIENCY LEVELS FOR DISTRIBUTION TRANSFORMERS SPECIFIED IN TABLE 4-2 OF THE 'GUIDE FOR DETERMINING ENERGY EFFICIENCY FOR DISTRIBUTION TRANSFORMERS' PUBLISHED BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA TP-1, LATEST EDITION).

### GENERAL NOTES - SITE

- COORDINATE ROUTING OF UNDERGROUND RACEWAYS WITH ALL NEW AND EXISTING UTILITIES. REFER TO CIVIL DRAWINGS.
- CALL BEFORE YOU DIG. CONTRACT WITH A LOCATOR SERVICE TO MARK THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- ALL SITE LIGHTING CIRCUITS TO BE CONTROLLED VIA LIGHTING CONTROL PANEL.
- PROVIDE ALL REQUIRED CUTTING, PATCHING, EXCAVATION, COMPACTION, AND PATCHING FOR INSTALLATION OF UNDERGROUND RACEWAYS.
- BACKFILL ALL TRENCHES WITH STRUCTURAL BACKFILL PER SPECIFICATIONS.
- PROVIDE GLARE SHIELDS FOR ALL POLE MOUNTED LUMINAIRES.

### GENERAL NOTES - RENOVATION

- ALL EXISTING TO REMAIN DEVICES, FIXTURE(S), EQUIPMENT, ETC. OPERATIONAL PRIOR TO RENOVATION SHALL REMAIN OPERATIONAL AFTER RENOVATION. CONTRACTOR TO MAINTAIN CONTINUITY OF ALL LINE/LOW VOLTAGE CIRCUITING/CABLINGS. EXTEND CONDUIT, CONDUCTOR(S), CABLING, ETC. AS REQUIRED TO MAINTAIN CONTINUITY.
- ALL EXISTING SWITCHES AND DUPLEX RECEPTACLES IN THE AREA OF RENOVATION THAT ARE TO REMAIN AND BE RE-USED SHALL BE REPLACED IN PLACE WITH NEW RECEPTACLE(S), SWITCH(ES) AND FACEPLATES TO MATCH NEW DEVICES.
- EXISTING HOME RUN CONDUITS IN REMODELED AREAS TO BE RETAINED WHEREVER POSSIBLE. HOME RUN CONDUITS ARE TO BE EXTENDED TO NEW FIXTURE, OUTLET, OR SWITCH LOCATION AND NEW WIRING PULLED INTO PANEL.
- ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS, AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL, AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK.
- EXISTING CONDUIT MAY BE REUSED IF IN GOOD CONDITION. CONTRACTOR TO VERIFY CONDITION OF CONDUIT WHERE POSSIBLE. REUSED CONDUIT SHALL HAVE A SWAB PULLED PRIOR TO NEW CONDUCTORS BEING INSTALLED.
- EXACT LOCATION OF EXISTING EQUIPMENT MUST BE FIELD VERIFIED.
- ALL EXISTING EQUIPMENT CLEARANCES TO BE MAINTAINED AND MUST BE VERIFIED WITH ANY NEW EQUIPMENT TO BE INSTALLED.
- ALL EXISTING CIRCUITING FOR EQUIPMENT, RECEPTACLE(S), LIGHT FIXTURE(S), ETC. IN THE RENOVATION AREA SHALL BE VERIFIED. CONTRACTOR SHALL IDENTIFY/MARK EXISTING CIRCUIT/PANEL ON DEVICE/EQUIPMENT.
- CONSIDERABLE EFFORT HAS BEEN MADE TO VERIFY EXISTING CONDITIONS AND LOCATIONS OF EXISTING EQUIPMENT WITH AS-BUILT DRAWINGS AND SITE OBSERVATIONS. DISCREPANCIES MAY EXIST BETWEEN ACTUAL CONDITIONS AND PLANS. CONTRACTOR SHOULD VERIFY ALL EXISTING CONDITIONS FOR DISCREPANCIES IN THE PLANS. CONTRACTOR IS EXPECTED TO WORK THROUGH DISCREPANCIES WITH THE ASSISTANCE FROM THE BUILDING OWNER, ARCHITECT, AND ELECTRICAL ENGINEER.

### GENERAL NOTES - FIRE ALARM

- FIRE ALARM SYSTEM WIRING SHALL BE RUN IN CONTINUOUS METALLIC RACEWAYS AND SHALL BE LISTED FOR THE PURPOSE USED.
- PROVIDE FIRE ALARM SUPERVISORY CABLING AND CONNECTION TO FIRE SPRINKLER TAMPER, FLOW, AND PRESSURE SWITCH(ES). COORDINATE FINAL LOCATIONS WITH FIRE PROTECTION CONTRACTOR.
- PROVIDE ADDRESSABLE DETECTOR AT EACH FIRE/SMOKE DAMPER (FSD) AND SMOKE DAMPER (SD) LOCATION. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
- PROVIDE 3/4" A-C FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF AND EACH IDF. MOUNT 8" DIMENSION VERTICAL. PAINT FLAT WHITE.
- ALL EXTERIOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF.
- PROVIDE EXTERIOR FIRE ALARM HORN AND STROBE AT LOCATION DIRECTED BY FIRE MARSHALL.

### GENERAL NOTES - RESIDENTIAL

- PROVIDE ARC-FAULT CIRCUIT-INTERRUPTER CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS SERVING OUTLETS OF DEVICES IN RESIDENCE PER NEC 210.12.
- TYPICAL UNITS MAY BE IN MIRRORRED ORIENTATION FROM THOSE SHOWN ON THIS SHEET.
- RECEPTACLE AND RECEPTACLE SPACING REQUIREMENTS TO BE PROVIDED PER NEC 210.52 AT A MINIMUM.
- NM TYPE CABLE MAY BE UTILIZED AND SUBSTITUTED WHERE ALLOWED BY AHJ. SUBSTITUTION MUST BE CONFIRMED WITH ENGINEER OF RECORD AND OWNER PRIOR TO PURCHASE.
- SER TYPE CABLE MAY BE UTILIZED AND SUBSTITUTED WHERE ALLOWED BY AHJ AND SERVING UTILITY. SUBSTITUTION MUST BE CONFIRMED WITH ENGINEER OF RECORD AND OWNER PRIOR TO PURCHASE.



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING B  
WORK CENTER

OMAK, WA 98841

DRAWN BY  
AMZ

CHECKED BY  
BMJ

JOB NUMBER  
231102

REVISIONS

DATE

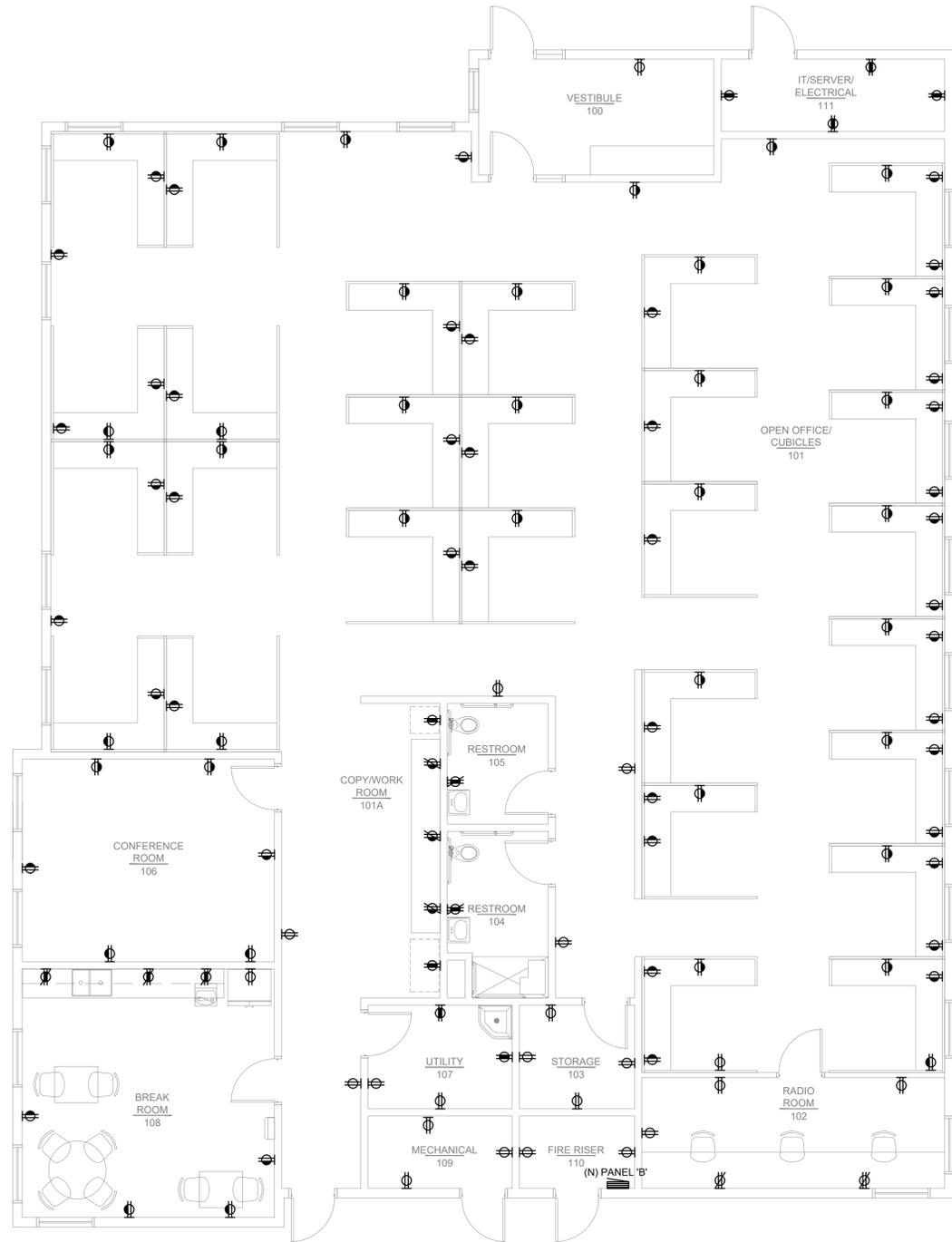
07.26.2024

SHEET NAME

BLDG B -  
GENERAL  
NOTES

SHEET

E0.02B



KEY NOTES	
1.	TBD

**1 BUILDING B - FLOOR PLAN - POWER**  
 Scale: 3/16" = 1'-0"



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 SPOKANE, WA 99201



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 FIRE CENTER  
 BUILDING B  
 WORK CENTER  
 OMAK, WA 98841

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SHEET NAME  
 BLDG B -  
 FLOOR  
 PLAN -  
 POWER

SHEET  
 E1.01B

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SHEET NAME  
BLDG B -  
ROOF  
PLAN -  
ELEC

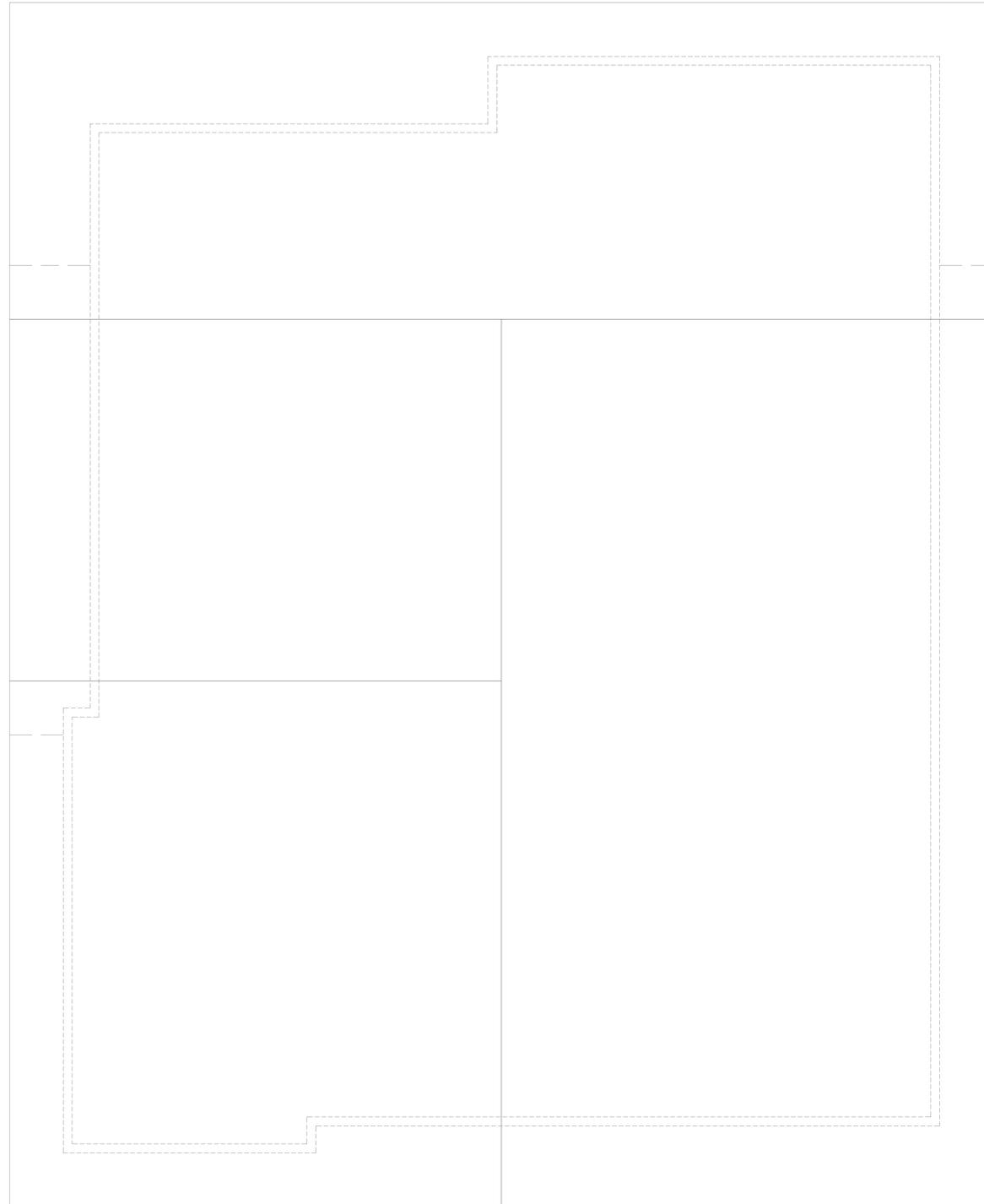
SHEET  
E1.02B

### GENERAL NOTES

1. ALL RECEPTACLES TO BE TAMPER RESISTANT PER NEC 406.12.
2. CONTROLLED RECEPTACLES TO BE UNIQUELY IDENTIFIED PER NEC 406.3
3. NUMBER ADJACENT TO DEVICE/RECEPTACLE INDICATES PANEL AND POLE/CIRCUIT POSITION DEVICE TO BE CIRCUITED TO. PROVIDE MINIMUM 2#12 AWG & 1#12 AWG GND CU IN 3/4" UNLESS NOTED OTHERWISE. CONDUCTOR(S) AND GROUND TO BE INCREASES TO #10 AWG FOR CIRCUIT LENGTH GREATER THAN 100'.
4. REFER TO ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR RECEPTACLE AND DEVICE LOCATIONS/PLACEMENT.
5. CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION(S) OF ELECTRICAL EQUIPMENT, DISCONNECTS, J-BOXES, ETC. CONTRACTOR TO COORDINATE ROUTING OF ALL FEEDERS, CONDUITS, CONDUCTORS, ETC. WITH FIELD CONDITIONS.
6. PRIOR TO ROUGH-IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE/CONFIRM WITH THE EQUIPMENT MANUFACTURER ALL REQUIREMENTS AS EQUIPMENT MAY HAVE CHANGED AFTER DESIGN.
7. PROVIDE ARC-FAULT CIRCUIT-INTERRUPTER CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS SERVING OUTLETS OF DEVICES IN RESIDENCE PER NEC 210.12.
8. TYPICAL UNITS MAY BE IN MIRRORRED ORIENTATION FROM THOSE SHOWN ON THIS SHEET.

### KEY NOTES

1. TBD



## 1 BUILDING B - ROOF PLAN ELEC

Scale: 3/16" = 1'-0"



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BUILDING B  
WORK CENTER  
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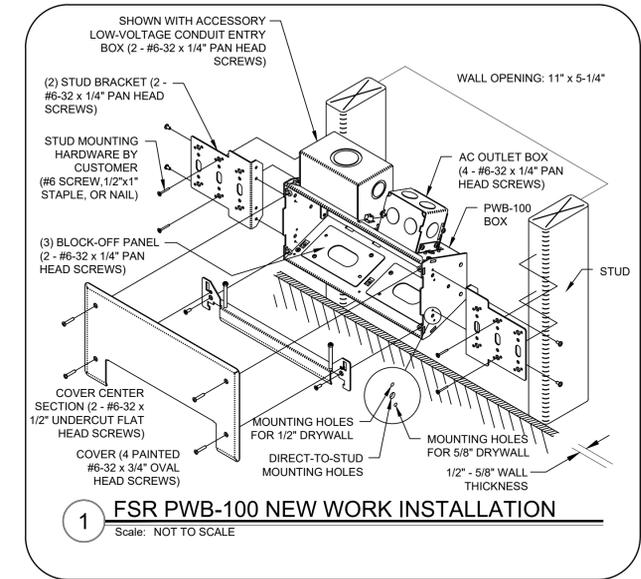
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SHEET NAME  
BLDG B -  
POWER  
DETAILS

SHEET  
E1.10B





KEY NOTES
1. TBD



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SHEET NAME  
BLDG B -  
FLOOR  
PLAN -  
LIGHTING

SHEET  
E2.01B

**1 BUILDING B - FLOOR PLAN - LIGHTING**  
Scale: 3/16" = 1'-0"



1

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BUILDING B  
WORK CENTER

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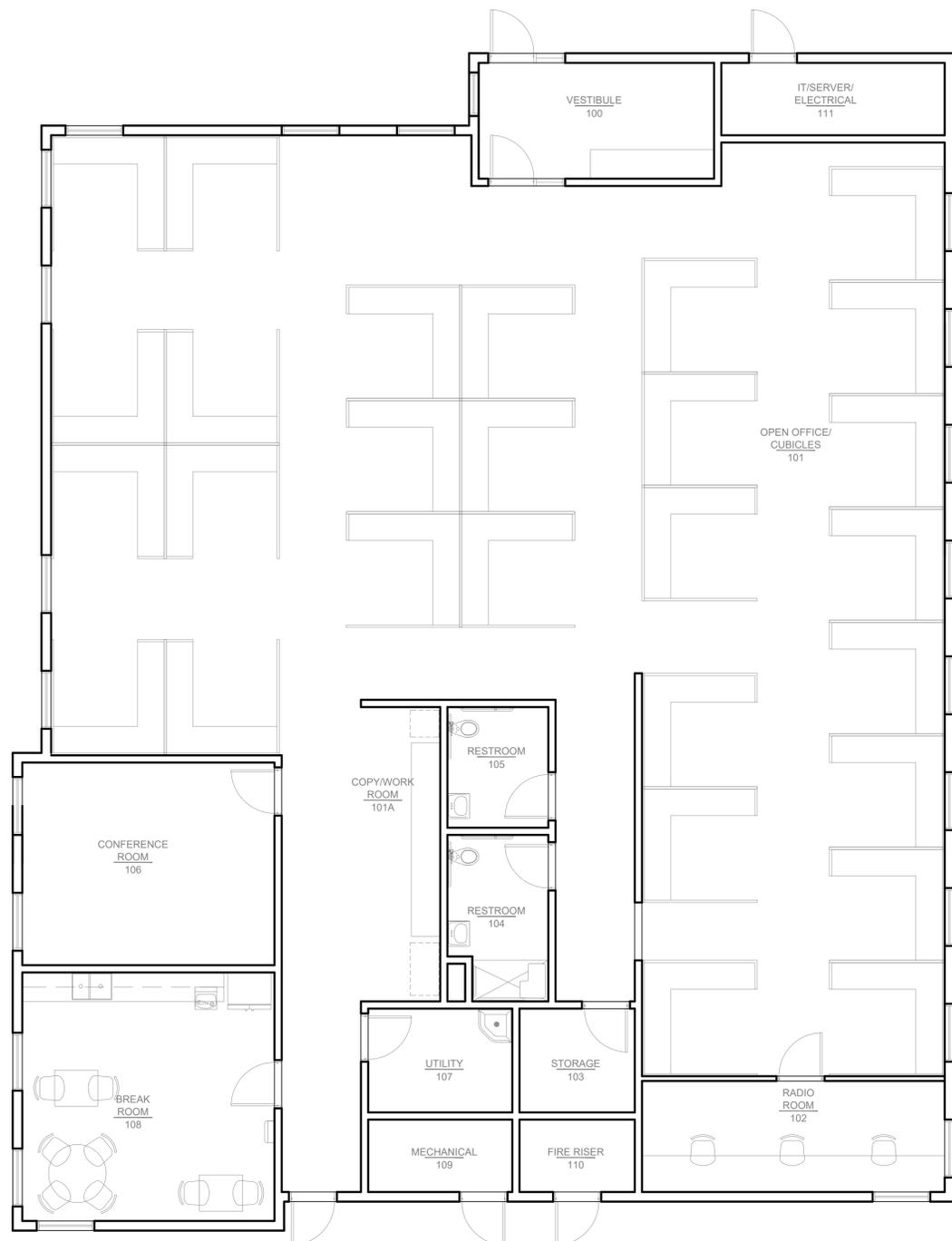
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SHEET NAME

BLDG B -  
LIGHTING  
CONTROL  
ZONES

SHEET

E2.02B



**BUILDING B - LIGHTING CONTROL ZONES**

Scale: 3/16" = 1'-0"





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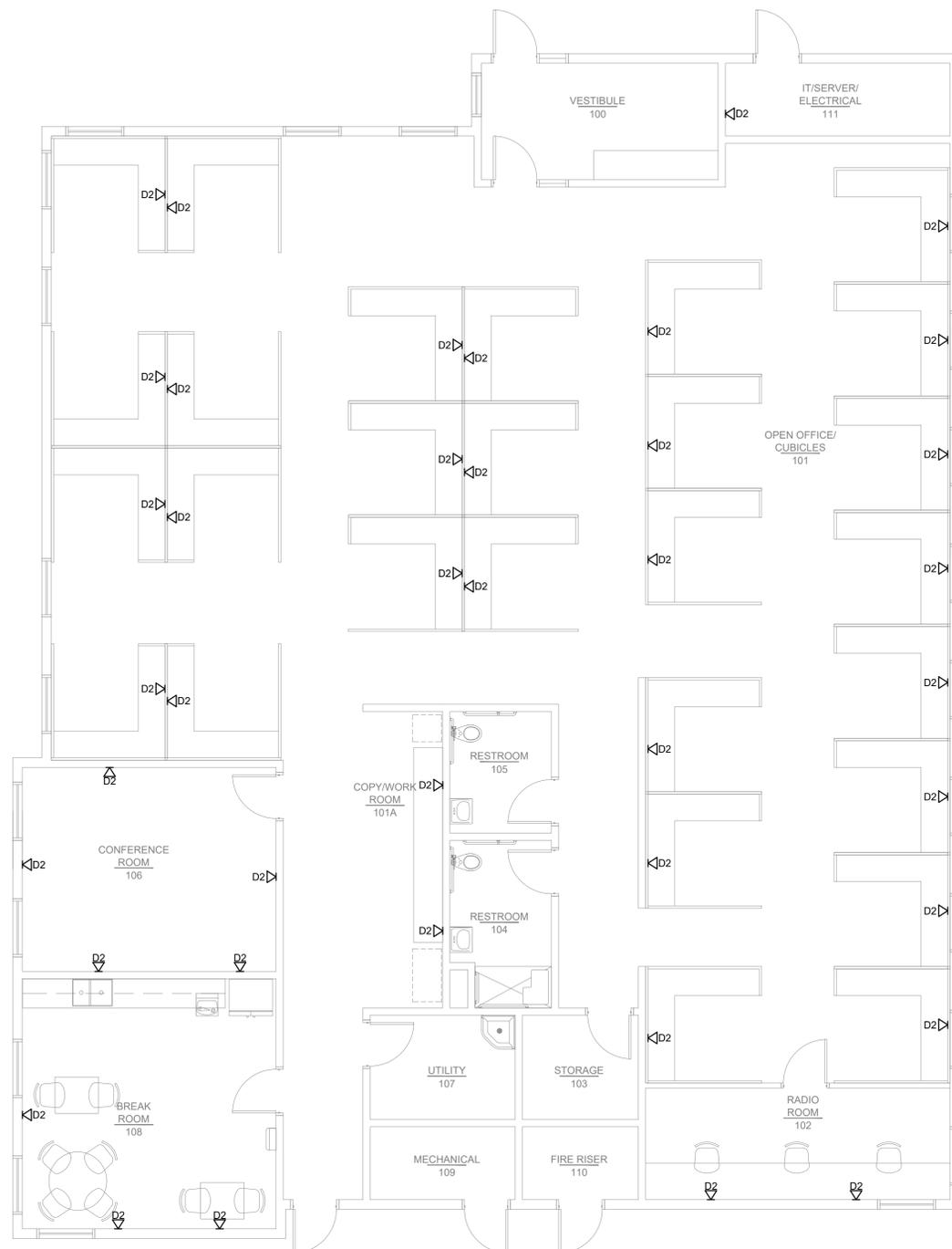
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SHEET NAME

BLDG B -  
FLOOR  
PLAN -  
SPECIAL  
SYSTEMS  
SHEET

E3.01B

KEY NOTES
1. TBD

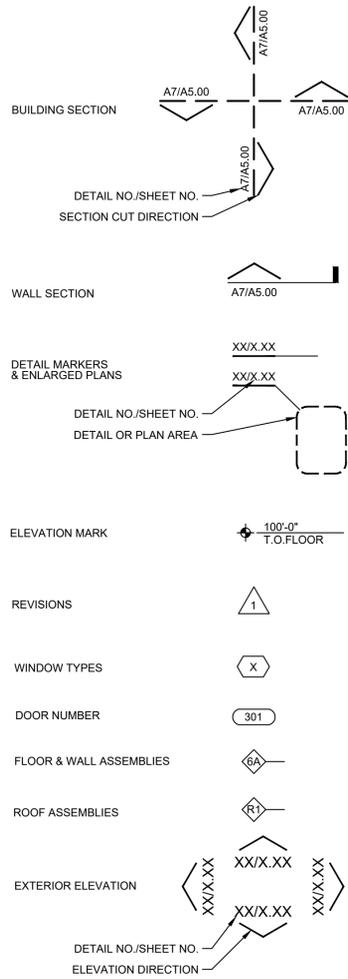


1

**BUILDING B - FLOOR PLAN - SPECIAL SYSTEMS**

Scale: 3/16" = 1'-0"

**SYMBOLS**



**GENERAL NOTES**

1. PROVIDE SOLID BLOCKING REINFORCEMENT FOR ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: GRAB BARS AT TOILETS, GRAB BARS & SHOWER SEAT IN SHOWERS, CASEWORK, SHELVING, AND OTHER WALL MOUNTED ACCESSORIES, SEE DETAILS 4/A8.00
2. SEE DETAILS ON SHEET A7.00 FOR STANDARD MOUNTING HEIGHTS, ACCESSIBLE WATER CLOSET GRAB BARS LOCATIONS, AND ACCESSIBLE FLOOR CLEARANCE REQUIREMENTS, PER ICC/ANSI A117.1-2017
3. PATCH, REPAIR, AND PAINT ALL ASSEMBLIES AND SURFACES DISTURBED BY DEMOLITION, TO MATCH ADJACENT SURFACES AND FINISHES.
4. MAINTAIN FIRE RATING OF EXISTING ASSEMBLIES. ALL WALLS AND FLOOR/CEILING ASSEMBLIES THAT SEPARATE A DWELLING UNIT FROM ANOTHER DWELLING UNIT OR OTHER USE SHALL BE 1 HOUR RATED. SEE CODE SUMMARY PLAN FOR ADDITIONAL INFORMATION. SEE DETAILS 1, 2, 6, AND 11 ON SHEET A8.00 FOR PENETRATIONS IN FIRE RATED ASSEMBLIES.
5. EXISTING P-TAC UNITS TO BE REPLACED, TYP. OF ALL, U.N.O.SEE MECHANICAL FOR ADDITIONAL INFORMATION.
6. COORDINATE INSTALLATION OF ALL NEW PLUMBING FIXTURES FOR RECONNECTION AT THE SAME/SIMILAR LOCATION OF OLD FIXTURES REMOVED IN ORDER TO REUSE EXISTING PLUMBING SUPPLY, WASTE, AND VENT LINES, U.N.O.
7. ALL CASEWORK PROVIDED BY OWNER'S PREFERRED VENDOR. CONTRACTOR SHALL COORDINATE FIELD MEASUREMENTS AND INSTALLATION.
8. CONTRACTOR SHALL COORDINATE PROCUREMENT AND INSTALLATION OF FIXTURES AND APPLIANCES WITH OWNER'S REPRESENTATIVE.
9. PROVIDE TILE AT WALL BEHIND KITCHENETTE AND SIDE WALL, EXTEND FINISH TO WIDTH OF COUNTER.
10. CONTRACTOR TO MAINTAIN 1-HR RATED PENETRATIONS & DOORS AT NEW WALLS THROUGHOUT.
11. CONTRACTOR TO PROVIDE 3200 SERIES KNOX BOX. LOCATE LOCATION WITH FIRE MARSHAL IN FIELD.
12. PROVIDE FIRE EXTINGUISHERS TYPE 2A-10BC AS SHOWN ON FLOOR PLANS COMPLYING WITH IFC 906.
13. SEE DETAIL 12/A8.00 FOR 1HR CEILING ASSEMBLY AT NEW OR MODIFIED DWELLING UNITS.
14. PROVIDE FIRE BLOCKING IN ALL LOCATIONS AS SHOWN ON DETAIL 3/A8.00.
15. SEE 7/A8.00 & 8/A8.00 FOR ALL NEW WALL ASSEMBLIES.
16. PROVIDE ALL NEW CEILING GRID IN THE CORRIDORS. MAINTAIN EXISTING CEILING HEIGHTS. MAINTAIN 1-HOUR RATING OF CEILING ASSEMBLY ABOVE ACT AND APARTMENTS. SEE DETAIL 9/A8.01

# DNR OMAK FIRE CENTER BUILDING H - BILLETS

## OMAK, WA 98841

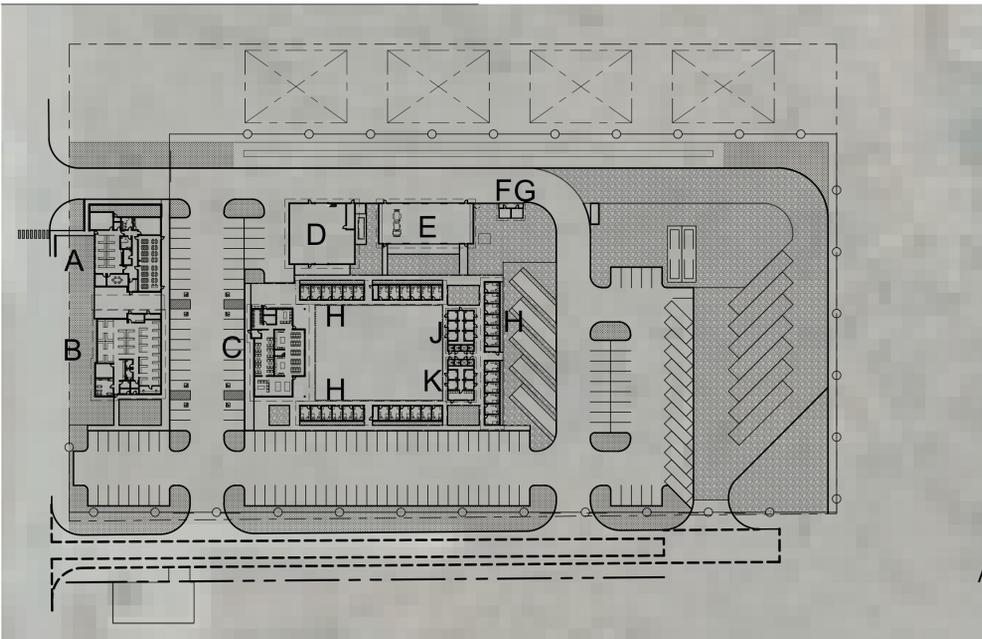
**PROJECT TEAM**

<b>OWNER</b> WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES OMAK, WA 98841 TEL:	<u>CONTACT:</u>
<b>CIVIL</b> FACET ENGINEERING 601 W MAIN AVENUE SUITE 617 SPOKANE, WA 99201 TEL: (360) 899-1100	<u>CONTACT:</u> ERIK FUENTES
<b>ARCHITECTURAL</b> STUDIO+ ARCHITECTS 9 S WASHINGTON STREET SUITE 518 SPOKANE, WA 99201 TEL: (509) 627-8295	<u>CONTACT:</u> CAMERON GOUGHTLY
<b>STRUCTURAL</b> FACET ENGINEERING 601 W MAIN AVENUE SUITE 617 SPOKANE, WA 99201 TEL: (509) 899-1100	<u>CONTACT:</u> ANTHONY SORENTINO
<b>MECHANICAL/PLUMBING</b> MSI ENGINEERS, INC 108 N WASHINGTON STREET SUITE 505 SPOKANE, WA 99201 TEL: (509) 624-1050	<u>CONTACT:</u> NATALIE JOHNSTON
<b>ELECTRICAL</b> MSI ENGINEERS, INC 108 N WASHINGTON STREET SUITE 505 SPOKANE, WA 99201 TEL: (509) 624-1050	<u>CONTACT:</u> BEN JENNINGS
<b>GEOTECHNICAL ENGINEER</b> ALLWEST TESTING 16617 E EUCLID AVENUE BUILDING A SPOKANE VALLEY, WA 99216 TEL: (509) 534-4411	<u>CONTACT:</u> SCOTT FRASER

**DRAWING INDEX**

<b>GENERAL:</b>	
G1.00	COVER SHEET
<b>CIVIL (SEE SITE DRAWINGS)</b>	
<b>ARCHITECTURAL:</b>	
A3.30H	FLOOR PLAN
A3.50H	REFLECTED CEILING PLAN
A3.60H	ROOF PLAN
A4.00H	EXTERIOR ELEVATIONS
A5.00H	BUILDING SECTIONS
<b>STRUCTURAL:</b>	
S2	FOUNDATION PLAN
S3	ROOF FRAMING PLAN
<b>MECHANICAL:</b>	
M1.01H	BLDG H - LEGENDS, NOTES & ABBREV.
M0.02H	BLDG H - MECHANICAL SCHEDULES
M3.31H	BLDG H - FLOOR PLAN - HVAC
<b>PLUMBING:</b>	
P0.01H	BLDG H - LEGENDS, NOTES & ABBREV.
P3.30H	BLDG H - FOUNDATION - PLUMBING
P3.31H	BLDG H - FLOOR PLAN - PLUMBING
<b>ELECTRICAL:</b>	
E0.01H	BLDG H - LEGENDS, NOTES & ABBREV.
E0.02H	BLDG H - GENERAL NOTES
E1.01H	BLDG H - FLOOR PLAN - LIGHTING & POWER
E1.02H	BLDG H - ROOF PLAN - ELEC

**PROJECT SITE MAP**



**VICINITY MAP**



**RENDERING**



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DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS  
OMAK, WA 98841

DRAWN BY  
JJ  
CHECKED BY  
KC  
JOB NUMBER  
231102

**REVISIONS**

DATE  
07.26.2024

SHEET NAME  
COVER

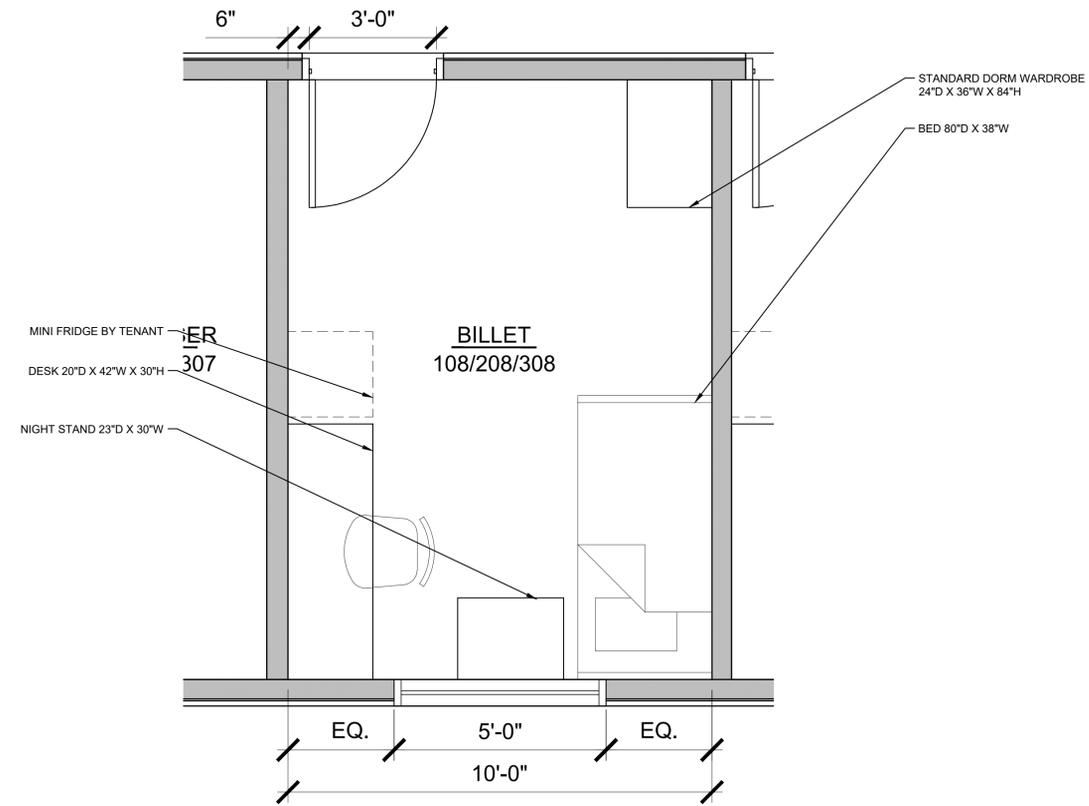
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G1.00H

**GENERAL NOTES:**

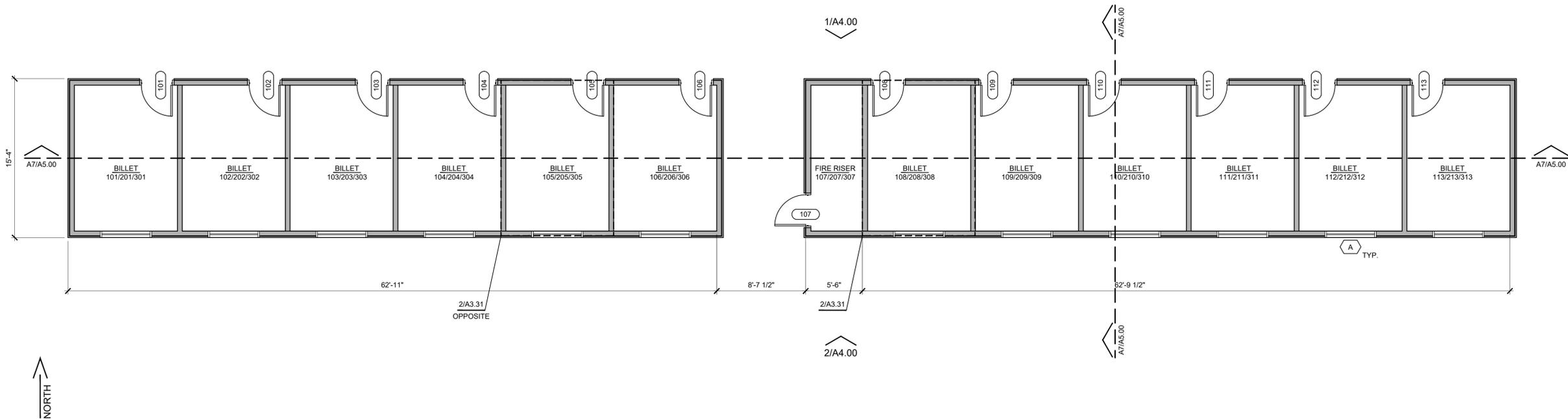
1. PROVIDE SOLID BLOCKING REINFORCEMENT FOR ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: GRAB BARS AT TOILETS, GRAB BARS & SHOWER SEAT IN SHOWERS, CASEWORK, SHELVING, AND OTHER WALL MOUNTED ACCESSORIES. SEE DETAILS 4/A8.00
2. SEE DETAILS ON SHEET A7.00 FOR STANDARD MOUNTING HEIGHTS, ACCESSIBLE WATER CLOSET GRAB BARS LOCATIONS, AND ACCESSIBLE FLOOR CLEARANCE REQUIREMENTS, PER ICC/ANSI A117.1-2017
3. PATCH, REPAIR, AND PAINT ALL ASSEMBLIES AND SURFACES DISTURBED BY DEMOLITION, TO MATCH ADJACENT SURFACES AND FINISHES.
4. MAINTAIN FIRE RATING OF EXISTING ASSEMBLIES. ALL WALLS AND FLOOR/CEILING ASSEMBLIES THAT SEPARATE A DWELLING UNIT FROM ANOTHER DWELLING UNIT OR OTHER USE SHALL BE 1 HOUR RATED. SEE CODE SUMMARY PLAN FOR ADDITIONAL INFORMATION. SEE DETAILS 1, 2, 6, AND 11 ON SHEET A8.00 FOR PENETRATIONS IN FIRE RATED ASSEMBLIES.
5. EXISTING P-TAC UNITS TO BE REPLACED, TYP. OF ALL, U.N.O.SEE MECHANICAL FOR ADDITIONAL INFORMATION.
6. COORDINATE INSTALLATION OF ALL NEW PLUMBING FIXTURES FOR RECONNECTION AT THE SAME/SIMILAR LOCATION OF OLD FIXTURES REMOVED IN ORDER TO REUSE EXISTING PLUMBING SUPPLY, WASTE, AND VENT LINES, U.N.O.
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11. CONTRACTOR TO PROVIDE 3200 SERIES KNOX BOX. LOCATE LOCATION WITH FIRE MARSHAL IN FIELD.
12. PROVIDE FIRE EXTINGUISHERS TYPE 2A-10BC AS SHOWN ON FLOOR PLANS COMPLYING WITH IFC 906.
13. SEE DETAIL 12/A8.00 FOR 1HR CEILING ASSEMBLY AT NEW OR MODIFIED DWELLING UNITS.
14. PROVIDE FIRE BLOCKING IN ALL LOCATIONS AS SHOWN ON DETAIL 3/A8.00.
15. SEE 7/A8.00 & 8/A8.00 FOR ALL NEW WALL ASSEMBLIES.
16. PROVIDE ALL NEW CEILING GRID IN THE CORRIDORS. MAINTAIN EXISTING CEILING HEIGHTS. MAINTAIN 1-HOUR RATING OF CEILING ASSEMBLY ABOVE ACT AND APARTMENTS. SEE DETAIL 9/A8.01

**FLOOR PLAN LEGEND:**

- NEW OR INFILL WALL ASSEMBLY. SEE SHEET A8.00
- EXISTING WALL
- ROOM NAME NUMBER SPACE TAG
- DOOR TYPE TAG, REFERENCE DOOR SCHEDULE ON SHEET A7.00
- WINDOW TYPE TAG, REFERENCE WINDOW SCHEDULE ON SHEET A7.00
- EXTERIOR AND INTERIOR ELEVATION REFERENCE
- WALL ASSEMBLY TAG, REFERENCE DETAILS ON SHEET A8.00



**2 SLEEPING QUARTERS ENLARGED PLAN**  
SCALE: 1/2" = 1'-0"



**1 FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



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SPOKANE, WA 99201

DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLET  
OMAK, WA 98841

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SHEET NAME  
**FLOOR PLAN**

SHEET  
**A3.30H**



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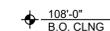
### REFLECTED CEILING PLAN GENERAL NOTES:

1. SPOT ELEVATIONS ARE FROM FINISH FLOOR TO FINISH CEILING
2. ELECTRICAL AND MECHANICAL SHOWN FOR REFERENCE ONLY. SEE RELATED ELECTRICAL AND MECHANICAL DRAWINGS.
3. SEE FIRE ALARM AND SPRINKLER PLANS/SUBMITTALS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. MAINTAIN REQUIRED FIRE RATINGS AT ALL RATED FLOOR, WALL, CEILING, AND ROOF ASSEMBLIES RECESSED OR PENETRATED BY FIXTURES, PIPING, CONDUIT, DUCTWORK, AND/OR OTHER ELEMENTS.
5. SEE SHEET XX.XX FOR GENERAL SUSPENDED CEILING DETAILS.
6. ALL NEW WALLS SHALL EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEAL ALL PENETRATIONS AND JOINTS WITH ACOUSTICAL SEALANT.

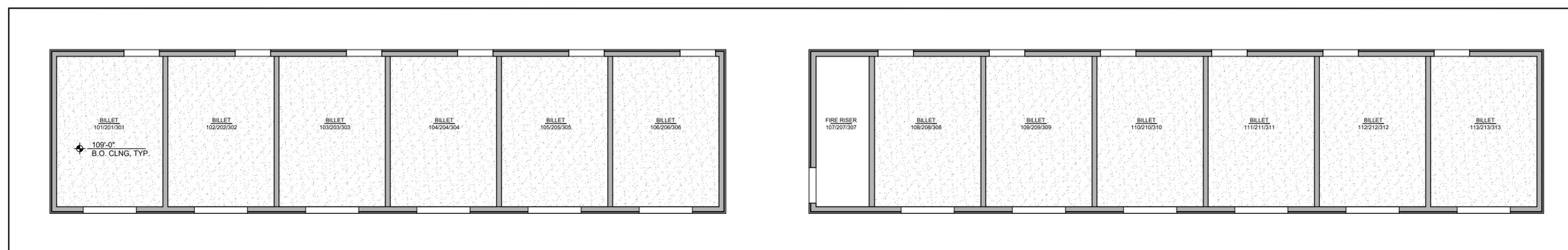
### REFLECTED CEILING PLAN LEGEND:



GYPSUM BOARD CEILING, SMOOTH  
LEVEL 4 FINISH, PAINTED PER SCHEDULE  
SPEC 09 29 00 99



109'-0"  
B.O. CLNG CEILING HEIGHT A.F.F.



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07.26.2024

SHEET NAME

REFLECTED  
CEILING  
PLAN

SHEET

A3.50H



## 1 REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"



STUDIO+ ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201

DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS  
OMAK, WA 98841

DRAWN BY  
JJ  
CHECKED BY  
KC  
JOB NUMBER  
231102

REVISIONS

DATE  
07.26.2024

SHEET NAME  
ROOF PLAN

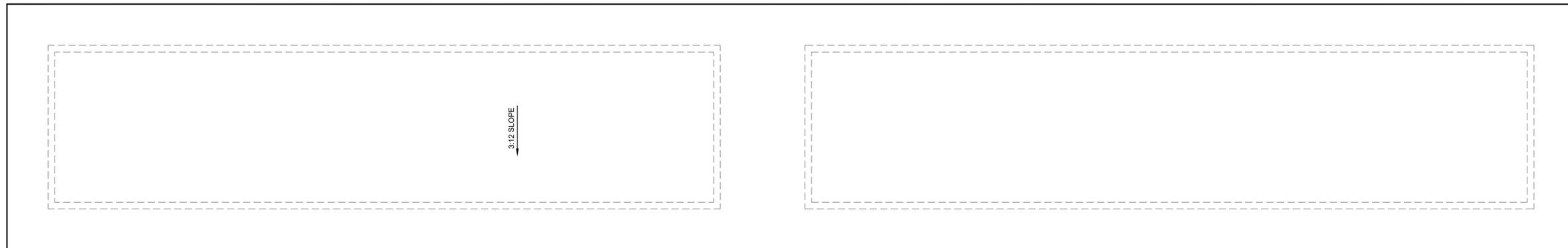
SHEET  
A3.60H

ROOF PLAN NOTES:

1. SEE DETAILS XXXX.XX FOR VENT PIPE FLASHING DETAILS
2. REFER TO MECHANICAL PLANS FOR HVAC UNIT LOCATIONS AND VENT PIPE PENETRATIONS.
3. MAINTAIN POSITIVE ROOF SLOPE AT ALL CRICKETS, VALLEYS, AND OVERBUILDS FOR POSITIVE DRAINAGE FROM ALL POINTS TO ROOF DRAINS, 1/4:12 MIN. AND AS NOTED ON PLANS.
4. PROVIDE HEAT TAPE IN ALL OF THE DOWNSPOUTS AND THE OVERFLOW DRAINS.
5. REFER TO STRUCTURAL FOR FRAMING REQUIREMENTS AND ADDITIONAL INFORMATION. REFER TO STRUCTURAL DRAWINGS FOR WALL SUPPORTS AND COORDINATE DURING ROOF FRAMING STAGE IN ORDER TO LOCATE AND ESTABLISH EXACT LOCATIONS OF SUPPLEMENTAL FRAMING FOR ROOF & WALL OPENINGS.
6. PROVIDE ALL NECESSARY ROOFING ACCESSORIES INCLUDING: REGLETS, BINDER BARS, FLASHING, COLLARS & BOOTS, FASTENERS, ETC. FOR A COMPLETE WARRANTED ROOF SYSTEM INSTALLATION.
7. PRIOR TO ROOFING INSTALLATION, CONTRACTOR SHALL PHYSICALLY INSPECT ROOF SLOPE TO VERIFY ADEQUATE DRAINAGE.
8. ALL EXPOSED METAL AND FLASHING TO BE PRE-FINISHED SHEET METAL FLASHING AND TRIM. MATCH ADJACENT MATERIAL COLOR BEING FLASHED.
9. VERIFY SIZES AND REQUIREMENTS OF HVAC UNITS AND CURBS WITH MECHANICAL EQUIPMENT MANUFACTURER. REFERENCE DRAWINGS & SCHEDULES.
10. VERIFY LOCATIONS AND QUANTITY OF ROOF VENT/ROOF CAP PENETRATIONS WITH HVAC-PLUMBING DRAWINGS. PROVIDE FLASHINGS AND/OR CURBS AS REQUIRED ACCORDING TO ROOF SYSTEM MANUFACTURER RECOMMENDED STANDARD DETAILS.
11. CONTRACTOR TO PROVIDE STEEL FRAME OPENINGS AT ALL ROOF TOP EQUIPMENT, TYP.
12. REFER TO SHEETS XX.XX AND XX.XX FOR ROOF ASSEMBLIES AND DETAILS.

ROOF PLAN LEGEND:

-  STANDING SEAM METAL ROOFING
-  1:12 SLOPE SLOPE ROOF DIRECTION OF ARROW





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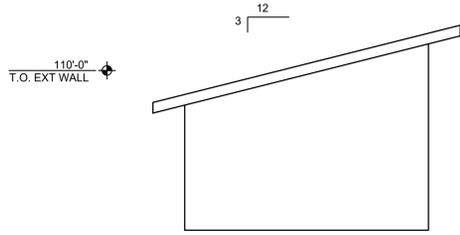
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231102

REVISIONS

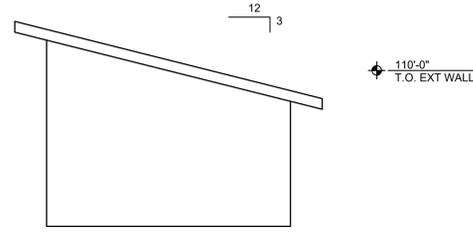
DATE  
07.26.2024

SHEET NAME  
EXTERIOR  
ELEVATIONS

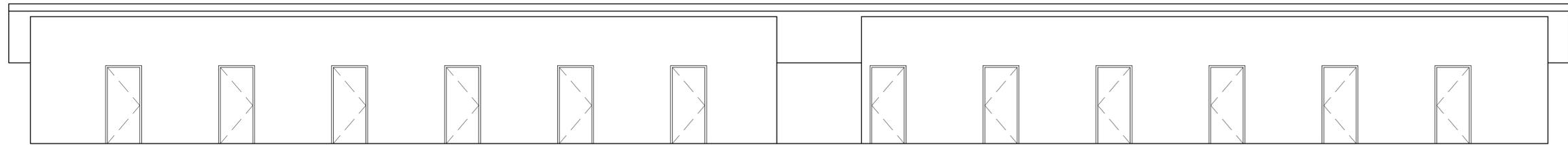
SHEET  
A3.60H



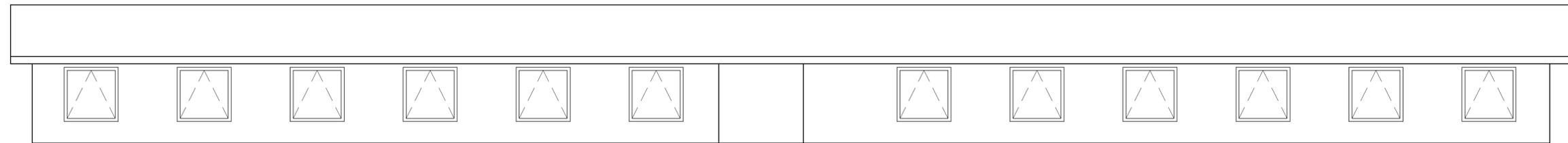
3 EAST ELEVATION  
SCALE: 3/16" = 1'-0"



4 WEST ELEVATION  
SCALE: 3/16" = 1'-0"



2 NORTH ELEVATION  
SCALE: 3/16" = 1'-0"



1 SOUTH ELEVATION  
SCALE: 3/16" = 1'-0"



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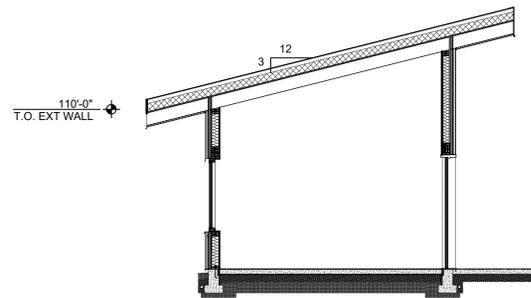
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JJ  
CHECKED BY  
KC  
JOB NUMBER  
231102

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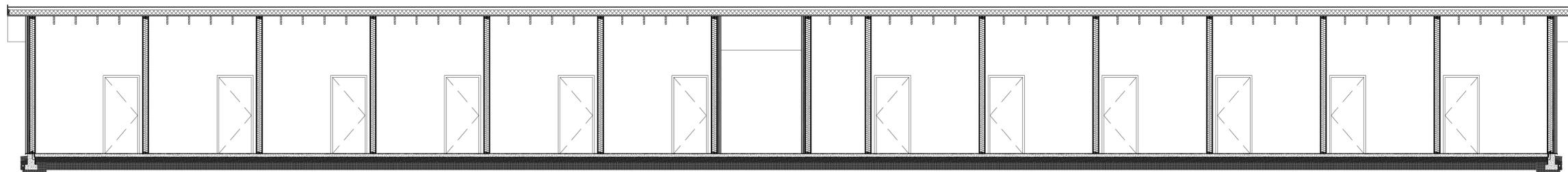
DATE  
07.26.2024

SHEET NAME  
BUILDING  
SECTION

SHEET  
A5.00H



**2** N-E BUILDING SECTION  
SCALE: 3/16" = 1'-0"



**1** W-E BUILDING SECTION  
SCALE: 3/16" = 1'-0"

FILE LOCATION: Z:\SHARE\PROJECTS\ACTIVE\2024\04\04\STUDIO PLUS - DNR OMAK FIRE CENTER (STRUCTURAL)\DRAWINGS\SCAD\REV\ACTIVE\EDOMAK DNR SLEEP QTR.DWG - ORIGINAL SHEET SIZE ARCH FILL BLEED D (24.00 X 36.00 INCHES) - LAST MODIFIED BY: JOEL HARKNESS



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OMAK, WA 98841

DRAWN BY  
JH  
CHECKED BY  
AWS  
JOB NUMBER  
2405.0421

REVISIONS

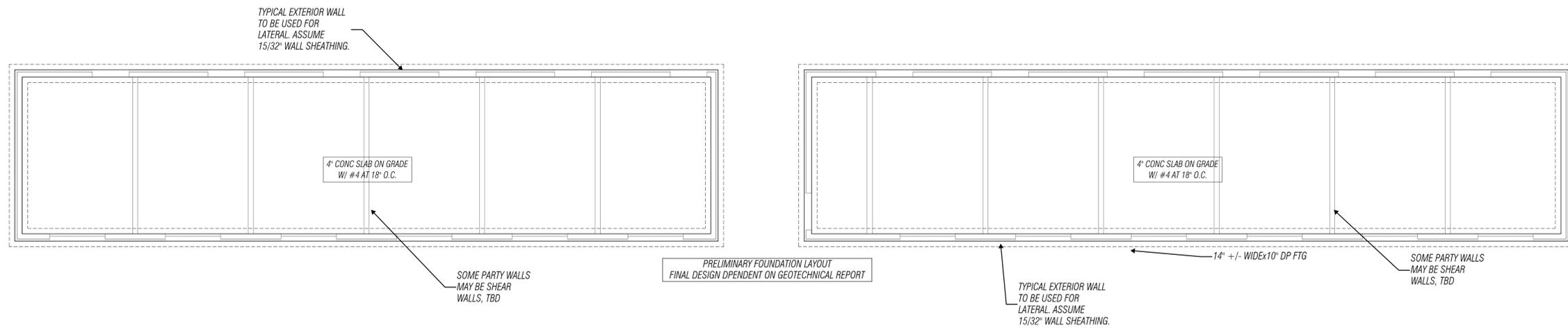
DATE  
07.26.2024

SHEET NAME

FOUNDATION PLAN

SHEET

S2



**FOUNDATION NOTES:**

- REFER TO SHEET S4 FOR SHEARWALL REQUIREMENTS AND HOLDOWN LOCATIONS.
- PROVIDE FOOTING DRAIN AROUND PERIMETER OF BUILDINGS.
- FOOTINGS ARE TO BEAR ON COMPETENT NATIVE SOIL OR STRUCTURAL FILL CAPABLE OF SUPPORTING THE ALLOWABLE BEARING PRESSURE OF 2,000 PSF.
- PROVIDE #4 CORNER FTG BAR FOR EACH HORIZONTAL BAR. LAP 2'-0" MIN.

1 FOUNDATION PLAN  
S2 SLEEPING QUARTERS  
SCALE 3/16" = 1'-0"

**FOOTING SCHEDULE**

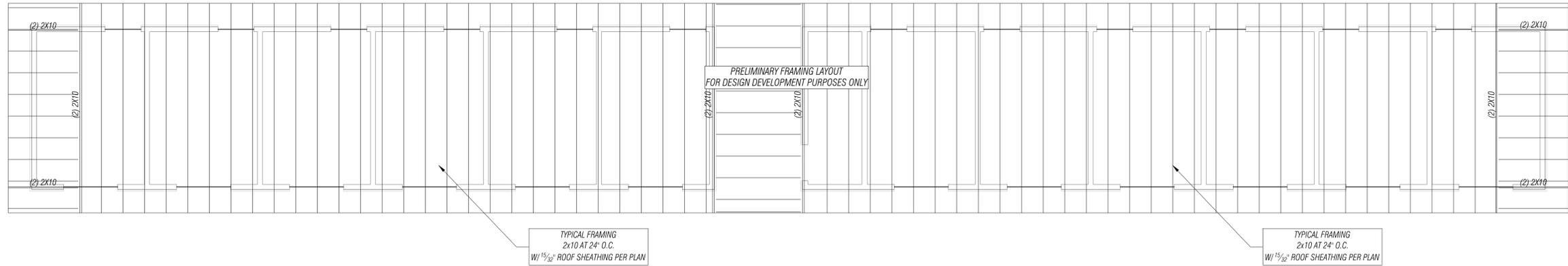
MARK	SIZE	THICKNESS	REINFORCING
F4	4'-0" SQ	10"	(4) #5 EA WAY
F6	6'-0" SQ	12"	(6) #5 EA WAY
F8	8'-0" SQ	16"	(10) #5 EA WAY

**POST SCHEDULE**

MARK	SIZE
A	4x4 DF#2
B	4x6 DF#2
C	5/8" x 5/8" PSL
D	HSS 3 1/2" SQ x 1/4"
E	HSS 5" SQ x 1/4"
F	HSS 6" SQ x 1/4"

DESIGN DEVELOPMENT - NOT FOR CONSTRUCTION

FILE LOCATION: Z:\SHARED\PROJECTS\STRUCTURE\DRAWINGS\SCHEMATIC\ACTIVE\EOMAK DNR SLEEP QUARTERS - ORIGINAL SHEET SIZE ARCH FULL BLEED D (24.00 X 36.00 INCHES) - LAST MODIFIED BY: JOEL HARKNESS



**ROOF FRAMING NOTES:**

- REFER TO SHEET Sx FOR SHEARWALL AND HOLDOWN LOCATIONS.
- STUD SPACING IS 16" O.C. FOR ALL WALLS.
- REFER TO DETAIL xxx/Sx FOR TYPICAL HEADER FRAMING.
- ALL HEADERS ARE 4x6 UNLESS NOTED OTHERWISE.
- ROOF TRUSS DESIGN LOADS:  
DEAD LOAD - TO PSF + SELF WT  
LIVE LOAD - 25 PSF  
LL DEFLECTION - L/360 MIN; 1/2" MAX  
TL DEFLECTION - L/240 MIN; 3/4" MAX
- GT INDICATES GIRDER TRUSS  
HT INDICATES HIP TRUSS  
HGT INDICATES HIP GIRDER TRUSS
- GIRDER TRUSS TO GIRDER TRUSS HANGERS TO BE SPECIFIED BY MANUFACTURER.

1 ROOF FRAMING PLAN  
S3 SLEEPING QUARTERS SCALE 3/16" = 1'-0"

**POST SCHEDULE**

MARK	SIZE
(A)	4x4 DF#2
(B)	4x6 DF#2
(C)	3/4"x8/2" PSL
(D)	HSS 3/2"SQx1/4"
(E)	HSS 5"SQx1/4"
(F)	HSS 6"SQx1/4"



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SHEET NAME

ROOF FRAMING  
PLAN

SHEET

S3

DESIGN DEVELOPMENT - NOT FOR CONSTRUCTION

HVAC CLIMATE DESIGN CRITERIA		
PROJECT LOCATION	PULLMAN, WA	
ASHRAE WEATHER DATA	PULLMAN, WA	SEE NOTE 1
DESIGN ALTITUDE	2,365 FT	
CLIMATE ZONE	5B	SEE NOTE 2
OUTDOOR DESIGN TEMPS:	HEATING: 4°F DB COOLING: 92°F DB/65°F WB	SEE NOTE 3
INDOOR DESIGN TEMPS:	HEATING: 72°F DB COOLING: 75°F DB/67°F WB	SEE NOTE 4
NOTES: 1. CLIMATE DATA PROVIDED BY ASHRAE. 2. PER 2018 WSEC, TABLE C301.1. 3. OUTDOOR DESIGN TEMPS PER 2018 WSEC, C302.2 APPDX C. 4. INDOOR DESIGN TEMPS PER 2018 WSEC, C302.1.		

DUCT SIZING CRITERIA			
DUCT	DUCT SERVICE	MAX DP (IN/100')	MAX VEL (FPM)
LOW PRESS (2" <= WG)	SUPPLY DIFFUSER	0.08"	500
	RETURN/EXHAUST GRILLE	0.08"	600
	SUPPLY/RETURN/EXHAUST BRANCH DUCT	0.08"	1300
	SUPPLY/RETURN/EXHAUST MAIN DUCT ABOVE CEILING	0.10"	1500
	SUPPLY/RETURN/EXHAUST MAIN DUCT IN SHAFT	0.10"	1750
MEDIUM PRESSURE (>2" WG)	SUPPLY DUCT TO TERMINAL UNIT	0.15"	2200
	SUPPLY BRANCH DUCT	0.20"	2200
	SUPPLY MAIN DUCT ABOVE CEILING	0.20"	2000
	SUPPLY MAIN DUCT EXPOSED	0.20"	2000
	SUPPLY MAIN DUCT IN SHAFT	0.20"	2000
NOTES: DUCT SIZING CRITERIA PROVIDED FOR SITUATIONS WHERE FIELD CONDITIONS REQUIRE DUCT MODIFICATIONS, ETC.			

SEISMIC DESIGN CRITERIA	
1.	SEE STRUCTURAL DRAWINGS FOR THE SEISMIC DESIGN CATEGORY (SDC) AND ASSOCIATED DESIGN CRITERIA FOR THIS PROJECT LOCATION.
2.	ALL MECHANICAL SYSTEMS, PIPING AND EQUIPMENT CONVEYING OR USING NATURAL GAS (GAS PIPING, BOILERS, WATER HEATERS, ETC.) SHALL BE SEISMICALLY BRACED AND ANCHORED.
3.	DELEGATED DESIGN: THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED SEISMIC DESIGNER TO PROVIDE ENGINEERING OF ALL SEISMIC RESTRAINT AND ANCHORING SYSTEMS. SEISMIC DESIGN AND INSTALLATION SHALL BE CONTRACTOR FURNISHED.
4.	SEISMIC BRACING PRODUCTS AND SYSTEMS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, SECTION 23 05 50, AND AS DETERMINED BY THE SEISMIC DESIGNER.

TESTING, BALANCING AND COMMISSIONING	
1.	HVAC SYSTEMS INCLUDING AIR, HYDRONIC AND SERVICE WATER HEATING SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE 2018 WA STATE ENERGY CODE, THE PROJECT SPECIFICATIONS AND GENERALLY ACCEPTED ENGINEERING STANDARDS TO ENSURE AT A MINIMUM THAT AIR AND WATER FLOW RATES ARE MEASURED AND ADJUSTED TO DELIVER THE DESIGN RATES WITHIN SPECIFIED TOLERANCES.
2.	A BUILDING COMMISSIONING PROCESS LEAD BY A CERTIFIED COMMISSIONING PROFESSIONAL SHALL BE COMPLETED FOR MECHANICAL SYSTEMS, SERVICE WATER HEATING SYSTEMS, ELECTRICAL POWER AND LIGHTING SYSTEMS AND ENERGY METERING IN ACCORDANCE WITH ALL REQUIREMENTS OF SECTION 408 OF THE 2018 WA STATE ENERGY CODE.

GENERAL NOTES	
1.	THE MECHANICAL SYSTEMS SHALL CONSIST OF ALL WORK SHOWN ON THE MECHANICAL DRAWINGS, DIAGRAMS AND AS DESCRIBED IN ASSOCIATED TECHNICAL SPECIFICATIONS.
2.	REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK SHOWN ON THE DRAWINGS WITH THE SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS REFER TO THE GENERAL CONDITIONS AND NOTIFY THE A/E FOR DIRECTION.
3.	MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
4.	MECHANICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPIES OF INSPECTIONS TO OWNER.
5.	ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. USED OR DAMAGED MATERIALS, PRODUCTS, ETC. ARE NOT ALLOWED AND IF DISCOVERED SHALL BE REMOVED AND REPLACED.
6.	MODEL NUMBERS OF EQUIPMENT SHOWN ON THE SCHEDULES AND THROUGHOUT THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MFR/MODEL ALONE. REVIEW THE COMPLETE DESCRIPTION, LOCATION AND ARRANGEMENT ON THE DRAWINGS, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL CONFIGURATION AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS OF DESIGN.
7.	WHEN & WHERE APPLICABLE, THE NEW MECHANICAL EQUIPMENT MAY NOT BE USED FOR TEMPORARY VENTILATION, HEATING, COOLING OR SERVICE UNLESS SPECIFICALLY NOTED OTHERWISE FOR PHASED CONSTRUCTION OR OCCUPANCY.
8.	WHERE EXISTING REFRIGERATION SYSTEMS ARE DISTURBED BY THE DEMOLITION OR NEW WORK, THE EXISTING REFRIGERANT GAS CHARGE SHALL NOT BE VENTED TO THE ATMOSPHERE BUT SHALL BE CAPTURED AND RECLAIMED/REUSED (IF IN GOOD CONDITION) OR DISPOSED OF IN A SAFE AND LEGAL MANNER.
9.	WHERE EXISTING GLYCOL ANTI-FREEZE HYDRONIC SYSTEMS ARE IMPACTED BY THE WORK, THE EXISTING ANTI-FREEZE GLYCOL-WATER SOLUTIONS SHALL BE EITHER CAPTURED AND STORED FOR REUSE, OR DISPOSED OF IN A SAFE AND LEGAL MANNER. REFILL SYSTEMS WITH SAME LEVEL OF GLYCOL PROTECTION AS ORIGINAL (OR AS SPECIFIED NEW).

LOCATIONS & COORDINATION	
1.	THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS AND FITTINGS. PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES TO AVOID CONFLICTS.
2.	INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. IN GENERAL IT IS THE INTENT THAT ALL MECHANICAL SYSTEMS BE CONCEALED ABOVE CEILINGS OR INSIDE WALLS AND SHAFTS.
3.	COORDINATE ALL EXPOSED MECHANICAL SYSTEMS, PIPING AND DUCTWORK SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
4.	PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
5.	COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER FIRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
6.	FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.

SYSTEMS SUPPORTS & BASES	
1.	HANGERS, SUPPORTS AND ANCHORS FOR MECHANICAL SYSTEMS AND EQUIPMENT ARE NOT NECESSARILY DESIGNED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT AND OTHER DEVICES. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS. SEE TYPICAL MECHANICAL DETAILS, ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, LIMITATIONS AND DETAILS.
2.	DO NOT ANCHOR TO OR SUSPEND MECHANICAL SYSTEMS DIRECTLY OFF OF BARE METAL ROOF DECKING.
3.	ROOF CURBS: ROOF CURBS SHALL BE MOUNTED PLUMB AND LEVEL ON PITCHED ROOFS. PROVIDE FACTORY CURBS WITH CORRECT SLOPE OR PROVIDE FIELD INSTALLED BLOCKING AND SHIMS BELOW CURB. ALL WOOD PRODUCTS SHALL BE PRESSURE TREATED LUMBER.
4.	SEISMIC BRACING: PROVIDE SEISMIC ANCHORING OR BRACING FOR ALL NATURAL GAS, PROPANE OR FUEL OIL PIPING. PROVIDE SEISMIC ANCHORING FOR ALL GAS-FIRED EQUIPMENT. FOR ADDITIONAL SEISMIC BRACING REQUIREMENTS REFER TO SPECIFICATIONS AND SEISMIC NOTES.

MECHANICAL & ELECTRICAL COORDINATION	
1.	INFORMATION LISTED SCHEDULES IS BASED ON THE EQUIPMENT AS SELECTED BY THE ENGINEER DURING THE DESIGN. THE ACTUAL EQUIPMENT SELECTED BY THE CONTRACTOR MAY BE DIFFERENT AND HAVE DIFFERING ELECTRICAL CHARACTERISTICS. PRIOR TO ROUGH-IN OR ORDERING EQUIPMENT, COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ESTABLISH ACTUAL ELECTRICAL CHARACTERISTICS, ELECTRICAL LOAD, VOLTAGE, OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT. TO ASSURE PROPER ELECTRICAL CONNECTIONS AND SERVICES ARE PROVIDED.
2.	COORDINATE THE EXACT LOCATION OF ALL ROOM THERMOSTATS AND/OR ROOM TEMPERATURE/CO2 SENSORS WITH ELECTRICAL PLANS & ROOM ELEVATIONS, PRIOR TO INSTALLATION, SO AS TO AVOID CONFLICT WITH CASEWORK, MARKER BOARDS, WALL SWITCHES, ETC.
3.	COORDINATE THE FURNISHING AND INSTALLATION OF ALL ELECTRICAL DISCONNECT SWITCHES, STARTERS, VPDS, ETC., IN ORDER TO ASSURE THAT ALL ENERGIZED MECHANICAL IS PROVIDED WITH THE REQUIRED CIRCUIT PROTECTION METHODS AND CONTROL DEVICES. WHERE DRAWINGS NOTES, SCHEDULES AND EQUIPMENT SPECIFICATIONS ARE SILENT OR UNCLEAR AS TO WHICH DIVISION (22-PLBG, 23-HVAC, OR 26-ELECTRICAL) IS TO PROVIDE THESE DEVICES, THE CONTRACTOR SHALL CONTACT THE ENGINEER, PRIOR TO BID, FOR DIRECTION.

DUCTWORK & AIR DISTRIBUTION	
1.	VOLUME DAMPERS ARE NOT SHOWN FOR CLARITY. PROVIDE A DAMPER FOR EACH SUPPLY, RETURN AND EXHAUST OPENING AND IN BRANCHES WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH AND ELSEWHERE AS NOTED ON THE DRAWINGS OR SPECIFICATIONS.
2.	PROVIDE CONCEALED DAMPER REGULATORS FOR ALL VOLUME DAMPERS OVER INACCESSIBLE CEILINGS AND SOFFITS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
3.	PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE.
4.	INSTALL FIRE DAMPERS, SMOKE DAMPERS AND/OR COMBO FIRE-SMOKE DAMPERS AT ALL LOCATIONS WHERE DUCTS PENETRATE FIRE RATED WALLS. COORDINATE DAMPER ACCESS WITH GENERAL CONTRACTOR AND ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR.
5.	ALL DUCTWORK SIZES SHOWN ARE OUTSIDE DIMENSIONS, UNLESS SPECIFICALLY NOTED ON PLANS. DUCT LINER HAS BEEN ACCOUNTED FOR ON LINED DUCT. ADDITIONAL CLEARANCE WILL NEED TO BE ACCOUNTED FOR FOR EXTERNALLY INSULATED DUCT.
6.	PROVIDE 1" THICK DUCT LINER IN ALL TRANSFER AIR DUCTWORK UNLESS NOTED OTHERWISE.
7.	TURNING VANES: ALL RECTANGULAR DUCT ELBOWS SHALL BE PROVIDED WITH TURNING VANES, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DUCTWORK DRAWING PLANS AND SECTIONS.
8.	RADIUS ELBOWS (NO VANES): UTILIZE RADIUS ELBOWS ON ALL MATERIAL HANDLING TYPE DUCTWORK, KITCHEN HOOD EXHAUST (EACH TYPE I & II), LOCKER ROOM (LINT) EXHAUST, PATIENT ROOM (LINT) EXHAUST, AND ELSEWHERE AS INDICATED. CONTRACTOR'S OPTION TO UTILIZE RADIUS ELBOWS (WHERE SPACE ALLOWS) IN LIEU OF RECTANGULAR VANED ELBOWS.
9.	PROVIDE TRANSITIONS AS REQUIRED TO TO CONNECT DUCTWORK TO TERMINAL UNITS, FANS, AIR HANDLERS CONNECTIONS, ETC.
10.	PROVIDE FLEXIBLE DUCT FITTINGS ON CONNECTIONS TO ALL ENERGIZED AIR MOVING EQUIPMENT (FANS, AIR HANDLERS, ETC.).
11.	MAXIMUM FLEXIBLE DUCTWORK LENGTH FROM MAIN DUCT TO DIFFUSERS SHALL BE APPROXIMATELY 5 FT, WITH MINIMAL OFFSET AND NO KINKS.

PIPING & HYDRONICS	
1.	PLENUMS: PIPES AND WIRING IN PLENUMS SHALL BE RATED FOR PLENUM USE. PVC, ABS, PLASTIC PIPING IS NOT ACCEPTABLE IN PLENUM APPLICATIONS UNLESS INSULATED AND WRAPPED IN APPROVED FIRE RATED JACKETING.
2.	SMALL PIPING OR COMPONENTS: PIPING PLANS DO NOT NECESSARILY SHOW ALL SMALL PIPING OR COMPONENTS, INSTRUMENT TAPS OR DRAINS. PROVIDE ALL PIPING, VALVES, SPECIALTY ITEMS, INSTRUMENTATION, ETC. AS INDICATED ON THE PIPING FLOW DIAGRAMS, PIPING/EQUIPMENT DETAILS.
3.	SIZES FOR SUPPLY AND RETURN PIPING CONNECTIONS TO EQUIPMENT, COILS, ETC. SHALL EQUAL TO THE FULL BRANCH RUN-OUT SIZES INDICATED ON THE DRAWINGS. PROVIDE REDUCERS AT EQUIPMENT CONNECTIONS AND BEFORE AND AFTER CONTROL VALVES, BALANCE VALVES, ETC. WHEN NECESSARY. ALL NEAR-COIL/EQUIPMENT PIPING SHALL BE FULL BRANCH LINE SIZE, INCLUDING BYPASS LINES, ETC. AND SHALL ONLY BE REDUCED FOR SMALLER DIAMETER CONTROL VALVES OR COIL/EQUIPMENT CONNECTIONS.
4.	WHERE AIR HANDLING UNITS ARE PROVIDED WITH MULTIPLE (STACKED) COIL BANKS, PROVIDE DIVIDED BRANCH SUPPLY AND RETURN PIPING CONNECTIONS TO EACH COIL IN THE BANK, WHETHER OR NOT INDICATED ON THE DRAWINGS OR PIPING DETAILS. BRANCH PIPING TO EACH COIL IN THE BANK MAY BE REDUCED FROM THE MAIN INDICATED PIPE SIZE, BUT NOT TO BE SMALLER THAN THE COIL CONNECTION SIZES.
5.	PROVIDE AIR VENTS ON HYDRONIC DISTRIBUTION PIPING AT HIGH POINTS, CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AND ALONG HORIZONTAL RUNS AT APPROXIMATELY 100 FT. INTERVALS.
6.	INSTALL UNIONS, IN PIPING 2" AND SMALLER, AT FINAL CONNECTIONS TO EACH PIECE OF EQUIPMENT, ON EACH SIDE OF CONTROL VALVES AND ELSEWHERE AS INDICATED.
7.	INSTALL FLANGES, IN PIPING 2 1/2" AND LARGER, AT FIRST CONNECTIONS TO EQUIPMENT AND AT ALL FLANGED VALVES AND DEVICES.

MECHANICAL ABBREVIATIONS			
AAV	AUTOMATIC AIR VENT	HW	HOT WATER
ABV	ABOVE	HX	HEAT EXCHANGER
AD	ACCESS DOOR	HZ	HERTZ
AFS	AIR FLOW SWITCH	ID	INSIDE DIAMETER
AFB	ABOVE FINISHED FLOOR	INV	INVERT
AG	ABOVE GROUND	I.E.	INVERT ELEVATION
AHU	AIR HANDLING UNIT	INSUL	INSULATION
AL	ACOUSTICALLY LINED	IND	INDIRECT
ALUM	ALUMINUM	KW	KILOWATT
APD	AIR PRESSURE DROP	KWH	KILOWATT HOUR
ARCH	ARCHITECT	LA	LEAVING AIR
AVG	AVERAGE	LAT	TEMPERATURE
AWT	AVERAGE WATER TEMPERATURE	LBS	POUNDS
BAS	BUILDING AUTOMATION SYSTEM	LDB	LEAVING DRY BULB
BDD	BELOW FINISHED FLOOR	LF	LINEAR FOOT
BFP	BACKFLOW PREVENTER	LWT	LEAVING WATER TEMPERATURE
BG	BELOW GROUND	LG	LONG OR LENGTH
BHP	BRAKE HORSEPOWER	LP	LOW POINT
BLDG	BUILDING	LWB	LEAVING WET BULB
BP	BYPASS	LWG	LOW WALL GRILLE
BTU	BRITISH THERMAL UNIT	LWT	LEAVING WATER TEMPERATURE
BTUH	BRITISH THERMAL UNITS PER HOUR	LYG	LEAVING
BOD	BOTTOM OF DUCT	MCA	MINIMUM CIRCUIT AMPACITY
BOP	BOTTOM OF PIPE	MOCP	MAXIMUM OVERCURRENT PROTECTION
BSMT	BASEMENT	MBH	THOUSAND (1000) BTU PER HOUR
BY	BALANCING VALVE	MCC	MOTOR CONTROL CENTER
CA	CAPACITY	MFR	MANUFACTURER
CC	CENTER TO CENTER OR COOLING COIL	MS	MOTOR STARTER
CD	CEILING DIFFUSER	MTD	MOUNTED
CFM	CUBIC FEET PER MINUTE	MTG	MOUNTING
CG	CEILING GRILLE	NC	NORMALLY CLOSED
CI	CAST IRON	NO	NORMALLY OPEN
CLG	CEILING	MOD	MOTOR-OPERATED DAMPER
COG	CLEAN OUT TO GRADE	NIC	NOT IN CONTRACT
CO	CLEAN OUT	NPT	NATIONAL PIPE THREAD
COMB	COMBUSTION	NTS	NOT TO SCALE
COND	CONDENSATE OR CONDENSER	OA	OUTDOOR AIR
CONC	CONCRETE CONSTRUCTION	OBD	OPPOSED BLADE DAMPER
CONST	CONSTRICTION OF PERFORMANCE	OD	OUTSIDE DIAMETER
COP	COEFFICIENT OF PERFORMANCE	OSA	OUTSIDE AIR
CU	COPPER	OAT	OUTSIDE AIR TEMPERATURE
CUH	CABINET UNIT HEATER	OF	OWNER FURNISHED, CONTRACTOR INSTALLED
CW	COLD WATER	OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED PRESSURE DROP
CU	CONDENSING UNIT	PD	PHASE
CR	CONDENSATE RETURN	PIAC	PRESSURE INDEPENDENT AIR CONTROLLER
CL	CENTER LINE	PIAC	AIR CONTROLLER
CR	DEEP OR DEPTH	PG	PROPYLENE GLYCOL PLUMBING
DB	DRY BULB OR DECIBEL	PLBG	PLUMBING
DBA	A-WEIGHTED DECIBELS	POC	POINT OF CONNECTION
DCV	DEMAND CONTROL VENTILATION	PRV	PRESSURE REDUCING VALVE
DDC	DIRECT DIGITAL CONTROL	PSI	POUNDS PER SQUARE INCH
DEMO	DEMOLITION	PSIG	POUNDS PER SQUARE INCH GAUGE
DN	DOWN	PT	PRESSURE & TEMPERATURE DAMPER
DIA	DIAMETER Ø	RA	RETURN AIR
DPS	DIFFERENTIAL PRESSURE SWITCH	RAG	RETURN AIR GRILLE
DP	DROP	RAT	RETURN AIR TEMPERATURE
DPR	DAMPEN	RD	ROOF DRAIN
DWG	DRAWING	RET	RETURN
(E)	EXISTING	REV	RETURN AIR
EA	EACH OR EXHAUST AIR	RFM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	RTU	ROOF TOP UNIT
EAS	ENTERING AIR SUPPLY	SA	SUPPLY AIR
EBB	ENTERING DRY BULB	SAT	ELECTRIC OR ELECTRICAL TEMPERATURE
EER	ENERGY EFFICIENCY RATIO	SEER	SEASONAL ENERGY EFFICIENT RATIO
EFF	EFFICIENCY	SENS	SENSIBLE
EG	EXHAUST GRILLE	SD	SMOKE DETECTOR OR DAMPER
ELEC	ELECTRIC OR ELECTRICAL	SF	SUPPLY FAN
ELEV	ELEVATION	SFD	SMOKE-FIRE DAMPER
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM	SHT	SHEET
ENCL	ENCLOSURE	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE ESTIMATE(D)	SQ	SQUARE
EST	ESTIMATED	SQ FT	SQUARE FOOT
EWB	ENTERING WET BULB TEMPERATURE	SS	STAINLESS STEEL
EWT	ENTERING WATER TEMPERATURE	STD	STANDARD
EXH	EXHAUST	TA	TRANSFER AIR TEMPERATURE
FA	FRESH AIR (OUTSIDE AIR)	TH	THICK OR THICKNESS
FCO	FLOOR CLEAN OUT	TOD	TOP OF DUCT
FCU	FAN COIL UNIT	TP	TRAP PRIMER
FD	FIRE DAMPER OR FLOOR DRAIN	TU	TERMINAL UNIT
FDC	FIRE DEPARTMENT CONNECTION	TYP	TYPICAL
FF	FINAL FILTER	UF	UNDER FLOOR
FLA	FULL LOAD AMPS	UH	UNDERGROUND UNIT HEATER
FLR	FLOOR	UR	URINAL
FOB	FLAT ON BOTTOM	US	UNDER SLAB
FOT	FLAT ON TOP	V	VENT OR VOLT
FPM	FEET PER MINUTE	VAC	VACUUM
FR	FINS PER INCH	VAV	VARIABLE AIR VOLUME
FPS	FEET PER SECOND	VEL	VELOCITY
FP	FIRE PROTECTION	VFD	VARIABLE FREQUENCY DRIVE
FS	FLOOR SINK	VRF	VARIABLE REFRIGERANT FLOW
FT	FEET/FOOT OR FINNED TUBE	VRV	VARIABLE REFRIGERANT VOLUME
FV	FACE VELOCITY	VTR	VENT THRU ROOF
GA	GAS (NATURAL)	VD	VOLUME DAMPER
GAL	GALLONS	WB	WET BULB
GALV	GALVANIZED	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	WCO	WALL CLEAN OUT
GPB	GALLONS PER HOUR	WH	WATER HEATER
H	HIGH OR HEIGHT	WHA	WATER HAMMER ARRESTOR
HB	HOSE BIBB	WG	WATER GAUGE
HC	HEATING COIL	WPD	WATER PRESSURE DROP
HD	HEAD	WT	WEIGHT
HGBP	HOT GAS BYPASS		
HL	HIGH LIMIT		
HP	HORSEPOWER OR HIGH POINT		
HR	HOUR		
HUM	HEATING HUMIDIFIER		

HVAC PIPING LEGEND	
—HWS—	HEATED WATER SUPPLY
—HWR—	HEATED WATER RETURN
—CWS—	CHILLED WATER SUPPLY
—CWR—	CHILLED WATER RETURN
—CHS—	CHILLER CIRC RETURN
—CHR—	CHILLER CIRC RETURN
—CD—	CONDENSATE DRAIN
—D—	DRAIN
—PC—	PUMPED CONDENSATE
—RL—	REFRIGERANT LIQUID
—RS—	REFRIGERANT SUCTION
—REF—	REFRIGERANT LINE SET
—G—	NATURAL GAS

GENERAL PIPING SYMBOLS	
	PIPE PITCH DIRECTION (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION
	BOTTOM CONNECTION
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN

VALVE AND EQUIPMENT SYMBOLS	
	GENERIC VALVE (TYPE AS SPECIFIED)
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & QUICK COUPLE HOSE CONNECTOR)
	FLEXIBLE CONNECTION
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY RELIEF VALVE
	BALANCING VALVE (MANUAL OR AUTOFLOW AS SPECIFIED)
	PRESSURE REDUCING VALVE (PRV)
	THERMOMETER
	PRESSURE GAGE
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	QUICK-COUPLE HOSE CONNECTOR
	PLANT COMPRESSED AIR OUTLET QUICK CONNECT
	PUMP

LINEWEIGHT LEGEND	
—</	

### OUTDOOR VRF HEAT PUMP SCHEDULE

#	MFR	MODEL	REFRIG.	HEATING				COOLING				ELECTRICAL			WEIGHT LBS.	NOTES
				CAP MBH	OAT DB (°F)	COP AT 47F	COP AT 17F	CAP MBH	OAT DB (°F)	EER	IEER	V/PH	MCA	MOP		
HP-H1	DAIKIN		R410A		6					96			208-230/3	60	800	①③④
HP-H2	DAIKIN		R410A		6					96			208-230/3	60	800	①③④
HP-H3	DAIKIN		R410A		6					96			208-230/3	60	800	①③④
HP-H4	DAIKIN		R410A		6					96			208-230/3	60	800	①③④
HP-H5	DAIKIN		R410A		6					96			208-230/3	60	800	①③④
HP-H6	DAIKIN		R410A		6					96			208-230/3	60	800	①③④

**NOTES:**

① -

② -

③ CONTRACTOR TO PROVIDE BIG FOOT MULTI-FRAME STAND OR EQUIVALENT.

④ INCLUDE I-TOUCH MANAGER CENTRAL CONTROLLER WITH BACNET SOFTWARE IF REQUIRED.

### ELECTRIC UNIT HEATER SCHEDULE

#	MFR	MODEL	TYPE	LOCATION	CFM	KW	DT (°F)	ELECTRICAL		NOTES
								V/PH	AMPS	
UH-H1	INDEECO	UCI	SUSPENDED UNIT HEATER	216 MECHANICAL	500	1.0	13	208/3	3.1	①②
UH-H2	INDEECO	UCI	SUSPENDED UNIT HEATER	216 MECHANICAL	500	1.0	13	208/3	3.1	
UH-H3	INDEECO	UCI	SUSPENDED UNIT HEATER	216 MECHANICAL	500	1.0	13	208/3	3.1	

**NOTES:**

① PROVIDE:

- THERMOSTAT AND REMOTE SENSOR
- THERMAL OVERHEAT MANUAL RESET
- PERMANENTLY LUBRICATED & ENCLOSED FAN MOTOR
- AUTOMATIC FAN DELAY AT START-UP & SHUTDOWN
- CONCEALED POWER ON/OFF SWITCH FOR MAINTENANCE
- FACTORY DISCONNECT
- MOUNTING KIT FOR SUSPENDED INSTALLATION

② SEE ELECTRIC HEATER CONTROL DIAGRAM.

### INDOOR VRF FAN COIL UNIT SCHEDULE

#	MFR	MODEL	CONFIG.	LOCATION	REFRIG.	SUPPLY CFM	ESP (IN)	OSA CFM	HTG CAP. (MBH)	TOTAL CLG CAP. (MBH)	SENS. CLG CAP. (MBH)	ELECTRICAL			WEIGHT LBS.	SOUND PRES. LEVELS		NOTES
												V/PH	MCA	MOCP		LOW SPEED DB(A)	HIGH SPEED DB(A)	
FC-H 101/201 301	DAIKIN				R410A							208-230/1		15				①②③④
FC-H 102/202 302	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-H 103/203 303	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-H 104/204 304	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-H 105/205 305	DAIKIN				R410A							208-230/1		15				①②③④
FC-H 106/206 306	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-H 107/207 307	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-H 108/208 308	DAIKIN				R410A							208-230/1		15				①②③⑤
FC-H 109/209 309	DAIKIN				R410A							208-230/1		15				①②③④
FC-H 110/210 310	DAIKIN				R410A							208-230/1		15				①②③④
FC-H 111/211 311	DAIKIN				R410A							208-230/1		15				①②③④
FC-H 112/212 312	DAIKIN				R410A							208-230/1		15				①②③④

**NOTES:**

① PROVIDE FACTORY CONDENSATE PUMP. PUMP TO BE POWERED FROM FAN COIL UNIT.

② INCLUDE NAVIGATION WIRED REMOTE CONTROLLER WITH SPACE TEMPERATURE SENSOR.

③ DISCONNECT SWITCH BY DIV. 26.

④ INCLUDE MANUFACTURER'S FILTER BOX WITH 2" MERV-8 FILTER.

⑤ INCLUDE MANUFACTURER'S CLEANABLE MESH FILTER.



STUDIO+ ARCHITECTS  
 9 S WASHINGTON ST, SUITE 518  
 SPOKANE, WA 99201



DNR OMAK  
 FIRE CENTER  
 BUILDING H  
 BILLETS

OMAK, WA 98841

DRAWN BY  
 RID  
 CHECKED BY  
 NJJ  
 JOB NUMBER  
 231102

REVISIONS

DATE

07.26.2024

SHEET NAME

BLDG H –  
 MECHANICAL  
 SCHEDULES

SHEET

M0.02H



STUDIO+ ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS

OMAK, WA 98841

DRAWN BY  
RID  
CHECKED BY  
NJJ  
JOB NUMBER  
231102

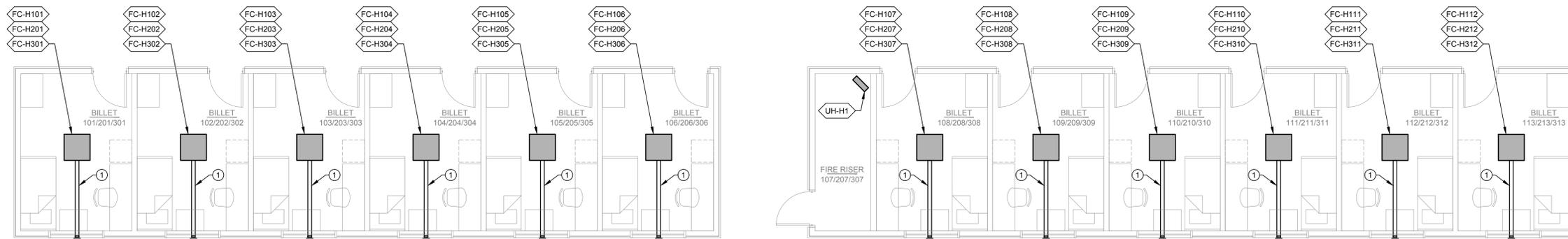
REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG H -  
FLOOR  
PLAN -  
HVAC

SHEET  
M3.31H

**KEY NOTES**  
1. 4"Ø OSA DUCT ROUTE FROM EXTERIOR LOUVER TO FAN COIL CONNECTION.



**BUILDING H - FLOOR PLAN - HVAC**  
Scale: 3/16" = 1'-0"



P:\2024\24-37 - DNR OMAK Fire Center\Cad\H - Sleeping Quarters\24-37 - H - M3.31H - FLOOR PLAN HVAC.dwg on Fri, July 26, 2024 at 09:53 AM

### HANGERS AND SUPPORTS

- HANGERS, SUPPORTS AND ANCHORS FOR MECHANICAL AND PLUMBING SYSTEMS AND EQUIPMENT ARE NOT NECESSARILY DESIGNED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT AND OTHER DEVICES. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS. SEE TYPICAL MECHANICAL DETAILS ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, LIMITATIONS AND DETAILS.
- DO NOT ANCHOR TO OR SUSPEND EQUIPMENT, DUCTWORK OR PIPING DIRECTLY OFF OF BARE METAL ROOF DECKING.

### PLUMBING PIPING

- PLENUMS: PIPES AND WIRING IN PLENUMS SHALL BE RATED FOR PLENUM USE. PVC, ABS, PLASTIC PIPING IS NOT ACCEPTABLE IN PLENUM APPLICATIONS UNLESS INSULATED AND WRAPPED IN APPROVED FIRE RATED JACKETING.
- SMALL PIPING OR COMPONENTS: PIPING PLANS DO NOT NECESSARILY SHOW ALL SMALL PIPING OR COMPONENTS, INSTRUMENT TAPS OR DRAINS. PROVIDE ALL PIPING, VALVES, SPECIALTY ITEMS, INSTRUMENTATION, ETC. AS INDICATED ON THE PIPING FLOW DIAGRAMS, PIPING/EQUIPMENT DETAILS AND/OR CONTROL INSTRUMENTATION DIAGRAMS.

### TESTING, BALANCING AND COMMISSIONING

- MECHANICAL SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE 2018 WA STATE ENERGY CODE, THE PROJECT SPECIFICATIONS AND GENERALLY ACCEPTED ENGINEERING STANDARDS TO ENSURE AT A MINIMUM THAT FLOW RATES ARE MEASURED AND ADJUSTED TO DELIVER THE DESIGN RATES WITHIN SPECIFIED TOLERANCES.
- A BUILDING COMMISSIONING PROCESS LEAD BY A CERTIFIED COMMISSIONING PROFESSIONAL SHALL BE COMPLETED FOR MECHANICAL SYSTEMS IN ACCORDANCE WITH ALL REQUIREMENTS OF SECTION 408 OF THE 2018 WA STATE ENERGY CODE.

### LOCATIONS & COORDINATION

- THE MECHANICAL AND PLUMBING PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS AND FITTINGS. PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES TO AVOID CONFLICTS.
- INSTALL ALL MECHANICAL AND PLUMBING WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. IN GENERAL IT IS THE INTENT THAT ALL MECHANICAL SYSTEMS BE CONCEALED ABOVE CEILINGS OR INSIDE WALLS AND SHAFTS.
- COORDINATE ALL EXPOSED MECHANICAL SYSTEMS, PIPING AND DUCTWORK SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.) GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
- COORDINATE ALL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. DIV. 23/22 CONTRACTOR RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.

### ELECTRICAL COORDINATION

- INFORMATION LISTED IN EQUIPMENT SCHEDULES IS BASED ON THE EQUIPMENT AS SELECTED BY THE ENGINEER DURING THE DESIGN PROCESS. THE ACTUAL EQUIPMENT SELECTED BY THE CONTRACTOR MAY BE DIFFERENT AND HAVE DIFFERING ELECTRICAL CHARACTERISTICS. PRIOR TO ROUGH-IN OR ORDERING EQUIPMENT, COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ESTABLISH ACTUAL ELECTRICAL CHARACTERISTICS, ELECTRICAL LOAD, VOLTAGE, OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT, TO ASSURE PROPER ELECTRICAL CONNECTIONS AND SERVICES ARE PROVIDED.
- COORDINATE THE FURNISHING AND INSTALLATION OF ALL ELECTRICAL DISCONNECT SWITCHES, STARTERS, VFDs, ETC., IN ORDER TO ASSURE THAT ALL ENERGIZED MECHANICAL IS PROVIDED WITH THE REQUIRED CIRCUIT PROTECTION METHODS AND CONTROL DEVICES. WHERE DRAWINGS NOTES, SCHEDULES AND EQUIPMENT SPECIFICATIONS ARE SILENT OR UNCLEAR AS TO WHICH DIVISION (22-PLBG, 23-HVAC, OR 26-ELECTRICAL) IS TO PROVIDE THESE DEVICES, THE CONTRACTOR SHALL CONTACT THE ENGINEER, PRIOR TO BID, FOR DIRECTION.

### GENERAL NOTES

- THE PLUMBING SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON DRAWINGS, DIAGRAMS AND AS DESCRIBED IN SPECIFICATIONS.
- COORDINATE WITH SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS REFER TO THE GENERAL CONDITIONS AND NOTIFY THE A/E FOR DIRECTION.
- INSTALL ALL PLUMBING WORK AS HIGH AS POSSIBLE. TIGHT TO STRUCTURE ABOVE. COORDINATE ALL EXPOSED PLUMBING SYSTEMS SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET PLUMBING WORK AS REQUIRED.
- COORDINATE ALL PLUMBING WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. DIV. 22 CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.
- ALL REQUIRED FIRESTOPPING FOR PIPE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATION SECTIONS FOR FIRESTOPPING MATERIALS AND METHODS.
- PROVIDE ALL NECESSARY SUPPORT MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT AND OTHER DEVICES. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS. SEE PLUMBING DETAILS, ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, LIMITATIONS AND DETAILS.
- ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR SHEET.
- PLENUMS: PIPES AND WIRING IN PLENUMS SHALL BE RATED FOR PLENUM USE. PVC, ABS, PLASTIC PIPING IS NOT ACCEPTABLE IN PLENUM APPLICATIONS.
- MODEL NUMBERS OF EQUIPMENT SHOWN ON THE SCHEDULES AND THROUGHOUT THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MFR/MODEL ALONE. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS OF DESIGN.
- ALL INSULATED PIPING EXPOSED TO VIEW IN OCCUPIED SPACES SHALL BE PROVIDED WITH PVC JACKETING.
- PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS AND FLOOR SINKS, UNLESS NOTED OTHERWISE. TRAP PRIMER SOURCES SHALL BE EITHER FROM AUTOMATIC, ELECTRONIC TRAP PRIMER UNITS LOCATED IN THE VICINITY (FOR CLUSTERS OF MULTIPLE DRAINS), WATER CLOSET FLUSH VALVE TAPS, SINK TAIL PIECE BRANCHES, OR PRESSURE DROP OPERATED UNITS AS BEST FITS THE SITUATION. ALL FLOOR DRAINS AND FLOOR SINKS IN KITCHENS, MECHANICAL MEZZANINES, AND MECHANICAL ROOMS ARE REQUIRED TO BE INSTALLED WITH AUTOMATIC ELECTRONIC TRAP PRIMER UNITS.
- PROVIDE AN ACCESS PANEL WHERE REQUIRED FOR ACCESS TO WATER HAMMER ARRESTORS. PROVIDE WATER HAMMER ARRESTORS AT THE FOLLOWING LOCATIONS:
  - HOT AND COLD WATER SERVING ALL RESTROOMS
  - AT ALL FLUSH VALVES AND OTHER QUICK ACTING VALVES
  - FIXTURES LOCATED AT THE END OF MAIN AND BRANCH PIPING RUNS
  - IN WATER SUPPLIES TO REMOTE SINKS
  - WATER SUPPLY LINES TO FAST ACTING VALVES.
- PROVIDE RPBA'S AS REQUIRED BY CODE. RPBA'S TO BE ACCESSIBLE FOR MAINTENANCE. INSTALL AT A MAXIMUM OF 5'-0" AFF. RPBA'S TO BE PROVIDED FOR, BUT NOT LIMITED TO, THE FOLLOWING:
  - HOSE BIBBS LOCATED IN MECHANICAL ROOMS, MECHANICAL YARDS, AND/OR IN DUMPSTER AREAS.
  - FUME HOODS
  - COMBI OVENS

### SEISMIC DESIGN CRITERIA

- SEE STRUCTURAL DRAWINGS FOR THE SEISMIC DESIGN CATEGORY (SDC) AND ASSOCIATED DESIGN CRITERIA FOR THIS PROJECT LOCATION.
- ALL MECHANICAL SYSTEMS, PIPING AND EQUIPMENT CONVEYING OR USING NATURAL GAS (GAS PIPING, BOILERS, WATER HEATERS, ETC.) SHALL BE SEISMICALLY BRACED AND ANCHORED.
- DELEGATED DESIGN: THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED SEISMIC DESIGNER TO PROVIDE ENGINEERING OF ALL SEISMIC RESTRAINT AND ANCHORING SYSTEMS. SEISMIC DESIGN AND INSTALLATION SHALL BE CONTRACTOR FURNISHED.
- SEISMIC BRACING PRODUCTS AND SYSTEMS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, SECTION 22 05 50, AND AS DETERMINED BY THE SEISMIC DESIGNER.

### ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	HW	HOT WATER
ABV	ABOVE	HX	HEAT EXCHANGER
ACCU	AIR COOLED CONDENSING UNIT	ID	HERTZ
AD	ACCESS DOOR	IZ	INSIDE DIAMETER
AFS	AIR FLOW SWITCH	INV	INVERT
AFF	ABOVE FINISHED FLOOR	I.E.	INVERT ELEVATION
AG	ABOVE GROUND	INSUL	INSULATION
AHU	AIR HANDLING UNIT	IND	INDIRECT
AL	ACOUSTICALLY LINED ALUMINUM	KW	KILOWATT
ALUM	ALUMINUM	KWH	KILOWATT HOUR
APD	AIR PRESSURE DROP	L	LENGTH OR LOUVER
ARCH	ARCHITECT	LAT	LEAVING AIR TEMPERATURE
AVG	AVERAGE	LBS	POUNDS
AWT	AVERAGE WATER TEMPERATURE	LDB	LEAVING DRY BULB
BAS	BUILDING AUTOMATION SYSTEM	LF	LINEAR FOOT
BDD	BACKDRAFT DAMPER	LWT	LEAVING WATER TEMPERATURE
BFF	BELOW FINISHED FLOOR	LG	LONG OR LENGTH
BFP	BACKFLOW PREVENTER	LP	LOW POINT
BG	BELOW GROUND	LWB	LEAVING WET BULB
BHP	BRAKE HORSEPOWER	LWS	LOW WALL GRILLE
BLDG	BUILDING	LWT	LEAVING WATER TEMPERATURE
BP	BYPASS	LVG	LEAVING
BTU	BRITISH THERMAL UNITS PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
BTUH	BRITISH THERMAL UNITS PER HOUR	MOCP	MAXIMUM OVERCURRENT PROTECTION
BOD	BOTTOM OF DUCT	MBH	THOUSAND (1000) BTU PER HOUR
BOP	BOTTOM OF PIPE	MCC	MOTOR CONTROL CENTER
BSMT	BASEMENT	MFR	MANUFACTURER
BV	BALANCING VALVE	MS	MOTOR STARTER
C	CELSIUS	MTD	MOUNTED
CA	COMBUSTION AIR CAPACITY	MTG	MOUNTING
CC	CENTER TO CENTER	MAU	MAKE-UP AIR UNIT
CP	COOLING COIL	NC	NORMALLY CLOSED
CD	CEILING DIFFUSER	NO	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	MOD	MOTOR-OPERATED DAMPER
CG	CEILING GRILLE	NIC	NOT IN CONTRACT
CI	CAST IRON	NIS	NATIONAL PIPE THREAD
CLG	CEILING	OA	OUTDOOR AIR
COG	CLEAN OUT TO GRADE	OBD	OPPOSED BLADE DAMPER
CO	CLEAN OUT	OD	OUTSIDE DIAMETER
COMB	COMBUSTION	OSA	OUTSIDE AIR
COND	CONDENSATE OR CONDENSER	OAT	OUTSIDE AIR TEMPERATURE
CONC	CONCRETE	OF	OVERFLOW
CONST	CONSTRUCTION	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
COP	COEFFICIENT OF PERFORMANCE	PH	PRESSURE DROP
CU	COPPER	PI	PHASE
CUH	CABINET UNIT HEATER	PIAC	PRESSURE INDEPENDENT AIR CONTROLLER
CW	COLD WATER	PLBG	PLUMBING
CU	CONDENSING UNIT	POC	POINT OF CONNECTION
CR	CONDENSATE RETURN	PRV	PRESSURE REDUCING VALVE
CL	CENTER LINE	PSI	POUNDS PER SQUARE INCH
D	DEEP OR DEPTH	PSIG	POUNDS PER SQUARE INCH GAUGE
DB	DRY BULB OR DECIBEL	PT	PRESSURE & TEMPERATURE RETURN AIR
DBA	A-WEIGHTED DECIBELS	RA	RETURN AIR
DDC	DIRECT DIGITAL CONTROLS	RAG	RETURN AIR GRILLE
DEMO	DEMOLITION	RAT	RETURN AIR TEMPERATURE
DN	DOWN	RD	ROOF DRAIN
DIA	DIAMETER Ø	RET	RETURN
DPS	DIFFERENTIAL PRESSURE SWITCH	REV	REVISION
DP	DROP	RF	RETURN FAN
DPR	DAMPER	RPM	REVOLUTIONS PER MINUTE
DWG	DRAWING	RHW	REGIRCULATING HOT WATER
(E)	EXISTING	RTU	ROOF TOP UNIT
EA	EACH OR EXHAUST AIR	S	SINK
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EDB	ENTERING DRY BULB	SAT	SUPPLY AIR TEMPERATURE
EEF	ENERGY EFFICIENCY RATIO	SEER	SEASONAL ENERGY EFFICIENT RATIO
EF	EXHAUST FAN	SENS	SENSIBLE
EFF	EFFICIENCY	SD	SMOKE DETECTOR OR DAMPER
EG	EXHAUST GRILLE	SF	SUPPLY FAN
ELEC	ELECTRIC OR ELECTRICAL	SFD	SMOKE-FIRE DAMPER
ELEV	ELEVATION	SHT	SHEET
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM	SP	STATIC PRESSURE
ENCL	ENCLOSURE	SQ	SQUARE
EQUIP	EQUIPMENT	SQ FT	SQUARE FOOT
ESP	EXTERNAL STATIC PRESSURE	SS	STAINLESS STEEL
EST	ESTIMATE(D)	STD	STANDARD
EWB	ENTERING WET BULB	TA	TRANSFER AIR
EW	ENTERING WATER TEMPERATURE	TEMP	TEMPERATURE
EXH	EXHAUST	TH	THICK OR THICKNESS
F	FAHRENHEIT	TOD	TOP OF DUCT
FA	FRESH AIR (OUTSIDE AIR)	TOP	TOP OF PIPE
FCO	FLOOR CLEAN OUT	TP	TRAP PRIMER
FCU	FAN COIL UNIT	TU	TERMINAL UNIT
FD	FIRE DAMPER OR FLOOR DRAIN	TYP	TYPICAL
FOC	FIRE DEPARTMENT CONNECTION	UF	UNDER FLOOR
FF	FINAL FILTER	UG	UNDERGROUND
FLA	FULL LOAD AMPS	UH	UNIT HEATER
FLR	FLOOR	UR	URINAL
FLEX	FLEXIBLE	US	UNDER SLAB
FOB	FLAT ON BOTTOM	V	VENT OR VOLT
FOT	FLAT ON TOP	VAC	VACUUM
FPM	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
FPI	FINS PER INCH	VEL	VELOCITY
FPS	FEET PER SECOND	VFD	VARIABLE FREQUENCY DRIVE
FP	FIRE PROTECTION	VRF	VARIABLE REFRIGERANT FLOW
FS	FLOOR SINK	VRV	VARIABLE REFRIGERANT VOLUME
FT	FEET/FOOT OR FINNED TUBE	VTR	VENT THRU ROOF
FV	FACE VELOCITY	VD	VOLUME DAMPER
G	GAS (NATURAL)	W	WIDE OR WIDTH
GAL	GALLONS	WB	WET BULB
GALV	GALVANIZED	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	WCO	WALL CLEAN OUT
GPH	GALLONS PER HOUR	WH	WATER HEATER
GYP	GYPSONUM WALL BOARD	WHA	WATER HAMMER ARRESTOR
H	HIGH OR HEIGHT	WG	WATER GAUGE
HB	HOSE BIBB	WPD	WATER PRESSURE DROP
HC	HEATING COIL	WPT	WEIGHT
HD	HEAD		
HGBP	HOT GAS BYPASS		
HL	HIGH LIMIT		
HP	HORSEPOWER OR HIGH POINT		
HR	HOUR		
HTG	HEATING		

### PLUMBING SYMBOLS

↖	ELBOW UP
↘	ELBOW DOWN
↕	TEE UP
↔	TEE DOWN
↔	CONCENTRIC REDUCER/INCREASER
↔	ECCENTRIC REDUCER/INCREASER
↔	UNION
↔	RISE/DROP IN PIPE
↔	VENT THRU ROOF
↔	CAP
↔	CLEAN-OUT (WALL)
↔	CLEAN-OUT (FLUSH TO FLOOR OR GRADE)
⊕	FLOOR DRAIN
⊕	CIRCULATING PUMP (POINTS IN DIRECTION OF FLOW)
↔	VALVE (AS INDICATED OR SPECIFIED)
↔	CHECK VALVE
↔	PRESSURE & TEMPERATURE RELIEF VALVE
↔	PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE)
⊕	GAS VALVE
⊕	SOLENOID VALVE
↔	HOSE BIBB
↔	CIRCUIT SETTER
↔	VALVE BOX W/ VALVE (AS SPECIFIED)
⊕	THERMOMETER
⊕	PRESSURE GAGE

### PLUMBING LEGEND

— — — — —	COLD WATER
— — — — —	HOT WATER
— — — — —	HOT WATER RETURN
— — — — —	TEMPERED HOT WATER
— — — — —	VENT
— — — — —	SAN ———— SANITARY DRAIN ABOVE FLOOR
— — — — —	SAN ———— SANITARY DRAIN BELOW FLOOR
— — — — —	ST ———— STORM DRAIN ABOVE FLOOR
— — — — —	ST ———— STORM DRAIN BELOW FLOOR
— — — — —	CD ———— CONDENSATE DRAIN ABOVE FLOOR
— — — — —	CD ———— CONDENSATE DRAIN BELOW FLOOR
— — — — —	RWC ———— RAINWATER CONDUCTOR ABOVE FLOOR
— — — — —	RWC ———— RAINWATER CONDUCTOR BELOW FLOOR
— — — — —	F ———— FIRE PROTECTION
— — — — —	O2 ———— OXYGEN
— — — — —	MV ———— MEDICAL VACUUM
— — — — —	MA ———— MEDICAL AIR
— — — — —	N2O ———— NITROGEN OXIDE
— — — — —	N2 ———— NITROGEN
— — — — —	CA ———— COMPRESSED AIR

### GENERAL SYMBOLS

1	SECTION IDENTIFYING NUMBER
M5.01	CROSS-SECTION SYMBOL
	SHEET WHERE SECTION IS SHOWN
6.01	DETAIL IDENTIFYING NUMBER
	DETAIL SYMBOL
	SHEET WHERE DETAIL IS SHOWN
⊕	POINT OF CONNECTION (POC) SYMBOL
	EQUIP. TYPE-NUMBER (SEE SCHEDULES)
RCP-1	EQUIPMENT IDENTIFIER (OPTIONAL TAG STYLE)
⊕	REVISION CLOUD AND REVISION NUMBER

### LINEWEIGHT LEGEND

— — — — —	LIGHT SOLID LINES INDICATES EXISTING ITEMS TO REMAIN
— — — — —	LIGHT DASHED LINES GENERALLY INDICATE HIDDEN OR UNDERGROUND PIPING OR EQUIPMENT
— — — — —	DARK LINE INDICATES NEW PIPING & EQUIPMENT
— — — — —	DARK DASHED LINES INDICATE EXISTING PIPING & EQUIPMENT TO BE REMOVED (FLOOR PLANS & SECTIONS)
— — — — —	DASHED LINES INDICATE EXISTING PIPING & EQUIPMENT TO BE REMOVED (DEMOLITION DETAILS & FLOW DIAGRAMS)

NOTE: LINEWEIGHTS ARE GENERAL GUIDES ONLY. REFER TO DRAWING NOTES AND WORK PHASES (DEMO OR NEW) FOR ADDITIONAL DISTINCTIONS.

NOTE: SYMBOLS AND ABBREVIATIONS ON THE DRAWINGS ARE TO BE



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS  
OMAK, WA 98841

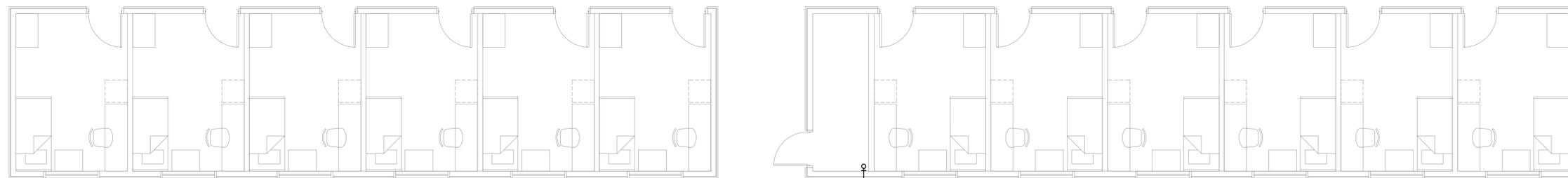
DRAWN BY  
RID  
CHECKED BY  
NJJ  
JOB NUMBER  
231102

REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG A –  
FOUNDATION  
–  
PLUMBING

SHEET  
P3.30H



FIRE SERVICE CONNECTION  
STUBBED 5'-0" OUTSIDE OF  
BUILDING. SEE CIVIL FOR  
CONTINUATION.

**BUILDING H - FOUNDATION - PLUMBING**

Scale: 3/16" = 1'-0"



1



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SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS  
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DRAWN BY  
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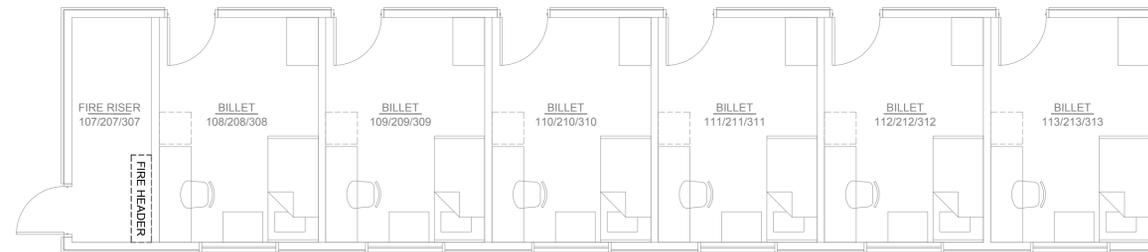
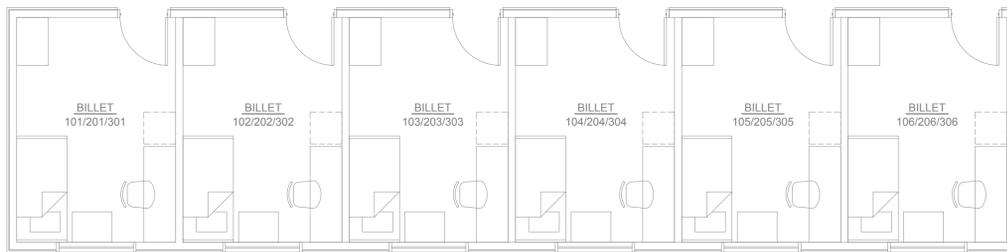
REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG H -  
FLOOR  
PLAN -  
PLUMBING

SHEET  
P3.31H

GENERAL NOTES  
1. BUILDING SERVED BY DRY SPRINKLER SYSTEM.



**BUILDING H - FLOOR PLAN - PLUMBING**



Scale: 3/16" = 1'-0"

P:\2024\24-37 - DNR Omak Fire Center\Cad\H - Sleeping Quarters\24-37 - H - P3.31H - FLOOR PLAN PLUMBING.dwg on Fri, July 26, 2024 at 09:49 AM





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SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS

OMAK, WA 98841

DRAWN BY  
AMZ

CHECKED BY  
BMJ

JOB NUMBER  
231102

REVISIONS

DATE

07.26.2024

SHEET NAME

BLDG H -  
GENERAL  
NOTES

SHEET

E0.02H

### GENERAL NOTES - RENOVATION

- ALL EXISTING TO REMAIN DEVICES, FIXTURE(S), EQUIPMENT, ETC. OPERATIONAL PRIOR TO RENOVATION SHALL REMAIN OPERATIONAL AFTER RENOVATION. CONTRACTOR TO MAINTAIN CONTINUITY OF ALL LINE/LOW VOLTAGE CIRCUITING/CABLING. EXTENDED CONDUIT, CONDUCTOR(S), CABLING, ETC. AS REQUIRED TO MAINTAIN CONTINUITY.
- ALL EXISTING SWITCHES AND DUPLEX RECEPTACLES IN THE AREA OF RENOVATION THAT ARE TO REMAIN AND BE RE-USED SHALL BE REPLACED IN PLACE WITH NEW RECEPTACLE(S), SWITCH(ES) AND FACEPLATES TO MATCH NEW DEVICES.
- EXISTING HOME RUN CONDUITS IN REMODELED AREAS TO BE RETAINED WHEREVER POSSIBLE. HOME RUN CONDUITS ARE TO BE EXTENDED TO NEW FIXTURE, OUTLET, OR SWITCH LOCATION AND NEW WIRING PULLED INTO PANEL.
- ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS, AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL, AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK.
- EXISTING CONDUIT MAY BE REUSED IF IN GOOD CONDITION. CONTRACTOR TO VERIFY CONDITION OF CONDUIT WHERE POSSIBLE. REUSED CONDUIT SHALL HAVE A SWAB PULLED PRIOR TO NEW CONDUCTORS BEING INSTALLED.
- EXACT LOCATION OF EXISTING EQUIPMENT MUST BE FIELD VERIFIED.
- ALL EXISTING EQUIPMENT CLEARANCES TO BE MAINTAINED AND MUST BE VERIFIED WITH ANY NEW EQUIPMENT TO BE INSTALLED.
- ALL EXISTING CIRCUITING FOR EQUIPMENT, RECEPTACLE(S), LIGHT FIXTURE(S), ETC. IN THE RENOVATION AREA SHALL BE VERIFIED. CONTRACTOR SHALL IDENTIFY/MARK EXISTING CIRCUIT/PANEL ON DEVICE/EQUIPMENT.
- CONSIDERABLE EFFORT HAS BEEN MADE TO VERIFY EXISTING CONDITIONS AND LOCATIONS OF EXISTING EQUIPMENT WITH AS-BUILT DRAWINGS AND SITE OBSERVATIONS. DISCREPANCIES MAY EXIST BETWEEN ACTUAL CONDITIONS AND PLANS. CONTRACTOR SHOULD VERIFY ALL EXISTING CONDITIONS FOR DISCREPANCIES IN THE PLANS. CONTRACTOR IS EXPECTED TO WORK THROUGH DISCREPANCIES WITH THE ASSISTANCE FROM THE BUILDING OWNER, ARCHITECT, AND ELECTRICAL ENGINEER.

### GENERAL NOTES - FIRE ALARM

- FIRE ALARM SYSTEM WIRING SHALL BE RUN IN CONTINUOUS METALLIC RACEWAYS AND SHALL BE LISTED FOR THE PURPOSE USED.
- PROVIDE FIRE ALARM SUPERVISORY CABLING AND CONNECTION TO FIRE SPRINKLER TAMPER, FLOW, AND PRESSURE SWITCH(ES). COORDINATE FINAL LOCATIONS WITH FIRE PROTECTION CONTRACTOR.
- PROVIDE ADDRESSABLE DUCT DETECTOR AT EACH FIRE/SMOKE DAMPER (FSD) AND SMOKE DAMPER (SD) LOCATION. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
- PROVIDE 3/4" A-C FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF AND EACH IDF. MOUNT 8' DIMENSION VERTICAL. PAINT FLAT WHITE.
- ALL EXTERIOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF.
- PROVIDE EXTERIOR FIRE ALARM HORN AND STROBE AT LOCATION DIRECTED BY FIRE MARSHALL.

### GENERAL NOTES - RESIDENTIAL

- PROVIDE ARC-FAULT CIRCUIT-INTERRUPTER CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS SERVING OUTLETS OF DEVICES IN RESIDENCE PER NEC 210.12.
- TYPICAL UNITS MAY BE IN MIRRORRED ORIENTATION FROM THOSE SHOWN ON THIS SHEET.
- RECEPTACLE AND RECEPTACLE SPACING REQUIREMENTS TO BE PROVIDED PER NEC 210.52 AT A MINIMUM.
- NM TYPE CABLE MAY BE UTILIZED AND SUBSTITUTED WHERE ALLOWED BY AHJ. SUBSTITUTION MUST BE CONFIRMED WITH ENGINEER OF RECORD AND OWNER PRIOR TO PURCHASE.
- SER TYPE CABLE MAY BE UTILIZED AND SUBSTITUTED WHERE ALLOWED BY AHJ AND SERVING UTILITY. SUBSTITUTION MUST BE CONFIRMED WITH ENGINEER OF RECORD AND OWNER PRIOR TO PURCHASE.

### GENERAL NOTES - DEMOLITION

- COORDINATE DEMOLITION REQUIREMENTS WITH GENERAL CONTRACTOR OWNER PRIOR TO ANY DEMOLITION.
- THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.
- PROVIDE EXTENSION RINGS, COVER PLATES, OR ACCESS DOORS AS NECESSARY TO MAINTAIN ACCESS TO EXISTING WIRING, WHERE REQUIRED BY NEW CONSTRUCTION.
- WHERE "ALL ELECTRICAL SYSTEMS" ARE NOTED TO BE REMOVED FROM AN AREA, REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, LOW-VOLTAGE, CONTROL(S), AND WIRING UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL ELECTRICAL EQUIPMENT DEMOLISHED UNLESS OTHERWISE NOTED TO BE RETURNED TO OWNER.
- REMOVE WIRE BACK TO OVERCURRENT PROTECTIVE DEVICE OR TO UPSTREAM DEVICE REMAINING. MAINTAIN CIRCUITING/CONTINUITY TO EXISTING DEVICES NOT AFFECTED BY DEMOLITION.
- MAINTAIN CIRCUIT CONTINUITY OF ALL EXISTING TO REMAIN RECEPTACLES AND LUMINAIRES.
- WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.
- EXISTING CONDUITS MAY BE REUSED IF POSSIBLE.
- ALL CONDUCTORS WILL BE REMOVED FROM ABANDONED CIRCUITS.
- PROVIDE EXTENSION RINGS, COVER PLATES, OR ACCESS DOORS AS NECESSARY TO MAINTAIN ACCESS TO EXISTING WIRING, WHERE REQUIRED BY NEW CONSTRUCTION.
- PROVIDE BLANK COVER PLATES ON JUNCTION BOXES WHICH ARE NOT REUSED.
- FIELD VERIFY EXISTING CIRCUITING AND MAKE ADJUSTMENTS AS NECESSARY TO THE CIRCUITING SHOWN ON THE PLANS, AS REQUIRED BY FIELD CONDITIONS.
- IF AN ITEM IS TO BE REPLACED, THE CONTRACTOR SHALL RECONNECT ALL EXISTING CONNECTIONS.
- ALL CONDUCTOR(S) TO BE REMOVED IN ABANDONED CONDUIT(S).
- PROVIDE UPDATED TYPED PANELBOARD SCHEDULE(S) INDICATED 'SPARES' FOR REMOVED CIRCUITS.

### GENERAL NOTES - WSEC

- LIGHTING CONTROLS AND CONTROLS COMMISSIONING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH WASHINGTON STATE ENERGY CODE 'WSEC'.
- COMMISSIONING REQUIREMENTS: ALL LIGHTING CONTROLS INCLUDING DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES, THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT CERTIFYING ALL LIGHTING CONTROLS HAVE BEEN COMMISSIONED. INCLUDE CERTIFICATION IN O&M MANUAL.
- ALL LIGHTING CONTROLS TO MEET OR EXCEED THE LATEST ADOPTED WSEC. CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF DRAWINGS/PLANS DO NOT MEET OR EXCEED THE LATEST 'WSEC'.
- TRANSFORMERS: THE MINIMUM EFFICIENCY OF ALL LOW VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMERS SHALL BE THE CLASS 1 EFFICIENCY LEVELS FOR DISTRIBUTION TRANSFORMERS SPECIFIED IN TABLE 4-2 OF THE 'GUIDE FOR DETERMINING ENERGY EFFICIENCY FOR DISTRIBUTION TRANSFORMERS' PUBLISHED BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA TP-1, LATEST EDITION).

### GENERAL NOTES - SITE

- COORDINATE ROUTING OF UNDERGROUND RACEWAYS WITH ALL NEW AND EXISTING UTILITIES. REFER TO CIVIL DRAWINGS.
- CALL BEFORE YOU DIG. CONTRACT WITH A LOCATOR SERVICE TO MARK THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- ALL SITE LIGHTING CIRCUITS TO BE CONTROLLED VIA LIGHTING CONTROL PANEL.
- PROVIDE ALL REQUIRED CUTTING, PATCHING, EXCAVATION, COMPACTION, AND PATCHING FOR INSTALLATION OF UNDERGROUND RACEWAYS.
- BACKFILL ALL TRENCHES WITH STRUCTURAL BACKFILL PER SPECIFICATIONS.
- PROVIDE GLARE SHIELDS FOR ALL POLE MOUNTED LUMINAIRES.

### GENERAL NOTES - POWER

- OUTLETS AND DEVICES SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMAL LATERAL SEPARATION OF 12" OR (1) STUD SPACE.
- NUMBER ADJACENT TO DEVICE/RECEPTACLE INDICATES PANEL AND POLE/CIRCUIT POSITION DEVICE TO BE CIRCUITED TO. PROVIDE MINIMUM 2#12 AWG & 1#12 AWG GND CU IN 3/4" UNLESS NOTED OTHERWISE. CONDUCTOR(S) AND GROUND TO BE INCREASES TO #10 AWG FOR CIRCUIT LENGTH GREATER THAN 100'.
- LOCATIONS OF WALL MOUNTED DEVICES ARE SHOWN SCHEMATICALLY AND ARE NOT DIMENSIONED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, ELEVATIONS, AND CASEWORK/EQUIPMENT SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION OF DEVICES PRIOR TO ROUGH-IN.
- CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION(S) OF ELECTRICAL EQUIPMENT, DISCONNECTS, J-BOXES, ETC. CONTRACTOR TO COORDINATE ROUTING OF ALL FEEDERS, CONDUITS, CONDUCTORS, ETC. WITH FIELD CONDITIONS.
- ALL WORKING SPACE CLEARANCES AND EGRESS ABOUT ELECTRICAL PANELS, SWITCHGEAR, ETC... SHALL COMPLY WITH NEC ARTICLE 110.26 AND ALL LOCAL CODES.
- MECHANICAL EQUIPMENT POWER CONTROL DEVICES (STARTERS, COMBINATION STARTERS, VFDS, ETC.) AND UNIT DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE EQUIPMENT SCHEDULE OR PLANS.
- SEE MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT. CONTRACTOR MUST COORDINATE WITH DIV 22/23 FOR ALL MECHANICAL/PLUMBING EQUIPMENT.
- DESIGN OF ELECTRICAL REQUIREMENTS IS BASED ON MECHANICAL EQUIPMENT SPECIFIED DURING DESIGN. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR IF EQUIPMENT PURCHASED IS DIFFERENT FROM THAT SPECIFIED THAT STILL MEETS DESIGN INTENT, INCLUDING BUT NOT LIMITED TO OVER-CURRENT PROTECTION, LOCAL DISCONNECTING MEANS, AND WIRE SIZING. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES/CHANGES.
- PRIOR TO ORDERING EQUIPMENT OR ROUGH-IN, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ESTABLISH THE ACTUAL LOAD AND OVERCURRENT PROTECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT. CIRCUITING, FUSING, DISCONNECT(S), ETC. MODIFICATIONS MAY BE REQUIRED TO MEET EQUIPMENT MANUFACTURER'S REQUIREMENTS AND NAMEPLATE.
- PRIOR TO ROUGH-IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE WITH THE EQUIPMENT CONTRACTOR TO ESTABLISH ALL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
- MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.
- LABEL ALL RECEPTACLE FACE PLATES WITH PANEL AND CIRCUIT NUMBER. LABEL CAN BE PLACED ON THE INSIDE OF FACE PLATES.
- PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, DISCONNECT SWITCHES, WIRING GUTTERS, VFDS, SWITCHBOARDS, PANELBOARDS, ETC. TO IDENTIFY EQUIPMENT OR EQUIPMENT SERVED. LABELS SHALL BE 1/8" THICK OF PHENOLIC MATERIAL, MACHINE ENGRAVED.
- ALL RECEPTACLES TO BE TAMPER RESISTANT PER NEC 406.12.
- CONTROLLED RECEPTACLES TO BE UNIQUELY IDENTIFIED PER NEC 406.

### GENERAL NOTES - LOW VOLTAGE

- OUTLETS AND DEVICES SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMAL LATERAL SEPARATION OF 12" OR (1) STUD SPACE.
- PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS, AND CEILING.
- PROVIDE ST1 'EZ-PATH 44+' ASSEMBLIES/OR APPROVED EQUIPMENT AT EACH LOCATION WHERE LOW VOLTAGE WIRING PENETRATES A RATED WALL OR CEILING.
- ALL COMMUNICATION/DATA CONDUIT AND CONDUIT STUBS SHALL BE MINIMUM 1" UNLESS NOTED OTHERWISE.
- ALL LOW VOLTAGE WIRING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.
- PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING. SEE SPECIFICATIONS. QUANTITY AND SIZE OF RACEWAYS SHOWN ON PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS REQUIRED.
- MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.
- PROVIDE ALL RACEWAYS AND WIRING REQUIRED TO INSTALL ELECTRONIC DOOR HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS, SCHEDULES, AND DIAGRAMS.
- PROVIDE 3/4" FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF. MOUNT 8' DIMENSION VERTICAL. PAINT FLAT WHITE.

### GENERAL NOTES - UTILITY & SERVICE

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COORDINATION ASSOCIATED WITH THE SERVING UTILITY, INCLUDING BUT NOT LIMITED TO: TRENCHING, BACKFILL, CONDUIT(S), CONDUCTOR(S), TERMINATIONS, METERING REQUIREMENTS, CT-CAN, SERVICE DISCONNECT, COMPLETING AND SUBMITTING ALL NECESSARY APPLICATIONS FOR SERVICE.
- ELECTRICAL CONTRACTOR SHALL PAY ALL UTILITY CONNECTION CHARGES.
- OBTAIN ALL REQUIRED PERMITS AND EASEMENTS.
- CONDUCTOR(S) ARE COPPER UNLESS NOTED OTHERWISE.

### GENERAL NOTES - LIGHTING

- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF EXTERIOR LUMINAIRES.
- REFER TO ARCHITECTURAL PLANS TO DETERMINE PENDANT LENGTH AND ELEVATIONS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF INTERIOR LUMINAIRES AND MOUNTING HEIGHTS.
- COORDINATE THE FINAL LOCATION OF LUMINAIRES IN MECHANICAL ROOMS AND ATTIC SPACES TO AVOID CONFLICTS WITH DUCT WORK, PIPING, AND MECHANICAL EQUIPMENT.
- ALL LUMINAIRES SHALL BE INSTALLED IN COMPLIANCE WITH NEC ARTICLE 410.
- ROUTE ALL EXTERIOR LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
- INSTALL AND WIRE REMOTE DRIVERS. REFER TO LUMINAIRE SCHEDULE. MOUNT IN ACCESSIBLE LOCATIONS. SHOW LOCATIONS ON THE AS-BUILT DRAWINGS.
- PROVIDE UN-SWITCHED PHASE CONDUCTOR TO ALL EXIT SIGNS AND INDICATED LUMINAIRES.
- PROVIDE UNSWITCHED 'CHARGING' CIRCUIT TO ALL BATTERY BACKED FIXTURE(S)
- ALL SWITCHES TO BE 20 AMP 277 VOLT SPECIFICATION GRADE.
- NUMBER ADJACENT TO LIGHT FIXTURE INDICATES PANEL AND POLE/CIRCUIT POSITION DEVICE TO BE CIRCUITED TO. PROVIDE MINIMUM 2#12 AWG & 1#12 AWG GND CU IN 3/4" UNLESS NOTED OTHERWISE. CONDUCTOR(S) AND GROUND TO BE INCREASES TO #10 AWG FOR CIRCUIT LENGTH GREATER THAN 100'.
- LOWER CASE LETTER 'X' NEXT TO SWITCH/LIGHT FIXTURE INDICATES SWITCHING INTENTION.
- EMERGENCY LIGHTING SYMBOLS ARE SHADED ON THE LIGHTING PLANS. EMERGENCY SOURCE SHALL BE BATTERY BACKED BALLAST WITH MINIMUM OF 1400 LUMEN OUTPUT FOR A 90 MINUTE PERIOD, UNLESS NOTED OTHERWISE. PROVIDE UNSWITCHED CONDUCTORS FOR CHARGING CIRCUIT AS REQUIRED.
- LUMINAIRE SCHEDULE INDICATES BASIS OF DESIGN. ALL OTHER MANUFACTURERS AND SUBSTITUTION(S) MUST MEET OR EXCEED ALL REQUIREMENTS OF THE BASIS OF DESIGN. FIXTURE(S) TO BE CONSIDERED 'EQUAL'. SEE LUMINAIRE SCHEDULE.
- ALL CUSTOM COLOR AND FINISHES TO BE CONFIRMED WITH ARCHITECT/OWNER PRIOR TO PURCHASE.
- ALL FIXTURE(S) TO BE LED TYPE UNLESS NOTED OTHERWISE.
- UNDER COUNTER LIGHT LUMINAIRE LENGTH TO BE VERIFIED WITH ARCHITECTURAL ELEVATIONS AND CASEWORK PRIOR TO PURCHASE INSTALLATION.
- ALL ADJUSTABLE LUMINAIRES TO AIMED AS DIRECTED BY THE OWNER/ARCHITECT.
- PROVIDE ADDITIONAL SWITCH LEGS, TRAVELERS, GROUNDS, NEUTRALS, ETC. TO FACILITATE CONTROL OF LIGHTING FIXTURES TO MEET THE INTENT OF THE DESIGN.
- PROVIDE CLASS 2 WIRING BETWEEN ALL LIGHT FIXTURE(S) AND CONTROL DEVICES TO FACILITATE NECESSARY LIGHTING CONTROL.
- ALL FIXTURES WITHIN A GIVEN ROOM/AREA OF THE SAME TYPE INDICATED UNLESS NOTED OTHERWISE.

### GENERAL NOTES - SINGLE/ONE LINE

- FEEDERS ARE COPPER UNLESS NOTED OTHERWISE.
- MINIMUM SHORT CIRCUIT RATING TO BE 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS.
- THE ONE-LINE DIAGRAM IS DIAGRAMMATIC, AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- ALL BUSSING SHALL BE FULLY RATED.
- ALL TRANSFORMERS ARE 480V, 3 PHASE, 3-WIRE PRIMARY; 208Y/120V, 3 PHASE, 4-WIRE SECONDARY; NEMA TP-1 RATED, U.O.N.
- ALL DISTRIBUTION TRANSFORMERS SHALL BE K-4 AND NEMA TP-1 RATED UNLESS NOTED OTHERWISE.
- NOT ALL CIRCUIT BREAKERS MAY BE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.
- PROVIDE SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDY TO INCLUDE ALL OVERCURRENT DEVICES. SET OVERCURRENT DEVICE SETTINGS AS INDICATED BY STUDY. PROVIDE ARC FLASH LABELS AS INDICATED BY STUDY.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 240.21. PROVIDE ADDITIONAL OVERCURRENT PROTECTIONS AS REQUIRED/NEEDED.
- FAULT CURRENT INFORMATION WAS UNAVAILABLE AT TIME OF DESIGN. FAULT CURRENT CALCULATIONS ARE BASED ON AN INFINITE BUS WITH A \_\_\_\_\_ KVA, \_\_\_\_\_ V, 3-PHASE, TRANSFORMER WITH \_\_\_\_\_% IMPEDANCE AND COPPER CONDUCTOR(S). CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT FROM SERVING UTILITY AND NOTIFY ENGINEER OF RECORD PRIOR TO PURCHASE OF ANY ELECTRICAL PANELS/SWICHBOARDS.

### GENERAL NOTES

- REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, AND ALL OTHER STATE AND LOCAL CODES. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER IN WRITING IF PORTIONS OF THE DESIGN SET OR FIELD CONDITIONS DO NOT MEET REQUIRED CODES.
- FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DEPICTED FROM THE PLANS AND SPECIFICATIONS. COMPLETE AS NOTED OR IMPLIED, NOT LIMITED TO WHAT IS SHOWN. IF THERE APPEARS TO BE ANY ITEMS IN CONFLICT WITH THE DRAWINGS, INCONSISTENCIES WITH DESIGN OR INTENT, OR NEED FOR CLARIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY THESE ITEMS PRIOR TO BID IN WRITING WITH THE ENGINEER. IF THE CONTRACTOR FAILS TO CLARIFY ANY QUESTIONS OR INCONSISTENCY, HE ACCEPTS RESPONSIBILITY TO CORRECT AT HIS COST ANY SUCH ITEM TO MEET INTENT AS DEFINED BY THE ENGINEER.
- IT IS THE INTENT OF THE ELECTRICAL CONTRACT DOCUMENTS THAT ALL ELECTRICAL SYSTEMS ARE INSTALLED COMPLETE, TESTED, AND READY FOR OPERATION. WHETHER OR NOT EVERY ITEM OF EQUIPMENT, DEVICE, BOX, ETC... IS SHOWN ON THE PLANS.
- ALL DRAWINGS ARE SCHEMATIC IN NATURE AND ALL APPURTENANCES NOT INDICATED TO MAKE A WORKING SYSTEM MUST BE INCLUDED IN THE CONTRACTOR'S BID. LOCATIONS OF ALL DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, ELEVATIONS, CASEWORK, AND SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.
- ELECTRICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPY OF FINAL INSPECTION REPORT TO THE OWNER.
- SEAL ALL PENETRATIONS IN FIRE RATED WALLS, FLOORS, AND CEILINGS WITH A U.L. APPROVED FIRE STOP SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO ELECTRICAL DEVICE, RACEWAY, AND CABLE PENETRATIONS. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FIREWALL LOCATIONS/DESIGNATIONS.
- ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC. MOUNTED IN THE FIRE RATED CEILINGS OR WALL SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALLS BY THIS CONTRACTOR. ALL FIRE RATED WALLS TO MAINTAIN ORIGINAL FIRE RATINGS.
- ALL WIRING DEVICES SHALL BE OF THE SAME MANUFACTURER AND SHALL MATCH THROUGHOUT. VERIFY WITH SPECIFICATIONS AND OWNER/ARCHITECT FOR DEVICE COLOR(S) & FINISHES.
- COLOR CODE WIRES AS FOLLOWS:  

CONDUCTORS	120/208V	277/480V
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	WHITE OR GRAY
GROUND	GREEN	GREEN
- ALL WIRE SIZE #8 OR LARGER SHALL BE STRANDED TYPE THHN/THWN. ALL WIRE #10 OR SMALLER TO BE SOLID TYPE. MINIMUM SIZE #12 UNLESS OTHERWISE INDICATED.
- PROVIDE A GROUND CONDUCTOR IN ALL RACEWAYS.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- PROVIDE MINIMUM 220 LB PULL STRING IN ALL EMPTY RACEWAYS.
- PROVIDE ALL EXPANSION FITTINGS, PITCH POCKETS, EQUIPMENT SUPPORTS, AND ACCESS DOORS AS REQUIRED FOR ELECTRICAL WORK.
- ALL CONDUIT RUNS USING PVC CONDUIT SHALL USE RGD OR IMC FOR ANY BEND OVER 45 DEGREES AND ALL 90 DEGREE ELBOWS.
- ALL UNDERGROUND CONDUITS SHALL BE MINIMUM OF 1" CONDUIT THROUGHOUT UNDERGROUND SYSTEM UNLESS OTHERWISE INDICATED.
- ALL CONDUIT PENETRATING SLAB IN EXPOSED LOCATIONS SHALL BE RIGID STEEL.
- CATALOG NUMBERS USED IN SYMBOLS LIST AND FIXTURE SCHEDULE ARE TO BE AS NOTED OR APPROVED EQUALS. MAINTAIN SPECIFIED GRADE.
- THE CONTRACTOR SHALL ENSURE THAT THE ENTIRE ELECTRICAL SYSTEM ASSOCIATED WITH THIS PROJECT IS GROUNDED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ARTICLE 250 OF THE N.E.C.
- DO NOT CUT OR ALTER STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED LISTING AGENCY.
- ALL RACEWAYS IN FINISHED SPACES SHALL BE CONCEALED.
- ALL CONDUIT AND RACEWAY SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE, AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, CEILINGS, OR FLOORS.
- PROVIDE METALLIC RACEWAY FOR WIRING RUNNING THROUGH WALLS, FLOOR, AND CEILINGS. ALL WIRING AND CABLING NOT INSTALLED IN METALLIC RACEWAYS SHALL BE PLENUM RATED.
- EACH TRADE CONTRACTOR IS RESPONSIBLE FOR SUSPENDED SUPPORTS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL SUB-CONTRACTORS SHALL COORDINATE WITH EACH OTHER FOR ELEVATION PRIOR PLACEMENT OF GRADED PIPES, LARGE DUCTWORK, EQUIPMENT, CONDUIT, FIRE PROTECTION, AND LIGHTING.
- IF THERE APPEAR TO ANY ITEMS IN CONFLICT WITH THE DRAWINGS, INCONSISTENCIES WITH DESIGN OR INTENT, OR NEED FOR CLARIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY THESE ITEMS PRIOR TO BID IN WRITING WITH THE DESIGN TEAM/ENGINEER.



STUDIO+  
ARCHITECTS  
9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS  
OMAK, WA 98841

DRAWN BY  
RID  
CHECKED BY  
NJJ  
JOB NUMBER  
231102

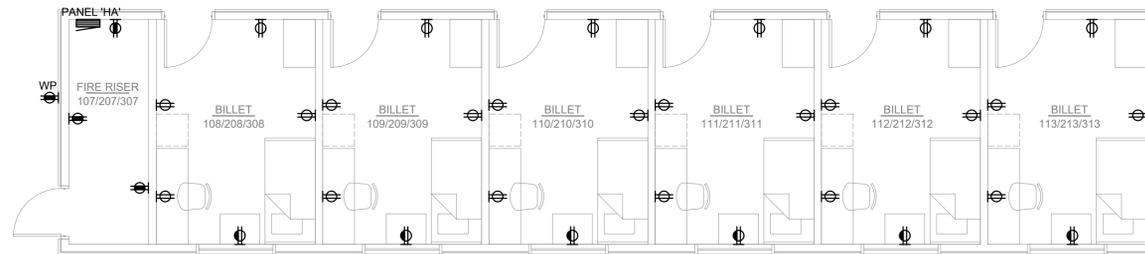
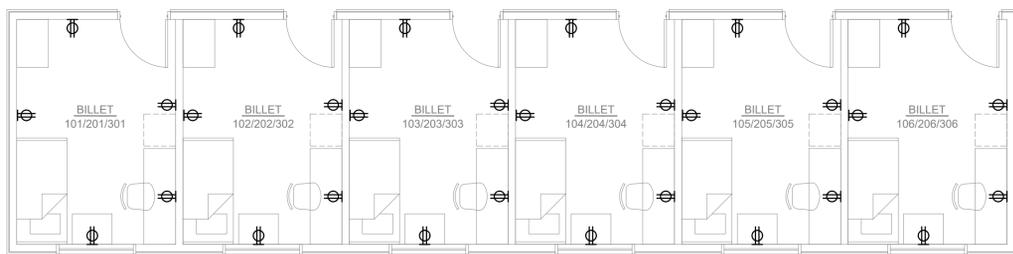
REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG H -  
FLOOR  
PLAN -  
LIGHTING  
& POWER  
SHEET

E1.01H

KEY NOTES
1. TBD



**1** BUILDING H - FLOOR PLAN - LIGHTING & POWER  
Scale: 3/16" = 1'-0"

P:\2024\24-37 - DNR OMAK Fire Center\Cad\H - Sleeping Quarters\24-37 - H - E1.01H - FLOOR PLAN LIGHTING & POWER.dwg on Fri, July 26 2024 at 10:23 AM



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SPOKANE, WA 99201



DNR OMAK  
FIRE CENTER  
BUILDING H  
BILLETS  
OMAK, WA 98841

DRAWN BY  
AMZ  
CHECKED BY  
BMJ  
JOB NUMBER  
231102

REVISIONS

DATE  
07.26.2024

SHEET NAME  
BLDG H -  
ROOF  
PLAN -  
ELEC

SHEET  
E1.02H

KEY NOTES
1. TBD



1

**BUILDING H - ROOF PLAN - ELEC**

Scale: 3/16" = 1'-0"



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9 S WASHINGTON ST, SUITE 518  
SPOKANE, WA 99201

DNR OMAK FIRE CENTER  
OMAK, WA 98841

DRAWN BY  
JJ  
CHECKED BY  
CG  
JOB NUMBER  
231102

REVISIONS

DATE  
07.26.2024

SHEET NAME  
ARCH  
OVERALL  
SITE PLAN

SHEET  
A1.00

1 ARCHITECTURAL SITE PLAN

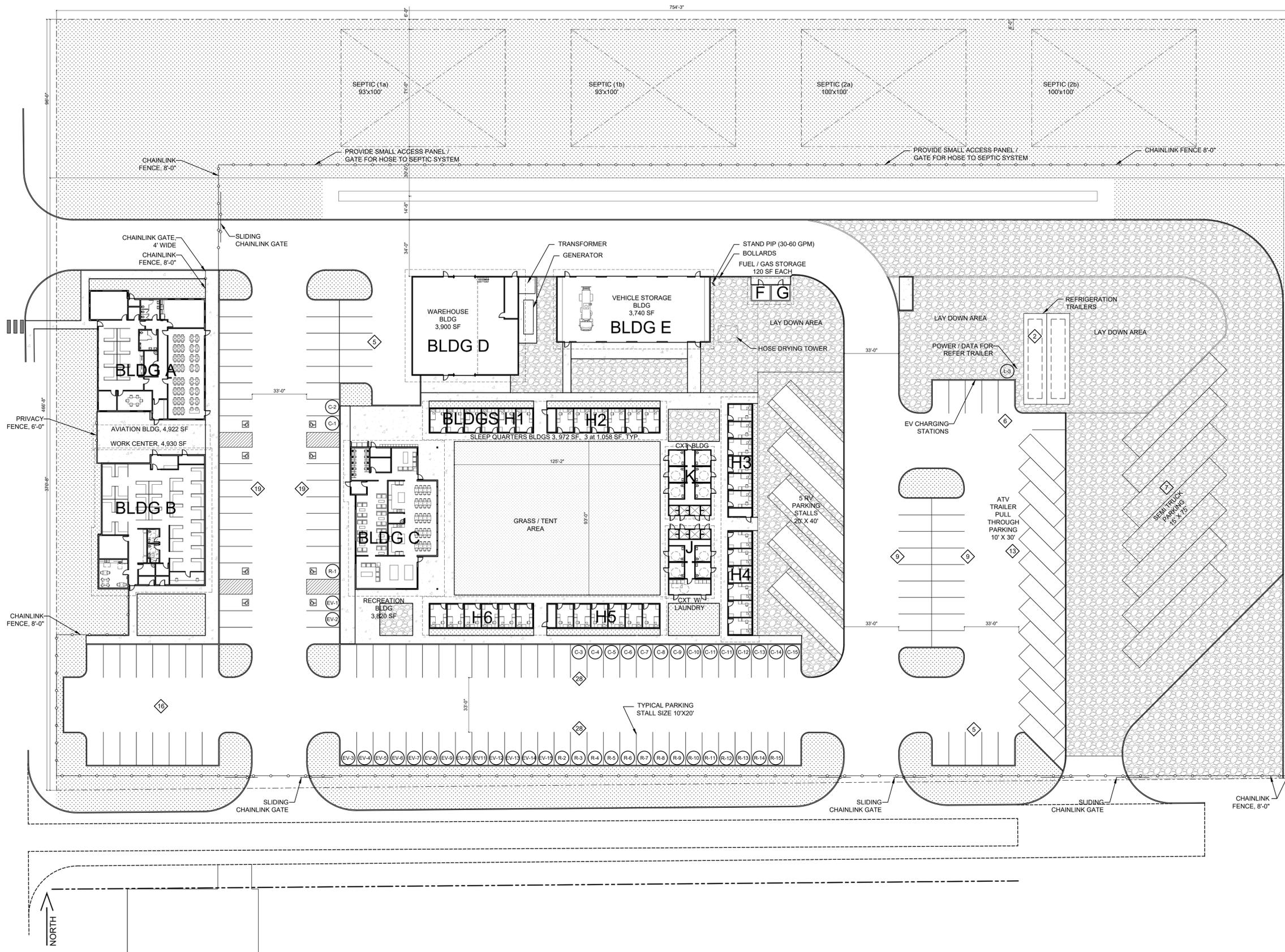
SCALE: NTS

**SITE PLAN LEGEND:**

-  ASPHALT
-  CONCRETE
-  GRAVEL
-  NATIVE LANDSCAPING
-  LANDSCAPE AREA
-  PARKING COUNT
-  EV CHARGING STATION
-  EV READY PARKING SPACE
-  EV CAPABLE PARKING SPACE
-  EV LEVEL 3 CHARGER
-  ROLLED CURB
-  STANDARD CURB
-  ACCESSIBLE ROUTE TO BUILDING ENTRANCE, ACCESSIBLE PARKING STALLS AND SIDEWALKS AMENITIES. SLOPES LESS THAN 2%

**SITE PLAN NOTES:**

- CURRENT LOT SIZE  
754'-3" x 466'-8" = 349,234 SF, 8.017 ACRES
- 144 PARKING COUNT - STANDARD STALLS
- 13 UTILITY TRAILER PARKING
- 7 TRACTOR TRAILER PARKING
- 2 REFRIGERATOR TRAILER PARKING



**1 ARCHITECTURAL SITE PLAN**

SCALE: nts

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000651**Project Title:** Colville Firefighter Housing Project

## Description

**Starting Fiscal Year:** 2026**Project Class:** Program**Agency Priority:** 8

### Project Summary

The Department of Natural Resources requires a new facility for seasonal firefighters at the Northeast region headquarters, in Colville. The final design will include the construction of a dormitory space, life-support facilities, meal preparations space, latrine, laundry facilities, and office space. This space is required due to the sale of the former Chewelah Learning Center, which has displaced seasonal firefighters in the Northeast region.

### Project Description

#### Project Description:

The Department of Natural Resources' (DNR) Fire Program currently leases a portion of 31,500 square foot collection of facilities that was formerly operated as the Chewelah Learning center to house seasonal fire personnel and provide office space to a cadre of permanent fire personnel. The six buildings that make up the site sit on public trust land and were built by the Association of Washington School Principals in 2007. In 2020, the Association cancelled the lease and conveyed the improvements that constitute the complex to the Department.

In 2022, the DNR's Northeast Region Fire Program began leasing 17,800 sq ft of the site from the trust to house seasonal personnel and base permanent fire positions that represented program growth resulting from funding appropriated via the Wildfire Response, Forest Restoration and Community Resilience Act. The site is not desirable as a location for the basing of fire personnel as the location is remote from response areas and access during the winter for permanent personnel is problematic because of winter weather conditions and infrequent clearance by the County.

DNR has experienced significant issues recruiting and retaining seasonal fire personnel in rural areas absent from an ability to provide some form of lodging for the duration of the fire season. Seasonal personnel cannot afford full-year leases for part year employment and prior to the use of Chewelah site, some seasonal personnel lived out their vehicles or at campgrounds. The Chewelah site provided a best-available immediate interim solution to meet requirements for both program growth and seasonal billeting of fire personnel.

In the exercise of fiduciary responsibility, the controlling trust associated with the Chewelah site has determined the sale of the site is necessary. The costs to repair and maintain the infrastructure far exceeds the potential for revenue potentially available through lease of the site and therefore the responsibility exists to divest via a sale.

DNR's Wildfire program has a requirement to develop a permanent solution for seasonal dormitory space and life support facilities at another location. The Department's evaluation is that the best available solution is to further develop the existing Headquarters location in Colville to accommodate dormitory, life-support and additional office space.

#### **What will the request produce or construct? When will the project start and be completed?**

At end state, this project will construct 30 unisex dormitory spaces, a shower and latrine facility, a laundry facility, a meal preparation and common area, and replace a mobile office trailer at the point of recapitalization in life cycle with larger office building that will accommodate 10 resident users and 20 external users. This project is envisioned to occur in three phases over three successive biennia beginning in the 2025-27 biennium. The first of the three phases is pre-design, planned for the 2025-27 biennium. The second phase of the project is the full design phase planned for the 2027-29 biennium. The third and

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:54PM

Project Number: 40000651

Project Title: Colville Firefighter Housing Project

## Description

final phase of the project is the construction phase occurring in the 2029-31 biennium. Specifically, this request is for the pre-design phase of the project.

### How would the request address the problem or opportunity? What would be the result of not taking action?

This request begins the detailed planning via a pre-design to establish permanent, expanded facilities at DNR's Colville site to accommodate firefighting personnel with dormitory accommodations, life-support infrastructure inclusive of shower and laundry facilities, meal preparation, communal space and workspace for fire personnel. If the Department is unable to move forward with planning for expansion of the Colville site the Department risks the ability to recruit, train and retain approximately 38% of the seasonal firefighter workforce for the northeast corner of the state. The Department relies on roughly 80 seasonal firefighters to meet staff requirements in the area based at Deer Park and Colville. The Department relies on out of area residents to fill many of these seasonal positions and Colville, a 90-minute drive north of Spokane is outside of the distance personnel are willing to commute for seasonal employment.

### What alternatives were explored? Why was the recommended alternative chosen?

DNR investigated three alternative courses of action in the process of determining to pursue further development at Colville.

- 1) The Department reviewed the potential of acquiring the Chewelah property as an administrative via purchase from the trust. This course of action was quickly abandoned for several reasons involving suitability as well as short-term and long-term costs.
  - a. First, the complex at Chewelah was far larger than necessary to support requirements. Although DNR is leasing roughly 17,000 square feet, it is using considerably less than that amount. The entire site includes approximately 31,000 square feet, and the cost to operate and maintain the site far exceeds that which is either necessary or affordable. Per OFM table costs, the minimum cost to operate the site, excluding janitorial service, personnel costs including that of maintenance positions and communications costs, the cost to operate the site for a biennium exceeds \$462,000.
  - b. Secondly, the facilities require substantial investment in deferred maintenance requirements and replacement of building systems that require replacement. A cursory inspection by the Department's Maintenance Manager indicated requirements for investment of between five and seven million dollars in the work necessary to sustain the site. Work necessary included roof repairs, HVAC repairs and replacement, septic and plumbing system repairs and replacement and other miscellaneous work to the six structures.
  - c. Finally, the site is not in a suitable location to support fire suppression activities or for the basing of permanent fire positions. The site is well off of the main transportation routes to reposition the fire response resources and adds travel time associated with dispatch to fires. Winter access is problematic for permanent personnel due to snow and ice accumulation and infrequent clearance of the road. Although partial lease of the site was suitable as an interim solution in the absence of other available alternatives, the site is not located such that it is an acceptable enduring solution.
- 2) DNR reviewed the potential of leasing a different site. Based on OFM table data using the median lease cost for that region of the state (\$21 per square foot plus \$2.93 utility costs), the cost for annual lease of the necessary 11,740 square feet equates to an annual lease cost of \$281,000 per year. Although the cost is significant, the primary issue that precludes this course of action is the absence of existence, let alone availability within the real estate market of any type of property that remotely matches the space type requirements of this project in the greater Colville area.
- 3) The third course of action that DNR briefly reviewed was the potential of development on DNR managed land in the greater Colville area. The Department discarded this course of action for the following reasons.
  - a. The Department did not identify a suitable owned site.
  - b. The Department estimates the cost of construction on a previously undeveloped site exceeds that of developing on an

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:54PM

Project Number: 40000651

Project Title: Colville Firefighter Housing Project

**Description**

existing site such the Colville Headquarters site to be ten to 15% higher given the cost to of changes in land use, permitting and establishment of utilities.

c. The Department determined that from an administrative and leadership perspective, it was far less desirable to separate the facilities at a different location than to consolidate the facilities at a location where supervision is fully present and therefore avoid the added cost in both liability and increased overhead of inherent to split-based operations.

Based on the reasoning outlined above, DNR determined that the best available course of action was to pursue further development at the Colville Headquarters site.

**Which clientele would be impacted by the budget request?**

The primary beneficiaries of this project are the agency employees servicing this portion of the state. The indirect beneficiaries of this project are the users of public lands in the area, and private landowners that will continue to receive expanded fire suppression response efforts.

Specifically, this project directly benefits approximately 40 Department of Natural Resources positions including both seasonal and permanent personnel.

**Does this project or program leverage non-state funding? If yes, how much by source?**

This project does not leverage non-state funding.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project supports priority one by significantly improving the working conditions for personnel operating in the area and will support continued fire suppression response efforts. This project supports priority three and priority four by effectively positioning resources, including those in support of fire response, in position to affect positive outcomes, and with the means to act effectively.

**Does this request include funding for any IT-related cost?**

This project does not include any IT-related costs.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This project is not related to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Collectively, the total square footage of the structures expected to result from this decision package below the square footage threshold for inclusion of Tier II reporting requirements under the Clean Buildings Act.

This project will, however, replace one energy inefficient mobile office trailer with a new structure that meets the standards of the new building code and is therefore far more efficient to operate with respect to energy use. The building design will take full consideration of opportunities to reduce energy cost and use and utilize electric rather than fossil fuel powered systems.

**How is your proposal impacting equity in the state?**

490 - Department of Natural Resources  
**Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:54PM

Project Number: 40000651

Project Title: Colville Firefighter Housing Project

**Description**

This project relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards posed by the absence of adequate infrastructure to support Departmental missions.

**Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay.

**Is there additional information you would like decision makers to know when evaluating this request?**

Please see attached slides.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This project is not linked to the Governor’s Salmon Strategy.

**Location**

City: Colville

County: Stevens

Legislative District: 007

**Project Type**

New Facilities/Additions (Major Projects)

**Growth Management impacts**

The Department does not anticipate issues regarding the Growth Management act as the site is within the city limits of Colville and is of a use type already permitted at an operational Department owned location.

**New Facility:** Yes

**How does this fit in master plan**

This project will consolidate operations from two sites to a single site and recapitalize one mobile office trailer that is at the end of its life cycle.

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	387,000				387,000
	<b>Total</b>	<b>387,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>387,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**OFM**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 3:54PM

**Project Number:** 40000651

**Project Title:** Colville Firefighter Housing Project

**Operating Impacts**

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**No Operating Impact**

**Narrative**

N/A

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## **HEAL Act Questions**

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	Colville Firefighter Housing
OFM Project Number	

Contact Information	
Name	Wayne Skill
Phone Number	360-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet		MACC per Gross Square Foot	
Usable Square Feet		Escalated MACC per Gross Square Foot	
Alt Gross Unit of Measure			
Space Efficiency		A/E Fee Class	A
Construction Type	Courthouses	A/E Fee Percentage	17.40%
Remodel		Projected Life of Asset (Years)	50
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	Yes
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	8.00%	Location Used for Tax Rate	Colville
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	
Project Administered By	Agency		

Schedule			
Pre-design Start	September-25	Pre-design End	June-27
Design Start	September-27	Design End	June-29
Construction Start	October-29	Construction End	June-31
Construction Duration	20 Months		

Green cells must be filled in by user

Project Cost Summary			
Total Project	<b>\$343,773</b>	Total Project Escalated	<b>\$388,616</b>
		Rounded Escalated Total	<b>\$389,000</b>
Amount funded in Prior Biennia			\$0
<b>Amount in current Biennium</b>			<b>\$387,000</b>
Next Biennium			\$0
Out Years			\$1,000

Acquisition			
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0

Consultant Services			
Pre-design Services	\$210,000		
Design Phase Services	\$0		
Extra Services	\$60,000		
Other Services	\$0		
Design Services Contingency	\$13,500		
<b>Consultant Services Subtotal</b>	<b>\$283,500</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$315,922</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$0	Maximum Allowable Construction Cost (MACC) Escalated	\$0
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$0		\$0
Non-Taxable Items	\$0		\$0
Sales Tax	\$0	Sales Tax Escalated	\$0
<b>Construction Subtotal</b>	<b>\$0</b>	<b>Construction Subtotal Escalated</b>	<b>\$0</b>

Equipment			
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$0</b>	<b>Equipment Subtotal Escalated</b>	<b>\$0</b>

Artwork			
Artwork Subtotal	\$1,933	Artwork Subtotal Escalated	\$1,933

Agency Project Administration			
Agency Project Administration Subtotal	\$11,340		
DES Additional Services Subtotal	\$39,900		
Other Project Admin Costs	\$7,100		
<b>Project Administration Subtotal</b>	<b>\$58,340</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$70,761</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$343,773</b>	Total Project Escalated	<b>\$388,616</b>
		Rounded Escalated Total	<b>\$389,000</b>

# C-100(2024)

Updated June 2024

## Quick Start Guide

### GENERAL INFORMATION

- 1) The intended use of the C-100(2024) is to enable project managers to communicate their project cost estimates to budget officers in the standard format required for capital project budget requests/submittals to OFM.
- 2) This workbook is protected so that the worksheets within it cannot be moved or deleted in the usual manner. This protection is necessary to ensure that the cost estimate details and formulas align with the estimating application in the Capital Budgeting System.
- 3) The estimating format to develop the maximum allowable construction cost (MACC) is presented in Uniformat II.
- 4) Form-calculated costs such as A/E Basic Design Service fees and Agency Project Management costs are dependent on other estimated project costs such as MACC, equipment, etc.
- 5) Project estimates generated with this tool are not sufficient for budget request submittals to OFM. Use the Capital Budgeting System to submit capital project budget requests and attach the C-100 form.
- 6) Contact your assigned OFM Capital Budget Analyst with questions.

[OFM Capital Budget Analyst](#)

### INSTRUCTIONS

- 1) Only green cells are available for data entry.
- 2) Fill in all known cells in the 'Summary' tab prior to moving on to the cost entry tabs A-G.
- 3) It is recommended, but not required, to fill out cost entry tabs in the following order:  
A. Acquisition, C. Construction Contracts, D. Equipment, G. Other Costs, B. Consultant Services, F. Project Management, then E. Artwork.
- 4) If additional rows are inserted to capture additional project costs, a description must be provided in the Notes column or within Tab H. Additional Notes. Be particularly detailed for additional costs estimated for contingencies and project management.

### FORM-CALCULATED COSTS (FEE CALCULATIONS)

- 1) A/E Basic Design Services:  $AE\ Fee\ \% \times (MACC\ or\ TCC + Contingency)$
- 2) Design Services Contingency:  $Contingency\ \% \times Consultant\ Services\ Subtotal$
- 3) Construction Contingency:  $Contingency\ \% \times MACC\ or\ TCC$
- 4) Artwork:  $0.5\% \times Total\ Project\ Cost$
- 5) Agency Project Management (Greater than \$1million):  $(AE\ Fee\ \% - 3\%) \times (Acquisition\ Total + Consultant\ Services\ Total + MACC + Construction\ Contingency + Other\ Costs)$

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$0				\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$315,922		\$316,520		-\$598
<b>Construction</b>					
Construction Subtotal	\$0				\$0
<b>Equipment</b>					
Equipment Subtotal	\$0				\$0
<b>Artwork</b>					
Artwork Subtotal	\$1,933				\$1,933
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$70,761		\$70,895		-\$134
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0
<b>Project Cost Estimate</b>					
Total Project	\$388,616	\$0	\$387,415	\$0	\$1,201
	\$389,000	\$0	\$387,000	\$0	\$1,000
Percentage requested as a new appropriation			100%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**

Pre-design. New appropriation is for the pre-design phase, the first of three phases.

*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**

*Insert Row Here*

**What is planned with a future appropriation?**

Future appropriations are planned in successive biennia for design (27-29) and construction (29-31).

*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition					
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis	\$50,000				
Environmental Analysis	\$50,000				
Predesign Study	\$110,000				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$210,000</b>		<b>1.1023</b>	<b>\$231,483</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$0				69% of A/E Basic Services
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1344</b>	<b>\$0</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)					
Geotechnical Investigation	\$15,000				
Commissioning					
Site Survey					
Testing	\$20,000				
LEED Services					
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)	\$25,000				Storm water analysis
Landscape Consultant					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$60,000</b>		<b>1.1344</b>	<b>\$68,064</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$0				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$13,500				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$13,500</b>		<b>1.2129</b>	<b>\$16,375</b>	Escalated to Mid-Const.

CONSULTANT SERVICES TOTAL

\$283,500

\$315,922

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation					
G20 - Site Improvements					
G30 - Site Mechanical Utilities					
G40 - Site Electrical Utilities					
G60 - Other Site Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1802</b>	<b>\$0</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements					
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1802</b>	<b>\$0</b>	
<b>3) Facility Construction</b>					
A10 - Foundations					
A20 - Basement Construction					
B10 - Superstructure					
B20 - Exterior Closure					
B30 - Roofing					
C10 - Interior Construction					
C20 - Stairs					
C30 - Interior Finishes					
D10 - Conveying					
D20 - Plumbing Systems					
D30 - HVAC Systems					
D40 - Fire Protection Systems					
D50 - Electrical Systems					
F10 - Special Construction					
F20 - Selective Demolition					
General Conditions					
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
	<i>NA</i>			<i>NA per 0</i>	

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**7) Owner Construction Contingency**

Allowance for Change Orders	\$0		
Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.2129</b>	<b>\$0</b>

**8) Non-Taxable Items**

Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.2129</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$0</b>		<b>\$0</b>
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<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$0</b>		<b>\$0</b>
-------------------------------------	------------	--	------------

Green cells must be filled in by user

## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings					
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$0</b>			<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$1,933				0.5% of total project cost for new construction 0.5% of total project cost for new and renewal construction
Higher Ed Artwork	\$0				
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$1,933</b>		<b>NA</b>	<b>\$1,933</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$11,340				
Additional Services	\$39,900				
Other	\$7,100				Archaeologist
Insert Row Here					
<i>Subtotal of Other</i>	<i>\$7,100</i>				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$58,340</b>		<b>1.2129</b>	<b>\$70,761</b>	

Green cells must be filled in by user

## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.1802</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

*Insert Row Here*

**Tab B. Consultant Services**

Pre-design inclusive of doritory space, office space and Kitchen/common area space.

Site is existing DNR Region Headquarters site in Colville; requires significant coordination with City.

*Insert Row Here*

**Tab C. Construction Contracts**

*Insert Row Here*

**Tab D. Equipment**

*Insert Row Here*

**Tab E. Artwork**

*Insert Row Here*

**Tab F. Project Management**

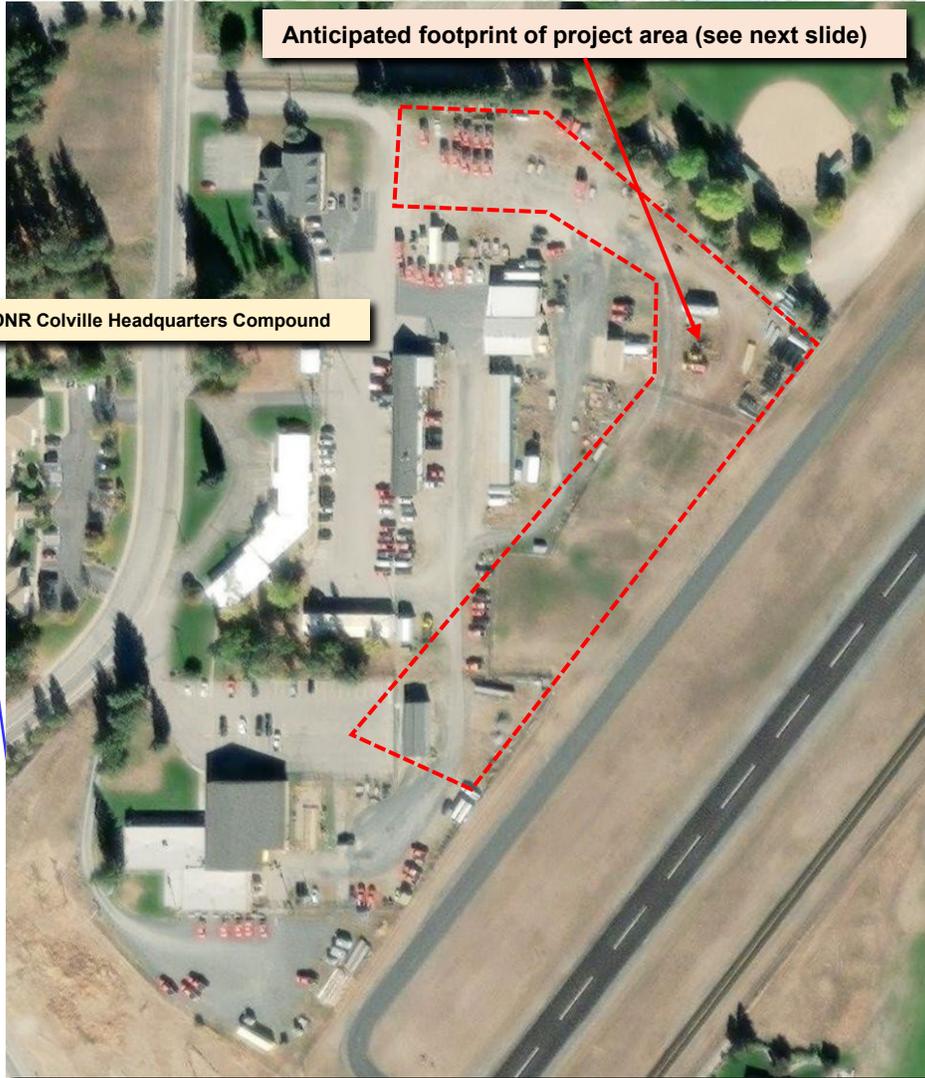
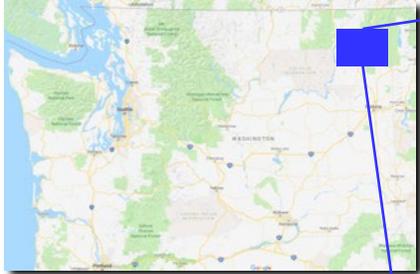
Requires Archaeologist and Construction Project Coordinator

*Insert Row Here*

**Tab G. Other Costs**

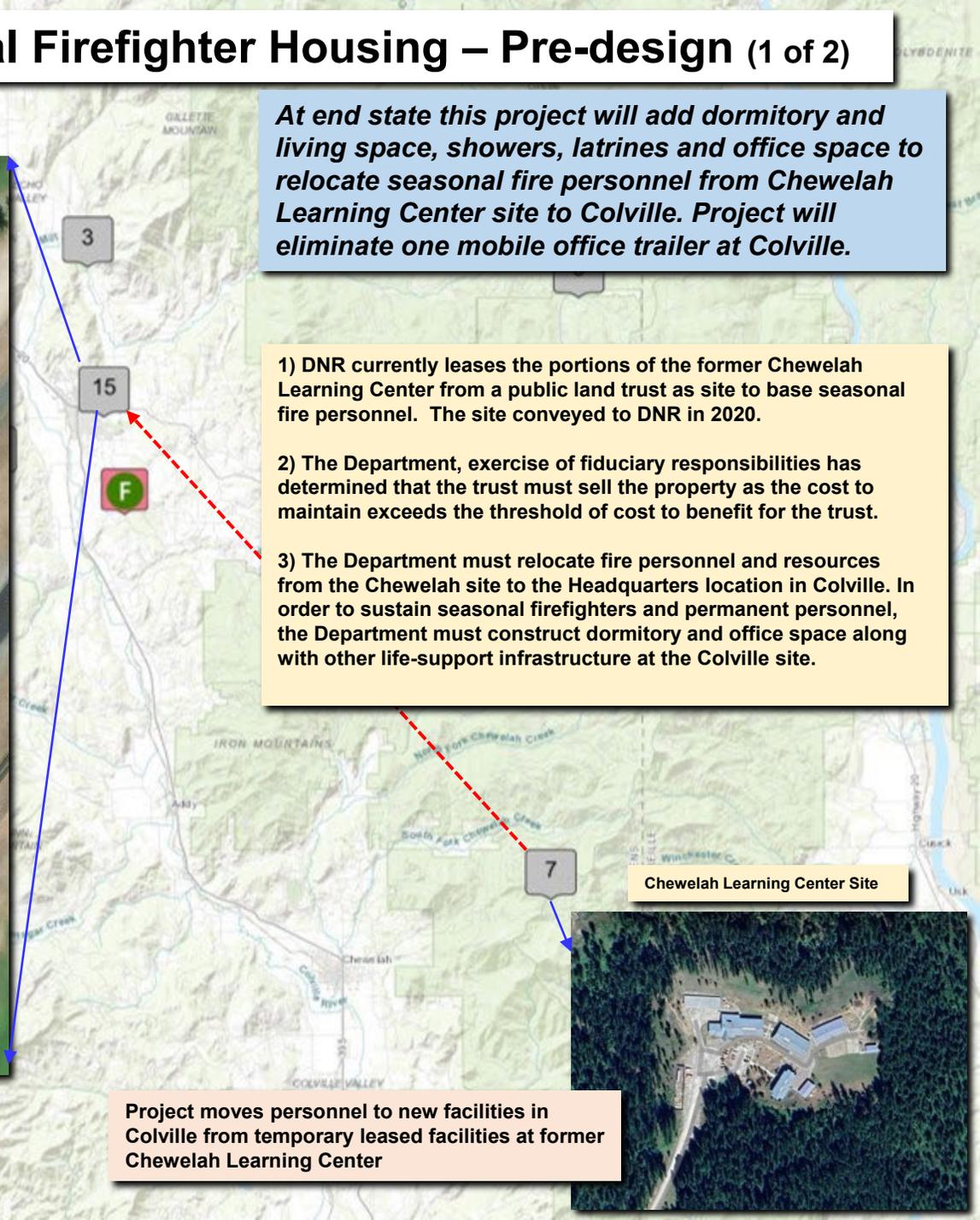
*Insert Row Here*

# Colville Seasonal Firefighter Housing – Pre-design (1 of 2)



*At end state this project will add dormitory and living space, showers, latrines and office space to relocate seasonal fire personnel from Chewelah Learning Center site to Colville. Project will eliminate one mobile office trailer at Colville.*

- 1) DNR currently leases the portions of the former Chewelah Learning Center from a public land trust as site to base seasonal fire personnel. The site conveyed to DNR in 2020.
- 2) The Department, exercise of fiduciary responsibilities has determined that the trust must sell the property as the cost to maintain exceeds the threshold of cost to benefit for the trust.
- 3) The Department must relocate fire personnel and resources from the Chewelah site to the Headquarters location in Colville. In order to sustain seasonal firefighters and permanent personnel, the Department must construct dormitory and office space along with other life-support infrastructure at the Colville site.



**Project:**  
2025 Request: **\$387,000**  
2025 Phase: **Pre-design.**

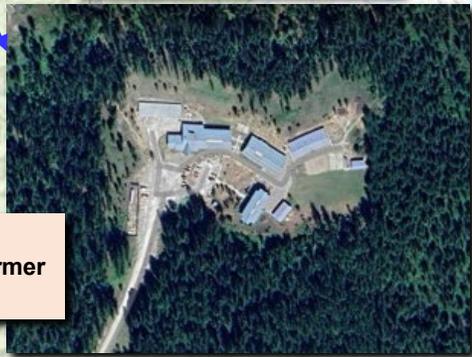
**Total Project Cost: \$TBD as a result of Pre-design.**

End state of project is construction of an estimated 11700 square feet of housing, kitchen, dayroom, shower/latrine, and office facilities at the Department's Colville site. The pre-design will determine regulatory permissibility requirements, programming requirement, estimated cost and configuration of the project. One existing mobile office trailer will undergo demolition during the final construction phase.

Operating impact or request: \$0 for '25-'27

Project located on existing DNR property at the Northeast Region Headquarters site in Colville.

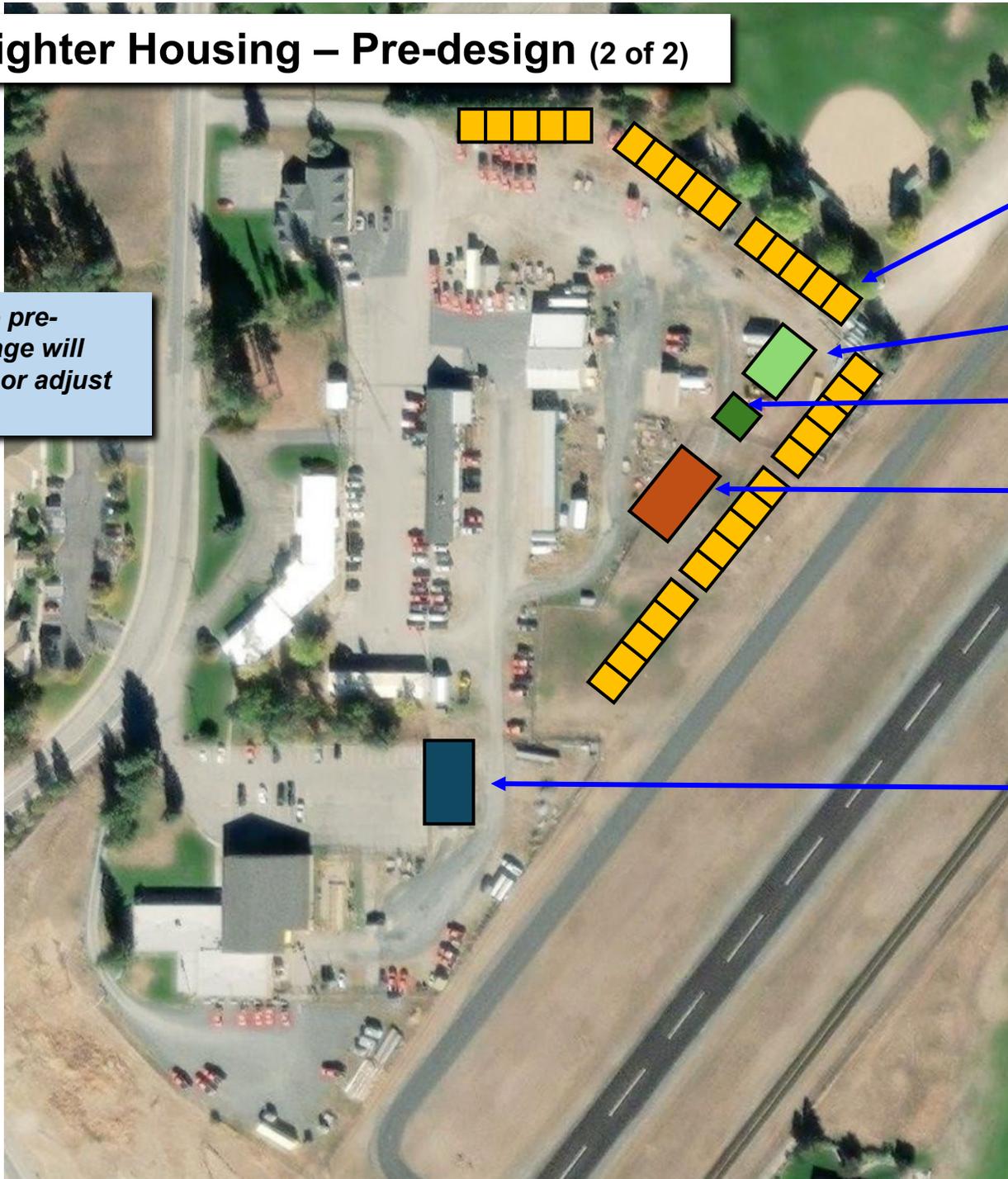
Project moves personnel to new facilities in Colville from temporary leased facilities at former Chewelah Learning Center



# Colville Seasonal Firefighter Housing – Pre-design (2 of 2)

## Facilities in Pre-design

*This schematic is conceptual only. The pre-design requested in this decision package will determine the feasibility of the concept or adjust the direction of the design process.*



Dorm rooms – individual unisex – 30 ea. Total 4740 SF in 6 buildings

CXT Latrine/Shower – unisex – 1300 SF

CXT Laundry/Ice Machines – 400-500 SF

Day Room/Kitchen – 2000 SF

Office Building – 10 resident/20 external users – 3000 SF (demo existing mobile office trailer at site)

## Capital Project Request

2025-27 Biennium

**Project Number:** 40000444**Project Title:** School Seismic Safety Site Class Assessments**Description****Starting Fiscal Year:** 2026**Project Class:** Program**Agency Priority:** 9**Project Summary**

We send over a million children to school daily, expecting them and their teachers to be safe. However, many buildings cannot withstand earthquakes, putting lives at risk. The School Seismic Safety Project (SSSP) evaluates how public K-12 schools in Washington would respond to ground shaking. This project, led by the Washington Geological Survey (WGS)—part of the Department of Natural Resources (DNR)—and the Office of Superintendent of Public Instruction (OSPI), aims to assess and communicate the seismic risk to schools, decision makers, and the public, helping to reduce potential losses during an earthquake.

**Project Description****Identify the problem or opportunity addressed. Why is the request a priority?**

We need to ensure the safety of students and staff at K-12 schools during earthquakes. It's crucial to understand how school buildings handle earthquake shaking. Well-designed buildings can withstand shaking with little damage, while poorly designed ones can fail, causing injuries or deaths. The type of soil and ground also affects shaking. Some soil amplifies shaking, while others reduce it. This project examines how the ground will respond during an earthquake at school sites statewide. These site characteristics, combined with a seismic assessment of school buildings, determine each building's vulnerability, and provide information for planning upgrades and mitigation.

Washington State ranks second in the nation for seismic risk. Parents expect schools to be safe, but many schools aren't built to modern seismic codes and may collapse during an earthquake. Washington has over 4,000 K-12 public school buildings and as many portables, making them key candidates for seismic preparedness.

In general, there are three steps to help make schools more resilient. This project funds step one at schools throughout the state and builds on our past and current efforts.

**1. Geologic Site Class Assessments:** WGS/DNR geologists use geologic mapping and geophysics to examine ground conditions beneath school campuses to see how the ground will respond to shaking during an earthquake. These feed engineering assessments to determine if buildings can withstand the expected earthquake shaking.

**2. Engineering Assessments:** Starting in 2023, the legislature gave money to OSPI through the Capital Budget to hire engineers to check school buildings for earthquake risk and estimate the cost of fixing them.

**3. Seismic Retrofit of School Buildings:** Using the information from steps one and two, OSPI and school districts can prioritize seismic retrofits and mitigation measures using additional state, federal, and local funding.

DNR is committed to assisting OSPI with their grant process to ensure all school campuses are assessed, providing OSPI and the local school districts with the information they need to prioritize and implement seismic retrofits and other mitigation measures.

**What will the request produce or construct? When will the project start and be completed?**

This project would start July 1, 2025, and has been funded for the last three biennia (2017–2025). By June 30, 2025, data will be collected for about half of the school campuses in the state. We expect the project to continue for two or three more biennia or until all the school campuses have been assessed.

The findings for the geologic investigation at each school campus will be summarized in district-wide site class assessment reports, similar to the reports produced for past phases of the School Seismic Safety Project<sup>1</sup> (SSSP). The SSSP is a joint

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:51PM

Project Number: 40000444

Project Title: School Seismic Safety Site Class Assessments

## Description

WGS and OSPI multi-phase project that couples site characterization with a detailed American Society of Civil Engineers (ASCE/SEI) 41-7 Tier-1 engineering screenings (completed by OSPI).

In addition, the assigned site class and shear wave velocity value (Vs30) for each school will be added into OSPI's Information and Condition of Schools (ICOS) system, which tracks important information for school infrastructure and hazards. All results and raw data for each campus will be added into the existing WGS shear-wave database and made available for public consumption. These data are also beneficial to the U.S. Geological Survey and will be added to their national Vs30 database for inclusion in their updated ShakeMaps and national seismic hazard planning. The site class data collected at each school campus will be beneficial for not only schools but also for future efforts to update the statewide seismic design category map which utilizes shear wave velocity data (Vs30). These data are critical for residential and commercial building design requirements and permitting.

### How would the request address the problem or opportunity? What would be the result of not taking action?

This request builds off decades of advocacy and work in Washington and across the nation recognizing schools as a vulnerable and critical infrastructure that are in dire need of seismic retrofits. This request helps to fulfill a key component of the seismic retrofit of school buildings.

Not taking action would mean that OSPI would instead use reconnaissance-level design category mapping, potentially resulting in inadequate retrofit designs.

### What alternatives were explored? Why was the recommended alternative chosen?

In the past, we looked at different options:

**1.Requesting more funding for DNR:** This would speed up the completion of all campuses but was not chosen because DNR wanted to work with OSPI's Study and Survey Grant program for better integration.

**2.Combining this request with OSPI's Study and Survey Grant funding:** This was considered but not selected because OSPI does not have the technical expertise in site-class assessments.

We believe this is the best method because it provides essential information for OSPI's School Seismic Safety Retrofit Grant Program, provides the necessary funding to complete the work in coordination with OSPI, and the work is being completed by subject-matter experts.

### Which clientele would be impacted by the budget request?

This project supports school districts and OSPI by providing information to help mitigate risks associated with earthquake hazards. School seismic mitigation and preparedness improves overall community resilience and provides communities with the necessary lifelines to return their children to school, allowing other aspects of society to function. Additionally, if schools are able to withstand the earthquake, they may have the ability to function as emergency relief shelters by providing staging areas and shelter for the community.

### Does this project or program leverage non-state funding? If yes, how much by source?

Completing the site-class assessments outlined in this project does not have any non-state funding.

There are some grant programs, notably the BRIC program through FEMA, that can be used for mitigation once the site-class assessments have been completed.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:51PM

Project Number: 40000444

Project Title: School Seismic Safety Site Class Assessments

**Description****Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This request ties into the DNR's Strategic Plan<sup>2</sup> under Goal B2.3 Communicate relevant and timely information about risks from natural hazards to landowners, policy makers and the public, and assist communities in planning. It is also relevant to Goal D3: Effective systems to prepare for, and mitigate harm from, landslides, floods, tsunamis, earthquakes, and volcanoes. This request also is responsive to recommendations to Governor Inslee within the 2012 Resilient Washington Report<sup>3</sup> and subsequent 2017 update<sup>4</sup> by the Seismic Safety Committee, a subcommittee of the Emergency Management Council. Additionally, this project is responsive to performance outcomes within Improving Washington's Resiliency, part of Governor Inslee's Results Washington initiative.

**Does this request include funding for any IT-related cost?**

No.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

No.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

As schools are identified as in need of a seismic retrofit and funding becomes available, it provides schools with a good opportunity to make their school buildings more energy efficient when doing a major remodel.

**How is your proposal impacting equity in the state?**

This project aims to assess seismic safety at schools statewide so that this information is available to all schools in Washington to understand the hazard and make informed decisions. We often deliver outreach to rural and underserved communities.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

N/A

**NEW: If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relate to a salmon strategy action**

N/A

**NEW: Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:51PM

Project Number: 40000444

Project Title: School Seismic Safety Site Class Assessments

**Description**

subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

The following positions and costs are included in this request:

- 2 FTEs at the Natural Resource Scientist 3 level to be program leads and project managers.
- 1 FTE at the Natural Resource Scientist 2 level to be a field team leader and data processor.
- 0.5 FTE at the Natural Resource Scientist 2 level to be a field team leader.
- 1.0 FTE at the Natural Resource Scientist 1 level (3 positions for 4 months a year) to be field assistants.
- Funding for travel for field work.
- Funding for field equipment maintenance and supplies.

This proposal is asking for funding to staff the School Seismic Safety Program at a similar level to the 23-25 biennium when DNR received a total of \$1,263,000 in funding from both the operating (\$600,000 in 23-25) and capital budget (\$663,000) to complete this work. This current funding request (\$1,165,400) will allow us to continue at this pace and staffing level to expedite our data collection efforts so that our results can be used by OSPI and engineers to complete school seismic retrofits.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	3,495,000				1,165,000
	<b>Total</b>	<b>3,495,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,165,000</b>

		Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	1,165,000	1,165,000		
	<b>Total</b>	<b>1,165,000</b>	<b>1,165,000</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

**OFM**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 3:51PM

**Project Number:** 40000444

**Project Title:** School Seismic Safety Site Class Assessments

### **Operating Impacts**

---

**No Operating Impact**

**Narrative**

Funding in Operating budget was one-time only.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

There are many school buildings in overburdened communities or that serve vulnerable populations. For many of these people, schools are a foundational aspect of life, providing shelter, food, medical care, childcare, and communities of support for families. Major damage to these schools from an earthquake would have an outsized effect on these people compared to others in better-resourced areas. Our focus on assessing schools statewide and in areas of high seismic risk helps to ensure all schools have access to information about seismic risk and building vulnerability.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

At least half of the schools planned for site-class assessment in the 2025-2027 biennium are included in the OBC map.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

There are no identified potential significant impacts from this proposal to Indian Tribes' rights, interests, or traditional practices.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms

for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Engagement with Tribes will occur if they participate in the OSPI Study and Survey Grant Program, which is the trigger for the site-class assessment.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

NA

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

NA

## Attachment 1

1. [School Seismic Safety | WA - DNR](https://www.dnr.wa.gov/school-seismic-safety) -- https://www.dnr.wa.gov/school-seismic-safety
2. [DNR's 2022-25 Strategic Plan | WA - DNR](https://www.dnr.wa.gov/strategicplan) -- https://www.dnr.wa.gov/strategicplan
3. [Resilient Washington State—A Framework for Minimizing Loss and Improving Statewide Recovery after an Earthquake; Final Report and Recommendations \(2012\)](https://www.dnr.wa.gov/Publications/ger_ic114_resilient_washington_state.pdf) - https://www.dnr.wa.gov/Publications/ger\_ic114\_resilient\_washington\_state.pdf
4. [Resilient Washington Recommendation 6 \(2017 Update\)](https://mil.wa.gov/asset/5ba4206543f69) - https://mil.wa.gov/asset/5ba4206543f69

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:35PM

Project Number: 40000597

Project Title: EV Infrastructure

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 10

### Project Summary

The Department of Natural Resources (DNR) is requesting \$20M in the 2025-27 biennium – and a total of \$60M over three biennia – for design and construction of the infrastructure needed to electrify the agency's light fleet of vehicles statewide. Last biennium, DNR received funding for an assessment of needs to create a state-wide charging infrastructure. (The study was funded through the Carbon Emissions Reduction Account—State Appropriation 23-25 ESHB 1125.). The state-wide study (Investment Grade Audit-IGA) produced detailed recommendations for charger purchase and installation. This request for \$20M will enable DNR to move forward on those recommendations for enabling full light-fleet electrification.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

This funding will provide the infrastructure for electrification of DNR's light-fleet vehicles. The large-scale electrification of the agency's light fleet is the single most substantive measure that the agency can take to reduce greenhouse gas (GHG) emissions and help meet Washington State's Climate Leadership objectives.

To meet the 2030 requirement for reducing greenhouse gas emissions (GHGe), to a 45% reduction below 2005 levels, it is vital that DNR be funded to move forward with large-scale electrification as soon as possible. If DNR fails to receive proper funding for light-fleet electrification, the agency will not be able to meet the 2030 emissions reduction requirement and will likely fail the 2040 and 2050 targets as well. While electrification of the light fleet alone will not guarantee meeting the 2030 metric, it is the single largest currently actionable measure that the agency can take to reduce emissions. No other combined actions could result in meeting the 2030, 2040, and 2050 metrics without also electrifying this segment of the agency's fleet.

#### What will the request produce or construct? When will the project start and be completed?

This request (designed to be recurring through the 29-31 BI) will fund DNR to design, procure, and install electric-vehicle supply equipment (EVSE) i.e. charging stations, at agency-owned locations across the state. This will enable a near full switch to electric vehicles for DNR's light fleet by the end of 2030. The EVSE will be appropriately sized to each location and consistent with the IGA study created by MacDonald-Miller Facility Solutions working through the Department of Enterprise Services (DES) Energy Savings Performance Contracting (ESPC) program. If funded, final design work and permitting would begin FY26.

For preliminary budget, see attached consulting report, Washington State Department of Natural Resources Statewide EVSE Assessment, pp 56.

#### How would the request address the problem or opportunity? What would be the result of not taking action?

This request addresses the needs to substantially reduce carbon emissions from gasoline usage, and to control green-house gases emitted from agency operations. These goals will be achieved by creating statewide infrastructure that will enable DNR to replace gasoline-powered vehicles with electric vehicles and to operate them across the state. Failure to take action on this request will result in DNR not meeting the state's mandated 2030 greenhouse gas reduction targets, and it will greatly hinder DNR's efforts to meet the even more aggressive 2040 and 2050 targets.

#### What alternatives were explored? Why was the recommended alternative chosen?

Alternatives were explored prior to the 23-25 ESHB1125 mandate which directed and funded DNR solely for the purpose of: (1) commissioning an assessment of state-wide fleet-charging infrastructure expansion; (2) developing a charger installation

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:35PM

Project Number: 40000597

Project Title: EV Infrastructure

## Description

plan by location with cost estimates; and (3) procuring and deploying electric pickup trucks to gather practical information that would support planning efforts and future large-scale electric vehicle adoption.

Prior to the current biennium, DNR investigated grant opportunities to help fund EV chargers, but with agency recharging stations not being for public use, the agency did not qualify for the grants.

The agency already has a long-standing history of purchasing the most fuel-efficient gasoline and hybrid-powered light-fleet vehicles. Detailed analysis of the agency's annual GHG emission reporting and the assessment work revealed that there are no viable alternatives that would enable the agency to reduce this amount of carbon emissions without fleet electrification.

### Which clientele would be impacted by the budget request?

Approx. 35 DNR-owned locations would have appropriately-sized EV charging installations completed. Statewide, this is estimated to be a total of 398 level II EV chargers and 77 level III rapid chargers. By utilizing 1 dual head depot charger for every 2 vehicles, a dedicated level II charge port will be available for each vehicle at agency locations. This number of chargers and charger design, dispersed across the respective locations is an operational requirement necessary to support up to 1,000 electric vehicles for everyday agency use. It is necessary for these vehicles to be charged during non-work hours (overnight), as vehicles with extended range batteries can take up to 16 hours to charge. This style of dedicated depot charging will maximize available range, and essentially eliminate the need to charge for hours during the workday, enabling them to be available for field staff that travel long distances daily to work in remote locations. While these chargers would be installed to serve agency needs, the benefits of clean transportation, reduced fuels usage, and carbon emissions reductions will accrue to all communities and residents of the state where DNR-owned vehicles travel and work.

### Does this project or program leverage non-state funding? If yes, how much by source?

In the future, this project might be able to leverage small-scale electrical utility incentives and grants arising from the Inflation Reduction Act and the Building Infrastructure Law. Going forward, DNR will make every effort to offset some of the legislative investment for this project, but as the grants are not guaranteed and are available only in the areas served by the utilities, their benefit is limited and **cannot** be considered part of the core funding. Examples of possible grants:

- Avista's Make-Ready Commercial Electric Vehicle Charging Equipment program covers 100% of installation costs up to \$5,000 per charging port. – Applicable at locations where Avista is the utility provider.
- Puget Sound Energy's Up & Go Electric for Fleet provides incentive funding at \$4,000 per Level 2 charging head and \$60,000 per Level 3 head capped at \$250,000 per site. – Applicable at locations where PSE is the utility provider.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project supports the agency's 2022-2025 Strategic Plan, Goal D2.1 Reduce greenhouse gas emissions from DNR's operations while meeting DNR program goals, objectives, and deliverables. Additionally, DNR's Strategic Plan, Goal D.1.2 Implement DNR's Plan for Climate Resilience and address climate risks through policies and practices. Under DNR's Plan for Climate Resilience the agency has identified performance metric 3. 3.2. Reducing Carbon Emissions: Reduce greenhouse gas (GHG) emissions from DNR fleet and facilities by 75% by 2040. DNR's Strategic Plan and Plan for Climate Resilience goals around GHG emissions reductions were identified through agency GHG annual reporting data. In the 2024 State Agency GHG Emissions Reduction Strategy report (required under RCW.70A.45.050), DNR identified fleet emissions as the largest contributor to agency GHG emissions and therefore is a priority project to implement both electric charging infrastructure and fleet electrification to meet agency emissions reduction goals.

### Does this request include funding for any IT-related cost?

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:35PM

Project Number: 40000597

Project Title: EV Infrastructure

**Description**

This DP does not include funding for any IT costs. It is anticipated that an ongoing service expense will be required for subscription-based charger networking after the first round of installations in the 25-27 biennium are completed. The intention will be to have the maintenance and support of the charger connectivity and network functions contracted out. These costs will become applicable in the 27-29 biennium and DNR's IT will need to vet the cybersecurity protocols used by the contractors who will maintain the network and provide user support. It is not expected that any ongoing IT staffing would be needed to maintain the charger network.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

N/A

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project is driven by, and directly contributes to, meeting greenhouse gas emission reduction requirements established in RCW 70A.45.050. DNR's electrification of its light fleet will depend on the infrastructure investments requested in this DP. The funding is needed for Electric Vehicle Supply Equipment (EVSE) infrastructure that will enable electrification of DNR's light fleet, significantly reducing carbon emissions from DNR activities around the state. If this request is made actionable, DNR will have a viable chance of meeting the 2030 requirements from RCW 70A.45.050.

**How is your proposal impacting equity in the state?**

All counties are represented in the distribution of the 35 facilities to receive EVSE installations under this proposal. For a detailed presentation of sites and numbers of anticipated charging stations, see Figure 6.1: Existing and Recommended EVSE by Location in the DNR Statewide EVSE attachment. The facilities where installations are planned are all located on DNR-owned or long-term-leased land. The EVSE installations are planned to serve DNR-owned electric vehicles, and electric vehicles traveling to DNR for state business needs only. Benefits of reduced carbon emissions will accrue to all residents of the state equally with no preferential benefit falling to a demographic or location.

**Is this project eligible for Direct Pay?**

Unknown at this time.

**Is there additional information you would like decision makers to know when evaluating this request?**

DNR has successfully leveraged funding from the 23-25 Biennium to initiate a statewide assessment of fleet electrification and electric charging infrastructure. If appropriate ongoing funding is secured, DNR would be a leader across Washington state agencies for fleet electrification, with the potential to be the first agency to implement fleet electrification at scale. This project would serve as a model for how other WA state agencies could be successful at fleet electrification. Indirectly, this project may support behavior shifts at the individual scale as staff members are able to use and experience an EV vehicle without having to purchase one. This may encourage adoption of electric technologies, or at least expedite the knowledge and interest of community members that see early adoption by a state agency. This project is eligible for Climate Commitment Act funding in Account 26C.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:35PM

Project Number: 40000597

Project Title: EV Infrastructure

**Description**

needed.  
N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Infrastructure (Major Projects)

**Growth Management impacts**

No new facilities are planned. Charging stations will be installed at existing DNR locations.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	60,000,000				20,000,000
	<b>Total</b>	<b>60,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000,000</b>

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State	20,000,000	20,000,000		
	<b>Total</b>	<b>20,000,000</b>	<b>20,000,000</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

**Total one time start up and ongoing operating costs**

Acct Code	Account Title	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
FTE	Full Time Employee	3.0	3.0	3.0	3.0	3.0
001-1	General Fund-State	9,816,000	9,809,000	9,809,000	9,809,000	9,809,000
	<b>Total</b>	<b>9,816,000</b>	<b>9,809,000</b>	<b>9,809,000</b>	<b>9,809,000</b>	<b>9,809,000</b>

**490 - Department of Natural Resources  
Capital Project Request****2025-27 Biennium**

\*

**Version:** 27 2025-27 DNR Capital Submittal**Report Number:** CBS002**Date Run:** 9/10/2024 4:35PM**Project Number:** 40000597**Project Title:** EV Infrastructure**Operating Impacts****Narrative**

See DNR Operating Package "Light-Fleet Electrification" Recommendation Summary: To meet the state's 2030 target for reducing greenhouse gas emissions, the Department of Natural Resources (DNR) must electrify its light-fleet vehicles. DNR is requesting funding of \$19.625M for the 25-27 biennium to continue purchasing Electric Vehicles (EVs), and bolster limited internal funding for replacing light-duty vehicles with EVs. This request expands upon the work DNR did in 2023-25 to do a statewide EV charging infrastructure assessment and piloting an EV program across the state.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes. This DP responds to **Washington State's Climate Leadership Act** directing state agencies to reduce greenhouse gas emissions and to DNR's voluntary cooperation with Executive Order 21-04 to transition state government vehicles to an all-electric fleet by 2035. Electrification of DNR's light fleet is a core strategy for meeting the agency's greenhouse gas emissions reduction (GHGe) targets. Without this funding, DNR will not be able to meet 2030 targets and will have increasing difficulty meeting future GHGe targets in 2040 and 2050.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This project will dramatically reduce carbon emissions created from DNR's gasoline-powered fleet vehicles. The reduction in carbon emissions creates a tangible benefit to the areas in which the vehicles are stationed, and in all communities that the agency travels through and operates within. There is a direct correlation between reducing carbon emissions from DNR vehicles and providing environmental and health benefits to local communities and agency staff.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

A minimum of 20% of DNR's light-fleet vehicles are assigned in overburdened communities among vulnerable populations, so, an equivalent proportion of the

project's funding would create environmental benefits in those areas. (See MacDonald-Miller report, Figure 3.1.) This degree of benefit would increase during busy months for forestry and fires. This rough estimate was developed by adding up the vehicles assigned to locations identified on the map of overburdened communities and comparing that figure to the total number of light-fleet vehicles.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No known potential significant impacts to Tribes' rights or to Tribal lands.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

The Agency undertakes this project pursuant to statewide carbon emissions reduction efforts. The project is not deemed to have any negative effects towards tribal governments.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A



WASHINGTON STATE DEPARTMENT OF  
**NATURAL RESOURCES**

# Washington State Department of Natural Resources Investment Grade Audit Statewide EVSE Assessment

2024-798 A (1)

June 27, 2024

Prepared For:

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FACILITY SOLUTIONS

## TABLE OF CONTENTS

<b>1. EXECUTIVE SUMMARY .....</b>	<b>2</b>
<b>2. DNR LOCATIONS .....</b>	<b>4</b>
DNR Regions and Programs	4
<b>3. FLEET ANALYSIS.....</b>	<b>7</b>
Existing Light Fleet	7
Future BEV Light Fleet	11
<b>4. UTILITY ANALYSIS.....</b>	<b>13</b>
Electricity	13
Vehicle Fuel	13
Greenhouse Gas Emissions	13
<b>5. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).....</b>	<b>14</b>
About EVSE	14
EVSE Strategies	14
<b>6. RECOMMENDATIONS.....</b>	<b>15</b>
<b>7. GREENHOUSE GAS EMISSIONS REDUCTION .....</b>	<b>54</b>
<b>8. PRELIMINARY BUDGET .....</b>	<b>56</b>
<b>9. PRELIMINARY SCHEDULE .....</b>	<b>60</b>
<b>APPENDIX I .....</b>	<b>61</b>
Building energy baseline and utility rate schedules	61
<b>APPENDIX II .....</b>	<b>75</b>
Light fleet inventory and analysis	75
<b>APPENDIX III .....</b>	<b>90</b>
EVSE product data sheets	90

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## 1. EXECUTIVE SUMMARY

The following targeted Investment Grade Audit (IGA) report includes an assessment of electrical infrastructure and analysis of building energy for 35 sites, as selected by the Washington State Department of Natural Resources (DNR), and vehicle fuel consumption for DNR's light fleet. The intent of the report is to evaluate the feasibility and costs related to installing electric vehicle supply equipment (EVSE) at agency-owned locations to support full electrification of the agency's nearly 1,000 light-duty fleet vehicles.

In undertaking this work, DNR is responding to Washington State's 2020 update of its State Agency Climate Leadership Act. The Act directed state agencies to lead by example in reducing their greenhouse gas emissions (GHGe) and set the following requirements for emissions reductions:

- 15% below 2005 baseline by 2020
- 45% below 2005 by 2030
- 75% below 2005 by 2040
- 95% below 2005 by 2050, achieve net zero

Governor Inslee also implemented Executive Order 21-04 aimed at transitioning state government vehicles to an all-electric fleet by 2035. The order applies to all executive and cabinet agencies under the governor's direction. The order also encourages investment in EVSE at state facilities. This will ensure that adequate charging infrastructure is available for the transition to zero-emission vehicles.

While DNR is not formally bound by EO 21-04, the agency has chosen to participate in the governor's executive order to the amount practicable. This aligns with the goals of the State Efficiency and Environmental Performance (SEEP) office. DNR has chosen electrification of its light fleet as a core strategy for meeting the agency's GHGe reduction requirements.

This study focuses only on the feasibility of installing EVSE for light-duty vehicles at these 35 locations in support of electrification of the light-duty fleet. The facilities reflect diversity of size, location, and use. The regional offices generally have more robust electrical infrastructure, but also a greater concentration of vehicles including pool vehicles. Most of the remaining buildings in the assessment are smaller and more remote, with fewer vehicles and limited electrical infrastructure. At most of the buildings studied, supporting the EVSE will require additional utility service or upgrades to the existing service. The investment required to support light-fleet electrification at these locations is estimated at \$60,000,000.

DNR's electrification of its light fleet will depend on infrastructure investments identified in this report. DNR's total GHGe for the 2023 reporting year was 11,405 metric tons (MT) of CO<sub>2</sub>. Of this, 9,351 MT CO<sub>2</sub> was related to fleet operations and 4,955 MT CO<sub>2</sub> was from gasoline use. If these investments can be funded, DNR can reduce its gasoline specific fleet-related emission by about 45% or more than 2,200 metric tons of carbon per year through these actions alone. Additional GHGe reductions will be

realized as DNR pursues decarbonization of its heavy fleet and works to electrify small-motored equipment.

This IGA report constitutes the first of two deliverables. The second will be an Implementation Plan to be delivered no later than June 1, 2025. The Implementation Plan will focus on specific tasks and milestones for installation of EVSE at each of the sites studied.

## 2. DNR LOCATIONS

### DNR Regions and Programs

DNR has six upland region offices and three aquatic districts that help to provide localized services throughout Washington State.

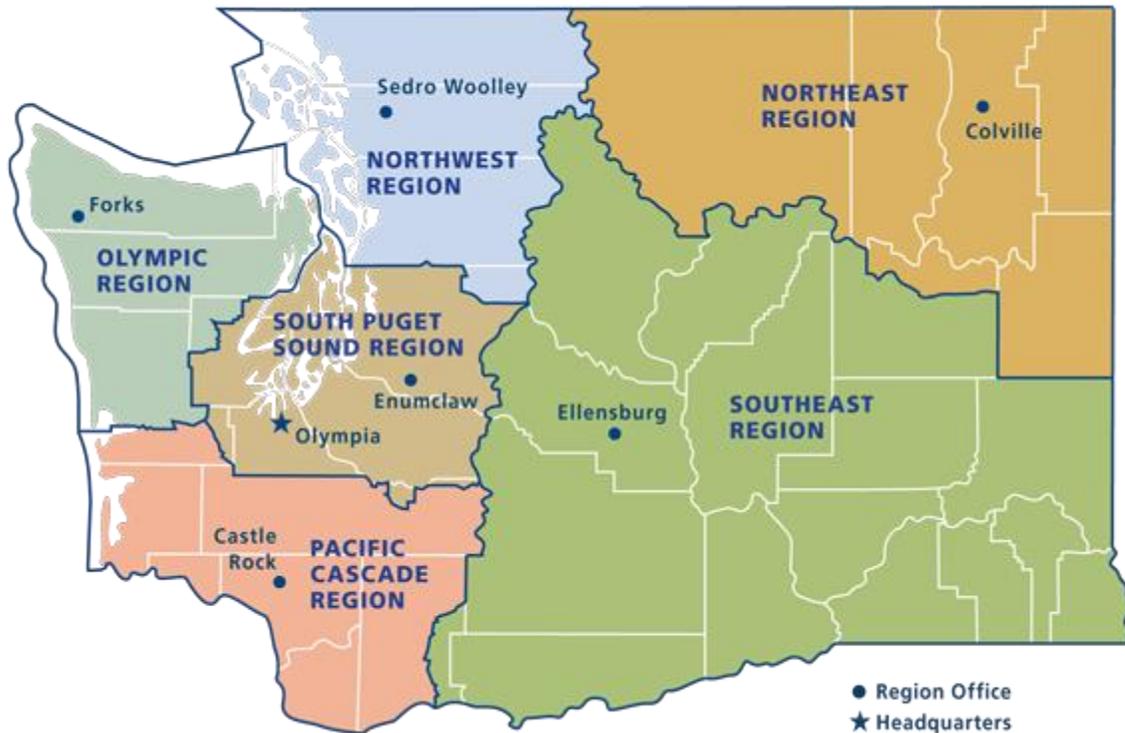


Figure 2.1: DNR Region Map

DNR has selected 35 initial sites for evaluation of EVSE infrastructure. These include six regional offices and a variety of remote camps, fire stations, and work centers. These sites represent a wide variety of geographic locations, and each presents its own operational challenges.

Northwest	Northeast	Olympic	Pacific Cascade	South Puget Sound	Southeast
Granite Falls	Chewelah	Chimacum	Battle Ground	Belfair	Ahtanum
<b>Sedro Woolley</b>	<b>Colville</b>	Forks - Oly Camp	<b>Castle Rock</b>	<b>Enumclaw</b>	Cle Elum
	Deer Park	<b>Forks - Oly HQ</b>	Chehalis	Lacey	Dallesport
	Loomis Highlands	Port Angeles	Kalama	Littlerock	<b>Ellensburg</b>
	Loomis Log House		Longview	North Bend	Glenwood
			Naselle	Tumwater - DNR Hangar	Goldendale
			North Bonneville	Tumwater - Greenhouse	Naches
			Menlo	Tumwater - Webster	
				Tumwater Compound	

*bold text denotes regional headquarters*

Figure 2.2: EVSE Project Locations



Figure 2.3: GIS Map – State View

An initial web map was created in ArcGIS showing utility service locations for each site studied in the IGA. This is the same format and platform used for other DNR GIS resources.

Map pins indicate service locations. Attribute tables provide details on the utility provider and service phase, voltage, and amperage. The map will be updated with locations of new utility services where needed, EVSE assets, and other system attributes during implementation.



Figure 2.4: GIS Map – Local View

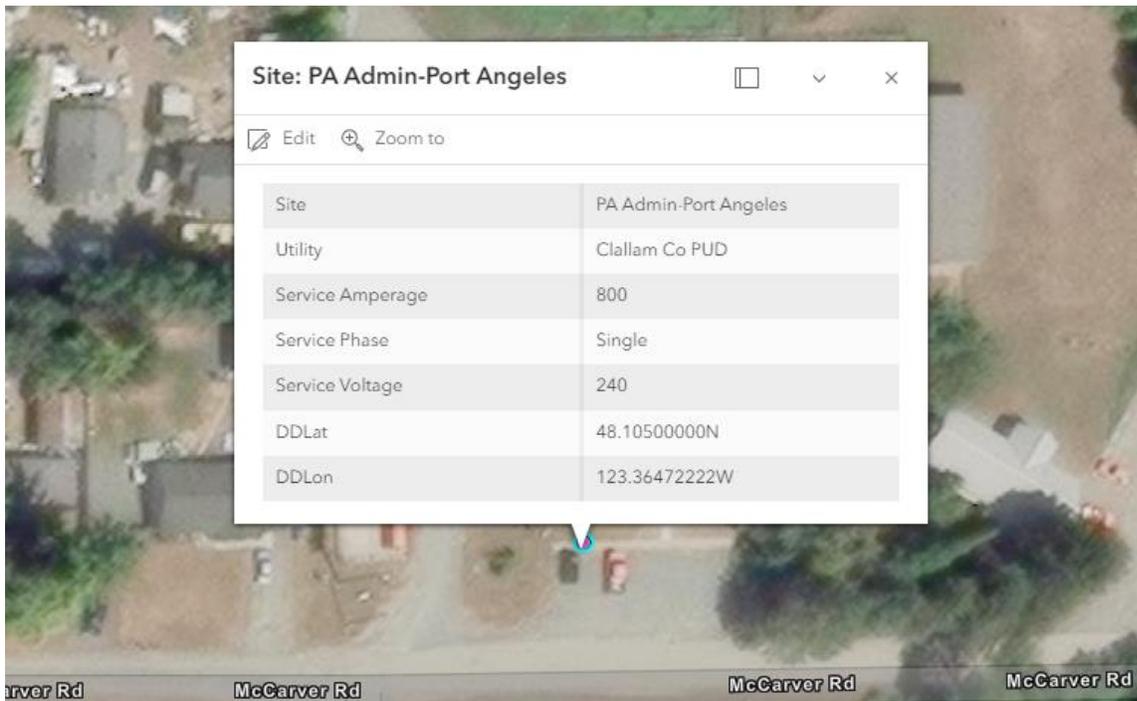


Figure 2.4: GIS Map – Attribute Table

### 3. FLEET ANALYSIS

#### Existing Light Fleet

DNR's light fleet consists of nearly 1,000 sedans, SUVs, and pickups up to ½ ton. The total number of vehicles, and quantity by type and location, varies regularly throughout the year as vehicles are moved, purchased, and retired. The light fleet inventory as of January 9, 2024, consisting of 962 vehicles, has been used for the analyses within this report. It's worth noting that pickup trucks account for 87% of the light fleet.

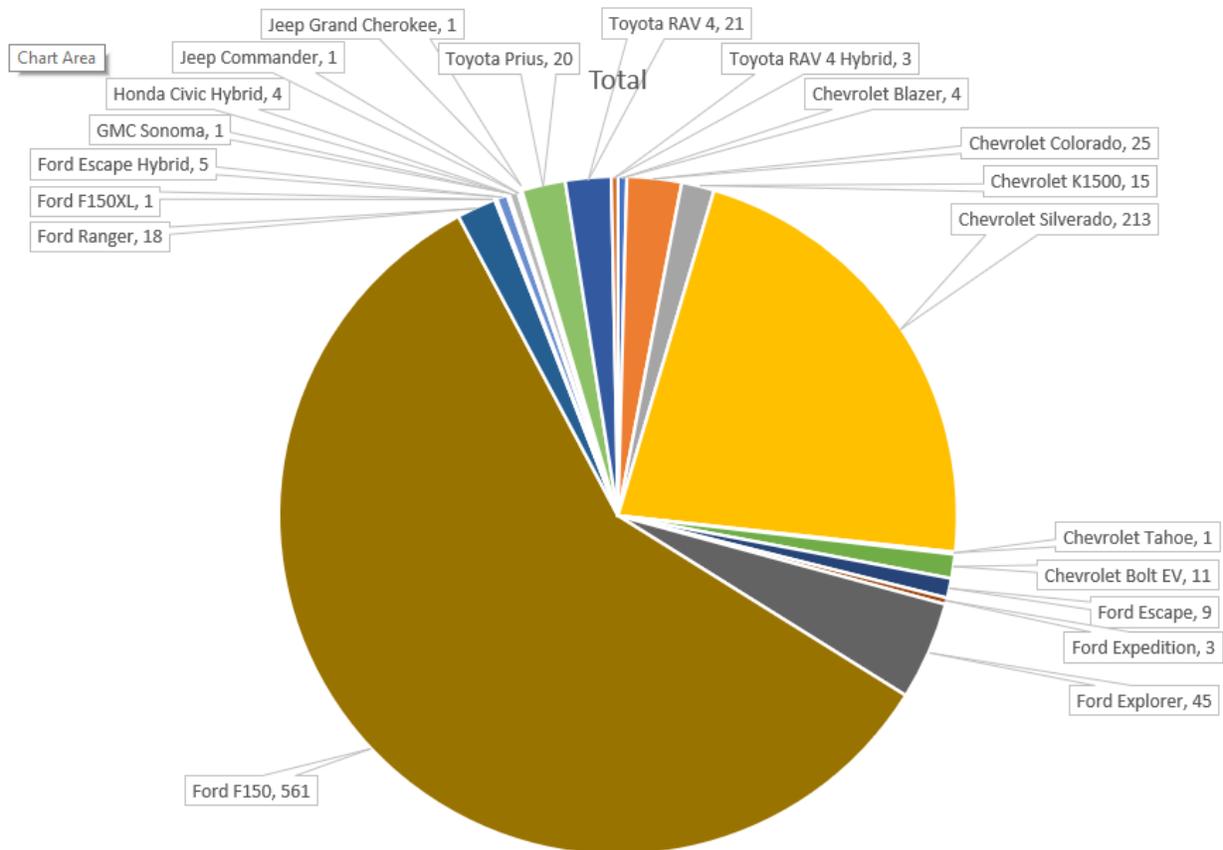


Figure 3.1: Light Fleet by Make and Model

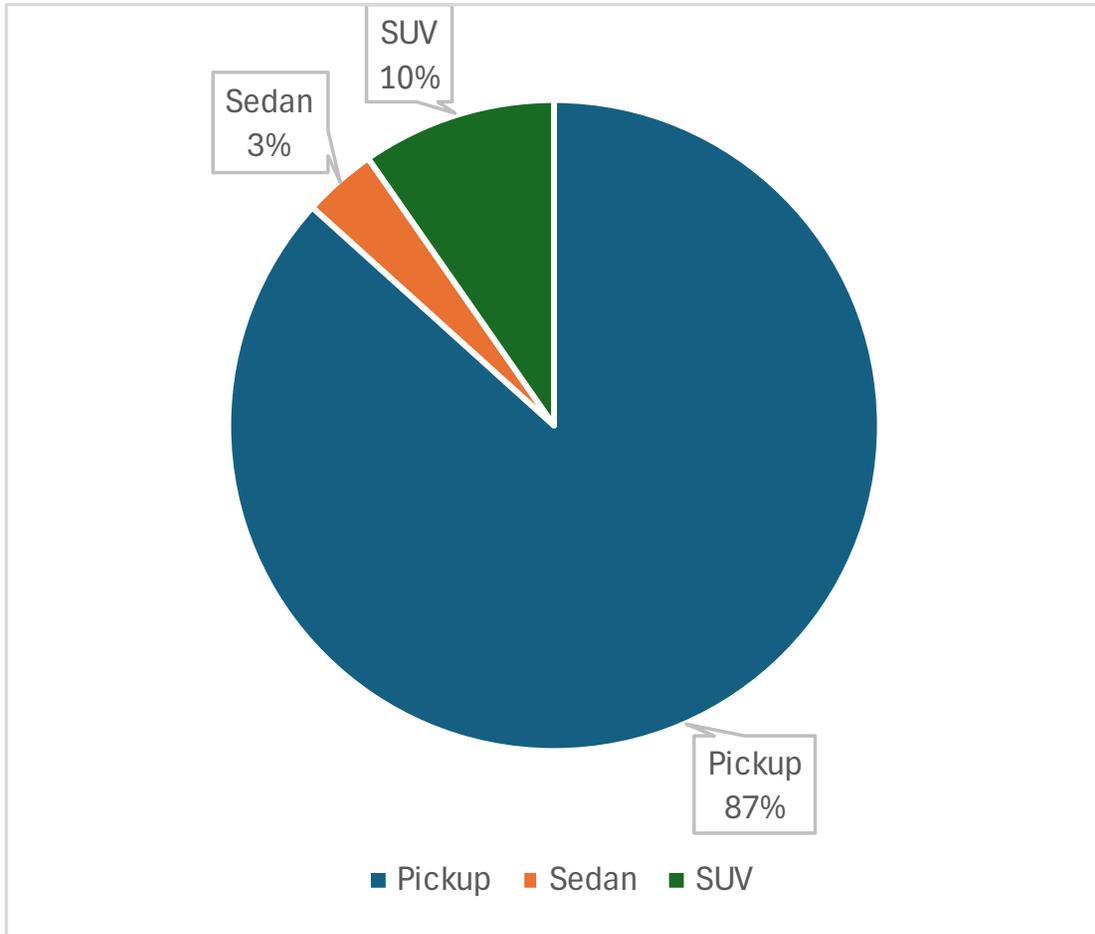


Figure 3.2: Light Fleet by Vehicle Type

Approximately 65% of vehicles in the light fleet are assigned to one of the six regions across the state. Of these, 15 - 20% are assigned to regional motor pools; the rest are assigned to specific users.

The remaining 35% of the light fleet is assigned to various DNR programs.

A portion of the light fleet will travel between locations or relocate for projects or seasonal activity throughout the year. The number of vehicles affected is unpredictable and varies from year to year. This migratory activity is acknowledged but not accounted for in the analysis or EVSE planning.

A small number of vehicles in the light fleet are “take-home” vehicles. These are accounted for in the regional totals, but the vehicles are typically stored at an employee’s residence overnight rather than a DNR facility. The number of take-home vehicles increased during the COVID-19 pandemic but is shrinking as normal work routines resume. A percentage of take-home vehicles is assumed in determining EVSE needs.

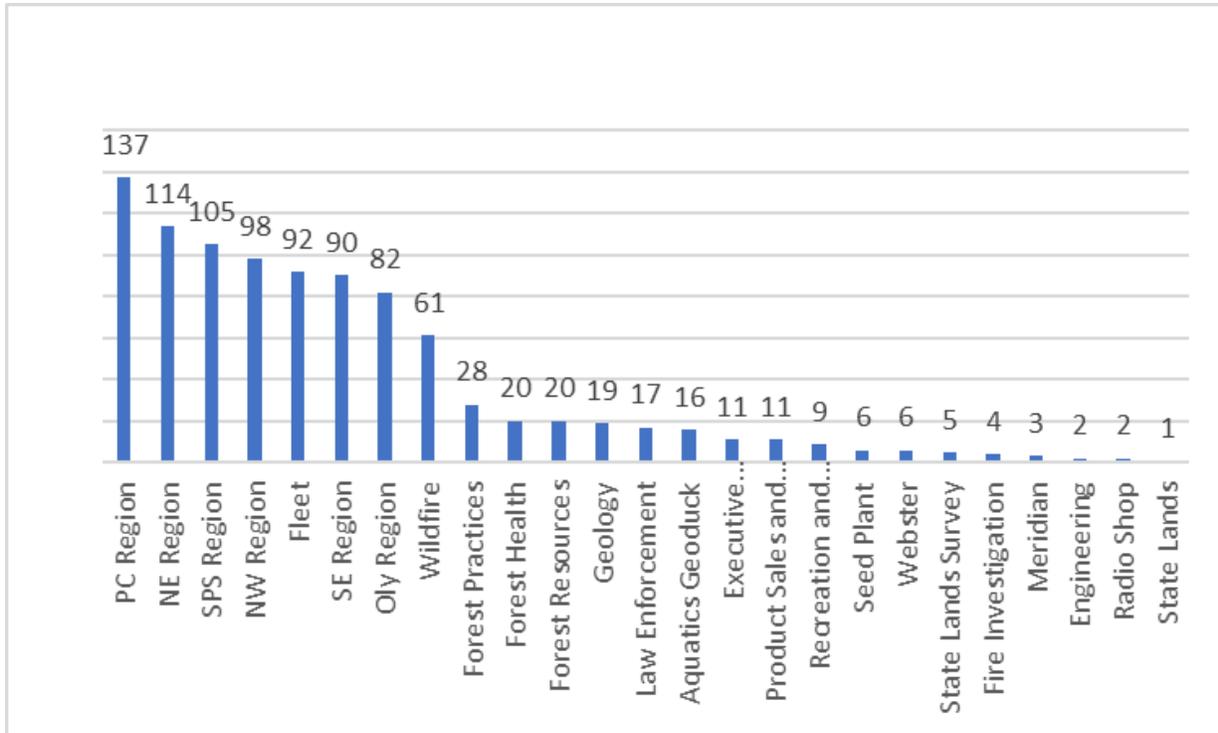


Figure 3.3: Light Fleet by Region or Program

The home location for non-pool vehicles in the light fleet was determined based on assigned users and their work location. Home locations that do not align with EVSE project locations were resolved to EVSE project locations for planning. More than 200 vehicles in the light fleet are excluded from the analysis and EVSE planning due to their location.

A summary of light fleet vehicles by location, annual miles driven, and estimated fuel costs is shown in Figure 3.4 below.

Annual fuel consumption was calculated using 2023 travel miles per vehicle, and EPA statistics for the specific year, make, and model of each vehicle in the light fleet inventory. DNR vehicles, particularly pickups, are upfitted with offroad tires and additional equipment; actual fuel efficiency may be slightly lower.

Gasoline costs change regularly depending on location. A statewide average cost of \$4.17 per gallon as reported by the US Energy Information Administration has been used for the baseline year 2023.

Site	Vehicles			Baseline (2023)			
	Pickup	Sedan	SUV	Miles Driven	Annual Fuel (gal)	Avg Cost (\$/gal) <sup>1</sup>	Annual Fuel Cost
Ahtanum	3	0	0	36,480	2,255	\$ 4.17	\$ 9,402.99
Battle Ground	30	0	0	347,026	20,436	\$ 4.17	\$ 85,216.98
Belfair	17	1	0	184,090	11,140	\$ 4.17	\$ 46,452.45
Castle Rock	55	4	7	526,860	31,834	\$ 4.17	\$ 132,746.73
Chehalis	28	1	0	396,766	24,785	\$ 4.17	\$ 103,352.08
Chewelah	0	0	0	-	-	\$ 4.17	\$ -
Chimacum	5	1	0	38,426	2,058	\$ 4.17	\$ 8,583.06
Cle Elum	3	0	0	36,168	2,110	\$ 4.17	\$ 8,797.42
Colville	62	0	8	764,079	45,511	\$ 4.17	\$ 189,781.27
Dallesport	17	0	1	154,964	8,724	\$ 4.17	\$ 36,380.17
Deer Park	28	0	0	347,714	21,407	\$ 4.17	\$ 89,266.25
Ellensburg	65	2	11	689,998	40,687	\$ 4.17	\$ 169,666.40
Enumclaw	40	7	6	399,539	22,251	\$ 4.17	\$ 92,786.99
Forks - Oly HQ	65	1	6	550,542	32,799	\$ 4.17	\$ 136,770.43
Forks - Oly Camp	4	0	0	45,957	2,912	\$ 4.17	\$ 12,143.72
Glenwood	0	0	0	-	-	\$ 4.17	\$ -
Goldendale	3	0	0	20,071	1,269	\$ 4.17	\$ 5,291.68
Granite Falls	12	0	0	126,011	7,707	\$ 4.17	\$ 32,139.43
Kalama	3	0	0	26,367	1,745	\$ 4.17	\$ 7,275.51
Lacey	1	0	0	17,372	1,336	\$ 4.17	\$ 5,572.40
Littlerock	3	0	0	14,547	871	\$ 4.17	\$ 3,631.21
Longview	1	0	0	7,536	419	\$ 4.17	\$ 1,745.84
Loomis Log House	4	0	0	64,799	4,985	\$ 4.17	\$ 20,785.53
Loomis Highlands	17	0	1	186,743	11,444	\$ 4.17	\$ 47,722.18
Mento	7	0	0	120,099	7,001	\$ 4.17	\$ 29,193.36
Naches	2	0	0	18,272	1,252	\$ 4.17	\$ 5,220.72
Naselle	4	0	0	47,113	2,985	\$ 4.17	\$ 12,445.99
North Bend	13	0	1	82,245	4,814	\$ 4.17	\$ 20,072.31
North Bonneville	0	0	0	-	-	\$ 4.17	\$ -
Port Angeles	4	0	1	44,741	2,530	\$ 4.17	\$ 10,551.27
Sedro Woolley	80	3	7	783,302	48,150	\$ 4.17	\$ 200,785.15
Tumwater - DNR Hangar	14	0	1	44,693	2,891	\$ 4.17	\$ 12,054.62
Tumwater Compound	61	1	3	407,301	26,162	\$ 4.17	\$ 109,093.74
Tumwater - Greenhouse	4	0	0	43,006	2,507	\$ 4.17	\$ 10,454.28
Tumwater - Webster	9	1	1	51,900	2,861	\$ 4.17	\$ 11,931.88
Excluded <sup>6</sup>	170	13	39	1,150,012	60,738	\$ 4.17	\$ 253,276.40
<b>Light Fleet Total</b>	<b>834</b>	<b>35</b>	<b>93</b>	<b>7,774,739</b>	<b>460,573</b>		<b>\$ 1,920,590.43</b>

<sup>1</sup> Average statewide fuel cost for baseline year (2023)

Figure 3.4: Light Fleet Vehicles by Location, Miles Traveled, and Fuel Consumption

### **Future BEV Light Fleet**

The light fleet inventory used for this analysis indicates 87% are pickup trucks. This includes full-size pickups such as the Chevrolet Silverado and Ford F150, and smaller pickups including the Chevrolet Colorado, Ford Ranger, and GMC Sonoma. It is assumed that all pickups will be replaced with the Chevrolet Silverado EV or Ford F150 Lightning. The Silverado EV and F150 Lightning are comparable in terms of MPGe and kWh per 100 miles. The F150 Lightning has been used throughout this analysis.

Non-pickup vehicles in the light fleet inventory include small sedans such as the Ford Escape and Honda Civic, to small and large SUVs such as the Honda RAV4 and Ford Expedition. It is assumed that all sedans and SUVs will be replaced by a battery electric SUV. The Tesla Model Y is comparable to other battery electric sedans and small SUVs in terms of MPGe and kWh per 100 miles and has been used throughout this analysis.

The 2023 baseline miles driven and EPA energy efficiency data for the Ford F150 Lightning and Tesla Model Y have been used to determine annual energy consumption per vehicle, per location. The respective utility provider's current published energy rate has been applied to determine annual energy cost. An annual energy rate escalation of two to five percent should be factored into future years.

In some instances, the installation and use of EVSE may trigger rate schedule changes, particularly with Avista and Puget Sound Energy.

It is also important to note that demand charges are not factored into the energy cost analysis.

Additional information on utility rate schedules is provided in Section 4. [Utility Analysis](#).

Fleet inventory data used for this analysis can be found in [Appendix II](#).

Site	Vehicles		Baseline (2023)	Future Year		
	Pickup	SUV	Miles Driven	Annual EVSE Energy (kWh) <sup>2</sup>	Energy Cost (\$/kWh) <sup>3,4</sup>	Annual EVSE Cost <sup>5</sup>
Ahtanum	3	0	36,480	17,875	\$ 0.084	\$ 1,500
Battle Ground	30	0	347,026	170,043	\$ 0.083	\$ 14,165
Belfair	17	1	184,090	89,875	\$ 0.089	\$ 8,008
Castle Rock	55	11	526,860	249,201	\$ 0.087	\$ 21,705
Chehalis	28	1	396,766	193,683	\$ 0.068	\$ 13,207
Chewelah	0	0	-	-	\$ 0.090	\$ -
Chimacum	5	1	38,426	18,141	\$ 0.108	\$ 1,963
Cle Elum	3	0	36,168	17,722	\$ 0.099	\$ 1,760
Colville	62	8	764,079	360,977	\$ 0.090	\$ 39,058
Dallesport	17	1	154,964	74,606	\$ 0.071	\$ 5,297
Deer Park	28	0	347,714	170,380	\$ 0.090	\$ 21,102
Ellensburg	65	13	689,998	322,269	\$ 0.077	\$ 24,879
Enumclaw	40	13	399,539	188,998	\$ 0.126	\$ 23,818
Forks - Oly HQ	65	7	550,542	262,778	\$ 0.064	\$ 16,870
Forks - Oly Camp	4	0	45,957	22,519	\$ 0.064	\$ 1,441
Glenwood	0	0	-	-	\$ 0.071	\$ -
Goldendale	3	0	20,071	9,835	\$ 0.071	\$ 698
Granite Falls	12	0	126,011	61,745	\$ 0.090	\$ 5,557
Kalama	3	0	26,367	12,920	\$ 0.087	\$ 1,125
Lacey	1	0	17,372	8,512	\$ 0.099	\$ 845
Littlerock	3	0	14,547	7,128	\$ 0.099	\$ 708
Longview	1	0	7,536	3,693	\$ 0.087	\$ 322
Loomis Log House	4	0	64,799	31,752	\$ 0.064	\$ 2,035
Loomis Highlands	17	1	186,743	91,273	\$ 0.064	\$ 5,851
Menlo	7	0	120,099	58,849	\$ 0.069	\$ 4,043
Naches	2	0	18,272	8,953	\$ 0.084	\$ 751
Naselle	4	0	47,113	23,085	\$ 0.069	\$ 1,586
North Bend	13	1	82,245	38,289	\$ 0.126	\$ 4,825
North Bonneville	0	0	-	-	\$ 0.103	\$ -
Port Angeles	4	1	44,741	20,539	\$ 0.064	\$ 1,319
Sedro Woolley	80	10	783,302	371,047	\$ 0.099	\$ 36,838
Tumwater - DNR Hangar	14	1	44,693	20,359	\$ 0.099	\$ 2,021
Tumwater Compound	61	4	407,301	195,090	\$ 0.099	\$ 19,369
Tumwater - Greenhouse	4	0	43,006	21,073	\$ 0.099	\$ 2,092
Tumwater - Webster	9	2	51,900	24,644	\$ 0.099	\$ 2,447
Excluded <sup>6</sup>	170	52	1,150,012	490,385	\$ -	\$ -
<b>Light Fleet Total</b>	<b>834</b>	<b>128</b>	<b>7,774,739</b>	<b>3,658,237</b>		<b>\$ 287,204</b>

<sup>2</sup> kWh per mile based on F150 Lightning (all pickups) and Tesla Model Y (all sedans and SUVs)

<sup>3</sup> Current published utility energy rate as of April 2024

<sup>4</sup> Energy Cost shown for PSE sites is average of Puget Sound Energy Rate Schedule 25 Summer/Winter costs

<sup>5</sup> EVSE Energy Cost is based on annual energy cost but does not include demand charges

<sup>6</sup> Light Fleet vehicles excluded from analysis due to use or location

Figure 3.5: Light Fleet BEV Energy Consumption based on 2023 Vehicle Miles Traveled

## 4. UTILITY ANALYSIS

### Electricity

Utility bills were used to confirm the provider, service address, and rate schedule for each of the EVSE project locations. Energy consumption and billing history were collected for the 2023 baseline year. This information is provided in [Appendix I](#) to show current consumption and billing and gauge the potential impact of EVSE at each location.

Utility rates listed are the most-recently published rates for each utility. In some instances, rate schedules may change for a given site due to the added consumption or demand associated with EVSE. It is also possible that a new dedicated electrical service may be installed and billed under a different rate schedule.

All utilities include account charges per meter, and many include other adjustments based on conservation programs and fuel charges. These are not impacted by installation of EVSE and are not shown below.

### Vehicle Fuel

Gasoline consumption and associated costs are provided in Section 3. [Fleet Analysis](#).

### Greenhouse Gas Emissions

Greenhouse gas emissions reductions are described in Section 7. [Greenhouse Gas Emissions Reduction](#).

## 5. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE)

### About EVSE

Electric Vehicle Supply Equipment (EVSE) is simply the hardware and software infrastructure required to charge battery electric vehicles including the enclosure, charger, cable, and a plug to connect the vehicle. Access control, billing, power management, and data collection are provided by software, usually cloud based. Charging stations are designated as Level 1, 2, or 3.

Level 1 chargers connect to a standard household outlet and are typically for residential use. Level 1 chargers are not recommended for fleet applications.

Level 2 chargers are typically wired to a single-phase electrical circuit dedicated to EVSE. AC power is supplied to the vehicle and is converted to DC and delivered to the battery. Level 2 chargers deliver a constant output to the vehicle and add about 10 - 25 miles of range per hour of charge time depending on charger output, vehicle charging acceptance rate, circuit sharing, and other factors. Level 2 chargers are the most widely used vehicle chargers.

Level 3 chargers, also known as DC fast chargers, are wired to a three-phase electrical circuit dedicated to EVSE. DC power is supplied directly to the vehicle battery resulting in a much greater throughput compared to Level 2 chargers. Level 3 chargers bypass the vehicle's onboard converter and can deliver a much higher initial rate of charge compared to the steady state rate of charge of a Level 2 charger.

Level 3 chargers, under ideal conditions, can deliver up to 60 – 80 highway miles of range per 20 minutes of charge time in normal temperatures. Note: range and charge times can greatly vary depending on low or high ambient temperatures, vehicle options such as preconditioning, EVSE factors, driving conditions such as highway miles vs. offroad miles and payload loads vs towing loads.

### EVSE Strategies

Electric vehicle chargers are available in single or dual-head configurations and may be supplied by dedicated or shared electrical circuits. Dedicated electrical panels and circuits for EVSE can deliver more power to each charger but installation is considerably more expensive and is not practical in some instances due to service limitations.

The most common approach to fleet vehicle charging is to provide one Level 2 charging head per vehicle. Most fleet vehicles are idle overnight and have sufficient dwell time to achieve sufficient charge.

Level 3 fast chargers are typically used in fleet applications for rapid charging to support travel, shared or pool vehicles, and other non-routine charging needs.

DNR-specific recommendations are provided in the following section.

## 6. RECOMMENDATIONS

### Agency-wide EVSE strategy and recommendations

The preliminary scope and budget are based on FLO Core+ products. Product data sheets are provided in [Appendix III](#).

The Core+ Level 2 charger works with 208V or 240V single phase electrical service and the SmartDC Level 3 charger requires 480V three phase electrical service. Charging output for the Level 2 and Level 3 chargers is 7.2kW and 100kW, respectively unless otherwise noted.

The Core+ chargers include RFID access control, integrated payment management, and provide real-time data and reporting. Connectivity can be a cellular or wired LAN connection. Power management features include power sharing and power limiting to enable shared circuits and manage electrical demand. It is assumed that all sites have suitable cellular service or LAN connectivity. Remote monitoring and management are provided through FLO's cloud-based management dashboard.

MacDonald-Miller strongly suggests that the appropriate DNR or State IT personnel review cybersecurity requirements for EVSE systems to identify any special configuration needs.

It is recommended that one Level 2 charging head be installed per vehicle, per location. Dual-head chargers will save space and electrical installation costs and promote standardization. Two dual-head chargers are recommended per electrical circuit.

Level 3 DC fast chargers are recommended at regional offices and strategic travel hubs. MacDonald-Miller has worked with DNR to compare current light fleet needs and anticipated future needs. This has been used to determine quantities of Level 2 and 3 chargers per location. The quantities of Level 3 chargers can be adjusted to meet DNR's needs or to minimize the impact to electrical infrastructure.

Remote locations and sites with fewer vehicles or limited EVSE resources may be candidates for home charging solutions. Public charging infrastructure should also be considered for remote locations and for travel needs.

Mobile EVSE solutions should be considered to support light fleet operations during fire season and other event-based charging needs as an unplanned congregation of electric vehicles could overwhelm planned EVSE resources. Mobile solutions are available as trucks or trailers outfitted with charging infrastructure, an on-board generator, and fuel storage. Many solutions use alternate fuels such as renewable propane, supporting DNR's GHGe reduction goals.

### Operational challenges

Driver training may be needed to ensure drivers are familiar with best practices for the use of electric vehicles. It is important to understand and plan for sufficient charge time to ensure vehicles are available when needed. Drivers should also understand the impact of weather conditions, on- and off-road use, and vehicle payload on electric vehicle range and performance.

DNR will be launching a 12-month pilot project in 2024 to evaluate the use of electric vehicles in selected locations. The results of the project will be invaluable in identifying necessary changes to vehicle use policy, driver training needs, and any cultural issues.

### Location-specific recommendations

The planned number of vehicles and recommended EVSE equipment for each location is summarized in Figure 6.1 below and described in detail in the preceding pages.

Site	Planned Vehicles	Existing EVSE <sup>1</sup>	Recommended EVSE	
			Level 2 <sup>2</sup>	Level 3 <sup>2</sup>
Ahtanum	5	0	3	0
Battle Ground	30	2	14	3
Belfair	18	2	8	0
Castle Rock	65	5	30	7
Chehalis	40	2	19	4
Chewelah	5	0	3	0
Chimacum	6	1	3	0
Cle Elum	10	0	5	1
Colville	67	2	33	7
Dallesport	25	0	13	3
Deer Park	28	2	13	3
Ellensburg	80	0	40	8
Enumclaw	53	0	26	6
Forks - Oly HQ	70	0	34	7
Forks - Oly Camp	4	0	1	0
Glenwood	4	1	2	0
Goldendale	10	2	4	1
Granite Falls	12	2	5	4
Kalama	10	0	5	0
Lacey	5	0	3	0
Littlerock	3	0	2	0
Longview	10	0	5	1
Loomis Log House	4	0	2	0
Loomis Highlands	19	2	9	2
Menlo	5	1	2	0
Naches	10	0	5	1
Naselle	4	1	2	0
North Bend	14	2	6	0
North Bonneville	2	2	0	0
Port Angeles	20	2	9	2
Sedro Woolley	86	2	42	9
Tumwater - DNR Hangar	10	0	5	0
Tumwater Compound	80	4	38	8
Tumwater - Greenhouse	4	0	2	0
Tumwater - Webster	11	2	5	0
<b>Light Fleet Total</b>	<b>829</b>	<b>39</b>	<b>398</b>	<b>77</b>
<sup>1</sup> Existing Level 2 charge heads				
<sup>2</sup> Dual-head chargers				

Figure 6.1: Existing and Recommended EVSE by Location

## Ahtanum

Site	Ahtanum Crew Quarters 9571 North Fork Ahtanum Rd., Ahtanum, WA
Existing Electrical	240V, single phase, 150A
Planned LF Vehicles	5
Recommended EVSE	Provide (3) new FLO Core+ LV-2 charging stations and (3) pedestal mounts with cable management
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
Electrical Improvements	Replace the existing 240V, 30-circuit panel with a new 42-circuit panel. The assumption is that the existing infrastructure will support two new circuits, four total charge heads.
	The existing electrical panel does not have spare capacity for additional circuits. Pacificorp was unable to review and comment on the suitability of the existing service. It is assumed the existing service can support the new panel. This will be addressed during the design phase.
Site Improvements	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

Pacificorp was unable to provide feedback on this site ahead of this report being published.

It is highly likely that the existing utility service is sufficient to support the proposed EVSE assets. A new electrical panel will be installed to provide additional circuits.

The remote location of this facility will make it difficult and very costly to provide additional utility services should they be needed.

## Battle Ground

Site	Tukes Mountain 16118 NE 219th St., Battle Ground, WA
Existing Electrical	240V, single phase, 800A
Planned LF Vehicles	30
Recommended EVSE	Provide (15) new FLO Core+ LV-2 dual-head charging stations and (15) pedestal mounts with cable management
	Provide (3) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
Electrical Improvements	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
Site Improvements	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

**Belfair**

Site	<b>Mission Creek</b> <b>3420 NE Sand Hill Rd., Belfair, WA</b>
<b>Existing Electrical</b>	(1) 240V, single phase, 400A (2) 240V, single phase, 400A
<b>Planned LF Vehicles</b>	18
<b>Recommended EVSE</b>	Provide (9) new FLO Core+ LV-2 dual-head charging stations and (9) pedestal mounts with cable management Demo the existing Clipper Creek dual-head EV charger Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication Provide EV commissioning support
<b>Electrical Improvements</b>	Provide and install new 240V single phase electrical infrastructure from utility transformer to support new LV 2 EV chargers
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Castle Rock

<b>Site</b>	<b>Pacific Cascade Regional Office 601 Bond Rd., Castle Rock, WA</b>
<b>Existing Electrical</b>	(1) 240V, single phase, 225A (2) 240V, single phase, 225A (3) 240V, single phase, 1000A
<b>Planned LF Vehicles</b>	65
<b>Recommended EVSE</b>	(33) dual-head Level 2 chargers are needed to support the number of planned LF vehicles at this location (7) Level 3 chargers are also recommended at this site The utility cannot provide sufficient service for this equipment at this time
	Provide (21) new FLO Core+ LV-2 dual-head charging stations and (21) pedestal mounts with cable management
	Demo (2) existing Clipper Creek dual-head EV chargers
	Demo (1) existing Siemens dual-head EV charger
	Provide and install (4) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	The utility is unable to provide service upgrades at this location. A planned, future subsystem upgrade will be able to supply additional power, but the timing is several years out.
	Provide and install new 240V single phase electrical infrastructure from existing spare 200A breaker to support new LV 2 EV chargers
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

Cowlitz County PUD is unable to provide additional electrical capacity to this location due to system limitations. They have a planned substation upgrade, but it is several years away. They would not comment on the timing or potential cost of the upgrade.

The existing electrical service is not sufficient to support the proposed EVSE assets but should support 21 of the 33 recommended charging stations. An electrical load study and final design will confirm the number that can be supported.

The site's dense tree coverage precludes the use of solar PV but there may be options for battery energy storage to support additional charging stations with the existing electrical service.

## Chehalis

Site	<b>Chehalis Work Center 1405 Rush Rd., Chehalis, WA</b>
<b>Existing Electrical</b>	(1) 240V, single phase, 1600A (2) 240V, single phase, 400A (3) 240V, single phase, 400A (4) 240V, single phase, 200A
<b>Planned LF Vehicles</b>	40
<b>Recommended EVSE</b>	Provide (20) new FLO Core+ LV-2 dual-head charging stations and (20) pedestal mounts with cable management
	Provide (4) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo (1) existing Clipper Creek dual-head EV charger
	Provide and install (3) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Chewelah

<b>Site</b>	<b>Chewelah Peak Learning Center 3215 Flowery Trail Rd., Chewelah, WA</b>
<b>Existing Electrical</b>	240V, single phase, 200A
<b>Planned LF Vehicles</b>	5
<b>Recommended EVSE</b>	Provide and install (3) new FLO Core+ LV-2 dual-head charging stations and (3) pedestal mounts with cable management
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Chimacum

<b>Site</b>	<b>Chimacum Work Center 5310 Eaglemount Rd., Chimacum, WA</b>
<b>Existing Electrical</b>	240V, single phase, 400A
<b>Planned LF Vehicles</b>	6
<b>Recommended EVSE</b>	Provide and install (3) new FLO Core+ LV-2 dual-head charging stations and (3) pedestal mounts with cable management
	Demo (1) existing Siemens dual head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Cle Elum

<b>Site</b>	<b>Cle Elum Work Center 2211 Airport Rd., Cle Elum, WA</b>
<b>Existing Electrical</b>	480V, three phase, 400A
<b>Planned LF Vehicles</b>	10
<b>Recommended EVSE</b>	Provide (5) new FLO Core+ LV-2 dual-head charging stations and (5) pedestal mounts with cable management
	Provide (1) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

**Colville**

<b>Site</b>	<b>NE Regional Office 225 S. Silke Rd., Colville, WA</b>
<b>Existing Electrical</b>	(1) 480V, three phase, 400A (2) 208V, three phase, 800A
<b>Planned LF Vehicles</b>	67
<b>Recommended EVSE</b>	Provide (34) new FLO Core+ LV-2 dual-head charging stations and (34) pedestal mounts with cable management
	Provide (7) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (6) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed
	Utility will provide new 480V three phase electrical service

## Dallesport

<b>Site</b>	<b>Dallesport Fire Center 325 6<sup>th</sup> Ave., Dallesport, WA</b>
<b>Existing Electrical</b>	208V, three phase, 1200A
<b>Planned LF Vehicles</b>	25
<b>Recommended EVSE</b>	Provide (13) new FLO Core+ LV-2 dual-head charging stations and (13) pedestal mounts with cable management
	Provide (3) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Deer Park

<b>Site</b>	<b>Deer Park Office</b> <b>908 E., Crawford Ave., Deer Park, WA</b>
<b>Existing Electrical</b>	240V, single phase, 200A
<b>Planned LF Vehicles</b>	28
<b>Recommended EVSE</b>	Provide (14) new FLO Core+ LV-2 dual-head charging stations and (14) pedestal mounts with cable management
	Provide (3) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Ellensburg

<b>Site</b>	<b>SE Regional Office 713 E. Bowers Rd., Ellensburg, WA</b>
<b>Existing Electrical</b>	208V, three phase, 800A
<b>Planned LF Vehicles</b>	80
<b>Recommended EVSE</b>	Provide (40) new FLO Core+ LV-2 dual-head charging stations and (40) pedestal mounts with cable management
	Provide (8) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Provide and install (4) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Enumclaw

<b>Site</b>	<b>South Puget Sound Regional Office 950 Farman St. N., Enumclaw, WA</b>
<b>Existing Electrical</b>	208V, three phase, 800A
<b>Planned LF Vehicles</b>	53
<b>Recommended EVSE</b>	Provide (27) new FLO Core+ LV-2 dual-head charging stations and (27) pedestal mounts with cable management
	Provide (6) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (3) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Forks Olympic HQ

Site	<b>Olympic Regional Office 411 Tillicum Lane, Forks, WA</b>
<b>Existing Electrical</b>	(1) 208V, three phase, 800A (2) 240V, single phase, 100A (3) 240V, single phase, 200A (4) 208V, three phase, 1000A
<b>Planned LF Vehicles</b>	70
<b>Recommended EVSE</b>	Provide (35) new FLO Core+ LV-2 dual-head charging stations and (35) pedestal mounts with cable management
	Provide (7) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (3) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Forks Olympic Camp

Site	<b>Olympic Camp</b> <b>11235 Hoh Mainline Rd., Forks, WA</b>
<b>Existing Electrical</b>	(1) 240V, single phase, 400A (2) 240V, single phase, 1000A
<b>Planned LF Vehicles</b>	4
<b>Recommended EVSE</b>	Provide and install (2) new FLO Core+ LV-2 dual-head charging stations and (2) pedestal mounts with cable management
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Glenwood

<b>Site</b>	<b>Glenwood Office-Garage 313 2<sup>nd</sup> St. N., Glenwood, WA</b>
<b>Existing Electrical</b>	240V, single phase, 200A
<b>Planned LF Vehicles</b>	4
<b>Recommended EVSE</b>	Provide (2) new FLO Core+ LV-2 charging stations and (2) pedestal mounts with cable management
	Demo the existing Siemens dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Provide and install new 240V single phase electrical infrastructure from utility transformer to support new LV 2 EV chargers
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Goldendale

Site	Goldendale Office 900 N. Fairgrounds Rd., Goldendale, WA
Existing Electrical	240V, single phase, 200A
Planned LF Vehicles	10
Recommended EVSE	Provide (5) new FLO Core+ LV-2 dual-head charging stations and (5) pedestal mounts with cable management
	Provide (1) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
Electrical Improvements	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
Site Improvements	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Granite Falls

Site	Granite Falls Work Center 20505 Canyon Dr., Granite Falls, WA
Existing Electrical	480V, three phase, 200A
Planned LF Vehicles	12
Recommended EVSE	Provide (6) new FLO Core+ LV-2 dual-head charging stations and (6) pedestal mounts with cable management
	Provide (1) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
Electrical Improvements	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
Site Improvements	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Kalama

<b>Site</b>	<b>Kalama Fire Station 126 Mountain View Rd., Kalama, WA</b>
<b>Existing Electrical</b>	240V, single phase, 200A
<b>Planned LF Vehicles</b>	10
<b>Recommended EVSE</b>	Provide (5) new FLO Core+ LV-2 dual-head charging stations and (5) pedestal mounts with cable management
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will upgrade existing 240V transformer
	Provide and install new 240V single phase electrical infrastructure from utility transformer to support new LV 2 EV chargers
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

**Lacey**

Site	<b>Meridian Tree Farm</b> <b>6425 SE Meridian Rd., Lacey, WA</b>
<b>Existing Electrical</b>	(1) 240V, single phase, 200A (2) 240V, single phase, 200A (3) 240V, single phase, 200A
<b>Planned LF Vehicles</b>	5
<b>Recommended EVSE</b>	Provide (3) new FLO Core+ LV-2 dual-head charging stations and (3) pedestal mounts with cable management
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will upgrade existing 240V transformer
	Provide and install new 240V single phase electrical infrastructure from utility transformer to support new LV 2 EV chargers
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

**Littlerock**

<b>Site</b>	<b>Cedar Creek Office – Garage 12200 Bordeaux Rd. SW, Littlerock, WA</b>
<b>Existing Electrical</b>	240V, three phase, 1600A
<b>Planned LF Vehicles</b>	3
<b>Recommended EVSE</b>	Provide and install (2) new FLO Core+ LV-2 dual-head charging stations and (2) pedestal mounts with cable management
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Longview

<b>Site</b>	<b>Columbia Heights Fire Station 918 Nevada Dr., Longview, WA</b>
<b>Existing Electrical</b>	208V, 3-phase, 400A
<b>Planned LF Vehicles</b>	10
<b>Recommended EVSE</b>	Provide (5) new FLO Core+ LV-2 dual-head charging stations and (5) pedestal mounts with cable management
	Provide (1) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Loomis Log House

<b>Site</b>	<b>Loomis Log House</b> <b>1160 Loomis Oroville Rd., Loomis, WA</b>
<b>Existing Electrical</b>	240V, single phase, 200A
<b>Planned LF Vehicles</b>	4
<b>Recommended EVSE</b>	Provide and install (2) new FLO Core+ LV-2 dual-head charging stations and (2) pedestal mounts with cable management
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Loomis Highlands

Site	Highlands 1916 Sinlahekin, Loomis, WA
Existing Electrical	208V, three phase, 400A
Planned LF Vehicles	19
Recommended EVSE	(10) dual-head Level 2 chargers are needed to support the number of planned LF vehicles at this location (2) Level 3 chargers are also recommended at this site The utility cannot provide sufficient service for this equipment at this time
	Provide (10) new FLO Core+ LV-2 dual-head charging stations and (10) pedestal mounts with cable management
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (2) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
Electrical Improvements	The utility is unable to provide service upgrades at this location The utility will need to run approximately two miles of new service to support the desired EVSE
	Provide and install new 240V single phase electrical infrastructure from existing spare 200A breaker to support new LV 2 EV chargers
Site Improvements	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

The existing electrical service at Loomis Highlands is not sufficient to support the proposed EVSE assets, specifically the (2) Level 3 charging stations. Okanogan PUD will need to run new electrical service approximately two miles to their nearest point of connection if additional service is required. They would not comment on the cost for such an upgrade.

The additional electrical load cannot be met wholly by solar PV but there may be a partial solution using solar PV and battery energy storage. An electrical load study and completed design is warranted before choosing a PV and battery system.

## Menlo

<b>Site</b>	<b>Menlo Work Center 964 SR 6, Menlo, WA</b>
<b>Existing Electrical</b>	240V, single phase, 400A
<b>Planned LF Vehicles</b>	5
<b>Recommended EVSE</b>	Provide and install (3) new FLO Core+ LV-2 dual-head charging stations and (3) pedestal mounts with cable management
	Demo the existing Siemens dual head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Naches

Site	<b>Naches Fire Station 102 Naches Ave., Naches, WA</b>
<b>Existing Electrical</b>	(1) 208V, three phase, 200A (2) 240V, single phase, 200A
<b>Planned LF Vehicles</b>	10
<b>Recommended EVSE</b>	Provide (5) new FLO Core+ LV-2 dual-head charging stations and (5) pedestal mounts with cable management
	Provide (1) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	The existing electrical panel does not have spare capacity for additional circuits. Pacificorp was unable to review and comment on the suitability of the existing service. It is assumed the existing service can support the new panel. This will be addressed during the design phase. Scope and budget are based on assumption the utility can provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

Similarly to Ahtanum, Pacificorp was unable to provide resources to comment on electrical service upgrades for this site in time for this report.

The site location and presence of existing three phase electrical service indicate the necessary service upgrades should not be an issue. Budget costs are based on budgeted costs for similar upgrades.

## Naselle

<b>Site</b>	<b>Naselle Work Center SR 4, Naselle, WA</b>
<b>Existing Electrical</b>	240V, single phase, 320A
<b>Planned LF Vehicles</b>	4
<b>Recommended EVSE</b>	Provide and install (2) new FLO Core+ LV-2 dual-head charging stations and (2) pedestal mounts with cable management
	Demo the existing Siemens dual head EV charger
	Provide and install (1) new system setwork Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Replace existing 240V 30 circuit panel with new 42 circuit panel
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## North Bend

<b>Site</b>	<b>North Bend Garage 201 E. 2<sup>nd</sup> St., North Bend, WA</b>
<b>Existing Electrical</b>	240V, single phase, 100A
<b>Planned LF Vehicles</b>	14
<b>Recommended EVSE</b>	Provide (7) new FLO Core+ LV-2 dual-head charging stations and (7) pedestal mounts with cable management
	Provide and install (1) new FLO Core+ LV-3 dual-head charging station
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Demo the existing Clipper Creek dual-head EV charger
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will upgrade existing 240V transformer
	Provide and install new 240V single phase electrical infrastructure from utility transformer to support new LV 2 EV chargers
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## North Bonneville, WA

<b>Site</b>	<b>Fort Rains 22 Wauna Lake Rd., North Bonneville, WA</b>
<b>Existing Electrical</b>	240V, single phase, 200A
<b>Planned LF Vehicles</b>	2
<b>Recommended EVSE</b>	Provide and install (1) new FLO Core+ LV-2 dual-head charging station and (1) pedestal mounts with cable management
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system setwork Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	None needed

## Port Angeles

<b>Site</b>	<b>Port Angeles Administration 311 McCarver Rd., Port Angeles, WA</b>
<b>Existing Electrical</b>	240V, single phase, 800A
<b>Planned LF Vehicles</b>	20
<b>Recommended EVSE</b>	Provide (10) new FLO Core+ LV-2 dual-head charging stations and (10) pedestal mounts with cable management
	Provide (2) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (2) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Sedro Woolley

<b>Site</b>	<b>NW Regional Office 919 Township St., Sedro Woolley, WA</b>
<b>Existing Electrical</b>	208V, three phase, 900A
<b>Planned LF Vehicles</b>	86
<b>Recommended EVSE</b>	Provide (43) new FLO Core+ LV-2 dual-head charging stations and (43) pedestal mounts with cable management
	Provide (9) new FLO SmartDC dual-head LV-3 charging stations and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (3) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Tumwater – DNR Hangar

<b>Site</b>	<b>DNR Hangar 7613 Old Hwy 99, Tumwater, WA</b>
<b>Existing Electrical</b>	240V, single phase, 100A
<b>Planned LF Vehicles</b>	10
<b>Recommended EVSE</b>	Provide and install (5) new FLO Core+ LV-2 dual-head charging stations and (5) pedestal mounts with cable management
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will upgrade existing 240V transformer
	Provide and install new 240V single phase electrical infrastructure from utility transformer to support new LV 2 EV chargers
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Tumwater Compound

Site	<b>Tumwater Compound 821 88<sup>th</sup> Ave., Tumwater, WA</b>
<b>Existing Electrical</b>	(1) 208V, three phase, 3000A (2) 480V, three phase, 400A
<b>Planned LF Vehicles</b>	80
<b>Recommended EVSE</b>	Provide (40) new FLO Core+ LV-2 dual-head charging stations and (40) pedestal mounts with cable management
	Provide (8) new FLO SmartDC dual-head LV-3 charging stations (100kW) and base mounts
	Provide (3) new FLO SmartDC dual-head LV-3 charging stations (50kW) and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Demo the existing LV-3 EV charger
	Provide and install (3) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
	Provide new 208V three phase electrical infrastructure for LV 2 EV chargers from new 480V panel and transformer
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Tumwater Greenhouse

<b>Site</b>	<b>Greenhouse and Seed Plant 9701 Blomberg St. SW, Tumwater, WA</b>
<b>Existing Electrical</b>	208V, three phase, 2000A
<b>Planned LF Vehicles</b>	4
<b>Recommended EVSE</b>	Provide and install (2) new FLO Core+ LV-2 dual-head charging stations and (2) pedestal mounts with cable management
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	None needed
<b>Site Improvements</b>	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Tumwater Webster Nursery

Site	Webster Nursery 9805 Blomberg St. SW, Tumwater, WA
Existing Electrical	208V, three phase, 1000A
Planned LF Vehicles	11
Recommended EVSE	Provide and install (6) new FLO Core+ LV-2 dual-head charging stations and (6) pedestal mounts with cable management
	Provide (1) new FLO SmartDC dual-head LV-3 charging station and base mounts
	Demo the existing Clipper Creek dual-head EV charger
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
Electrical Improvements	None needed
	Utility will provide new 480V three phase electrical service
	Provide and install new 480V three phase electrical infrastructure from utility transformer to support LV2 and LV3 EV chargers
Site Improvements	Concrete pads and pedestals for new chargers
	Trenching and dirt work, asphalt and/or concrete cutting and patching as needed

## Mobile EVSE

This option is offered as a representative unit price for a mobile EVSE solution.

The solutions shown are trailer-mounted but are also available in truck or skid-mounted configurations. Trailer-mounted options weigh approximately 9,000 lbs.

Mobile solutions are configurable for different fuels including diesel, propane, green propane, or renewable propane. The charger configuration shown is representative; other configurations are available.

Mobile solutions are highly configurable in terms of number of vehicle chargers, type of chargers (Level 2 or 3), and fuel capacity. Mobile charging solutions can also be built to support other remote site power generating needs, reducing the need for traditional generators.

Site	Mobile EVSE
Existing Electrical	None
Planned LF Vehicles	Variable
Recommended EVSE	Option 1: Pioneer e-mobility
	Level 2 and/or Level 3 chargers, up to 30kW total power output
	120 gallons fuel capacity
	Option 2: Momentum Groups M120
	Level 3 DC fast chargers, up to 120 kW total power output
	115 gallons fuel capacity
Electrical Improvements	None
Site Improvements	None

## Home Charging

This option is offered as a unit price for a typical residential installation. Each installation will be subject to verification of service and installation conditions.

Site	Home Charging
<b>Existing Electrical</b>	Varies – assumes existing electrical panel and service will support new load
<b>Planned LF Vehicles</b>	1
<b>Recommended EVSE</b>	Provide and install (1) new FLO Core+ LV-2 charging station with wall mount
	Provide and install (1) new system network Ethernet cabling to site router and Ethernet gateway for charger communication
	Provide EV commissioning support
<b>Electrical Improvements</b>	New 40A, 240V circuit and 100 feet of pathway and wire
<b>Site Improvements</b>	None

## 7. GREENHOUSE GAS EMISSIONS REDUCTION

In 2020, the Washington State Legislature and Governor updated the State Agency Climate Leadership Act codified in RCW 70.235.050. The Act directs state agencies to reduce their greenhouse gas emissions (GHGe) to:

- 15% below 2005 baseline by 2020
- 45% below 2005 by 2030
- 75% below 2005 by 2040
- 95% below 2005 by 2050, achieve net zero

DNR's 2005 GHG emissions baseline is 10,518 metric tons (MT) CO<sub>2</sub>. The 2030 GHG emissions target based on a 45% reduction is 5,785 MT CO<sub>2</sub>.

Implementation of this project and electrification of the light fleet will reduce DNR's fleet-related greenhouse gas emissions significantly. Electrical consumption will increase with the switch to electric vehicles, but the project will produce a net CO<sub>2</sub> emissions reduction of more than 2,200 MT CO<sub>2</sub> per year due to the transition from fossil fuels to electricity.

Source	Electricity (kWh)	Gasoline (gal)	lbs CO <sub>2</sub>	MT CO <sub>2</sub>
Electricity	-3,167,852	-	-1,489,923	(676)
Gasoline	-	399,836	6,343,856	2,878
<b>Total</b>				<b>2,202</b>

Figure 7.1: EVSE Project GHG Emissions Reduction Summary

The light fleet inventory includes more than 200 vehicles that are currently excluded from the fleet and energy analyses. Most of these vehicles operate out of DES buildings in the Olympia – Tumwater area. Electrification of these vehicles could contribute additional savings of 60,738 gallons of gasoline and an additional net GHG emissions reduction of 210 MT CO<sub>2</sub> based on 2023 light fleet data.

DNR's agency-wide GHG emissions for the 2023 reporting year were 11,405 MT CO<sub>2</sub>. 9,351 MT are related to fleet emissions; 4,955 MT of this directly attributable to gasoline combustion. The proposed emissions reduction of 2,202 MT CO<sub>2</sub> will cut DNR's fleet CO<sub>2</sub> emissions by 24% and gasoline-related emissions by 44%.

Other GHGe reductions are achievable through electrification of the heavy fleet. Alternate fuels should be considered along with electrification.

The electrification of small motors (mowers, trimmers, etc.) will also produce a significant reduction of emissions.

EVSE electrical consumption is based on the light fleet inventory and annual vehicle miles traveled as described in Section 3. [Fleet Analysis](#), as is gasoline consumption and related emissions.

Energy savings are stipulated; guaranteed energy savings and Measurement and Verification will be defined in a future Energy Services Proposal.

GHG emissions factors are used for each utility provider to determine GHG emissions related to the EVSE electrical consumption for each utility provider (See Fig. 7.2 below). The GHG emissions factor for gasoline is based on the [EPA GHG equivalency calculator](#).

Utility	lbs./kWh	kWh saved	lbs CO <sub>2</sub>
Avista	0.89066648	(531,357)	(473,262.01)
Clallam County PUD #1	0.04188778	(305,836)	(12,810.78)
Clark County PUD #1	0.35714844	(170,043)	(60,730.50)
Cowlitz County PUD #1	0.09700328	(265,813)	(25,784.74)
Ellensburg Electric Division	0.04188778	(322,269)	(13,499.12)
Jefferson County PUD #1	0.04188778	(18,141)	(759.89)
Kittitas County PUD #1	0.0440924	(17,722)	(781.42)
Klickitat PUD	0.15652802	(84,441)	(13,217.37)
Lewis County PUD #1	0.03968316	(193,683)	(7,685.94)
Mason County PUD #3	0.03968316	(89,875)	(3,566.54)
Okanogan County PUD #1	0.07936632	(123,024)	(9,763.97)
Pacific PUD #2	0.09479866	(81,934)	(7,767.22)
PacifiCorp	1.20592714	(26,828)	(32,353.19)
Puget Sound Energy	0.94357736	(875,140)	(825,762.46)
Skamania County PUD #1	0.04188778	-	-
Snohomish County PUD #1	0.03527392	(61,745)	(2,178.00)

Figure 7.2: GHG Emissions Factors and CO<sub>2</sub> Reduction by Utility

## 8. PRELIMINARY BUDGET

Project costs are summarized in the tables below. Costs include labor and materials, soft costs, and Washington State Sales Tax. Soft costs are calculated based on allowable markups under the DES Main Energy Services Agreement. Tax rates are variable by location; a weighted average tax rate was used based on the value of work at each location. A contingency of 10% is also included.

Different groupings of sites are provided to help with strategy for implementation.

Client: Dept of Natural Resources		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
Project: Statewide EVSE				
<b>A. CONSTRUCTION BUDGET</b>				
EEM-1	Ahtanum		\$ -	\$ 211,704
EEM-2	Battle Ground		\$ -	\$ 2,179,519
EEM-3	Belfair		\$ -	\$ 885,837
EEM-4	Castle Rock		\$ -	\$ 869,145
EEM-5	Chehalis		\$ -	\$ 2,917,522
EEM-6	Chewelah		\$ 15,000	\$ 329,090
EEM-7	Chimacum		\$ -	\$ 211,111
EEM-8	Cle Elum		\$ -	\$ 480,582
EEM-9	Colville		\$ 200,000	\$ 5,710,516
EEM-10	Dallesport		\$ -	\$ 2,784,166
EEM-11	Deer Park		\$ 80,000	\$ 2,595,605
EEM-12	Ellensburg		\$ -	\$ 6,413,046
EEM-13	Enumclaw		\$ 250,000	\$ 3,883,443
EEM-14	Forks - Oly HQ		\$ -	\$ 5,859,471
EEM-15	Forks - Oly Camp		\$ -	\$ 179,140
EEM-16	Glenwood		\$ -	\$ 417,805
EEM-17	Goldendale		\$ -	\$ 1,175,303
EEM-18	Granite Falls		\$ -	\$ 1,202,708
EEM-19	Kalama		\$ -	\$ 520,302
EEM-20	Lacey		\$ 12,000	\$ 405,561
EEM-21	Littlerock		\$ 8,000	\$ 134,288
EEM-22	Longview		\$ -	\$ 1,253,547
EEM-23	Loomis Log House		\$ -	\$ 194,535
EEM-24	Loomis Highlands		\$ -	\$ 1,192,554
EEM-25	Menlo		\$ -	\$ 207,222
EEM-26	Naches		\$ -	\$ 1,225,847
EEM-27	Naselle		\$ -	\$ 167,761
EEM-28	North Bend		\$ 24,000	\$ 533,624
EEM-29	North Bonneville		\$ -	\$ 32,352
EEM-30	Port Angeles		\$ -	\$ 1,876,477
EEM-31	Sedro Woolley		\$ 250,000	\$ 5,831,270
EEM-32	Tumwater - DNR Hangar		\$ 20,000	\$ 496,109
EEM-33	Tumwater Compound		\$ 250,000	\$ 5,552,991
EEM-34	Tumwater - Greenhouse		\$ 8,000	\$ 168,212
EEM-35	Tumwater - Webster		\$ 20,000	\$ 1,219,105
EEM-36	Mobile EVSE (Unit Cost)		\$ -	\$ 1,492,394
EEM-37	Home EVSE (Unit Cost)		\$ -	\$ 42,563

Figure 8.1: Project Cost Summary by Location (all sites)

Client: Dept of Natural Resources Project: Statewide EVSE		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
<b>A. CONSTRUCTION BUDGET - NORTHWEST REGION</b>				
EEM-18	Granite Falls		\$ -	\$ 1,202,708
EEM-31	Sedro Woolley		\$ 250,000	\$ 5,831,270

Client: Dept of Natural Resources Project: Statewide EVSE		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
<b>A. CONSTRUCTION BUDGET - NORTHEAST REGION</b>				
EEM-6	Chewelah		\$ 15,000	\$ 329,090
EEM-9	Colville		\$ 200,000	\$ 5,710,516
EEM-11	Deer Park		\$ 80,000	\$ 2,595,605
EEM-23	Loomis Log House		\$ -	\$ 194,535
EEM-24	Loomis Highlands		\$ -	\$ 1,192,554

Client: Dept of Natural Resources Project: Statewide EVSE		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
<b>A. CONSTRUCTION BUDGET - PACIFIC CASCADE REGION</b>				
EEM-2	Battle Ground		\$ -	\$ 2,179,519
EEM-4	Castle Rock		\$ -	\$ 869,145
EEM-5	Chehalis		\$ -	\$ 2,917,522
EEM-19	Kalama		\$ -	\$ 520,302
EEM-22	Longview		\$ -	\$ 1,253,547
EEM-25	Menlo		\$ -	\$ 207,222
EEM-27	Naselle		\$ -	\$ 167,761
EEM-29	North Bonneville		\$ -	\$ 32,352

Client: Dept of Natural Resources Project: Statewide EVSE		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
<b>A. CONSTRUCTION BUDGET - OLYMPIC REGION</b>				
EEM-7	Chimacum		\$ -	\$ 211,111
EEM-14	Forks - Oly HQ		\$ -	\$ 5,859,471
EEM-15	Forks - Oly Camp		\$ -	\$ 179,140
EEM-30	Port Angeles		\$ -	\$ 1,876,477

Client: Dept of Natural Resources Project: Statewide EVSE		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
<b>A. CONSTRUCTION BUDGET - SOUTH PUGET SOUND REGION</b>				
EEM-3	Belfair		\$ -	\$ 885,837
EEM-13	Enumclaw		\$ 250,000	\$ 3,883,443
EEM-20	Lacey		\$ 12,000	\$ 405,561
EEM-21	Littlerock		\$ 8,000	\$ 134,288
EEM-28	North Bend		\$ 24,000	\$ 533,624
EEM-32	Tumwater - DNR Hangar		\$ 20,000	\$ 496,109
EEM-33	Tumwater Compound		\$ 250,000	\$ 5,552,991
EEM-34	Tumwater - Greenhouse		\$ 8,000	\$ 168,212
EEM-35	Tumwater - Webster		\$ 20,000	\$ 1,219,105

Client: Dept of Natural Resources Project: Statewide EVSE		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
<b>A. CONSTRUCTION BUDGET - SOUTHEAST REGION</b>				
EEM-1	Ahtanum		\$ -	\$ 211,704
EEM-8	Cle Elum		\$ -	\$ 480,582
EEM-10	Dallesport		\$ -	\$ 2,784,166
EEM-12	Ellensburg		\$ -	\$ 6,413,046
EEM-16	Glenwood		\$ -	\$ 417,805
EEM-17	Goldendale		\$ -	\$ 1,175,303
EEM-26	Naches		\$ -	\$ 1,225,847

Figure 8.2: Project Cost Summary by Location (by region). Mobile and Home Charging not shown

Client: Dept of Natural Resources		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
Project: Statewide EVSE				
<b>A. CONSTRUCTION BUDGET - UTILITY UPGRADES REQUIRED</b>				
EEM-2	Battle Ground		\$ -	\$ 2,179,519
EEM-4	Castle Rock		\$ -	\$ 869,145
EEM-5	Chehalis		\$ -	\$ 2,917,522
EEM-9	Colville		\$ 200,000	\$ 5,710,516
EEM-10	Dallesport		\$ -	\$ 2,784,166
EEM-11	Deer Park		\$ 80,000	\$ 2,595,605
EEM-12	Ellensburg		\$ -	\$ 6,413,046
EEM-13	Enumclaw		\$ 250,000	\$ 3,883,443
EEM-14	Forks - Oly HQ		\$ -	\$ 5,859,471
EEM-17	Goldendale		\$ -	\$ 1,175,303
EEM-18	Granite Falls		\$ -	\$ 1,202,708
EEM-19	Kalama		\$ -	\$ 520,302
EEM-20	Lacey		\$ 12,000	\$ 405,561
EEM-22	Longview		\$ -	\$ 1,253,547
EEM-24	Loomis Highlands		\$ -	\$ 1,192,554
EEM-26	Naches		\$ -	\$ 1,225,847
EEM-28	North Bend		\$ 24,000	\$ 533,624
EEM-30	Port Angeles		\$ -	\$ 1,876,477
EEM-31	Sedro Woolley		\$ 250,000	\$ 5,831,270
EEM-32	Tumwater - DNR Hangar		\$ 20,000	\$ 496,109
EEM-33	Tumwater Compound		\$ 250,000	\$ 5,552,991
EEM-35	Tumwater - Webster		\$ 20,000	\$ 1,219,105

Client: Dept of Natural Resources		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
Project: Statewide EVSE				
<b>A. CONSTRUCTION BUDGET - UTILITY UPGRADES NOT REQUIRED</b>				
EEM-1	Ahtanum		\$ -	\$ 211,704
EEM-3	Belfair		\$ -	\$ 885,837
EEM-6	Chewelah		\$ 15,000	\$ 329,090
EEM-7	Chimacum		\$ -	\$ 211,111
EEM-8	Cle Elum		\$ -	\$ 480,582
EEM-15	Forks - Oly Camp		\$ -	\$ 179,140
EEM-16	Glenwood		\$ -	\$ 417,805
EEM-21	Littlerock		\$ 8,000	\$ 134,288
EEM-23	Loomis Log House		\$ -	\$ 194,535
EEM-25	Menlo		\$ -	\$ 207,222
EEM-27	Naselle		\$ -	\$ 167,761
EEM-29	North Bonneville		\$ -	\$ 32,352
EEM-34	Tumwater - Greenhouse		\$ 8,000	\$ 168,212
EEM-35	Tumwater - Webster		\$ 20,000	\$ 1,219,105

Figure 8.3: Project Cost Summary by Location (utility upgrades needed/not needed). Mobile and Home Charging not shown. Castle Rock and Loomis Highlands require utility upgrades to support the recommended EVSE, but upgrades are not included.

Client: Dept of Natural Resources		Date: 6/27/2024	ESTIMATED UTILITY INCENTIVE	TOTAL CONSTRUCTION BUDGET PER MEASURE
Project: Statewide EVSE				
<b>A. CONSTRUCTION BUDGET - UTILITY EVSE INCENTIVE PROGRAMS AVAILABLE</b>				
EEM-6	Chewelah		\$ 15,000	\$ 329,090
EEM-9	Colville		\$ 200,000	\$ 5,710,516
EEM-11	Deer Park		\$ 80,000	\$ 2,595,605
EEM-13	Enumclaw		\$ 250,000	\$ 3,883,443
EEM-20	Lacey		\$ 12,000	\$ 405,561
EEM-21	Littlerock		\$ 8,000	\$ 134,288
EEM-28	North Bend		\$ 24,000	\$ 533,624
EEM-31	Sedro Woolley		\$ 250,000	\$ 5,831,270
EEM-32	Tumwater - DNR Hangar		\$ 20,000	\$ 496,109
EEM-33	Tumwater Compound		\$ 250,000	\$ 5,552,991
EEM-34	Tumwater - Greenhouse		\$ 8,000	\$ 168,212
EEM-35	Tumwater - Webster		\$ 20,000	\$ 1,219,105

Figure 8.4: Project Cost Summary by Location (utility EVSE incentive programs available)

Table 8.4 above shows sites served by Avista and Puget Sound Energy. Both utilities have EVSE incentive programs to help fund work at the respective sites. Utility representatives have indicated there is low risk of their programs being oversubscribed but one strategy would be to secure these funds while they are available.

### Grants and Incentives

MacDonald-Miller’s standard practice is to secure all incentives and grants available from local utilities as well as from State and Federal governments to minimize your capital investment, including grant opportunities arising from the Inflation Reduction Act and the Building Infrastructure Law. We monitor these opportunities that typically run through WA Commerce and will support that agency through the application process. The agency may also be able to benefit from IRS Section 179D (Energy Efficient Commercial Buildings Deduction) and Section 48E (Clean Electricity Investment Credit.) This includes creating the business case to claim portions of the American Recovery Act allocations for DNR.

Avista and Puget Sound Energy currently have programs that provide incentives for installation of non-residential EVSE.

Avista’s [Make-Ready Commercial Electric Vehicle Charging Equipment](#) program covers 100% of installation costs up to \$5,000 per charging port. A five-year agreement is required. Other conditions apply.

Puget Sound Energy’s [Up & Go Electric for Fleet](#) assists public and private fleets in their transition to electric vehicles by offering incentives to offset costs associated with installation of EVSE infrastructure.

Incentive funding is provided at \$4,000 per Level 2 charging head and \$60,000 per Level 3 head. The incentive is capped at \$250,000 per site. These incentive amounts apply to customer-owned EVSE equipment. Higher amounts are available for utility-owned equipment but the \$250,000 cap per site still applies. A ten-year agreement is required. Other conditions apply.

## 9. PRELIMINARY SCHEDULE

An Implementation Plan will be provided as a second deliverable following submission of this IGA Report. The Implementation Plan will describe steps, milestones, and durations associated with implementation of the recommended EVSE infrastructure and will be delivered no later than June 1, 2025.

## **APPENDIX I**

### **Building energy baseline and utility rate schedules**

**Avista**

2023	Electricity Summary - Chewelah, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh									4,062	4,282	6,243	7,168	21,754
Cost									\$ 551.92	\$ 584.99	\$ 840.44	\$ 898.88	\$ 2,876.23

<b>Utility Provider:</b> Avista			
<b>Account No.:</b> 9594220000	<b>Meter No.:</b> 67000114	<b>Rate Schedule:</b> 011	

2023	Electricity Summary - NE Region HQ - Colville, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	42,141	35,811	35,081	26,121	16,363	15,320	18,835	17,641	16,238	17,291	20,965	29,366	291,173
Cost	#####	\$4,109.65	#####	\$3,139.39	\$2,123.91	\$1,992.30	#####	\$2,259.77	#####	\$2,271.52	#####	\$3,574.43	\$35,137.17

<b>Utility Provider:</b> Avista			
<b>Account No.:</b> 9594220000	<b>Meter No.:</b> 69006908	<b>Rate Schedule:</b> W021	

2023	Electricity Summary - Deer Park, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	3,453	2,976	2,121	1,572	1,009	861	1,182	980	676	1,272	2,709	3,063	21,875
Cost	\$494.34	\$429.10	\$312.27	\$237.13	\$160.20	\$140.40	\$187.21	\$157.54	\$115.84	\$201.75	\$408.46	\$464.76	\$3,309.00

<b>Utility Provider:</b> Avista			
<b>Account No.:</b> 9594220000	<b>Meter No.:</b> 66200518	<b>Rate Schedule:</b> 011	

Avista is the utility service provider for DNR sites in Chewelah, Colville, and Deer Park.

Chewelah and Deer Park are billed under rate schedule 11. This is a tiered rate; the first 3,650 kWh during the billing period are billed at \$0.12385 and all other kWh are billed at \$0.09015.

Schedule 11 includes a demand charge of \$7.50 per kW for all kW over 20kW during any 15-minute demand interval. There is no maximum demand threshold listed.

[https://www.myavista.com/-/media/myavista/content-documents/our-rates-and-tariffs/wa/wa\\_011.pdf](https://www.myavista.com/-/media/myavista/content-documents/our-rates-and-tariffs/wa/wa_011.pdf)

The NE Region HQ in Colville is billed under rate schedule 21. Schedule 21 is a tiered rate intended for larger commercial and industrial customers. The first 250,000 kWh during the billing period are billed at \$0.07914 and all other kWh are billed at \$0.07054.

A demand charge of \$600 covers the first 50kW during any demand interval. Excess demand is billed at \$7.50 per kW.

Schedule 21 also includes a power factor adjustment. This is typical for larger commercial and industrial services.

[https://www.myavista.com/-/media/myavista/content-documents/our-rates-and-tariffs/wa/wa\\_021.pdf](https://www.myavista.com/-/media/myavista/content-documents/our-rates-and-tariffs/wa/wa_021.pdf)

**Clallam County PUD**

2023	Electricity Summary - Olympic Region HQ - Forks, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	14,320	14,560	14,120	12,600	10,840	9,920	8,320	9,480	9,760	11,040	10,640	13,040	138,640
kWh	17,280	19,640	16,960	16,320	13,720	9,720	7,200	7,320	6,800	8,000	9,520	15,200	147,680
kWh	2,461	2,239	2,781	2,284	1,852	1,441	1,520	1,664	1,936	1,217	1,616	2,140	23,151
kWh	2,542	2,156	2,054	1,758	1,553	1,367	1,292	1,056	2,080	1,187	1,123	1,578	19,746
Cost	\$3,399.93	\$3,505.35	\$3,316.08	\$3,045.83	\$2,642.78	\$2,126.64	\$1,833.16	\$1,904.15	\$1,999.67	\$2,049.57	\$2,359.38	\$3,011.15	\$31,193.69

<b>Utility Provider:</b>	Clallam County PUD					
<b>Account No.:</b>	18279	<b>Meter No.:</b>	5000423	<b>Rate Schedule:</b>	COMM3	HQ
<b>Account No.:</b>	18280	<b>Meter No.:</b>	5000442	<b>Rate Schedule:</b>	COMM3	Shop
<b>Account No.:</b>	41923	<b>Meter No.:</b>	201486	<b>Rate Schedule:</b>	COMMS1	WC
<b>Account No.:</b>	54693	<b>Meter No.:</b>	58488	<b>Rate Schedule:</b>	RES1	Bunkhouse

2023	Electricity Summary - Olympic Camp - Forks, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	2,222	2,594	1,990	1,829	623	856	908	897	719	711	665	1,320	15,334
kWh	26,640	31,840		21,040	10,000	9,520	10,480	10,480	10,480	17,040	20,720	21,280	189,520
Cost	\$2,407.58	\$2,758.21	\$208.57	\$1,950.74	\$1,040.74	\$989.54	\$914.55	\$1,025.74	\$1,061.27	\$1,592.96	\$1,846.54	\$1,936.74	\$17,733.18

<b>Utility Provider:</b>	Clallam County PUD				
<b>Account No.:</b>	20108	<b>Meter No.:</b>	64045	<b>Rate Schedule:</b>	COMS1
<b>Account No.:</b>	20105	<b>Meter No.:</b>	62386	<b>Rate Schedule:</b>	COMM1

2023	Electricity Summary - PA Administration - Port Angeles, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	4,560	4,160	4,480	3,600	2,920	1,600	1,840	1,560	1,600	2,840	3,200	3,320	35,680
kWh	3,240	2,840	3,040	2,560	1,800	1,280	1,040	960	1,000	1,640	2,320	2,480	24,200
Cost	\$740.07	\$397.22	\$717.57	\$349.17	\$488.56	\$190.15	\$342.25	\$313.64	\$320.01	\$469.48	\$552.18	\$574.43	\$5,454.73

<b>Utility Provider:</b>	Clallam County PUD				
<b>Account No.:</b>	16800	<b>Meter No.:</b>	62567	<b>Rate Schedule:</b>	COMS1
<b>Account No.:</b>	16800	<b>Meter No.:</b>	61030	<b>Rate Schedule:</b>	COMS1

Clallam County PUD is the utility service provider for DNR sites in Forks and Port Angeles.

The Olympic Region HQ is served via four separate utility services. The HQ office, shop, and work center are billed at \$0.0664 per kWh for all energy consumption under their general commercial rate schedules. Demand is billed at \$3.77 per kW for the highest average demand during any 15-minute demand interval.

Power factor correction and other adjustments apply.

All energy to the bunkhouse is billed at \$0.0797 per kWh. Demand charges do not apply.

<https://clallampud.net/wp-content/uploads/2019/05/Electric-Rate-Schedule-April-2024-1.pdf>

### Clark Public Utilities

2023	Electricity Summary - Tukes Mountain - Battle Ground, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	7,680	7,980	7,440	6,780	3,360	840	960	1,140	1,200	2,100	6,660	7,740	53,880
kWh	4,760	4,800	4,360	4,000	2,320	1,480	1,480	1,240	1,560	1,920	3,080	4,000	35,000
Cost	\$1,097.17	#####	\$1,014.14	\$ 888.21	\$ 495.51	\$236.79	\$246.03	\$ 241.41	\$ 270.67	\$367.69	\$ 807.95	\$ 404.13	\$ 7,152.53
<b>Utility Provider:</b> Clark Public Utilities													
<b>Account No.:</b> 7201-132-1				<b>Meter No.:</b> 335429293				<b>Rate Schedule:</b> General					
<b>Account No.:</b> 7201-132-3				<b>Meter No.:</b> 78367591				<b>Rate Schedule:</b> General					

The Tukes Mountain site in Battle Ground is served by Clark Public Utilities. Two utility services are billed under their general business rate schedule. All energy is billed at \$0.0833 per kWh.

Demand charges apply to meter 78367591. Demand in excess of 30kW is billed at \$9.29 per kW.

<https://www.clarkpublicutilities.com/about-cpu/public-documents/current-electric-water-rates/>

### Jefferson County PUD

2023	Electricity Summary - Chimacum, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh							260						260
kWh							840	1,120	1,060	1,600	2,260	2,240	9,120
Cost							\$ 146.52	\$ 148.68	\$ 142.19	\$200.62	\$ 272.03	\$ 269.87	\$ 1,179.91
<b>Utility Provider:</b> Jefferson County PUD													
<b>Account No.:</b> 26564001				<b>Meter No.:</b> 73312302				<b>Rate Schedule:</b> 24-1P 1 PHASE General					
<b>Account No.:</b> 26564001				<b>Meter No.:</b> 10768908				<b>Rate Schedule:</b> 24-1P 1 PHASE General					

The Chimacum work center is served by two utility services from Jefferson County PUD. Their single-phase general rate schedule has a tiered structure. The first 600 kWh during the billing period is billed at \$0.0936 per kWh. The next 1,000 kWh is billed at \$0.1136 per kWh. All remaining kWh are billed at \$0.1293 per kWh.

Demand charges do not apply.

<https://www.jeffpud.org/rate-schedule/>

### Kittitas PUD

2023	Electricity Summary - Cle Elum													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
kWh	4,560	4,440	4,140	2,980	1,160	1,340	1,760	1,300	1,600	2,580	4,620	4,620	35,100	
Cost	\$ 485.48	\$ 475.02	\$ 446.37	\$ 337.59	\$ 153.78	\$ 172.97	\$ 222.68	\$ 178.69	\$ 209.48	\$ 311.79	\$ 511.37	\$ 511.37	\$ 4,016.59	
<b>Utility Provider:</b>		Kittitas PUD												
<b>Account No.:</b>							<b>Meter No.:</b>							<b>Rate Schedule:</b> 1005

Kittitas PUD is the service provider for the Cle Elum office and crew quarters. This is one of the few DNR sites studied that has 480V, 3-phase power. Rate schedule 1005 is a tiered schedule; the first 20,000 kWh during the billing period are billed at \$0.09933 per kWh. All energy in excess of 20,000 kWh is billed at \$0.0874 per kWh.

Demand is billed at \$6.90 per kW for demand greater than 20kW.

<https://www.kittitaspud.com/DocumentCenter/View/1556/Commercial-Rate-Schedule---2023pdf>

### Klickitat PUD

2023	Electricity Summary - Dallesport, WA													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
kWh	18,240	13,600	7,040	7,600	12,480	9,520	13,280	30,880	36,560	33,600	19,040	16,400	218,240	
Cost	\$ 1,882.26	\$ 1,738.75	\$ 689.56	\$ 772.29	\$ 1,226.43	\$ 967.53	\$ 1,124.22	\$ 2,384.49	\$ 2,952.04	\$ 2,840.06	\$ 1,674.46	\$ 1,971.00	\$ 3,622.16	
<b>Utility Provider:</b>		Klickitat PUD												
<b>Account No.:</b>		47331941					<b>Meter No.:</b>		20517					<b>Rate Schedule:</b> General

2023	Electricity Summary - Glenwood Office & Garage													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
kWh	2,120	1,540	1,610	1,380	900	550	170	110	140	140	778	1,108	10,546	
Cost	\$ 269.48	\$ 208.81	\$ 216.14	\$ 192.08	\$ 141.87	\$ 105.26	\$ 65.51	\$ 59.24	\$ 62.37	\$ 62.37	\$ 129.11	\$ 163.63	\$ 1,675.87	
<b>Utility Provider:</b>		Klickitat PUD												
<b>Account No.:</b>		47331968					<b>Meter No.:</b>		2S06746					<b>Rate Schedule:</b> Medium General

\* replaced meter no. 7234

2023	Electricity Summary - Goldendale Office												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	2,777	2,049	1,985	1,884	1,283	1,111	825	1,631	1,173	1,628	1,367	2,800	20,513
Cost	\$ 260.31	\$ 206.44	\$ 201.70	\$ 194.23	\$ 149.75	\$ 137.02	\$ 115.86	\$ 175.50	\$ 141.61	\$ 175.28	\$ 155.97	\$ 262.01	\$ 2,175.68

<b>Utility Provider:</b>	Klickitat PUD		
<b>Account No.:</b>	47331941	<b>Meter No.:</b>	2SE00793
		<b>Rate Schedule:</b>	Medium General

\* replaced meter no. 24679

The DNR sites in Dallesport, Glenwood, and Goldendale are served by Klickitat PUD.

The first 7,500 kWh of energy is billed at \$0.0710 per kWh; all energy in excess of 7,500 kWh is billed at \$0.0564 per kWh.

Demand is billed at \$2.00 per kW for the first 25kW and \$9.23 per kW for all kW over 25.

<http://www.klickitatpud.com/ratesAndPolicies/electricRates/rateSchedule3a6.aspx>

### Lewis County PUD

2023	Electricity Summary - Chehalis Work Center, Chehalis, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	11,720	13,080	13,420	12,700	11,880	8,420	7,220	7,640	9,820	10,680	11,980	17,800	136,360
kWh	4,100	4,700	4,800	4,400	4,400	3,800	4,900	4,500	6,000	4,500	6,900	10,200	63,200
kWh	4,640	5,080	4,680	4,280	2,040	1,280	1,280	1,160	1,480	1,520	2,120	3,800	33,360
Cost	\$ 1,582.97	\$ 1,760.17	\$ 1,755.64	\$ 1,653.17	\$ 1,446.82	\$ 1,087.23	\$ 1,093.83	\$ 1,073.80	\$ 1,380.49	\$ 1,314.85	\$ 1,614.57	\$ 2,390.29	\$ 18,153.83

<b>Utility Provider:</b>	Lewis County PUD		
<b>Account No.:</b>	110531002	<b>Meter No.:</b>	328244
		<b>Rate Schedule:</b>	24-3P Commercial <i>Main</i>
<b>Account No.:</b>	110532001	<b>Meter No.:</b>	207305
		<b>Rate Schedule:</b>	24-1P Commercial <i>Fire</i>
<b>Account No.:</b>	110531001	<b>Meter No.:</b>	325784
		<b>Rate Schedule:</b>	24-1P Commercial <i>Radio</i>

Lewis County PUD is the service provider for the Chehalis work center. The main building service is three-phase; the fire and radio areas have single-phase service.

Energy costs are the same for each service. The first 15,000 kWh at each meter is billed at \$0.06819 per kWh. Additional energy is billed at \$0.0540 per kWh.

Demand is billed at \$6.03 per all kW over 50.

<https://www.lcpud.org/your-account/rates-fees/>

### Mason County PUD

2023	Electricity Summary - Mission Creek (Joe Ramirez Building) - Belfair, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	3,360	3,520	3,120	2,480	1,200	560	640	640	640	1,280	1,680	2,080	21,200
Cost	\$ 351.19	\$ 361.91	\$ 343.86	\$ 283.35	\$ 171.19	\$ 108.90	\$ 119.78	\$ 116.24	\$ 116.23	\$ 178.51	\$ 208.13	\$ 253.98	\$ 2,613.27
<b>Utility Provider:</b> Mason County PUD No. 3													
<b>Account No.:</b> 230733002				<b>Meter No.:</b> 4-00397				<b>Rate Schedule:</b> Schedule 20					

Electricity at the Mission Creek facility in Belfair is provided by Mason PUD 3. All energy is billed at \$0.0891 per kWh. Demand charges do not apply.

<https://www.pud3.org/wp-content/uploads/2024-Schedule-20.pdf>

### Pacific County PUD

2023	Electricity Summary - Menlo, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	-	-	-	12	-	-	-	-	-	-	-	-	12
kWh	2,655	2,547	2,729	1,917	1,352	1,327	1,256	1,453	1,376	1,772	2,417	2,281	23,082
Cost	\$ 291.96	\$ 284.07	\$ 297.37	\$ 238.89	\$ 196.71	\$ 194.88	\$ 189.70	\$ 204.10	\$ 198.47	\$ 170.69	\$ 274.57	\$ 264.62	\$ 2,806.03
<b>Utility Provider:</b> Pacific County PUD													
<b>Account No.:</b> 13863				<b>Meter No.:</b> A34302				<b>Rate Schedule:</b> 022 Crew					
<b>Account No.:</b> 13864				<b>Meter No.:</b> A36699				<b>Rate Schedule:</b> 022 WC					

2023	Electricity Summary - Naselle Work Center												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	2,040	2,600	1,920	1,320	920	480	360	560	600	1,120	1,720	2,120	15,760
Cost	\$ 198.06	\$ 238.99	\$ 189.28	\$ 145.42	\$ 116.19	\$ 84.03	\$ 75.26	\$ 89.87	\$ 92.80	\$ 130.81	\$ 174.67	\$ 203.90	\$ 1,739.28
<b>Utility Provider:</b> Pacific County PUD													
<b>Account No.:</b> 32585				<b>Meter No.:</b> 5712				<b>Rate Schedule:</b> 022					
				P51034				New meter March 2023					

Pacific County PUD provides service to the Menlo work center and crew quarters and the Naselle work center. All energy is billed at \$0.0687 per kWh. Demand charges do not apply.

<https://www.pacificpud.org/your-account/rates-fees/electric/>

**Pacificorp**

2023	Electricity Summary - Crew Quarters - Ahtanum, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	6,856	7,579	7,185	6,550	3,465	3,434	3,039	2,880	2,791	4,063	7,002	3,585	58,429
Cost	\$ 703.82	\$ 787.33	\$ 750.82	\$ 690.93	\$ 384.74	\$ 378.00	\$ 352.18	\$ 329.57	\$ 312.95	\$ 444.57	\$ 715.95	\$ 389.00	\$ 6,239.86

<b>Utility Provider:</b> Pacificorp			
<b>Account No.:</b> 45996301-001-002	<b>Meter No.:</b>	<b>Rate Schedule:</b> 24	

2023	Electricity Summary - Naches Fire Station												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	11,360	8,120	8,040	5,840	2,920	2,080	2,640	2,960	2,600	1,800	4,240	7,240	59,840
kWh	513	418	377	328	278	256	229	270	300	343	439	465	4,216
kWh	14	11	10	10	9	8	8	8	226	10	12	13	339
kWh	478	433	441	440	433	483	442	475	443	421	463	445	5,397
Cost	\$1,483.35	\$ 1,170.75	\$ 1,168.43	\$ 940.51	\$ 616.41	\$ 443.28	\$ 489.89	\$ 532.05	\$ 522.50	\$ 413.59	\$ 776.36	\$ 1,071.23	\$ 9,628.35

<b>Utility Provider:</b> Pacificorp			
<b>Account No.:</b> 45996301-006-003	<b>Meter No.:</b>	<b>Rate Schedule:</b> 24	
<b>Account No.:</b> 45996301-006-004	<b>Meter No.:</b>	<b>Rate Schedule:</b> 24	
<b>Account No.:</b> 45996301-006-005	<b>Meter No.:</b>	<b>Rate Schedule:</b> 24	
<b>Account No.:</b> 45996301-006-006	<b>Meter No.:</b>	<b>Rate Schedule:</b> 24	

Pacificorp is the utility provider to the Ahtanum crew quarters and the Naches Fire Station. Service to the Naches Fires station is provided via four separate services.

All energy to both locations is billed at \$0.12126 per kWh for the first 1,000 kWh during the billing period. All additional energy is billed at \$0.08386 per kWh.

Demand is billed at \$3.88 per kW over 15kW during any demand interval.

Power factor charges are calculated at \$0.62 per kVAR for all reactive demand in excess of 40% of the kW demand.

[https://www.pacificpower.net/content/dam/pcorp/documents/en/pacificpower/rates-regulation/washington/rates/024\\_Small\\_General\\_Service.pdf](https://www.pacificpower.net/content/dam/pcorp/documents/en/pacificpower/rates-regulation/washington/rates/024_Small_General_Service.pdf)

**PUD No. 1 of Cowlitz County**

2023	Electricity Summary - PC Administration - Castle Rock, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	13,280	13,440	12,640	9,600	7,680	8,160	8,160	7,840	7,200	10,560	14,560	15,360	128,480
kWh	4,198	4,064	4,100	3,432	3,188	3,531	3,680	4,086	3,384	3,915	3,798	4,098	45,474
Cost	\$2,923.48	\$2,765.46	\$2,566.53	\$1,971.82	\$1,455.83	\$1,555.40	\$1,582.31	\$1,575.86	\$1,431.10	\$2,125.44	\$2,695.81	\$2,865.99	\$25,515.03

<b>Utility Provider:</b>	PUD No. 1 of Cowlitz County			<b>Meter No.:</b>	850009	<b>Rate Schedule:</b>	4SGEB	HQ
<b>Account No.:</b>	379952			<b>Meter No.:</b>	460114	<b>Rate Schedule:</b>	4SGEA	Annex
<b>Account No.:</b>	3795887							

2023	Electricity Summary - Kalama Fire Station												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	5,807	5,182	4,389	4,171	2,199	1,489	879	890	2,199	4,001	4,797	4,685	40,688
Cost	\$523.29	\$471.85	\$402.78	\$383.79	\$212.03	\$150.19	\$97.06	\$98.02	\$212.03	\$371.04	\$437.64	\$428.56	\$3,788.28

<b>Utility Provider:</b>	PUD No. 1 of Cowlitz County			<b>Meter No.:</b>	500137	<b>Rate Schedule:</b>	4SGEA
<b>Account No.:</b>	4305371			<b>New Meter Oct:</b>	791992		

2023	Electricity Summary - Columbia Heights Fire Station - Longview, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	520	840	800	800	960	1,000	2,160	2,480	2,120	1,160	1,200	1,080	15,120
Cost	\$62.84	\$102.41	\$98.93	\$98.93	\$112.87	\$116.35	\$217.39	\$245.26	\$213.90	\$130.29	\$132.80	\$125.27	\$1,657.24

<b>Utility Provider:</b>	PUD No. 1 of Cowlitz County			<b>Meter No.:</b>	990348	<b>Rate Schedule:</b>	4SGEB
<b>Account No.:</b>	5160705						

The Pacific Cascade Region HQ in Castle Rock includes two utility services from PUD No. 1 of Cowlitz County, as are the Columbia Heights Fire Station in Longview, and the Kalama Fire Station.

All energy for these sites is billed at \$0.871 per kWh. Demand charges do not apply.

[https://www.cowlitzpud.org/wp-content/uploads/rate\\_schedule\\_4\\_small\\_general\\_service\\_10012017.pdf](https://www.cowlitzpud.org/wp-content/uploads/rate_schedule_4_small_general_service_10012017.pdf)

**PUD No. 1 of Okanogan County**

2023	Electricity Summary - Loomis Log House												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	5,709	5,105	4,221	3,101	1,418	817	1,249	1,243	364	310	2,834	4,464	32,055
Cost	\$ 445.94	\$ 403.94	\$ 342.46	\$ 272.32	\$ 152.99	\$ 110.38	\$ 141.01	\$ 140.58	\$ 122.22	\$ 116.97	\$ 253.39	\$ 368.96	\$ 2,871.16

<b>Utility Provider:</b>	Okanogan PUD		
<b>Account No.:</b>	65741	<b>Meter No.:</b>	17111663
<b>Rate Schedule:</b>	Small General Service		

2023	Electricity Summary - Highlands - Loomis, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	11,960	11,720	10,120	4,680	5,400	3,640	4,360	5,600	5,720	3,600	4,480	7,280	78,560
Cost	\$ 880.63	\$ 863.94	\$ 752.68	\$ 536.97	\$ 435.32	\$ 310.53	\$ 361.58	\$ 449.50	\$ 458.01	\$ 307.70	\$ 370.10	\$ 568.60	\$ 6,355.56

<b>Utility Provider:</b>	Okanogan PUD		
<b>Account No.:</b>	11973	<b>Meter No.:</b>	16831998
<b>Rate Schedule:</b>	Small General Service		

The DNR Log House and Highlands locations are served by Okanogan PUD under their Small General Service rate. All energy is billed at \$0.06412 per kWh. Demand greater than 50kW during any interval period is billed at \$5.63 per kW.

<https://www.okanoganpud.org/electric/rates>

**Puget Sound Energy**

2023	Electricity Summary - South Puget Sound HQ - Enumclaw, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	16,480	17,600	13,440	10,880	8,320	8,000	8,800	9,280	8,320	10,880		14,720	126,720
Cost	\$ 3,049	\$ 3,219	\$ 2,546	\$ 2,077	\$ 1,121	\$ 1,089	\$ 1,195	\$ 1,321	\$ 1,155	\$ 2,395	\$ 3,340	\$ 2,781	\$ 25,286

<b>Utility Provider:</b>	Puget Sound Energy				
<b>Account No.:</b>	200000728267	<b>Meter No.:</b>	P157451412	<b>Rate Schedule:</b>	Commercial 25

2023	Electricity Summary - Meridian Office - Lacey, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	12	12	12	610	278	1,538	5,419	1,762	110	12	13	13	9,791
kWh	12	12	12	12	12	1,753	6,661	2,176	504	12	13	13	11,192
kWh	5,240	5,640	5,880	6,320	2,840	1,680	840	1,280	3,200	3,240	6,840	6,160	49,160
kWh	2,488	2,614	2,920	1,733	836	692	526	519	925	1,439	2,539	2,637	19,868
kWh	4,160	2,480	1,660	1,560	1,120	1,000	1,120	1,160	1,520	1,280	4,680	4,400	26,140
kWh	485	432	360	199	236	170	268	202	59	120	398	411	3,340
kWh	23	24	24	584	348	1,332	3,513	466	413	87	72	74	6,960
kWh	12	11	12	532	239	1,151	4,613	1,504	366	12	12	12	8,476
Cost	\$ 1,657	\$ 1,542	\$ 1,665	\$ 1,543	\$ 848	\$ 2,084	\$ 2,145	\$ 1,850	\$ 992	\$ 905	\$ 1,893	\$ 1,815	\$ 18,938

<b>Utility Provider:</b>	Puget Sound Energy				
<b>Account No.:</b>	200021263294	<b>Meter No.:</b>	P158620994	<b>Rate Schedule:</b>	24
<b>Account No.:</b>	200020263583	<b>Meter No.:</b>	P158621612	<b>Rate Schedule:</b>	24
<b>Account No.:</b>	200020263583	<b>Meter No.:</b>	X152786219	<b>Rate Schedule:</b>	24
<b>Account No.:</b>	200020263583	<b>Meter No.:</b>	X163565670	<b>Rate Schedule:</b>	24
<b>Account No.:</b>	200020263583	<b>Meter No.:</b>	X162356595	<b>Rate Schedule:</b>	24
<b>Account No.:</b>	200020263583	<b>Meter No.:</b>	P158620991	<b>Rate Schedule:</b>	24
<b>Account No.:</b>	200020263583	<b>Meter No.:</b>	P158621487	<b>Rate Schedule:</b>	24
<b>Account No.:</b>	200021263815	<b>Meter No.:</b>	P158621489	<b>Rate Schedule:</b>	24

2023	Electricity Summary - Cedar Creek - Littlerock, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	NO DATA AVAILABLE												-
Cost	NO DATA AVAILABLE												\$ -

<b>Utility Provider:</b>	Puget Sound Energy				
<b>Account No.:</b>		<b>Meter No.:</b>		<b>Rate Schedule:</b>	

2023	Electricity Summary - North Bend Garage												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	165	197	391	404	560	553	643	697	495	187	256		4,548
Cost	\$ 32	\$ 36	\$ 61	\$ 62	\$ 79	\$ 78	\$ 89	\$ 95	\$ 72	\$ 34	\$ 43		\$ 681

<b>Utility Provider:</b>	Puget Sound Energy	
<b>Account No.:</b>	200000727657	<b>Meter No.:</b> X159423231 <b>Rate Schedule:</b> Commercial 24

2023	Electricity Summary - NW Region Administration - Sedro Woolley, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh												17,440	17,440
Cost												#####	\$ 2,509.48

<b>Utility Provider:</b>	Puget Sound Energy	
<b>Account No.:</b>	200025317500	<b>Meter No.:</b> P171644368 <b>Rate Schedule:</b> Commercial 25

2023	Electricity Summary - DNR Hangar - Tumwater, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	NO DATA AVAILABLE												-
Cost	NO DATA AVAILABLE												\$ -

<b>Utility Provider:</b>	Puget Sound Energy	
<b>Account No.:</b>		<b>Meter No.:</b> <b>Rate Schedule:</b>

2023	Electricity Summary - Tumwater Compound												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	28,500	30,900	28,800	25,200	22,800	20,100	20,400	23,700	19,500	21,600	29,700	28,500	299,700
Cost	\$ 4,616	\$ 4,805	\$ 4,556	\$ 3,791	\$ 3,319	\$ 3,267	\$ 3,104	\$ 3,370	\$ 3,145	\$ 3,852	\$ 3,914	\$ 4,403	\$ 46,144

<b>Utility Provider:</b>	Puget Sound Energy	
<b>Account No.:</b>	200010898803	<b>Meter No.:</b> Z004467206 <b>Rate Schedule:</b> 31

2023	Electricity Summary - Forest Land Greenhouse - Tumwater, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	NO DATA AVAILABLE												-
Cost	NO DATA AVAILABLE												\$ -

<b>Utility Provider:</b>	Puget Sound Energy	
<b>Account No.:</b>	200022376145	<b>Meter No.:</b> Z001264567 <b>Rate Schedule:</b> 31

2023	Electricity Summary - Forest Land Greenhouse - Tumwater, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	22,500	22,320	34,920	32,220	21,600	19,620	15,300	14,400	12,600	15,120	16,380	20,160	247,140
Cost	\$ 3,037	\$ 3,214	\$ 4,588	\$ 3,896	\$ 2,779	\$ 2,561	\$ 2,118	\$ 2,052	\$ 1,931	\$ 2,328	\$ 2,454	\$ 2,757	\$ 33,714
<b>Utility Provider:</b>	Puget Sound Energy												
<b>Account No.:</b>	200003709357			<b>Meter No.:</b>	Z004214257			<b>Rate Schedule:</b>	31				

Puget Sound Energy (PSE) is the utility service provider for nine locations within the EVSE project scope. Consumption and billing history data was not available for all sites. Locations are summarized here by known or assumed rate schedule.

The Meridian Tree Farm site is fed by eight separate utility services. Each meter is billed under PSE rate schedule 24, as is the North Bend garage. Utility bills were not available for the Tumwater Hangar, but it is most likely billed under Schedule 24 due to its small size and nominal demand.

PSE Schedule 24 has a seasonal component; all energy used during the months of October through March is billed at \$0.133796 per kWh. Energy used during the months of April through September is billed at \$0.130596 per kWh. Demand is not billed under Schedule 24.

The South Puget Sound Regional HQ in Enumclaw, and the NW Regional HQ in Sedro Woolley are served under PSE rate schedule 25. It is assumed that the Cedar Creek facility in Littlerock is served under Schedule 25 but bills and billing information were not available.

PSE Schedule 25 has a seasonal component similar to Schedule 24 but adds a tiered structure. The first 20,000 kWh used from October through March is billed at \$0.126499 per kWh. Energy consumption greater than 20,000 kWh is billed at \$0.100842 per kWh. The first 20,000 kWh used from April through September is billed at \$0.117553 per kWh. Energy consumption greater than 20,000 kWh is billed at 0.100482 per kWh.

Demand charges also vary seasonally. Demand greater than 50kW is billed at \$12.75 per kW during October through March and \$9.38 during April through September.

Rate Schedule 31 applies to the Tumwater Compound and Forest Land Greenhouse sites. Under Schedule 31 energy is billed at \$0.085375 per kWh. Demand charges vary seasonally and are billed at \$13.31 per kW from October through March and \$9.33 per kW from April through September.

The costs shown for rate schedules 24, 25, and 31 are inclusive of numerous federal credits and additional charges.

[https://www.pse.com/-/media/Project/PSE/Portal/Rate-documents/summ\\_elec\\_prices\\_2024\\_05\\_01\\_lighting.pdf?rev=dd463dd247e340e7a5912de6fb759c93&sc\\_lang=en](https://www.pse.com/-/media/Project/PSE/Portal/Rate-documents/summ_elec_prices_2024_05_01_lighting.pdf?rev=dd463dd247e340e7a5912de6fb759c93&sc_lang=en)

### Skamania PUD

2023	Electricity Summary - Fort Rains - North Bonneville, WA												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	720	680	1,240	1,080	160	80	-	40	-	320	720	1,280	6,320
Cost	\$ 140	\$ 136	\$ 203	\$ 192	\$ 99	\$ 90	\$ 82	\$ 86	\$ 82	\$ 115	\$ 156	\$ 232	\$ 1,620
<b>Utility Provider:</b>	Skamania PUD												
<b>Account No.:</b>	1602001				<b>Meter No.:</b>	91518445			<b>Rate Schedule:</b>	Commercial			

Skamania PUD provides utility service to Fort Rains in North Bonneville. Under their Commercial rate schedule all energy is billed at \$0.1026 per kWh. Demand is not billed under this schedule.

<https://www.skamaniapud.com/your-account/rates/2023-electric-rate-schedule-2/>

### Snohomish County PUD

2023	Electricity Summary - Granite Falls Work Center												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
kWh	5,461	5,973	4,864	3,814	2,999	858	645	935	820	1,290	4,228	5,262	37,149
Cost	\$ 500	\$ 547	\$ 448	\$ 356	\$ 285	\$ 94	\$ 74	\$ 103	\$ 88	\$ 132	\$ 400	\$ 491	\$ 3,517
<b>Utility Provider:</b>	Snohomish PUD												
<b>Account No.:</b>	200681443				<b>Meter No.:</b>	1000508361			<b>Rate Schedule:</b>	SCHED-25			

Utility service to the Granite Falls Work Center is provided by Snohomish County PUD under rate schedule 25. Energy is billed at \$0.0900 per kWh. Demand is billed at \$0.1707 per kW per day for all kW over 10.

<https://www.snopud.com/wp-content/uploads/2024/04/electricrates.pdf>

## **APPENDIX II**

### **Light fleet inventory and analysis**

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A0E8737	2006 Ford Escape	SUV	3036	20	152	Forks - Oly HQ	\$ 4.17	\$ 633	2023 Tesla Model Y	113	30	910.8	\$ 0.0642	\$ 58.47
A0E9335	2008 Ford Escape	SUV	5191	21	247	Castle Rock	\$ 4.17	\$ 1,031	2023 Tesla Model Y	113	30	1,557.3	\$ 0.0871	\$ 135.64
A0E9336	2008 Ford Escape	SUV	7080	21	337	Castle Rock	\$ 4.17	\$ 1,406	2023 Tesla Model Y	113	30	2,124.0	\$ 0.0871	\$ 185.00
A0U0001	2012 Ford Escape Hybrid	SUV	15319	29	528	Excluded	\$ 4.17	\$ 2,203	2023 Tesla Model Y	113	30	4,595.7	\$ -	\$ -
A0U0003	2012 Ford Escape Hybrid	SUV	4122	29	142	Colville	\$ 4.17	\$ 593	2023 Tesla Model Y	113	30	1,236.6	\$ 0.1082	\$ 133.80
A0U0004	2012 Ford Escape Hybrid	SUV	474	29	16	Castle Rock	\$ 4.17	\$ 68	2023 Tesla Model Y	113	30	142.2	\$ 0.0871	\$ 12.39
A0U0005	2012 Ford Escape Hybrid	SUV	8902	29	307	Sedro Woolley	\$ 4.17	\$ 1,280	2023 Tesla Model Y	113	30	2,670.6	\$ 0.0993	\$ 265.14
A0U0006	2017 Ford Escape Hybrid	SUV	4063	26	156	Ellensburg	\$ 4.17	\$ 652	2023 Tesla Model Y	113	30	1,218.9	\$ 0.0772	\$ 94.10
A0U0007	2017 Toyota RAV 4 Hybrid	SUV	7370	32	230	Excluded	\$ 4.17	\$ 960	2023 Tesla Model Y	113	30	2,211.0	\$ -	\$ -
A0U0008	2018 Toyota RAV 4 Hybrid	SUV	9771	32	305	Ellensburg	\$ 4.17	\$ 1,273	2023 Tesla Model Y	113	30	2,931.3	\$ 0.0772	\$ 226.30
A0U0009	2018 Toyota RAV 4 Hybrid	SUV	10650	32	333	Forks - Oly HQ	\$ 4.17	\$ 1,388	2023 Tesla Model Y	113	30	3,195.0	\$ 0.0642	\$ 205.12
A0U0010	2019 Toyota RAV 4	SUV	9056	28	323	Excluded	\$ 4.17	\$ 1,349	2023 Tesla Model Y	113	30	2,716.8	\$ -	\$ -
A0U0011	2019 Toyota RAV 4	SUV	7287	28	260	Port Angeles	\$ 4.17	\$ 1,085	2023 Tesla Model Y	113	30	2,186.1	\$ 0.0642	\$ 140.35
A0U0012	2019 Toyota RAV 4	SUV	10585	28	378	North Bend	\$ 4.17	\$ 1,576	2023 Tesla Model Y	113	30	3,175.5	\$ 0.1260	\$ 400.18
A0U0013	2019 Toyota RAV 4	SUV	12666	28	452	Colville	\$ 4.17	\$ 1,886	2023 Tesla Model Y	113	30	3,799.8	\$ 0.1082	\$ 411.14
A0U0014	2019 Toyota RAV 4	SUV	4198	28	150	Excluded	\$ 4.17	\$ 625	2023 Tesla Model Y	113	30	1,259.4	\$ -	\$ -
A0U0015	2019 Toyota RAV 4	SUV	4931	28	176	Excluded	\$ 4.17	\$ 734	2023 Tesla Model Y	113	30	1,479.3	\$ -	\$ -
A0U0016	2020 Toyota RAV 4	SUV	7540	30	251	Excluded	\$ 4.17	\$ 1,048	2023 Tesla Model Y	113	30	2,262.0	\$ -	\$ -
A0U0017	2020 Toyota RAV 4	SUV	13027	30	434	Colville	\$ 4.17	\$ 1,811	2023 Tesla Model Y	113	30	3,908.1	\$ 0.1082	\$ 422.86
A0U0018	2020 Toyota RAV 4	SUV	4437	30	148	Forks - Oly HQ	\$ 4.17	\$ 617	2023 Tesla Model Y	113	30	1,331.1	\$ 0.0642	\$ 85.46
A0U0019	2020 Toyota RAV 4	SUV	8083	30	269	Enumclaw	\$ 4.17	\$ 1,124	2023 Tesla Model Y	113	30	2,424.9	\$ 0.1260	\$ 305.59
A0U0020	2020 Toyota RAV 4	SUV	13871	30	462	Excluded	\$ 4.17	\$ 1,928	2023 Tesla Model Y	113	30	4,161.3	\$ -	\$ -
A0U0021	2020 Toyota RAV 4	SUV	9666	30	322	Ellensburg	\$ 4.17	\$ 1,344	2023 Tesla Model Y	113	30	2,899.8	\$ 0.0772	\$ 223.86
A0U0022	2021 Toyota RAV 4	SUV	9421	30	314	Excluded	\$ 4.17	\$ 1,310	2023 Tesla Model Y	113	30	2,826.3	\$ -	\$ -
A0U0023	2021 Toyota RAV 4	SUV	12929	30	431	Colville	\$ 4.17	\$ 1,797	2023 Tesla Model Y	113	30	3,878.7	\$ 0.1082	\$ 419.68
A0U0024	2021 Toyota RAV 4	SUV	11967	30	399	Sedro Woolley	\$ 4.17	\$ 1,663	2023 Tesla Model Y	113	30	3,590.1	\$ 0.0993	\$ 356.43
A0U0025	2021 Toyota RAV 4	SUV	7281	30	243	Castle Rock	\$ 4.17	\$ 1,012	2023 Tesla Model Y	113	30	2,184.3	\$ 0.0871	\$ 190.25
A0U0026	2021 Toyota RAV 4	SUV	8855	30	295	Castle Rock	\$ 4.17	\$ 1,231	2023 Tesla Model Y	113	30	2,656.5	\$ 0.0871	\$ 231.38
A0U0027	2021 Toyota RAV 4	SUV	5593	30	186	Enumclaw	\$ 4.17	\$ 777	2023 Tesla Model Y	113	30	1,677.9	\$ 0.1260	\$ 211.45
A0U0028	2021 Toyota RAV 4	SUV	1827	30	61	Enumclaw	\$ 4.17	\$ 254	2023 Tesla Model Y	113	30	548.1	\$ 0.1260	\$ 69.07
A0U0029	2021 Toyota RAV 4	SUV	6980	30	233	Dallesport	\$ 4.17	\$ 970	2023 Tesla Model Y	113	30	2,094.0	\$ 0.0710	\$ 148.67
A0U0030	2021 Toyota RAV 4	SUV	5320	30	177	Excluded	\$ 4.17	\$ 739	2023 Tesla Model Y	113	30	1,596.0	\$ -	\$ -
A0U9133	2007 Ford Escape	SUV	4616	19	243	Forks - Oly HQ	\$ 4.17	\$ 1,013	2023 Tesla Model Y	113	30	1,384.8	\$ 0.0642	\$ 88.90
A0U9347	2008 Ford Escape	SUV	3146	21	150	Ellensburg	\$ 4.17	\$ 625	2023 Tesla Model Y	113	30	943.8	\$ 0.0772	\$ 72.86
A0U9714	2008 Ford Escape	SUV	9625	21	458	Excluded	\$ 4.17	\$ 1,911	2023 Tesla Model Y	113	30	2,887.5	\$ -	\$ -
A0U9715	2008 Ford Escape	SUV	2894	21	138	Excluded	\$ 4.17	\$ 575	2023 Tesla Model Y	113	30	868.2	\$ -	\$ -
A0U9896	2008 Ford Escape	SUV	0	21	-	Forks - Oly HQ	\$ 4.17	\$ -	2023 Tesla Model Y	113	30	-	\$ 0.0642	\$ -
A0U9915	2008 Ford Escape	SUV	6662	21	317	Excluded	\$ 4.17	\$ 1,323	2023 Tesla Model Y	113	30	1,998.6	\$ -	\$ -
A0W0001	2009 Chevrolet Colorado	Pickup	12678	19	667	Excluded	\$ 4.17	\$ 2,782	2023 Ford F150 Lightning	68	49	6,212.2	\$ -	\$ -
A0W0002	2020 Ford Ranger	Pickup	6574	22	299	Tumwater - Webster	\$ 4.17	\$ 1,246	2023 Ford F150 Lightning	68	49	3,221.3	\$ 0.0993	\$ 319.81
A0W0003	2020 Ford Ranger	Pickup	5220	22	237	Forks - Oly HQ	\$ 4.17	\$ 989	2023 Ford F150 Lightning	68	49	2,557.8	\$ 0.0642	\$ 164.21
A0W0004	2020 Ford Ranger	Pickup	10455	22	475	Tumwater - Webster	\$ 4.17	\$ 1,982	2023 Ford F150 Lightning	68	49	5,123.0	\$ 0.0993	\$ 508.61
A0W0005	2020 Ford Ranger	Pickup	7653	22	348	Excluded	\$ 4.17	\$ 1,451	2023 Ford F150 Lightning	68	49	3,750.0	\$ -	\$ -
A0W0006	2020 Ford Ranger	Pickup	9887	22	449	Excluded	\$ 4.17	\$ 1,874	2023 Ford F150 Lightning	68	49	4,844.6	\$ -	\$ -
A0W0007	2020 Ford Ranger	Pickup	16938	22	770	Excluded	\$ 4.17	\$ 3,211	2023 Ford F150 Lightning	68	49	8,299.6	\$ -	\$ -
A0W0008	2021 Ford Ranger	Pickup	7194	22	327	Colville	\$ 4.17	\$ 1,364	2023 Ford F150 Lightning	68	49	3,525.1	\$ 0.1082	\$ 381.41
A0W0009	2021 Ford Ranger	Pickup	11826	22	538	Forks - Oly HQ	\$ 4.17	\$ 2,242	2023 Ford F150 Lightning	68	49	5,794.7	\$ 0.0642	\$ 372.02
A0W0010	2021 Ford Ranger	Pickup	18872	22	858	Forks - Oly HQ	\$ 4.17	\$ 3,577	2023 Ford F150 Lightning	68	49	9,247.3	\$ 0.0642	\$ 593.68
A0W0011	2021 Ford Ranger	Pickup	4416	22	201	Excluded	\$ 4.17	\$ 837	2023 Ford F150 Lightning	68	49	2,163.8	\$ -	\$ -
A0W0012	2022 Ford Ranger	Pickup	13989	21	666	Forks - Oly HQ	\$ 4.17	\$ 2,778	2023 Ford F150 Lightning	68	49	6,854.6	\$ 0.0642	\$ 440.07
A0W0013	2022 Ford Ranger	Pickup	10778	21	513	Colville	\$ 4.17	\$ 2,140	2023 Ford F150 Lightning	68	49	5,281.2	\$ 0.1082	\$ 571.43

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A0W0014	2022 Ford Ranger	Pickup	1994	21	95	Forks - Oly HQ	\$ 4.17	\$ 396	2023 Ford F150 Lightning	68	49	977.1	\$ 0.0642	\$ 62.73
A0W0015	2022 Ford Ranger	Pickup	4604	21	219	Excluded	\$ 4.17	\$ 914	2023 Ford F150 Lightning	68	49	2,256.0	\$ -	\$ -
A0W0016	2023 Chevrolet Colorado	Pickup	7864	21	374	Loomis Highlands	\$ 4.17	\$ 1,562	2023 Ford F150 Lightning	68	49	3,853.4	\$ 0.0641	\$ 247.00
A0W0017	2023 Chevrolet Colorado	Pickup	1267	21	60	Colville	\$ 4.17	\$ 252	2023 Ford F150 Lightning	68	49	620.8	\$ 0.1082	\$ 67.17
A0W0018	2023 Chevrolet Colorado	Pickup	2695	21	128	Deer Park	\$ 4.17	\$ 535	2023 Ford F150 Lightning	68	49	1,320.6	\$ 0.1239	\$ 163.55
A0W0019	2023 Chevrolet Colorado	Pickup	2088	21	99	Deer Park	\$ 4.17	\$ 415	2023 Ford F150 Lightning	68	49	1,023.1	\$ 0.1239	\$ 126.71
A0W0020	2023 Chevrolet Colorado	Pickup	1041	21	50	Ellensburg	\$ 4.17	\$ 207	2023 Ford F150 Lightning	68	49	510.1	\$ 0.0772	\$ 39.38
A0W0021	2023 Chevrolet Colorado	Pickup	4655	21	222	Loomis Highlands	\$ 4.17	\$ 924	2023 Ford F150 Lightning	68	49	2,281.0	\$ 0.0641	\$ 146.21
A0W0022	2023 Chevrolet Colorado	Pickup	2539	21	121	Dallesport	\$ 4.17	\$ 504	2023 Ford F150 Lightning	68	49	1,244.1	\$ 0.0710	\$ 88.33
A0W0023	2023 Chevrolet Colorado	Pickup	1738	21	83	Dallesport	\$ 4.17	\$ 345	2023 Ford F150 Lightning	68	49	851.6	\$ 0.0710	\$ 60.47
A0W0024	2023 Chevrolet Colorado	Pickup	629	21	30	Ellensburg	\$ 4.17	\$ 125	2023 Ford F150 Lightning	68	49	308.2	\$ 0.0772	\$ 23.79
A0W0025	2023 Chevrolet Colorado	Pickup	71	21	3	Tumwater - DNR Hangar	\$ 4.17	\$ 14	2023 Ford F150 Lightning	68	49	34.8	\$ 0.0993	\$ 3.45
A0W0026	2023 Chevrolet Colorado	Pickup	70	21	3	Tumwater - DNR Hangar	\$ 4.17	\$ 14	2023 Ford F150 Lightning	68	49	34.3	\$ 0.0993	\$ 3.41
A0W0027	2023 Chevrolet Colorado	Pickup	69	21	3	Excluded	\$ 4.17	\$ 14	2023 Ford F150 Lightning	68	49	33.8	\$ -	\$ -
A0W0028	2023 Chevrolet Colorado	Pickup	109	21	5	Excluded	\$ 4.17	\$ 22	2023 Ford F150 Lightning	68	49	53.4	\$ -	\$ -
A0W0029	2023 Chevrolet Colorado	Pickup	132	21	6	Excluded	\$ 4.17	\$ 26	2023 Ford F150 Lightning	68	49	64.7	\$ -	\$ -
A0W0030	2023 Chevrolet Colorado	Pickup	2097	21	100	Sedro Woolley	\$ 4.17	\$ 416	2023 Ford F150 Lightning	68	49	1,027.5	\$ 0.0993	\$ 102.01
A0W0031	2023 Chevrolet Colorado	Pickup	70	21	3	Excluded	\$ 4.17	\$ 14	2023 Ford F150 Lightning	68	49	34.3	\$ -	\$ -
A0W0032	2023 Chevrolet Colorado	Pickup	69	21	3	Excluded	\$ 4.17	\$ 14	2023 Ford F150 Lightning	68	49	33.8	\$ -	\$ -
A0W0033	2023 Chevrolet Colorado	Pickup	1063	21	51	Battle Ground	\$ 4.17	\$ 211	2023 Ford F150 Lightning	68	49	520.9	\$ 0.0833	\$ 43.39
A0W0034	2023 Chevrolet Colorado	Pickup	1897	21	90	Excluded	\$ 4.17	\$ 377	2023 Ford F150 Lightning	68	49	929.5	\$ -	\$ -
A0W0035	2023 Chevrolet Colorado	Pickup	525	21	25	Battle Ground	\$ 4.17	\$ 104	2023 Ford F150 Lightning	68	49	257.3	\$ 0.0833	\$ 21.43
A0W0036	2023 Chevrolet Colorado	Pickup	10000	21	476	Excluded	\$ 4.17	\$ 1,986	2023 Ford F150 Lightning	68	49	4,900.0	\$ -	\$ -
A0W0037	2023 Chevrolet Colorado	Pickup	123	21	6	Excluded	\$ 4.17	\$ 24	2023 Ford F150 Lightning	68	49	60.3	\$ -	\$ -
A0W0038	2023 Chevrolet Colorado	Pickup	69	21	3	Excluded	\$ 4.17	\$ 14	2023 Ford F150 Lightning	68	49	33.8	\$ -	\$ -
A0W0039	2023 Chevrolet Colorado	Pickup	462	21	22	Excluded	\$ 4.17	\$ 92	2023 Ford F150 Lightning	68	49	226.4	\$ -	\$ -
A0W3979	2001 GMC Sonoma	Pickup	1142	16	71	Tumwater - Webster	\$ 4.17	\$ 298	2023 Ford F150 Lightning	68	49	559.6	\$ 0.0993	\$ 55.56
A1E8741	2006 Jeep Grand Cherokee	SUV	4100	17	241	Sedro Woolley	\$ 4.17	\$ 1,006	2023 Tesla Model Y	113	30	1,230.0	\$ 0.0993	\$ 122.12
A1E9340	2007 Jeep Commander	SUV	8758	15	584	Excluded	\$ 4.17	\$ 2,435	2023 Tesla Model Y	113	30	2,627.4	\$ -	\$ -
A1P9136	2007 Ford Ranger	Pickup	4535	16	283	Castle Rock	\$ 4.17	\$ 1,182	2023 Ford F150 Lightning	68	49	2,222.2	\$ 0.0871	\$ 193.55
A1P9137	2007 Ford Ranger	Pickup	110	16	7	Battle Ground	\$ 4.17	\$ 29	2023 Ford F150 Lightning	68	49	53.9	\$ 0.0833	\$ 4.49
A1P9417	2007 Ford Ranger	Pickup	2990	16	187	Tumwater Compound	\$ 4.17	\$ 779	2023 Ford F150 Lightning	68	49	1,465.1	\$ 0.0993	\$ 145.46
A1P9966	2008 Ford Ranger	Pickup	2831	16	177	Tumwater Compound	\$ 4.17	\$ 738	2023 Ford F150 Lightning	68	49	1,387.2	\$ 0.0993	\$ 137.72
A1U0002	2009 Chevrolet Blazer	SUV	1197	16	75	Ellensburg	\$ 4.17	\$ 312	2023 Tesla Model Y	113	30	359.1	\$ 0.0772	\$ 27.72
A1U0004	2009 Chevrolet Blazer	SUV	6379	16	399	Excluded	\$ 4.17	\$ 1,663	2023 Tesla Model Y	113	30	1,913.7	\$ -	\$ -
A1U0009	2013 Ford Explorer	SUV	9533	19	502	Ellensburg	\$ 4.17	\$ 2,092	2023 Tesla Model Y	113	30	2,859.9	\$ 0.0772	\$ 220.78
A1U0010	2013 Ford Explorer	SUV	8898	19	468	Colville	\$ 4.17	\$ 1,953	2023 Tesla Model Y	113	30	2,669.4	\$ 0.1082	\$ 288.83
A1U0011	2013 Ford Explorer	SUV	5254	19	277	Forks - Oly HQ	\$ 4.17	\$ 1,153	2023 Tesla Model Y	113	30	1,576.2	\$ 0.0642	\$ 101.19
A1U0012	2013 Ford Explorer	SUV	12568	19	661	Excluded	\$ 4.17	\$ 2,758	2023 Tesla Model Y	113	30	3,770.4	\$ -	\$ -
A1U0013	2014 Ford Explorer	SUV	4131	18	230	Excluded	\$ 4.17	\$ 957	2023 Tesla Model Y	113	30	1,239.3	\$ -	\$ -
A1U0014	2014 Ford Explorer	SUV	5016	18	279	Excluded	\$ 4.17	\$ 1,162	2023 Tesla Model Y	113	30	1,504.8	\$ -	\$ -
A1U0015	2014 Ford Explorer	SUV	8093	18	450	Excluded	\$ 4.17	\$ 1,875	2023 Tesla Model Y	113	30	2,427.9	\$ -	\$ -
A1U0016	2014 Ford Explorer	SUV	8231	18	457	Excluded	\$ 4.17	\$ 1,907	2023 Tesla Model Y	113	30	2,469.3	\$ -	\$ -
A1U0017	2014 Ford Explorer	SUV	8689	18	483	Excluded	\$ 4.17	\$ 2,013	2023 Tesla Model Y	113	30	2,606.7	\$ -	\$ -
A1U0018	2014 Ford Explorer	SUV	7947	18	442	Excluded	\$ 4.17	\$ 1,841	2023 Tesla Model Y	113	30	2,384.1	\$ -	\$ -
A1U0019	2014 Ford Explorer	SUV	7594	18	422	Ellensburg	\$ 4.17	\$ 1,759	2023 Tesla Model Y	113	30	2,278.2	\$ 0.0772	\$ 175.88
A1U0020	2014 Ford Explorer	SUV	12945	18	719	Excluded	\$ 4.17	\$ 2,999	2023 Tesla Model Y	113	30	3,883.5	\$ -	\$ -
A1U0021	2014 Ford Explorer	SUV	7537	18	419	Excluded	\$ 4.17	\$ 1,746	2023 Tesla Model Y	113	30	2,261.1	\$ -	\$ -
A1U0022	2014 Ford Explorer	SUV	8390	18	466	Tumwater Compound	\$ 4.17	\$ 1,944	2023 Tesla Model Y	113	30	2,517.0	\$ 0.0993	\$ 249.89
A1U0023	2014 Ford Explorer	SUV	5562	18	309	Excluded	\$ 4.17	\$ 1,289	2023 Tesla Model Y	113	30	1,668.6	\$ -	\$ -
A1U0024	2014 Ford Explorer	SUV	10109	18	562	Colville	\$ 4.17	\$ 2,342	2023 Tesla Model Y	113	30	3,032.7	\$ 0.1082	\$ 328.14

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A1U0025	2014 Ford Explorer	SUV	7663	18	426	Ellensburg	\$ 4.17	\$ 1,775	2023 Tesla Model Y	113	30	2,298.9	\$ 0.0772	\$ 177.48
A1U0026	2014 Ford Explorer	SUV	7151	18	397	Ellensburg	\$ 4.17	\$ 1,657	2023 Tesla Model Y	113	30	2,145.3	\$ 0.0772	\$ 165.62
A1U0027	2014 Ford Explorer	SUV	5299	18	294	Excluded	\$ 4.17	\$ 1,228	2023 Tesla Model Y	113	30	1,589.7	\$ -	\$ -
A1U0028	2014 Ford Explorer	SUV	3356	18	186	Excluded	\$ 4.17	\$ 777	2023 Tesla Model Y	113	30	1,006.8	\$ -	\$ -
A1U0029	2014 Ford Explorer	SUV	6748	18	375	Tumwater Compound	\$ 4.17	\$ 1,563	2023 Tesla Model Y	113	30	2,024.4	\$ 0.0993	\$ 200.98
A1U0030	2014 Ford Explorer	SUV	8896	18	494	Excluded	\$ 4.17	\$ 2,061	2023 Tesla Model Y	113	30	2,668.8	\$ -	\$ -
A1U0031	2014 Ford Explorer	SUV	11486	18	638	Excluded	\$ 4.17	\$ 2,661	2023 Tesla Model Y	113	30	3,445.8	\$ -	\$ -
A1U0032	2016 Ford Explorer	SUV	3934	18	219	Ellensburg	\$ 4.17	\$ 911	2023 Tesla Model Y	113	30	1,180.2	\$ 0.0772	\$ 91.11
A1U0033	2016 Ford Explorer	SUV	3353	18	186	Enumclaw	\$ 4.17	\$ 777	2023 Tesla Model Y	113	30	1,005.9	\$ 0.1260	\$ 126.77
A1U0034	2016 Ford Explorer	SUV	4821	18	268	Excluded	\$ 4.17	\$ 1,117	2023 Tesla Model Y	113	30	1,446.3	\$ -	\$ -
A1U0035	2016 Ford Explorer	SUV	11934	18	663	Excluded	\$ 4.17	\$ 2,765	2023 Tesla Model Y	113	30	3,580.2	\$ -	\$ -
A1U0036	2016 Ford Explorer	SUV	8109	18	451	Tumwater - DNR Hangar	\$ 4.17	\$ 1,879	2023 Tesla Model Y	113	30	2,432.7	\$ 0.0993	\$ 241.52
A1U0037	2016 Ford Explorer	SUV	11068	18	615	Sedro Woolley	\$ 4.17	\$ 2,564	2023 Tesla Model Y	113	30	3,320.4	\$ 0.0993	\$ 329.65
A1U0038	2016 Ford Explorer	SUV	14249	18	792	Excluded	\$ 4.17	\$ 3,301	2023 Tesla Model Y	113	30	4,274.7	\$ -	\$ -
A1U0039	2016 Ford Explorer	SUV	6614	18	367	Sedro Woolley	\$ 4.17	\$ 1,532	2023 Tesla Model Y	113	30	1,984.2	\$ 0.0993	\$ 196.99
A1U0040	2016 Ford Explorer	SUV	5765	18	320	Castle Rock	\$ 4.17	\$ 1,336	2023 Tesla Model Y	113	30	1,729.5	\$ 0.0871	\$ 150.64
A1U0041	2016 Ford Explorer	SUV	6077	18	338	Colville	\$ 4.17	\$ 1,408	2023 Tesla Model Y	113	30	1,823.1	\$ 0.1082	\$ 197.26
A1U0042	2016 Ford Explorer	SUV	3841	18	213	Excluded	\$ 4.17	\$ 890	2023 Tesla Model Y	113	30	1,152.3	\$ -	\$ -
A1U0043	2016 Ford Explorer	SUV	5928	18	329	Excluded	\$ 4.17	\$ 1,373	2023 Tesla Model Y	113	30	1,778.4	\$ -	\$ -
A1U0044	2016 Ford Explorer	SUV	10215	18	568	Excluded	\$ 4.17	\$ 2,366	2023 Tesla Model Y	113	30	3,064.5	\$ -	\$ -
A1U0045	2017 Ford Explorer	SUV	7810	18	434	Excluded	\$ 4.17	\$ 1,809	2023 Tesla Model Y	113	30	2,343.0	\$ -	\$ -
A1U0046	2023 Ford Explorer	SUV	4910	20	246	Excluded	\$ 4.17	\$ 1,024	2023 Tesla Model Y	113	30	1,473.0	\$ -	\$ -
A1U0047	2023 Ford Explorer	SUV	3823	20	191	Enumclaw	\$ 4.17	\$ 797	2023 Tesla Model Y	113	30	1,146.9	\$ 0.1260	\$ 144.53
A1U8638	2006 Ford Explorer	SUV	1218	15	81	Loomis Highlands	\$ 4.17	\$ 339	2023 Tesla Model Y	113	30	365.4	\$ 0.0641	\$ 23.42
A1U8639	2006 Ford Explorer	SUV	2851	15	190	Castle Rock	\$ 4.17	\$ 793	2023 Tesla Model Y	113	30	855.3	\$ 0.0871	\$ 74.50
A1U8645	2006 Ford Explorer	SUV	4743	15	316	Excluded	\$ 4.17	\$ 1,319	2023 Tesla Model Y	113	30	1,422.9	\$ -	\$ -
A1U8649	2006 Ford Explorer	SUV	2821	15	188	Excluded	\$ 4.17	\$ 784	2023 Tesla Model Y	113	30	846.3	\$ -	\$ -
A1U9121	2007 Ford Explorer	SUV	2177	15	145	Tumwater - Webster	\$ 4.17	\$ 605	2023 Tesla Model Y	113	30	653.1	\$ 0.0993	\$ 64.84
A1U9332	2007 Ford Explorer	SUV	4049	15	270	Sedro Woolley	\$ 4.17	\$ 1,126	2023 Tesla Model Y	113	30	1,214.7	\$ 0.0993	\$ 120.60
A1U9964	2008 Chevrolet Blazer	SUV	3435	16	215	Enumclaw	\$ 4.17	\$ 895	2023 Tesla Model Y	113	30	1,030.5	\$ 0.1260	\$ 129.87
A1U9988	2008 Chevrolet Blazer	SUV	2281	16	143	Sedro Woolley	\$ 4.17	\$ 594	2023 Tesla Model Y	113	30	684.3	\$ 0.0993	\$ 67.94
A2A0001	2009 Toyota Prius	Sedan	1882	46	41	Excluded	\$ 4.17	\$ 171	2023 Tesla Model Y	113	30	564.6	\$ -	\$ -
A2A0002	2009 Toyota Prius	Sedan	11190	46	243	Excluded	\$ 4.17	\$ 1,014	2023 Tesla Model Y	113	30	3,357.0	\$ -	\$ -
A2A0003	2015 Toyota Prius	Sedan	1730	48	36	Belfair	\$ 4.17	\$ 150	2023 Tesla Model Y	113	30	519.0	\$ 0.0891	\$ 46.24
A2A0004	2015 Toyota Prius	Sedan	3748	48	78	Enumclaw	\$ 4.17	\$ 326	2023 Tesla Model Y	113	30	1,124.4	\$ 0.1260	\$ 141.70
A2A0005	2015 Toyota Prius	Sedan	8782	48	183	Forks - Oly HQ	\$ 4.17	\$ 763	2023 Tesla Model Y	113	30	2,634.6	\$ 0.0642	\$ 169.14
A2A0006	2015 Toyota Prius	Sedan	126	48	3	Enumclaw	\$ 4.17	\$ 11	2023 Tesla Model Y	113	30	37.8	\$ 0.1260	\$ 4.76
A2A0007	2015 Toyota Prius	Sedan	8186	48	171	Sedro Woolley	\$ 4.17	\$ 711	2023 Tesla Model Y	113	30	2,455.8	\$ 0.0993	\$ 243.81
A2A0008	2015 Toyota Prius	Sedan	3066	48	64	Castle Rock	\$ 4.17	\$ 266	2023 Tesla Model Y	113	30	919.8	\$ 0.0871	\$ 80.11
A2A0009	2015 Toyota Prius	Sedan	3273	48	68	Enumclaw	\$ 4.17	\$ 284	2023 Tesla Model Y	113	30	981.9	\$ 0.1260	\$ 123.74
A2A0010	2015 Toyota Prius	Sedan	4788	48	100	Ellensburg	\$ 4.17	\$ 416	2023 Tesla Model Y	113	30	1,436.4	\$ 0.0772	\$ 110.89
A2A0011	2015 Toyota Prius	Sedan	1498	48	31	Castle Rock	\$ 4.17	\$ 130	2023 Tesla Model Y	113	30	449.4	\$ 0.0871	\$ 39.14
A2A0012	2015 Toyota Prius	Sedan	4794	48	100	Excluded	\$ 4.17	\$ 416	2023 Tesla Model Y	113	30	1,438.2	\$ -	\$ -
A2A0013	2015 Toyota Prius	Sedan	-638	48	(13)	Enumclaw	\$ 4.17	\$ (55)	2023 Tesla Model Y	113	30	(191.4)	\$ 0.1260	\$ (24.12)
A2A0015	2017 Toyota Prius	Sedan	3856	52	74	Chelalis	\$ 4.17	\$ 309	2023 Tesla Model Y	113	30	1,156.8	\$ 0.0682	\$ 78.88
A2A0016	2017 Toyota Prius	Sedan	6011	52	116	Excluded	\$ 4.17	\$ 482	2023 Tesla Model Y	113	30	1,803.3	\$ -	\$ -
A2A0017	2018 Chevrolet Bolt EV	Sedan	1192	119	10	Ellensburg	\$ 4.17	\$ 42	2023 Tesla Model Y	113	30	357.6	\$ 0.0772	\$ 27.61
A2A0018	2018 Chevrolet Bolt EV	Sedan	694	119	6	Castle Rock	\$ 4.17	\$ 24	2023 Tesla Model Y	113	30	208.2	\$ 0.0871	\$ 18.13
A2A0019	2018 Chevrolet Bolt EV	Sedan	4647	119	39	Sedro Woolley	\$ 4.17	\$ 163	2023 Tesla Model Y	113	30	1,394.1	\$ 0.0993	\$ 138.41
A2A0020	2018 Chevrolet Bolt EV	Sedan	21	119	0	Enumclaw	\$ 4.17	\$ 1	2023 Tesla Model Y	113	30	6.3	\$ 0.1260	\$ 0.79
A2A0021	2018 Chevrolet Bolt EV	Sedan	2733	119	23	Excluded	\$ 4.17	\$ 96	2023 Tesla Model Y	113	30	819.9	\$ -	\$ -

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2A0022	2020 Chevrolet Bolt EV	Sedan	4407	118	37	Castle Rock	\$ 4.17	\$ 156	2023 Tesla Model Y	113	30	1,322.1	\$ 0.0871	\$ 115.15
A2A0023	2020 Chevrolet Bolt EV	Sedan	3619	118	31	Chimacum	\$ 4.17	\$ 128	2023 Tesla Model Y	113	30	1,085.7	\$ 0.1082	\$ 117.47
A2A0024	2020 Chevrolet Bolt EV	Sedan	3839	118	33	Excluded	\$ 4.17	\$ 136	2023 Tesla Model Y	113	30	1,151.7	\$ -	\$ -
A2A0025	2020 Chevrolet Bolt EV	Sedan	2182	118	18	Tumwater Compound	\$ 4.17	\$ 77	2023 Tesla Model Y	113	30	654.6	\$ 0.0993	\$ 64.99
A2A0026	2020 Chevrolet Bolt EV	Sedan	1006	118	9	Excluded	\$ 4.17	\$ 36	2023 Tesla Model Y	113	30	301.8	\$ -	\$ -
A2A0027	2020 Chevrolet Bolt EV	Sedan	5533	118	47	Excluded	\$ 4.17	\$ 196	2023 Tesla Model Y	113	30	1,659.9	\$ -	\$ -
A2A7697	2004 Toyota Prius	Sedan	2109	46	46	Enumclaw	\$ 4.17	\$ 191	2023 Tesla Model Y	113	30	632.7	\$ 0.1260	\$ 79.73
A2A8661	2006 Toyota Prius	Sedan	911	46	20	Enumclaw	\$ 4.17	\$ 83	2023 Tesla Model Y	113	30	273.3	\$ 0.1260	\$ 34.44
A2A8662	2006 Toyota Prius	Sedan	6435	46	140	Excluded	\$ 4.17	\$ 583	2023 Tesla Model Y	113	30	1,930.5	\$ -	\$ -
A2A9913	2008 Toyota Prius	Sedan	5400	46	117	Sedro Woolley	\$ 4.17	\$ 490	2023 Tesla Model Y	113	30	1,620.0	\$ 0.0993	\$ 160.83
A2A9914	2008 Toyota Prius	Sedan	11791	46	256	Excluded	\$ 4.17	\$ 1,069	2023 Tesla Model Y	113	30	3,537.3	\$ -	\$ -
A2A9926	2008 Honda Civic Hybrid	Sedan	15146	42	361	Excluded	\$ 4.17	\$ 1,504	2023 Tesla Model Y	113	30	4,543.8	\$ -	\$ -
A2A9927	2008 Honda Civic Hybrid	Sedan	1963	42	47	Tumwater - Webster	\$ 4.17	\$ 195	2023 Tesla Model Y	113	30	588.9	\$ 0.0993	\$ 58.47
A2A9928	2008 Honda Civic Hybrid	Sedan	14649	42	349	Excluded	\$ 4.17	\$ 1,454	2023 Tesla Model Y	113	30	4,394.7	\$ -	\$ -
A2A9968	2008 Honda Civic Hybrid	Sedan	673	42	16	Excluded	\$ 4.17	\$ 67	2023 Tesla Model Y	113	30	201.9	\$ -	\$ -
A2U0001	2008 Chevrolet Tahoe	SUV	6795	16	425	Excluded	\$ 4.17	\$ 1,771	2023 Tesla Model Y	113	30	2,038.5	\$ -	\$ -
A2U0002	2019 Ford Expedition	SUV	13620	19	717	Ellensburg	\$ 4.17	\$ 2,989	2023 Tesla Model Y	113	30	4,086.0	\$ 0.0772	\$ 315.44
A2U8215	2005 Ford Expedition	SUV	6301	14	450	Tumwater Compound	\$ 4.17	\$ 1,877	2023 Tesla Model Y	113	30	1,890.3	\$ 0.0993	\$ 187.67
A2U8679	2006 Ford Expedition	SUV	2811	14	201	Colville	\$ 4.17	\$ 837	2023 Tesla Model Y	113	30	843.3	\$ 0.1082	\$ 91.25
A2W0002	2009 Chevrolet Silverado	Pickup	7761	16	485	Forks - Oly HQ	\$ 4.17	\$ 2,023	2023 Ford F150 Lightning	68	49	3,802.9	\$ 0.0642	\$ 244.15
A2W0004	2009 Chevrolet Silverado	Pickup	8124	16	508	Ellensburg	\$ 4.17	\$ 2,117	2023 Ford F150 Lightning	68	49	3,980.8	\$ 0.0772	\$ 307.31
A2W0006	2009 Chevrolet Silverado	Pickup	5235	16	327	Tumwater Compound	\$ 4.17	\$ 1,364	2023 Ford F150 Lightning	68	49	2,565.2	\$ 0.0993	\$ 254.67
A2W0008	2009 Chevrolet Silverado	Pickup	5000	16	313	Tumwater Compound	\$ 4.17	\$ 1,303	2023 Ford F150 Lightning	68	49	2,450.0	\$ 0.0993	\$ 243.24
A2W0009	2009 Chevrolet Silverado	Pickup	1281	16	80	Enumclaw	\$ 4.17	\$ 334	2023 Ford F150 Lightning	68	49	627.7	\$ 0.1260	\$ 79.10
A2W0012	2009 Chevrolet Silverado	Pickup	5671	16	354	Ellensburg	\$ 4.17	\$ 1,478	2023 Ford F150 Lightning	68	49	2,778.8	\$ 0.0772	\$ 214.52
A2W0014	2009 Chevrolet Silverado	Pickup	8607	16	538	Enumclaw	\$ 4.17	\$ 2,243	2023 Ford F150 Lightning	68	49	4,217.4	\$ 0.1260	\$ 531.49
A2W0015	2009 Chevrolet Silverado	Pickup	7428	16	464	Enumclaw	\$ 4.17	\$ 1,936	2023 Ford F150 Lightning	68	49	3,639.7	\$ 0.1260	\$ 458.68
A2W0016	2009 Chevrolet Silverado	Pickup	3629	16	227	Tumwater Compound	\$ 4.17	\$ 946	2023 Ford F150 Lightning	68	49	1,778.2	\$ 0.0993	\$ 176.54
A2W0018	2009 Chevrolet Silverado	Pickup	2154	16	135	Excluded	\$ 4.17	\$ 561	2023 Ford F150 Lightning	68	49	1,055.5	\$ -	\$ -
A2W0020	2009 Chevrolet Silverado	Pickup	6484	16	405	Deer Park	\$ 4.17	\$ 1,690	2023 Ford F150 Lightning	68	49	3,177.2	\$ 0.1239	\$ 393.49
A2W0022	2009 Chevrolet Silverado	Pickup	3275	16	205	Deer Park	\$ 4.17	\$ 854	2023 Ford F150 Lightning	68	49	1,604.8	\$ 0.1239	\$ 198.75
A2W0027	2009 Chevrolet Silverado	Pickup	7716	16	482	Tumwater - Webster	\$ 4.17	\$ 2,011	2023 Ford F150 Lightning	68	49	3,780.8	\$ 0.0993	\$ 375.36
A2W0029	2009 Chevrolet Silverado	Pickup	4359	16	272	Tumwater Compound	\$ 4.17	\$ 1,136	2023 Ford F150 Lightning	68	49	2,135.9	\$ 0.0993	\$ 212.05
A2W0030	2009 Chevrolet Silverado	Pickup	11042	16	690	Battle Ground	\$ 4.17	\$ 2,878	2023 Ford F150 Lightning	68	49	5,410.6	\$ 0.0833	\$ 450.70
A2W0031	2012 Ford F150	Pickup	6940	13	534	Tumwater Compound	\$ 4.17	\$ 2,226	2023 Ford F150 Lightning	68	49	3,400.6	\$ 0.0993	\$ 337.61
A2W0032	2012 Ford F150	Pickup	2396	13	184	Excluded	\$ 4.17	\$ 769	2023 Ford F150 Lightning	68	49	1,174.0	\$ -	\$ -
A2W0033	2012 Ford F150	Pickup	8548	13	658	Colville	\$ 4.17	\$ 2,742	2023 Ford F150 Lightning	68	49	4,188.5	\$ 0.1082	\$ 453.20
A2W0034	2012 Ford F150	Pickup	8639	13	665	Colville	\$ 4.17	\$ 2,771	2023 Ford F150 Lightning	68	49	4,233.1	\$ 0.1082	\$ 458.02
A2W0036	2012 Ford F150	Pickup	8450	13	650	Forks - Oly Camp	\$ 4.17	\$ 2,711	2023 Ford F150 Lightning	68	49	4,140.5	\$ 0.0640	\$ 264.99
A2W0037	2012 Ford F150	Pickup	8544	13	657	Forks - Oly HQ	\$ 4.17	\$ 2,741	2023 Ford F150 Lightning	68	49	4,186.6	\$ 0.0642	\$ 268.78
A2W0038	2012 Ford F150	Pickup	5991	13	461	Colville	\$ 4.17	\$ 1,922	2023 Ford F150 Lightning	68	49	2,935.6	\$ 0.1082	\$ 317.63
A2W0039	2012 Ford F150	Pickup	8506	13	654	Sedro Woolley	\$ 4.17	\$ 2,728	2023 Ford F150 Lightning	68	49	4,167.9	\$ 0.0993	\$ 413.80
A2W0040	2012 Ford F150	Pickup	423	13	33	Excluded	\$ 4.17	\$ 136	2023 Ford F150 Lightning	68	49	207.3	\$ -	\$ -
A2W0041	2012 Ford F150	Pickup	15585	13	1,199	Sedro Woolley	\$ 4.17	\$ 4,999	2023 Ford F150 Lightning	68	49	7,636.7	\$ 0.0993	\$ 758.17
A2W0042	2012 Ford F150	Pickup	908	13	70	Excluded	\$ 4.17	\$ 291	2023 Ford F150 Lightning	68	49	444.9	\$ -	\$ -
A2W0043	2012 Ford F150	Pickup	1268	13	98	Excluded	\$ 4.17	\$ 407	2023 Ford F150 Lightning	68	49	621.3	\$ -	\$ -
A2W0044	2012 Ford F150	Pickup	7331	13	564	Chehalis	\$ 4.17	\$ 2,352	2023 Ford F150 Lightning	68	49	3,592.2	\$ 0.0682	\$ 244.95
A2W0045	2012 Ford F150	Pickup	3584	13	276	Tumwater Compound	\$ 4.17	\$ 1,150	2023 Ford F150 Lightning	68	49	1,756.2	\$ 0.0993	\$ 174.35
A2W0046	2012 Ford F150	Pickup	6980	13	537	Castle Rock	\$ 4.17	\$ 2,239	2023 Ford F150 Lightning	68	49	3,420.2	\$ 0.0871	\$ 297.90
A2W0047	2012 Ford F150	Pickup	3233	13	249	Excluded	\$ 4.17	\$ 1,037	2023 Ford F150 Lightning	68	49	1,584.2	\$ -	\$ -
A2W0048	2012 Ford F150	Pickup	11617	13	894	Excluded	\$ 4.17	\$ 3,726	2023 Ford F150 Lightning	68	49	5,692.3	\$ -	\$ -

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0049	2012 Ford F150	Pickup	6307	13	485	Belfair	\$ 4.17	\$ 2,023	2023 Ford F150 Lightning	68	49	3,090.4	\$ 0.0891	\$ 275.36
A2W0050	2012 Ford F150	Pickup	6542	13	503	Tumwater Compound	\$ 4.17	\$ 2,098	2023 Ford F150 Lightning	68	49	3,205.6	\$ 0.0993	\$ 318.25
A2W0052	2012 Ford F150	Pickup	4691	13	361	Tumwater Compound	\$ 4.17	\$ 1,505	2023 Ford F150 Lightning	68	49	2,298.6	\$ 0.0993	\$ 228.21
A2W0053	2012 Ford F150	Pickup	6712	13	516	Belfair	\$ 4.17	\$ 2,153	2023 Ford F150 Lightning	68	49	3,288.9	\$ 0.0891	\$ 293.04
A2W0054	2012 Ford F150	Pickup	11155	13	858	Forks - Oly HQ	\$ 4.17	\$ 3,578	2023 Ford F150 Lightning	68	49	5,466.0	\$ 0.0642	\$ 350.91
A2W0055	2012 Ford F150	Pickup	8809	13	678	Forks - Oly HQ	\$ 4.17	\$ 2,826	2023 Ford F150 Lightning	68	49	4,316.4	\$ 0.0642	\$ 277.11
A2W0056	2013 Ford F150	Pickup	5287	13	407	Tumwater Compound	\$ 4.17	\$ 1,696	2023 Ford F150 Lightning	68	49	2,590.6	\$ 0.0993	\$ 257.20
A2W0057	2013 Ford F150	Pickup	10409	13	801	Colville	\$ 4.17	\$ 3,339	2023 Ford F150 Lightning	68	49	5,100.4	\$ 0.1082	\$ 551.86
A2W0058	2013 Ford F150	Pickup	12829	13	987	Castle Rock	\$ 4.17	\$ 4,115	2023 Ford F150 Lightning	68	49	6,286.2	\$ 0.0871	\$ 547.53
A2W0059	2013 Ford F150	Pickup	5086	13	391	Tumwater Compound	\$ 4.17	\$ 1,631	2023 Ford F150 Lightning	68	49	2,492.1	\$ 0.0993	\$ 247.42
A2W0060	2013 Ford F150	Pickup	6621	13	509	Chehalis	\$ 4.17	\$ 2,124	2023 Ford F150 Lightning	68	49	3,244.3	\$ 0.0682	\$ 221.23
A2W0061	2013 Ford F150	Pickup	9847	13	757	Ellensburg	\$ 4.17	\$ 3,159	2023 Ford F150 Lightning	68	49	4,825.0	\$ 0.0772	\$ 372.49
A2W0062	2013 Ford F150	Pickup	4871	13	375	Ellensburg	\$ 4.17	\$ 1,562	2023 Ford F150 Lightning	68	49	2,386.8	\$ 0.0772	\$ 184.26
A2W0063	2013 Ford F150	Pickup	9719	13	748	Ellensburg	\$ 4.17	\$ 3,118	2023 Ford F150 Lightning	68	49	4,762.3	\$ 0.0772	\$ 367.65
A2W0064	2013 Ford F150	Pickup	14406	13	1,108	Tumwater Compound	\$ 4.17	\$ 4,621	2023 Ford F150 Lightning	68	49	7,058.9	\$ 0.0993	\$ 700.82
A2W0065	2013 Ford F150	Pickup	14360	13	1,105	Sedro Woolley	\$ 4.17	\$ 4,606	2023 Ford F150 Lightning	68	49	7,036.4	\$ 0.0993	\$ 698.58
A2W0066	2013 Ford F150	Pickup	3030	13	233	Forks - Oly HQ	\$ 4.17	\$ 972	2023 Ford F150 Lightning	68	49	1,484.7	\$ 0.0642	\$ 95.32
A2W0067	2013 Ford F150	Pickup	3077	13	237	Forks - Oly HQ	\$ 4.17	\$ 987	2023 Ford F150 Lightning	68	49	1,507.7	\$ 0.0642	\$ 96.80
A2W0068	2013 Ford F150	Pickup	8749	13	673	Enumclaw	\$ 4.17	\$ 2,806	2023 Ford F150 Lightning	68	49	4,287.0	\$ 0.1260	\$ 540.26
A2W0069	2013 Ford F150	Pickup	4042	13	311	Tumwater Compound	\$ 4.17	\$ 1,297	2023 Ford F150 Lightning	68	49	1,980.6	\$ 0.0993	\$ 196.63
A2W0070	2013 Ford F150	Pickup	2931	13	225	Littlerock	\$ 4.17	\$ 940	2023 Ford F150 Lightning	68	49	1,436.2	\$ 0.0993	\$ 142.59
A2W0071	2013 Ford F150	Pickup	11672	13	898	Tumwater Compound	\$ 4.17	\$ 3,744	2023 Ford F150 Lightning	68	49	5,719.3	\$ 0.0993	\$ 567.81
A2W0072	2013 Ford F150	Pickup	8766	13	674	Kalama	\$ 4.17	\$ 2,812	2023 Ford F150 Lightning	68	49	4,295.3	\$ 0.0871	\$ 374.12
A2W0073	2013 Ford F150	Pickup	11085	13	853	Naches	\$ 4.17	\$ 3,556	2023 Ford F150 Lightning	68	49	5,431.7	\$ 0.0839	\$ 455.72
A2W0074	2013 Ford F150	Pickup	10878	13	837	Ellensburg	\$ 4.17	\$ 3,489	2023 Ford F150 Lightning	68	49	5,330.2	\$ 0.0772	\$ 411.49
A2W0075	2013 Ford F150	Pickup	11223	13	863	Sedro Woolley	\$ 4.17	\$ 3,600	2023 Ford F150 Lightning	68	49	5,499.3	\$ 0.0993	\$ 545.97
A2W0076	2013 Ford F150	Pickup	2468	13	190	Castle Rock	\$ 4.17	\$ 792	2023 Ford F150 Lightning	68	49	1,209.3	\$ 0.0871	\$ 105.33
A2W0077	2013 Ford F150	Pickup	8883	13	683	Castle Rock	\$ 4.17	\$ 2,849	2023 Ford F150 Lightning	68	49	4,352.7	\$ 0.0871	\$ 379.12
A2W0078	2013 Ford F150	Pickup	5806	13	447	Ellensburg	\$ 4.17	\$ 1,862	2023 Ford F150 Lightning	68	49	2,844.9	\$ 0.0772	\$ 219.63
A2W0079	2013 Ford F150	Pickup	1195	13	92	Port Angeles	\$ 4.17	\$ 383	2023 Ford F150 Lightning	68	49	585.6	\$ 0.0642	\$ 37.59
A2W0080	2013 Ford F150	Pickup	12888	13	991	Ellensburg	\$ 4.17	\$ 4,134	2023 Ford F150 Lightning	68	49	6,315.1	\$ 0.0772	\$ 487.53
A2W0081	2013 Ford F150	Pickup	10214	13	786	Menlo	\$ 4.17	\$ 3,276	2023 Ford F150 Lightning	68	49	5,004.9	\$ 0.0687	\$ 343.83
A2W0082	2013 Ford F150	Pickup	11298	13	869	Sedro Woolley	\$ 4.17	\$ 3,624	2023 Ford F150 Lightning	68	49	5,536.0	\$ 0.0993	\$ 549.62
A2W0083	2013 Ford F150	Pickup	5178	13	398	Sedro Woolley	\$ 4.17	\$ 1,661	2023 Ford F150 Lightning	68	49	2,537.2	\$ 0.0993	\$ 251.90
A2W0084	2013 Ford F150	Pickup	8244	13	634	Sedro Woolley	\$ 4.17	\$ 2,644	2023 Ford F150 Lightning	68	49	4,039.6	\$ 0.0993	\$ 401.05
A2W0085	2013 Ford F150	Pickup	4301	13	331	Sedro Woolley	\$ 4.17	\$ 1,380	2023 Ford F150 Lightning	68	49	2,107.5	\$ 0.0993	\$ 209.23
A2W0086	2013 Ford F150	Pickup	10410	13	801	Sedro Woolley	\$ 4.17	\$ 3,339	2023 Ford F150 Lightning	68	49	5,100.9	\$ 0.0993	\$ 506.42
A2W0087	2013 Ford F150	Pickup	3158	13	243	Excluded	\$ 4.17	\$ 1,013	2023 Ford F150 Lightning	68	49	1,547.4	-	-
A2W0088	2013 Ford F150	Pickup	6494	13	500	Sedro Woolley	\$ 4.17	\$ 2,083	2023 Ford F150 Lightning	68	49	3,182.1	\$ 0.0993	\$ 315.92
A2W0089	2013 Ford F150	Pickup	16061	13	1,235	Deer Park	\$ 4.17	\$ 5,152	2023 Ford F150 Lightning	68	49	7,869.9	\$ 0.1239	\$ 974.69
A2W0090	2013 Ford F150	Pickup	6008	13	462	Tumwater Compound	\$ 4.17	\$ 1,927	2023 Ford F150 Lightning	68	49	2,943.9	\$ 0.0993	\$ 292.27
A2W0091	2013 Ford F150	Pickup	13507	13	1,039	Deer Park	\$ 4.17	\$ 4,333	2023 Ford F150 Lightning	68	49	6,618.4	\$ 0.1239	\$ 819.69
A2W0092	2013 Ford F150	Pickup	17698	13	1,361	Colville	\$ 4.17	\$ 5,677	2023 Ford F150 Lightning	68	49	8,672.0	\$ 0.1082	\$ 938.31
A2W0093	2013 Ford F150	Pickup	16856	13	1,297	Colville	\$ 4.17	\$ 5,407	2023 Ford F150 Lightning	68	49	8,259.4	\$ 0.1082	\$ 893.67
A2W0095	2013 Ford F150	Pickup	10855	13	835	Loomis Highlands	\$ 4.17	\$ 3,482	2023 Ford F150 Lightning	68	49	5,319.0	\$ 0.0641	\$ 340.94
A2W0096	2013 Ford F150	Pickup	14346	13	1,104	Loomis Log House	\$ 4.17	\$ 4,602	2023 Ford F150 Lightning	68	49	7,029.5	\$ 0.0641	\$ 450.59
A2W0097	2013 Ford F150	Pickup	4602	13	354	Colville	\$ 4.17	\$ 1,476	2023 Ford F150 Lightning	68	49	2,255.0	\$ 0.1082	\$ 243.99
A2W0098	2013 Ford F150	Pickup	6153	13	473	Colville	\$ 4.17	\$ 1,974	2023 Ford F150 Lightning	68	49	3,015.0	\$ 0.1082	\$ 326.22
A2W0099	2013 Ford F150	Pickup	8987	13	691	Colville	\$ 4.17	\$ 2,883	2023 Ford F150 Lightning	68	49	4,403.6	\$ 0.1082	\$ 476.47
A2W0100	2013 Ford F150	Pickup	11615	13	893	Deer Park	\$ 4.17	\$ 3,726	2023 Ford F150 Lightning	68	49	5,691.4	\$ 0.1239	\$ 704.87
A2W0101	2013 Ford F150	Pickup	7511	13	578	Excluded	\$ 4.17	\$ 2,409	2023 Ford F150 Lightning	68	49	3,680.4	-	-

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0102	2013 Ford F150	Pickup	20291	13	1,561	Loomis Log House	\$ 4.17	\$ 6,509	2023 Ford F150 Lightning	68	49	9,942.6	\$ 0.0641	\$ 637.32
A2W0103	2013 Ford F150	Pickup	6161	13	474	Deer Park	\$ 4.17	\$ 1,976	2023 Ford F150 Lightning	68	49	3,018.9	\$ 0.1239	\$ 373.89
A2W0104	2013 Ford F150	Pickup	5513	13	424	Tumwater - Greenhouse	\$ 4.17	\$ 1,768	2023 Ford F150 Lightning	68	49	2,701.4	\$ 0.0993	\$ 268.19
A2W0105	2013 Ford F150	Pickup	7840	13	603	Colville	\$ 4.17	\$ 2,515	2023 Ford F150 Lightning	68	49	3,841.6	\$ 0.1082	\$ 415.66
A2W0106	2013 Ford F150	Pickup	5041	13	388	Sedro Woolley	\$ 4.17	\$ 1,617	2023 Ford F150 Lightning	68	49	2,470.1	\$ 0.0993	\$ 245.23
A2W0107	2013 Ford F150	Pickup	8237	13	634	Deer Park	\$ 4.17	\$ 2,642	2023 Ford F150 Lightning	68	49	4,036.1	\$ 0.1239	\$ 499.87
A2W0108	2013 Ford F150	Pickup	10242	13	788	Loomis Log House	\$ 4.17	\$ 3,285	2023 Ford F150 Lightning	68	49	5,018.6	\$ 0.0641	\$ 321.69
A2W0109	2013 Ford F150	Pickup	3603	13	277	Battle Ground	\$ 4.17	\$ 1,156	2023 Ford F150 Lightning	68	49	1,765.5	\$ 0.0833	\$ 147.06
A2W0110	2013 Ford F150	Pickup	11043	13	849	Granite Falls	\$ 4.17	\$ 3,542	2023 Ford F150 Lightning	68	49	5,411.1	\$ 0.0900	\$ 487.00
A2W0111	2013 Ford F150	Pickup	15900	13	1,223	Chehalis	\$ 4.17	\$ 5,100	2023 Ford F150 Lightning	68	49	7,791.0	\$ 0.0682	\$ 531.27
A2W0112	2013 Ford F150	Pickup	6483	13	499	Battle Ground	\$ 4.17	\$ 2,080	2023 Ford F150 Lightning	68	49	3,176.7	\$ 0.0833	\$ 264.62
A2W0113	2013 Ford F150	Pickup	12109	13	931	Forks - Oly HQ	\$ 4.17	\$ 3,884	2023 Ford F150 Lightning	68	49	5,933.4	\$ 0.0642	\$ 380.92
A2W0114	2013 Ford F150	Pickup	5279	13	406	Forks - Oly HQ	\$ 4.17	\$ 1,693	2023 Ford F150 Lightning	68	49	2,586.7	\$ 0.0642	\$ 166.07
A2W0115	2013 Ford F150	Pickup	14896	13	1,146	Sedro Woolley	\$ 4.17	\$ 4,778	2023 Ford F150 Lightning	68	49	7,299.0	\$ 0.0993	\$ 724.65
A2W0116	2013 Ford F150	Pickup	9862	13	759	Sedro Woolley	\$ 4.17	\$ 3,163	2023 Ford F150 Lightning	68	49	4,832.4	\$ 0.0993	\$ 479.76
A2W0117	2013 Ford F150	Pickup	1456	13	112	Sedro Woolley	\$ 4.17	\$ 467	2023 Ford F150 Lightning	68	49	713.4	\$ 0.0993	\$ 70.83
A2W0118	2013 Ford F150	Pickup	1517	13	117	Excluded	\$ 4.17	\$ 487	2023 Ford F150 Lightning	68	49	743.3	-	\$ -
A2W0119	2013 Ford F150	Pickup	3628	13	279	Chehalis	\$ 4.17	\$ 1,164	2023 Ford F150 Lightning	68	49	1,777.7	\$ 0.0682	\$ 121.22
A2W0120	2013 Ford F150	Pickup	14428	13	1,110	Castle Rock	\$ 4.17	\$ 4,628	2023 Ford F150 Lightning	68	49	7,069.7	\$ 0.0871	\$ 615.77
A2W0121	2013 Ford F150	Pickup	7204	13	554	Goldendale	\$ 4.17	\$ 2,311	2023 Ford F150 Lightning	68	49	3,530.0	\$ 0.0710	\$ 250.63
A2W0122	2013 Ford F150	Pickup	6768	13	521	Ellensburg	\$ 4.17	\$ 2,171	2023 Ford F150 Lightning	68	49	3,316.3	\$ 0.0772	\$ 256.02
A2W0123	2013 Ford F150	Pickup	19920	13	1,532	Loomis Log House	\$ 4.17	\$ 6,390	2023 Ford F150 Lightning	68	49	9,760.8	\$ 0.0641	\$ 625.67
A2W0124	2013 Ford F150	Pickup	5479	13	421	Colville	\$ 4.17	\$ 1,757	2023 Ford F150 Lightning	68	49	2,684.7	\$ 0.1082	\$ 290.49
A2W0125	2013 Ford F150	Pickup	9305	13	716	Colville	\$ 4.17	\$ 2,985	2023 Ford F150 Lightning	68	49	4,559.5	\$ 0.1082	\$ 493.33
A2W0126	2013 Ford F150	Pickup	8058	13	620	Deer Park	\$ 4.17	\$ 2,585	2023 Ford F150 Lightning	68	49	3,948.4	\$ 0.1239	\$ 489.01
A2W0127	2013 Ford F150	Pickup	14729	13	1,133	Loomis Highlands	\$ 4.17	\$ 4,725	2023 Ford F150 Lightning	68	49	7,217.2	\$ 0.0641	\$ 462.62
A2W0128	2013 Ford F150	Pickup	15769	13	1,213	Loomis Highlands	\$ 4.17	\$ 5,058	2023 Ford F150 Lightning	68	49	7,726.8	\$ 0.0641	\$ 495.29
A2W0129	2013 Ford F150	Pickup	15677	13	1,206	Tumwater Compound	\$ 4.17	\$ 5,029	2023 Ford F150 Lightning	68	49	7,681.7	\$ 0.0993	\$ 762.65
A2W0130	2013 Ford F150	Pickup	8397	13	646	Castle Rock	\$ 4.17	\$ 2,693	2023 Ford F150 Lightning	68	49	4,114.5	\$ 0.0871	\$ 358.38
A2W0131	2013 Ford F150	Pickup	5244	13	403	Dallesport	\$ 4.17	\$ 1,682	2023 Ford F150 Lightning	68	49	2,569.6	\$ 0.0710	\$ 182.44
A2W0132	2013 Ford F150	Pickup	11337	13	872	Ellensburg	\$ 4.17	\$ 3,637	2023 Ford F150 Lightning	68	49	5,555.1	\$ 0.0772	\$ 428.86
A2W0133	2013 Ford F150	Pickup	18095	13	1,392	Castle Rock	\$ 4.17	\$ 5,804	2023 Ford F150 Lightning	68	49	8,866.6	\$ 0.0871	\$ 772.28
A2W0134	2013 Ford F150	Pickup	1169	13	90	Castle Rock	\$ 4.17	\$ 375	2023 Ford F150 Lightning	68	49	572.8	\$ 0.0871	\$ 49.89
A2W0135	2013 Ford F150	Pickup	14007	13	1,077	Colville	\$ 4.17	\$ 4,493	2023 Ford F150 Lightning	68	49	6,863.4	\$ 0.1082	\$ 742.62
A2W0136	2013 Ford F150	Pickup	19724	13	1,517	Chehalis	\$ 4.17	\$ 6,327	2023 Ford F150 Lightning	68	49	9,664.8	\$ 0.0682	\$ 659.04
A2W0137	2013 Ford F150	Pickup	5889	13	453	North Bend	\$ 4.17	\$ 1,889	2023 Ford F150 Lightning	68	49	2,885.6	\$ 0.1260	\$ 363.65
A2W0138	2013 Ford F150	Pickup	6328	13	487	North Bend	\$ 4.17	\$ 2,030	2023 Ford F150 Lightning	68	49	3,100.7	\$ 0.1260	\$ 390.76
A2W0139	2013 Ford F150	Pickup	5147	13	396	Tumwater - DNR Hangar	\$ 4.17	\$ 1,651	2023 Ford F150 Lightning	68	49	2,522.0	\$ 0.0993	\$ 250.39
A2W0140	2013 Ford F150	Pickup	18286	13	1,407	Colville	\$ 4.17	\$ 5,866	2023 Ford F150 Lightning	68	49	8,960.1	\$ 0.1082	\$ 969.49
A2W0141	2013 Ford F150	Pickup	331	13	25	Castle Rock	\$ 4.17	\$ 106	2023 Ford F150 Lightning	68	49	162.2	\$ 0.0871	\$ 14.13
A2W0142	2013 Ford F150	Pickup	9507	13	731	Belfair	\$ 4.17	\$ 3,050	2023 Ford F150 Lightning	68	49	4,658.4	\$ 0.0891	\$ 415.07
A2W0143	2013 Ford F150	Pickup	17333	13	1,333	Belfair	\$ 4.17	\$ 5,560	2023 Ford F150 Lightning	68	49	8,493.2	\$ 0.0891	\$ 756.74
A2W0144	2013 Ford F150	Pickup	8398	13	646	Enumclaw	\$ 4.17	\$ 2,694	2023 Ford F150 Lightning	68	49	4,115.0	\$ 0.1260	\$ 518.58
A2W0145	2013 Ford F150	Pickup	16959	13	1,305	Sedro Woolley	\$ 4.17	\$ 5,440	2023 Ford F150 Lightning	68	49	8,309.9	\$ 0.0993	\$ 825.01
A2W0146	2013 Ford F150	Pickup	11165	13	859	Tumwater - DNR Hangar	\$ 4.17	\$ 3,581	2023 Ford F150 Lightning	68	49	5,470.9	\$ 0.0993	\$ 543.15
A2W0147	2013 Ford F150	Pickup	9535	13	733	Forks - Oly HQ	\$ 4.17	\$ 3,059	2023 Ford F150 Lightning	68	49	4,672.2	\$ 0.0642	\$ 299.95
A2W0148	2013 Ford F150	Pickup	4730	13	364	Forks - Oly HQ	\$ 4.17	\$ 1,517	2023 Ford F150 Lightning	68	49	2,317.7	\$ 0.0642	\$ 148.80
A2W0149	2013 Ford F150	Pickup	7755	13	597	Forks - Oly HQ	\$ 4.17	\$ 2,488	2023 Ford F150 Lightning	68	49	3,800.0	\$ 0.0642	\$ 243.96
A2W0150	2013 Ford F150	Pickup	11950	13	919	Forks - Oly HQ	\$ 4.17	\$ 3,833	2023 Ford F150 Lightning	68	49	5,855.5	\$ 0.0642	\$ 375.92
A2W0151	2013 Ford F150	Pickup	2822	13	217	Forks - Oly HQ	\$ 4.17	\$ 905	2023 Ford F150 Lightning	68	49	1,382.8	\$ 0.0642	\$ 88.77
A2W0152	2013 Ford F150	Pickup	1686	13	130	Forks - Oly HQ	\$ 4.17	\$ 541	2023 Ford F150 Lightning	68	49	826.1	\$ 0.0642	\$ 53.04

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0153	2014 Ford F150	Pickup	9300	13	715	Forks - Oly HQ	\$ 4.17	\$ 2,983	2023 Ford F150 Lightning	68	49	4,557.0	\$ 0.0642	\$ 292.56
A2W0154	2014 Ford F150	Pickup	4447	13	342	Sedro Woolley	\$ 4.17	\$ 1,426	2023 Ford F150 Lightning	68	49	2,179.0	\$ 0.0993	\$ 216.34
A2W0155	2014 Ford F150	Pickup	11537	13	887	Sedro Woolley	\$ 4.17	\$ 3,701	2023 Ford F150 Lightning	68	49	5,653.1	\$ 0.0993	\$ 561.25
A2W0156	2014 Ford F150	Pickup	7160	13	551	Granite Falls	\$ 4.17	\$ 2,297	2023 Ford F150 Lightning	68	49	3,508.4	\$ 0.0900	\$ 315.76
A2W0157	2014 Ford F150	Pickup	10669	13	821	Castle Rock	\$ 4.17	\$ 3,422	2023 Ford F150 Lightning	68	49	5,227.8	\$ 0.0871	\$ 455.34
A2W0158	2014 Ford F150	Pickup	8970	13	690	Sedro Woolley	\$ 4.17	\$ 2,877	2023 Ford F150 Lightning	68	49	4,395.3	\$ 0.0993	\$ 436.37
A2W0159	2014 Ford F150	Pickup	5702	13	439	Granite Falls	\$ 4.17	\$ 1,829	2023 Ford F150 Lightning	68	49	2,794.0	\$ 0.0900	\$ 251.46
A2W0160	2014 Ford F150	Pickup	7621	13	586	Tumwater Compound	\$ 4.17	\$ 2,445	2023 Ford F150 Lightning	68	49	3,734.3	\$ 0.0993	\$ 370.74
A2W0161	2014 Ford F150	Pickup	15854	13	1,220	Chehalis	\$ 4.17	\$ 5,085	2023 Ford F150 Lightning	68	49	7,768.5	\$ 0.0682	\$ 529.73
A2W0162	2014 Ford F150	Pickup	13285	13	1,022	Battle Ground	\$ 4.17	\$ 4,261	2023 Ford F150 Lightning	68	49	6,509.7	\$ 0.0833	\$ 542.25
A2W0163	2014 Ford F150	Pickup	4599	13	354	Castle Rock	\$ 4.17	\$ 1,475	2023 Ford F150 Lightning	68	49	2,253.5	\$ 0.0871	\$ 196.28
A2W0164	2014 Ford F150	Pickup	8301	13	639	Tumwater Compound	\$ 4.17	\$ 2,663	2023 Ford F150 Lightning	68	49	4,067.5	\$ 0.0993	\$ 403.82
A2W0165	2014 Ford F150	Pickup	14212	13	1,093	Battle Ground	\$ 4.17	\$ 4,559	2023 Ford F150 Lightning	68	49	6,963.9	\$ 0.0833	\$ 580.09
A2W0167	2014 Ford F150	Pickup	9886	13	760	Sedro Woolley	\$ 4.17	\$ 3,171	2023 Ford F150 Lightning	68	49	4,844.1	\$ 0.0993	\$ 480.93
A2W0168	2014 Ford F150	Pickup	7731	13	595	Forks - Oly HQ	\$ 4.17	\$ 2,480	2023 Ford F150 Lightning	68	49	3,788.2	\$ 0.0642	\$ 243.20
A2W0169	2014 Ford F150	Pickup	4216	13	324	Castle Rock	\$ 4.17	\$ 1,352	2023 Ford F150 Lightning	68	49	2,065.8	\$ 0.0871	\$ 179.93
A2W0170	2014 Ford F150	Pickup	9783	13	753	Forks - Oly HQ	\$ 4.17	\$ 3,138	2023 Ford F150 Lightning	68	49	4,793.7	\$ 0.0642	\$ 307.75
A2W0171	2014 Ford F150	Pickup	6478	13	498	Chehalis	\$ 4.17	\$ 2,078	2023 Ford F150 Lightning	68	49	3,174.2	\$ 0.0682	\$ 216.45
A2W0172	2014 Ford F150	Pickup	583	13	45	Castle Rock	\$ 4.17	\$ 187	2023 Ford F150 Lightning	68	49	285.7	\$ 0.0871	\$ 24.88
A2W0173	2014 Ford F150	Pickup	11321	13	871	Chehalis	\$ 4.17	\$ 3,631	2023 Ford F150 Lightning	68	49	5,547.3	\$ 0.0682	\$ 378.27
A2W0174	2014 Ford F150	Pickup	12492	13	961	Chehalis	\$ 4.17	\$ 4,007	2023 Ford F150 Lightning	68	49	6,121.1	\$ 0.0682	\$ 417.40
A2W0175	2014 Ford F150	Pickup	7336	13	564	Castle Rock	\$ 4.17	\$ 2,353	2023 Ford F150 Lightning	68	49	3,594.6	\$ 0.0871	\$ 313.09
A2W0176	2014 Ford F150	Pickup	7163	13	551	Deer Park	\$ 4.17	\$ 2,298	2023 Ford F150 Lightning	68	49	3,509.9	\$ 0.1239	\$ 434.70
A2W0177	2014 Ford F150	Pickup	11112	13	855	Tumwater Compound	\$ 4.17	\$ 3,564	2023 Ford F150 Lightning	68	49	5,444.9	\$ 0.0993	\$ 540.57
A2W0178	2014 Ford F150	Pickup	5525	13	425	North Bend	\$ 4.17	\$ 1,772	2023 Ford F150 Lightning	68	49	2,707.3	\$ 0.1260	\$ 341.17
A2W0179	2014 Ford F150	Pickup	9106	13	700	Forks - Oly HQ	\$ 4.17	\$ 2,921	2023 Ford F150 Lightning	68	49	4,461.9	\$ 0.0642	\$ 286.46
A2W0180	2014 Ford F150	Pickup	14351	13	1,104	Sedro Woolley	\$ 4.17	\$ 4,603	2023 Ford F150 Lightning	68	49	7,032.0	\$ 0.0993	\$ 698.14
A2W0181	2014 Ford F150	Pickup	16771	13	1,290	Sedro Woolley	\$ 4.17	\$ 5,380	2023 Ford F150 Lightning	68	49	8,217.8	\$ 0.0993	\$ 815.87
A2W0182	2014 Ford F150	Pickup	6258	13	481	Forks - Oly HQ	\$ 4.17	\$ 2,007	2023 Ford F150 Lightning	68	49	3,066.4	\$ 0.0642	\$ 196.86
A2W0183	2014 Ford F150	Pickup	6803	13	523	Sedro Woolley	\$ 4.17	\$ 2,182	2023 Ford F150 Lightning	68	49	3,333.5	\$ 0.0993	\$ 330.95
A2W0184	2014 Ford F150	Pickup	6855	13	527	Sedro Woolley	\$ 4.17	\$ 2,199	2023 Ford F150 Lightning	68	49	3,359.0	\$ 0.0993	\$ 333.48
A2W0185	2014 Ford F150	Pickup	12761	13	982	Tumwater Compound	\$ 4.17	\$ 4,093	2023 Ford F150 Lightning	68	49	6,252.9	\$ 0.0993	\$ 620.79
A2W0186	2014 Ford F150	Pickup	6496	13	500	Tumwater Compound	\$ 4.17	\$ 2,084	2023 Ford F150 Lightning	68	49	3,183.0	\$ 0.0993	\$ 316.01
A2W0187	2014 Ford F150	Pickup	17708	13	1,362	Excluded	\$ 4.17	\$ 5,680	2023 Ford F150 Lightning	68	49	8,676.9	-	-
A2W0188	2014 Ford F150	Pickup	14168	13	1,090	Excluded	\$ 4.17	\$ 4,545	2023 Ford F150 Lightning	68	49	6,942.3	-	-
A2W0189	2014 Ford F150	Pickup	2114	13	163	Excluded	\$ 4.17	\$ 678	2023 Ford F150 Lightning	68	49	1,035.9	-	-
A2W0190	2014 Ford F150	Pickup	2632	13	202	Chimacum	\$ 4.17	\$ 844	2023 Ford F150 Lightning	68	49	1,289.7	\$ 0.1082	\$ 139.54
A2W0192	2014 Ford F150	Pickup	16277	13	1,252	Naselle	\$ 4.17	\$ 5,221	2023 Ford F150 Lightning	68	49	7,975.7	\$ 0.0687	\$ 547.93
A2W0193	2014 Ford F150	Pickup	4213	13	324	Sedro Woolley	\$ 4.17	\$ 1,351	2023 Ford F150 Lightning	68	49	2,064.4	\$ 0.0993	\$ 204.95
A2W0194	2014 Ford F150	Pickup	4929	13	379	Excluded	\$ 4.17	\$ 1,581	2023 Ford F150 Lightning	68	49	2,415.2	-	-
A2W0195	2014 Ford F150	Pickup	22475	13	1,729	Deer Park	\$ 4.17	\$ 7,209	2023 Ford F150 Lightning	68	49	11,012.8	\$ 0.1239	\$ 1,363.93
A2W0196	2014 Ford F150	Pickup	10682	13	822	Ahtanum	\$ 4.17	\$ 3,426	2023 Ford F150 Lightning	68	49	5,234.2	\$ 0.0839	\$ 439.15
A2W0198	2014 Ford F150	Pickup	15780	13	1,214	Ellensburg	\$ 4.17	\$ 5,062	2023 Ford F150 Lightning	68	49	7,732.2	\$ 0.0772	\$ 596.93
A2W0199	2014 Ford F150	Pickup	9702	13	746	Colville	\$ 4.17	\$ 3,112	2023 Ford F150 Lightning	68	49	4,754.0	\$ 0.1082	\$ 514.38
A2W0200	2014 Ford F150	Pickup	7349	13	565	Tumwater Compound	\$ 4.17	\$ 2,357	2023 Ford F150 Lightning	68	49	3,601.0	\$ 0.0993	\$ 357.51
A2W0201	2014 Ford F150	Pickup	8351	13	642	Forks - Oly Camp	\$ 4.17	\$ 2,679	2023 Ford F150 Lightning	68	49	4,092.0	\$ 0.0640	\$ 261.89
A2W0202	2014 Ford F150	Pickup	7953	13	612	Forks - Oly HQ	\$ 4.17	\$ 2,551	2023 Ford F150 Lightning	68	49	3,897.0	\$ 0.0642	\$ 250.19
A2W0203	2014 Ford F150	Pickup	4333	13	333	Kalama	\$ 4.17	\$ 1,390	2023 Ford F150 Lightning	68	49	2,123.2	\$ 0.0871	\$ 184.93
A2W0204	2014 Ford F150	Pickup	12127	13	933	Ellensburg	\$ 4.17	\$ 3,890	2023 Ford F150 Lightning	68	49	5,942.2	\$ 0.0772	\$ 458.74
A2W0205	2014 Ford F150	Pickup	7662	13	589	Port Angeles	\$ 4.17	\$ 2,458	2023 Ford F150 Lightning	68	49	3,754.4	\$ 0.0642	\$ 241.03
A2W0206	2014 Ford F150	Pickup	9426	13	725	Castle Rock	\$ 4.17	\$ 3,024	2023 Ford F150 Lightning	68	49	4,618.7	\$ 0.0871	\$ 402.29

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A2W0207	2014 Ford F150	Pickup	26104	13	2,008	Chehalis	\$ 4.17	\$ 8,373	2023 Ford F150 Lightning	68	49	12,791.0	\$ 0.0682	\$ 872.22
A2W0208	2014 Ford F150	Pickup	4511	13	347	Castle Rock	\$ 4.17	\$ 1,447	2023 Ford F150 Lightning	68	49	2,210.4	\$ 0.0871	\$ 192.52
A2W0209	2014 Ford F150	Pickup	17040	13	1,311	Castle Rock	\$ 4.17	\$ 5,466	2023 Ford F150 Lightning	68	49	8,349.6	\$ 0.0871	\$ 727.25
A2W0210	2014 Ford F150	Pickup	4053	13	312	Castle Rock	\$ 4.17	\$ 1,300	2023 Ford F150 Lightning	68	49	1,986.0	\$ 0.0871	\$ 172.98
A2W0211	2014 Ford F150	Pickup	1123	13	86	Castle Rock	\$ 4.17	\$ 360	2023 Ford F150 Lightning	68	49	550.3	\$ 0.0871	\$ 47.93
A2W0212	2014 Ford F150	Pickup	17372	13	1,336	Lacey	\$ 4.17	\$ 5,572	2023 Ford F150 Lightning	68	49	8,512.3	\$ 0.0993	\$ 845.10
A2W0213	2014 Ford F150	Pickup	10054	13	773	Tumwater Compound	\$ 4.17	\$ 3,225	2023 Ford F150 Lightning	68	49	4,926.5	\$ 0.0993	\$ 489.10
A2W0214	2014 Ford F150	Pickup	7426	13	571	Ellensburg	\$ 4.17	\$ 2,382	2023 Ford F150 Lightning	68	49	3,638.7	\$ 0.0772	\$ 280.91
A2W0215	2014 Ford F150	Pickup	9219	13	709	Ellensburg	\$ 4.17	\$ 2,957	2023 Ford F150 Lightning	68	49	4,517.3	\$ 0.0772	\$ 348.74
A2W0217	2015 Chevrolet Silverado	Pickup	5375	18	299	Forks - Oly HQ	\$ 4.17	\$ 1,245	2023 Ford F150 Lightning	68	49	2,633.8	\$ 0.0642	\$ 169.09
A2W0218	2015 Chevrolet Silverado	Pickup	13533	18	752	Battle Ground	\$ 4.17	\$ 3,135	2023 Ford F150 Lightning	68	49	6,631.2	\$ 0.0833	\$ 552.38
A2W0219	2015 Chevrolet Silverado	Pickup	13633	18	757	Sedro Woolley	\$ 4.17	\$ 3,158	2023 Ford F150 Lightning	68	49	6,680.2	\$ 0.0993	\$ 663.21
A2W0220	2015 Chevrolet Silverado	Pickup	3373	18	187	Colville	\$ 4.17	\$ 781	2023 Ford F150 Lightning	68	49	1,652.8	\$ 0.1082	\$ 178.83
A2W0221	2015 Chevrolet Silverado	Pickup	13144	18	730	Dallesport	\$ 4.17	\$ 3,045	2023 Ford F150 Lightning	68	49	6,440.6	\$ 0.0710	\$ 457.28
A2W0222	2015 Chevrolet Silverado	Pickup	91	18	5	Sedro Woolley	\$ 4.17	\$ 21	2023 Ford F150 Lightning	68	49	44.6	\$ 0.0993	\$ 4.43
A2W0223	2015 Chevrolet Silverado	Pickup	21088	18	1,172	Sedro Woolley	\$ 4.17	\$ 4,885	2023 Ford F150 Lightning	68	49	10,333.1	\$ 0.0993	\$ 1,025.88
A2W0224	2015 Chevrolet Silverado	Pickup	13053	18	725	Enumclaw	\$ 4.17	\$ 3,024	2023 Ford F150 Lightning	68	49	6,396.0	\$ 0.1260	\$ 806.03
A2W0225	2015 Chevrolet Silverado	Pickup	6305	18	350	Sedro Woolley	\$ 4.17	\$ 1,461	2023 Ford F150 Lightning	68	49	3,089.5	\$ 0.0993	\$ 306.72
A2W0226	2015 Chevrolet Silverado	Pickup	10470	18	582	Tumwater Compound	\$ 4.17	\$ 2,426	2023 Ford F150 Lightning	68	49	5,130.3	\$ 0.0993	\$ 509.34
A2W0227	2015 Chevrolet Silverado	Pickup	8169	18	454	Enumclaw	\$ 4.17	\$ 1,892	2023 Ford F150 Lightning	68	49	4,002.8	\$ 0.1260	\$ 504.44
A2W0228	2015 Chevrolet Silverado	Pickup	11757	18	653	Castle Rock	\$ 4.17	\$ 2,724	2023 Ford F150 Lightning	68	49	5,760.9	\$ 0.0871	\$ 501.78
A2W0229	2015 Chevrolet Silverado	Pickup	10337	18	574	Enumclaw	\$ 4.17	\$ 2,395	2023 Ford F150 Lightning	68	49	5,065.1	\$ 0.1260	\$ 638.32
A2W0230	2015 Chevrolet Silverado	Pickup	12955	18	720	Belfair	\$ 4.17	\$ 3,001	2023 Ford F150 Lightning	68	49	6,348.0	\$ 0.0891	\$ 565.60
A2W0231	2015 Chevrolet Silverado	Pickup	21895	18	1,216	Chehalis	\$ 4.17	\$ 5,072	2023 Ford F150 Lightning	68	49	10,728.6	\$ 0.0682	\$ 731.58
A2W0232	2015 Chevrolet Silverado	Pickup	5216	18	290	Sedro Woolley	\$ 4.17	\$ 1,208	2023 Ford F150 Lightning	68	49	2,555.8	\$ 0.0993	\$ 253.75
A2W0233	2015 Chevrolet Silverado	Pickup	3601	18	200	Excluded	\$ 4.17	\$ 834	2023 Ford F150 Lightning	68	49	1,764.5	\$ -	\$ -
A2W0234	2016 Chevrolet Silverado	Pickup	8076	17	475	Tumwater - Webster	\$ 4.17	\$ 1,981	2023 Ford F150 Lightning	68	49	3,957.2	\$ 0.0993	\$ 392.88
A2W0235	2016 Chevrolet Silverado	Pickup	12169	17	716	Dallesport	\$ 4.17	\$ 2,985	2023 Ford F150 Lightning	68	49	5,962.8	\$ 0.0710	\$ 423.36
A2W0236	2016 Chevrolet Silverado	Pickup	16322	17	960	Sedro Woolley	\$ 4.17	\$ 4,004	2023 Ford F150 Lightning	68	49	7,997.8	\$ 0.0993	\$ 794.02
A2W0237	2016 Chevrolet Silverado	Pickup	12455	17	733	North Bend	\$ 4.17	\$ 3,055	2023 Ford F150 Lightning	68	49	6,103.0	\$ 0.1260	\$ 769.11
A2W0238	2016 Chevrolet Silverado	Pickup	4551	17	268	Sedro Woolley	\$ 4.17	\$ 1,116	2023 Ford F150 Lightning	68	49	2,230.0	\$ 0.0993	\$ 221.39
A2W0239	2016 Chevrolet Silverado	Pickup	12993	17	764	Tumwater Compound	\$ 4.17	\$ 3,187	2023 Ford F150 Lightning	68	49	6,366.6	\$ 0.0993	\$ 632.08
A2W0240	2016 Chevrolet Silverado	Pickup	18301	17	1,077	Battle Ground	\$ 4.17	\$ 4,489	2023 Ford F150 Lightning	68	49	8,967.5	\$ 0.0833	\$ 746.99
A2W0241	2016 Chevrolet Silverado	Pickup	9256	17	544	Castle Rock	\$ 4.17	\$ 2,270	2023 Ford F150 Lightning	68	49	4,535.4	\$ 0.0871	\$ 395.04
A2W0242	2016 Chevrolet Silverado	Pickup	9871	17	581	Excluded	\$ 4.17	\$ 2,421	2023 Ford F150 Lightning	68	49	4,836.8	\$ -	\$ -
A2W0243	2016 Chevrolet Silverado	Pickup	3362	17	198	Excluded	\$ 4.17	\$ 825	2023 Ford F150 Lightning	68	49	1,647.4	\$ -	\$ -
A2W0244	2016 Chevrolet Silverado	Pickup	4433	17	261	Excluded	\$ 4.17	\$ 1,087	2023 Ford F150 Lightning	68	49	2,172.2	\$ -	\$ -
A2W0245	2016 Chevrolet Silverado	Pickup	12277	17	722	Dallesport	\$ 4.17	\$ 3,011	2023 Ford F150 Lightning	68	49	6,015.7	\$ 0.0710	\$ 427.12
A2W0246	2016 Chevrolet Silverado	Pickup	8529	17	502	Colville	\$ 4.17	\$ 2,092	2023 Ford F150 Lightning	68	49	4,179.2	\$ 0.1082	\$ 452.19
A2W0247	2016 Chevrolet Silverado	Pickup	10573	17	622	Enumclaw	\$ 4.17	\$ 2,593	2023 Ford F150 Lightning	68	49	5,180.8	\$ 0.1260	\$ 652.89
A2W0248	2016 Chevrolet Silverado	Pickup	1580	17	93	Excluded	\$ 4.17	\$ 388	2023 Ford F150 Lightning	68	49	774.2	\$ -	\$ -
A2W0249	2016 Chevrolet Silverado	Pickup	20448	17	1,203	Castle Rock	\$ 4.17	\$ 5,016	2023 Ford F150 Lightning	68	49	10,019.5	\$ 0.0871	\$ 872.70
A2W0250	2016 Chevrolet Silverado	Pickup	6547	17	385	Sedro Woolley	\$ 4.17	\$ 1,606	2023 Ford F150 Lightning	68	49	3,208.0	\$ 0.0993	\$ 318.49
A2W0251	2016 Chevrolet Silverado	Pickup	10631	17	625	Forks - Oly HQ	\$ 4.17	\$ 2,608	2023 Ford F150 Lightning	68	49	5,209.2	\$ 0.0642	\$ 334.43
A2W0252	2016 Chevrolet Silverado	Pickup	10085	17	593	Excluded	\$ 4.17	\$ 2,474	2023 Ford F150 Lightning	68	49	4,941.7	\$ -	\$ -
A2W0253	2016 Chevrolet Silverado	Pickup	12985	17	764	Deer Park	\$ 4.17	\$ 3,185	2023 Ford F150 Lightning	68	49	6,362.7	\$ 0.1239	\$ 788.01
A2W0254	2016 Chevrolet Silverado	Pickup	9324	17	548	Tumwater Compound	\$ 4.17	\$ 2,287	2023 Ford F150 Lightning	68	49	4,568.8	\$ 0.0993	\$ 453.59
A2W0255	2016 Chevrolet Silverado	Pickup	18835	17	1,108	Excluded	\$ 4.17	\$ 4,620	2023 Ford F150 Lightning	68	49	9,229.2	\$ -	\$ -
A2W0256	2016 Chevrolet Silverado	Pickup	4064	17	239	Tumwater - DNR Hangar	\$ 4.17	\$ 997	2023 Ford F150 Lightning	68	49	1,991.4	\$ 0.0993	\$ 197.70
A2W0257	2016 Chevrolet Silverado	Pickup	10893	17	641	Battle Ground	\$ 4.17	\$ 2,672	2023 Ford F150 Lightning	68	49	5,337.6	\$ 0.0833	\$ 444.62
A2W0258	2016 Chevrolet Silverado	Pickup	12714	17	748	Enumclaw	\$ 4.17	\$ 3,119	2023 Ford F150 Lightning	68	49	6,229.9	\$ 0.1260	\$ 785.10

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0259	2016 Chevrolet Silverado	Pickup	8108	17	477	Belfair	\$ 4.17	\$ 1,989	2023 Ford F150 Lightning	68	49	3,972.9	\$ 0.0891	\$ 353.99
A2W0260	2016 Chevrolet Silverado	Pickup	8273	17	487	Castle Rock	\$ 4.17	\$ 2,029	2023 Ford F150 Lightning	68	49	4,053.8	\$ 0.0871	\$ 353.08
A2W0261	2016 Chevrolet Silverado	Pickup	8476	17	499	Ellensburg	\$ 4.17	\$ 2,079	2023 Ford F150 Lightning	68	49	4,153.2	\$ 0.0772	\$ 320.63
A2W0262	2016 Chevrolet Silverado	Pickup	7870	17	463	Ellensburg	\$ 4.17	\$ 1,930	2023 Ford F150 Lightning	68	49	3,856.3	\$ 0.0772	\$ 297.71
A2W0263	2016 Chevrolet Silverado	Pickup	8645	17	509	Ellensburg	\$ 4.17	\$ 2,121	2023 Ford F150 Lightning	68	49	4,236.1	\$ 0.0772	\$ 327.02
A2W0264	2016 Chevrolet Silverado	Pickup	4097	17	241	Sedro Woolley	\$ 4.17	\$ 1,005	2023 Ford F150 Lightning	68	49	2,007.5	\$ 0.0993	\$ 199.31
A2W0265	2016 Chevrolet Silverado	Pickup	7775	17	457	Forks - Oly HQ	\$ 4.17	\$ 1,907	2023 Ford F150 Lightning	68	49	3,809.8	\$ 0.0642	\$ 244.59
A2W0266	2016 Chevrolet Silverado	Pickup	2199	17	129	Ellensburg	\$ 4.17	\$ 539	2023 Ford F150 Lightning	68	49	1,077.5	\$ 0.0772	\$ 83.18
A2W0267	2016 Chevrolet Silverado	Pickup	20812	17	1,224	Ellensburg	\$ 4.17	\$ 5,105	2023 Ford F150 Lightning	68	49	10,197.9	\$ 0.0772	\$ 787.28
A2W0268	2016 Chevrolet Silverado	Pickup	6388	17	376	Sedro Woolley	\$ 4.17	\$ 1,567	2023 Ford F150 Lightning	68	49	3,130.1	\$ 0.0993	\$ 310.76
A2W0269	2016 Chevrolet Silverado	Pickup	9954	17	586	Ellensburg	\$ 4.17	\$ 2,442	2023 Ford F150 Lightning	68	49	4,877.5	\$ 0.0772	\$ 376.54
A2W0270	2016 Chevrolet Silverado	Pickup	15408	17	906	Ellensburg	\$ 4.17	\$ 3,779	2023 Ford F150 Lightning	68	49	7,549.9	\$ 0.0772	\$ 582.85
A2W0271	2016 Chevrolet Silverado	Pickup	3138	17	185	Dallesport	\$ 4.17	\$ 770	2023 Ford F150 Lightning	68	49	1,537.6	\$ 0.0710	\$ 109.17
A2W0272	2016 Chevrolet Silverado	Pickup	13488	17	793	Ellensburg	\$ 4.17	\$ 3,309	2023 Ford F150 Lightning	68	49	6,609.1	\$ 0.0772	\$ 510.22
A2W0273	2016 Chevrolet Silverado	Pickup	18624	17	1,096	Chehalis	\$ 4.17	\$ 4,568	2023 Ford F150 Lightning	68	49	9,125.8	\$ 0.0682	\$ 622.29
A2W0274	2016 Chevrolet Silverado	Pickup	9685	17	570	Forks - Oly HQ	\$ 4.17	\$ 2,376	2023 Ford F150 Lightning	68	49	4,745.7	\$ 0.0642	\$ 304.67
A2W0275	2016 Chevrolet Silverado	Pickup	7855	17	462	Colville	\$ 4.17	\$ 1,927	2023 Ford F150 Lightning	68	49	3,849.0	\$ 0.1082	\$ 416.46
A2W0276	2016 Chevrolet Silverado	Pickup	13432	17	790	Enumclaw	\$ 4.17	\$ 3,295	2023 Ford F150 Lightning	68	49	6,581.7	\$ 0.1260	\$ 829.44
A2W0277	2016 Chevrolet Silverado	Pickup	9520	17	560	Sedro Woolley	\$ 4.17	\$ 2,335	2023 Ford F150 Lightning	68	49	4,664.8	\$ 0.0993	\$ 463.12
A2W0278	2016 Chevrolet Silverado	Pickup	12483	17	734	Colville	\$ 4.17	\$ 3,062	2023 Ford F150 Lightning	68	49	6,116.7	\$ 0.1082	\$ 661.82
A2W0279	2016 Chevrolet Silverado	Pickup	16987	17	999	Sedro Woolley	\$ 4.17	\$ 4,167	2023 Ford F150 Lightning	68	49	8,323.6	\$ 0.0993	\$ 826.37
A2W0280	2016 Chevrolet Silverado	Pickup	18707	17	1,100	Chehalis	\$ 4.17	\$ 4,589	2023 Ford F150 Lightning	68	49	9,166.4	\$ 0.0682	\$ 625.06
A2W0281	2016 Chevrolet Silverado	Pickup	11623	17	684	Ellensburg	\$ 4.17	\$ 2,851	2023 Ford F150 Lightning	68	49	5,695.3	\$ 0.0772	\$ 439.67
A2W0282	2016 Chevrolet Silverado	Pickup	6962	17	410	Sedro Woolley	\$ 4.17	\$ 1,708	2023 Ford F150 Lightning	68	49	3,411.4	\$ 0.0993	\$ 338.68
A2W0283	2016 Chevrolet Silverado	Pickup	18271	17	1,075	Colville	\$ 4.17	\$ 4,482	2023 Ford F150 Lightning	68	49	8,952.8	\$ 0.1082	\$ 968.69
A2W0284	2016 Chevrolet Silverado	Pickup	5112	17	301	Ellensburg	\$ 4.17	\$ 1,254	2023 Ford F150 Lightning	68	49	2,504.9	\$ 0.0772	\$ 193.38
A2W0285	2017 Chevrolet Silverado	Pickup	6386	17	376	Sedro Woolley	\$ 4.17	\$ 1,566	2023 Ford F150 Lightning	68	49	3,129.1	\$ 0.0993	\$ 310.66
A2W0286	2017 Chevrolet Silverado	Pickup	12409	17	730	Sedro Woolley	\$ 4.17	\$ 3,044	2023 Ford F150 Lightning	68	49	6,080.4	\$ 0.0993	\$ 603.67
A2W0287	2017 Chevrolet Silverado	Pickup	7213	17	424	Tumwater - Webster	\$ 4.17	\$ 1,769	2023 Ford F150 Lightning	68	49	3,534.4	\$ 0.0993	\$ 350.89
A2W0288	2017 Chevrolet Silverado	Pickup	7340	17	432	Deer Park	\$ 4.17	\$ 1,800	2023 Ford F150 Lightning	68	49	3,596.6	\$ 0.1239	\$ 445.44
A2W0289	2017 Chevrolet Silverado	Pickup	9799	17	576	Granite Falls	\$ 4.17	\$ 2,404	2023 Ford F150 Lightning	68	49	4,801.5	\$ 0.0900	\$ 432.14
A2W0290	2017 Chevrolet Silverado	Pickup	8836	17	520	Sedro Woolley	\$ 4.17	\$ 2,167	2023 Ford F150 Lightning	68	49	4,329.6	\$ 0.0993	\$ 429.85
A2W0291	2017 Chevrolet Silverado	Pickup	10817	17	636	Sedro Woolley	\$ 4.17	\$ 2,653	2023 Ford F150 Lightning	68	49	5,300.3	\$ 0.0993	\$ 526.22
A2W0292	2017 Chevrolet Silverado	Pickup	3813	17	224	Forks - Oly HQ	\$ 4.17	\$ 935	2023 Ford F150 Lightning	68	49	1,868.4	\$ 0.0642	\$ 119.95
A2W0293	2017 Chevrolet Silverado	Pickup	10402	17	612	Forks - Oly HQ	\$ 4.17	\$ 2,552	2023 Ford F150 Lightning	68	49	5,097.0	\$ 0.0642	\$ 327.23
A2W0294	2017 Chevrolet Silverado	Pickup	1680	17	99	Forks - Oly HQ	\$ 4.17	\$ 412	2023 Ford F150 Lightning	68	49	823.2	\$ 0.0642	\$ 52.85
A2W0295	2017 Chevrolet Silverado	Pickup	12126	17	713	Castle Rock	\$ 4.17	\$ 2,974	2023 Ford F150 Lightning	68	49	5,941.7	\$ 0.0871	\$ 517.53
A2W0296	2017 Chevrolet Silverado	Pickup	7801	17	459	Castle Rock	\$ 4.17	\$ 1,914	2023 Ford F150 Lightning	68	49	3,822.5	\$ 0.0871	\$ 332.94
A2W0297	2017 Chevrolet Silverado	Pickup	13702	17	806	Menlo	\$ 4.17	\$ 3,361	2023 Ford F150 Lightning	68	49	6,714.0	\$ 0.0687	\$ 461.25
A2W0298	2017 Chevrolet Silverado	Pickup	13924	17	819	Castle Rock	\$ 4.17	\$ 3,415	2023 Ford F150 Lightning	68	49	6,822.8	\$ 0.0871	\$ 594.26
A2W0299	2017 Chevrolet Silverado	Pickup	14702	17	865	Battle Ground	\$ 4.17	\$ 3,606	2023 Ford F150 Lightning	68	49	7,204.0	\$ 0.0833	\$ 600.09
A2W0300	2017 Chevrolet Silverado	Pickup	13437	17	790	Castle Rock	\$ 4.17	\$ 3,296	2023 Ford F150 Lightning	68	49	6,584.1	\$ 0.0871	\$ 573.48
A2W0301	2017 Chevrolet Silverado	Pickup	11184	17	658	Chehalis	\$ 4.17	\$ 2,743	2023 Ford F150 Lightning	68	49	5,480.2	\$ 0.0682	\$ 373.69
A2W0302	2017 Chevrolet Silverado	Pickup	7823	17	460	Battle Ground	\$ 4.17	\$ 1,919	2023 Ford F150 Lightning	68	49	3,833.3	\$ 0.0833	\$ 319.31
A2W0303	2017 Chevrolet Silverado	Pickup	13164	17	774	Chehalis	\$ 4.17	\$ 3,229	2023 Ford F150 Lightning	68	49	6,450.4	\$ 0.0682	\$ 439.85
A2W0304	2017 Chevrolet Silverado	Pickup	15039	17	885	Castle Rock	\$ 4.17	\$ 3,689	2023 Ford F150 Lightning	68	49	7,369.1	\$ 0.0871	\$ 641.85
A2W0305	2017 Chevrolet Silverado	Pickup	1304	17	77	Ellensburg	\$ 4.17	\$ 320	2023 Ford F150 Lightning	68	49	639.0	\$ 0.0772	\$ 49.33
A2W0306	2017 Chevrolet Silverado	Pickup	9790	17	576	Cle Elum	\$ 4.17	\$ 2,401	2023 Ford F150 Lightning	68	49	4,797.1	\$ 0.0993	\$ 476.35
A2W0307	2017 Chevrolet Silverado	Pickup	11650	17	685	Dallesport	\$ 4.17	\$ 2,858	2023 Ford F150 Lightning	68	49	5,708.5	\$ 0.0710	\$ 405.30
A2W0308	2017 Chevrolet Silverado	Pickup	14837	17	873	Ellensburg	\$ 4.17	\$ 3,639	2023 Ford F150 Lightning	68	49	7,270.1	\$ 0.0772	\$ 561.25
A2W0309	2017 Chevrolet Silverado	Pickup	13756	17	809	Battle Ground	\$ 4.17	\$ 3,374	2023 Ford F150 Lightning	68	49	6,740.4	\$ 0.0833	\$ 561.48

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0310	2017 Chevrolet Silverado	Pickup	18282	17	1,075	Excluded	\$ 4.17	\$ 4,484	2023 Ford F150 Lightning	68	49	8,958.2	\$ -	\$ -
A2W0311	2017 Chevrolet Silverado	Pickup	12492	17	735	Sedro Woolley	\$ 4.17	\$ 3,064	2023 Ford F150 Lightning	68	49	6,121.1	\$ 0.0993	\$ 607.70
A2W0312	2017 Chevrolet Silverado	Pickup	2252	17	132	Forks - Oly HQ	\$ 4.17	\$ 552	2023 Ford F150 Lightning	68	49	1,103.5	\$ 0.0642	\$ 70.84
A2W0313	2017 Chevrolet Silverado	Pickup	14286	17	840	Castle Rock	\$ 4.17	\$ 3,504	2023 Ford F150 Lightning	68	49	7,000.1	\$ 0.0871	\$ 609.71
A2W0314	2017 Chevrolet Silverado	Pickup	7530	17	443	Enumclaw	\$ 4.17	\$ 1,847	2023 Ford F150 Lightning	68	49	3,689.7	\$ 0.1260	\$ 464.98
A2W0315	2017 Chevrolet Silverado	Pickup	1652	17	97	North Bend	\$ 4.17	\$ 405	2023 Ford F150 Lightning	68	49	809.5	\$ 0.1260	\$ 102.01
A2W0316	2017 Chevrolet Silverado	Pickup	20920	17	1,231	Cle Elum	\$ 4.17	\$ 5,132	2023 Ford F150 Lightning	68	49	10,250.8	\$ 0.0993	\$ 1,017.90
A2W0317	2017 Chevrolet Silverado	Pickup	9787	17	576	Ellensburg	\$ 4.17	\$ 2,401	2023 Ford F150 Lightning	68	49	4,795.6	\$ 0.0772	\$ 370.22
A2W0318	2017 Chevrolet Silverado	Pickup	19267	17	1,133	Colville	\$ 4.17	\$ 4,726	2023 Ford F150 Lightning	68	49	9,440.8	\$ 0.1082	\$ 1,021.50
A2W0319	2017 Chevrolet Silverado	Pickup	2633	17	155	Ellensburg	\$ 4.17	\$ 646	2023 Ford F150 Lightning	68	49	1,290.2	\$ 0.0772	\$ 99.60
A2W0320	2017 Chevrolet Silverado	Pickup	8740	17	514	Ellensburg	\$ 4.17	\$ 2,144	2023 Ford F150 Lightning	68	49	4,282.6	\$ 0.0772	\$ 330.62
A2W0321	2017 Chevrolet Silverado	Pickup	3801	17	224	Ellensburg	\$ 4.17	\$ 932	2023 Ford F150 Lightning	68	49	1,862.5	\$ 0.0772	\$ 143.78
A2W0322	2017 Chevrolet Silverado	Pickup	4403	17	259	Ellensburg	\$ 4.17	\$ 1,080	2023 Ford F150 Lightning	68	49	2,157.5	\$ 0.0772	\$ 166.56
A2W0323	2017 Chevrolet Silverado	Pickup	8365	17	492	Granite Falls	\$ 4.17	\$ 2,052	2023 Ford F150 Lightning	68	49	4,098.9	\$ 0.0900	\$ 368.90
A2W0324	2017 Chevrolet Silverado	Pickup	11129	17	655	Forks - Oly HQ	\$ 4.17	\$ 2,730	2023 Ford F150 Lightning	68	49	5,453.2	\$ 0.0642	\$ 350.10
A2W0325	2018 Chevrolet Silverado	Pickup	17739	18	986	Deer Park	\$ 4.17	\$ 4,110	2023 Ford F150 Lightning	68	49	8,692.1	\$ 0.1239	\$ 1,076.52
A2W0326	2018 Chevrolet Silverado	Pickup	14293	18	794	Sedro Woolley	\$ 4.17	\$ 3,311	2023 Ford F150 Lightning	68	49	7,003.6	\$ 0.0993	\$ 695.32
A2W0327	2018 Chevrolet Silverado	Pickup	8810	18	489	Sedro Woolley	\$ 4.17	\$ 2,041	2023 Ford F150 Lightning	68	49	4,316.9	\$ 0.0993	\$ 428.58
A2W0328	2018 Chevrolet Silverado	Pickup	5162	18	287	Sedro Woolley	\$ 4.17	\$ 1,196	2023 Ford F150 Lightning	68	49	2,529.4	\$ 0.0993	\$ 251.12
A2W0329	2018 Chevrolet Silverado	Pickup	6700	18	372	Sedro Woolley	\$ 4.17	\$ 1,552	2023 Ford F150 Lightning	68	49	3,283.0	\$ 0.0993	\$ 325.94
A2W0330	2018 Chevrolet Silverado	Pickup	2646	18	147	Forks - Oly HQ	\$ 4.17	\$ 613	2023 Ford F150 Lightning	68	49	1,296.5	\$ 0.0642	\$ 83.24
A2W0331	2018 Chevrolet Silverado	Pickup	7468	18	415	Forks - Oly HQ	\$ 4.17	\$ 1,730	2023 Ford F150 Lightning	68	49	3,659.3	\$ 0.0642	\$ 234.93
A2W0332	2018 Chevrolet Silverado	Pickup	3735	18	208	Forks - Oly HQ	\$ 4.17	\$ 865	2023 Ford F150 Lightning	68	49	1,830.2	\$ 0.0642	\$ 117.50
A2W0333	2018 Chevrolet Silverado	Pickup	11869	18	659	Forks - Oly HQ	\$ 4.17	\$ 2,750	2023 Ford F150 Lightning	68	49	5,815.8	\$ 0.0642	\$ 373.38
A2W0334	2018 Chevrolet Silverado	Pickup	8518	18	473	Forks - Oly HQ	\$ 4.17	\$ 1,973	2023 Ford F150 Lightning	68	49	4,173.8	\$ 0.0642	\$ 267.96
A2W0335	2018 Chevrolet Silverado	Pickup	15169	18	843	Chehalis	\$ 4.17	\$ 3,514	2023 Ford F150 Lightning	68	49	7,432.8	\$ 0.0682	\$ 506.84
A2W0336	2018 Chevrolet Silverado	Pickup	16058	18	892	Chehalis	\$ 4.17	\$ 3,720	2023 Ford F150 Lightning	68	49	7,868.4	\$ 0.0682	\$ 536.55
A2W0337	2018 Chevrolet Silverado	Pickup	12217	18	679	Battle Ground	\$ 4.17	\$ 2,830	2023 Ford F150 Lightning	68	49	5,986.3	\$ 0.0833	\$ 498.66
A2W0338	2018 Chevrolet Silverado	Pickup	10801	18	600	Chehalis	\$ 4.17	\$ 2,502	2023 Ford F150 Lightning	68	49	5,292.5	\$ 0.0682	\$ 360.89
A2W0339	2018 Chevrolet Silverado	Pickup	3647	18	203	Excluded	\$ 4.17	\$ 845	2023 Ford F150 Lightning	68	49	1,787.0	\$ -	\$ -
A2W0340	2018 Chevrolet Silverado	Pickup	23713	18	1,317	Battle Ground	\$ 4.17	\$ 5,494	2023 Ford F150 Lightning	68	49	11,619.4	\$ 0.0833	\$ 967.89
A2W0341	2018 Chevrolet Silverado	Pickup	4232	18	235	Tumwater Compound	\$ 4.17	\$ 980	2023 Ford F150 Lightning	68	49	2,073.7	\$ 0.0993	\$ 205.88
A2W0342	2018 Chevrolet Silverado	Pickup	7302	18	406	Tumwater Compound	\$ 4.17	\$ 1,692	2023 Ford F150 Lightning	68	49	3,578.0	\$ 0.0993	\$ 355.22
A2W0343	2018 Chevrolet Silverado	Pickup	43787	18	2,433	Ellensburg	\$ 4.17	\$ 10,144	2023 Ford F150 Lightning	68	49	21,455.6	\$ 0.0772	\$ 1,656.37
A2W0344	2018 Chevrolet Silverado	Pickup	9255	18	514	Ellensburg	\$ 4.17	\$ 2,144	2023 Ford F150 Lightning	68	49	4,535.0	\$ 0.0772	\$ 350.10
A2W0345	2018 Chevrolet Silverado	Pickup	16620	18	923	Colville	\$ 4.17	\$ 3,850	2023 Ford F150 Lightning	68	49	8,143.8	\$ 0.1082	\$ 881.16
A2W0346	2018 Chevrolet Silverado	Pickup	10750	18	597	Excluded	\$ 4.17	\$ 2,490	2023 Ford F150 Lightning	68	49	5,267.5	\$ -	\$ -
A2W0347	2018 Chevrolet Silverado	Pickup	1783	18	99	Excluded	\$ 4.17	\$ 413	2023 Ford F150 Lightning	68	49	873.7	\$ -	\$ -
A2W0348	2018 Chevrolet Silverado	Pickup	10082	18	560	Forks - Oly Camp	\$ 4.17	\$ 2,336	2023 Ford F150 Lightning	68	49	4,940.2	\$ 0.0640	\$ 316.17
A2W0349	2018 Chevrolet Silverado	Pickup	16006	18	889	Port Angeles	\$ 4.17	\$ 3,708	2023 Ford F150 Lightning	68	49	7,842.9	\$ 0.0642	\$ 503.52
A2W0350	2018 Chevrolet Silverado	Pickup	14546	18	808	Castle Rock	\$ 4.17	\$ 3,370	2023 Ford F150 Lightning	68	49	7,127.5	\$ 0.0871	\$ 620.81
A2W0351	2018 Chevrolet Silverado	Pickup	6109	18	339	Belfair	\$ 4.17	\$ 1,415	2023 Ford F150 Lightning	68	49	2,993.4	\$ 0.0891	\$ 266.71
A2W0352	2018 Chevrolet Silverado	Pickup	11211	18	623	Ellensburg	\$ 4.17	\$ 2,597	2023 Ford F150 Lightning	68	49	5,493.4	\$ 0.0772	\$ 424.09
A2W0353	2018 Chevrolet Silverado	Pickup	13059	18	726	Enumclaw	\$ 4.17	\$ 3,025	2023 Ford F150 Lightning	68	49	6,398.9	\$ 0.1260	\$ 806.40
A2W0354	2018 Chevrolet Silverado	Pickup	8134	18	452	Excluded	\$ 4.17	\$ 1,884	2023 Ford F150 Lightning	68	49	3,985.7	\$ -	\$ -
A2W0355	2018 Chevrolet Silverado	Pickup	5026	18	279	Excluded	\$ 4.17	\$ 1,164	2023 Ford F150 Lightning	68	49	2,462.7	\$ -	\$ -
A2W0356	2018 Chevrolet Silverado	Pickup	5385	18	299	Tumwater - DNR Hangar	\$ 4.17	\$ 1,248	2023 Ford F150 Lightning	68	49	2,638.7	\$ 0.0993	\$ 261.97
A2W0357	2018 Chevrolet Silverado	Pickup	9440	18	524	Excluded	\$ 4.17	\$ 2,187	2023 Ford F150 Lightning	68	49	4,625.6	\$ -	\$ -
A2W0358	2018 Chevrolet Silverado	Pickup	15829	18	879	Excluded	\$ 4.17	\$ 3,667	2023 Ford F150 Lightning	68	49	7,756.2	\$ -	\$ -
A2W0359	2018 Chevrolet Silverado	Pickup	5402	18	300	Sedro Woolley	\$ 4.17	\$ 1,251	2023 Ford F150 Lightning	68	49	2,647.0	\$ 0.0993	\$ 262.79
A2W0360	2018 Chevrolet Silverado	Pickup	2254	18	125	Excluded	\$ 4.17	\$ 522	2023 Ford F150 Lightning	68	49	1,104.5	\$ -	\$ -

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0361	2019 Chevrolet Silverado	Pickup	23469	17	1,381	Colville	\$ 4.17	\$ 5,757	2023 Ford F150 Lightning	68	49	11,499.8	\$ 0.1082	\$ 1,244.28
A2W0362	2019 Chevrolet Silverado	Pickup	11903	17	700	Colville	\$ 4.17	\$ 2,920	2023 Ford F150 Lightning	68	49	5,832.5	\$ 0.1082	\$ 631.07
A2W0363	2019 Chevrolet Silverado	Pickup	7720	17	454	Sedro Woolley	\$ 4.17	\$ 1,894	2023 Ford F150 Lightning	68	49	3,782.8	\$ 0.0993	\$ 375.56
A2W0364	2019 Chevrolet Silverado	Pickup	10009	17	589	Sedro Woolley	\$ 4.17	\$ 2,455	2023 Ford F150 Lightning	68	49	4,904.4	\$ 0.0993	\$ 486.91
A2W0365	2019 Chevrolet Silverado	Pickup	11119	17	654	Sedro Woolley	\$ 4.17	\$ 2,727	2023 Ford F150 Lightning	68	49	5,448.3	\$ 0.0993	\$ 540.91
A2W0366	2019 Chevrolet Silverado	Pickup	9696	17	570	Forks - Oly HQ	\$ 4.17	\$ 2,378	2023 Ford F150 Lightning	68	49	4,751.0	\$ 0.0642	\$ 305.02
A2W0367	2019 Chevrolet Silverado	Pickup	7071	17	416	Forks - Oly HQ	\$ 4.17	\$ 1,734	2023 Ford F150 Lightning	68	49	3,464.8	\$ 0.0642	\$ 222.44
A2W0368	2019 Chevrolet Silverado	Pickup	6958	17	409	Castle Rock	\$ 4.17	\$ 1,707	2023 Ford F150 Lightning	68	49	3,409.4	\$ 0.0871	\$ 296.96
A2W0369	2019 Chevrolet Silverado	Pickup	9390	17	552	Battle Ground	\$ 4.17	\$ 2,303	2023 Ford F150 Lightning	68	49	4,601.1	\$ 0.0833	\$ 383.27
A2W0370	2019 Chevrolet Silverado	Pickup	1960	17	115	Tumwater Compound	\$ 4.17	\$ 481	2023 Ford F150 Lightning	68	49	960.4	\$ 0.0993	\$ 95.35
A2W0371	2019 Chevrolet Silverado	Pickup	5248	17	309	North Bend	\$ 4.17	\$ 1,287	2023 Ford F150 Lightning	68	49	2,571.5	\$ 0.1260	\$ 324.07
A2W0372	2019 Chevrolet Silverado	Pickup	6940	17	408	Tumwater Compound	\$ 4.17	\$ 1,702	2023 Ford F150 Lightning	68	49	3,400.6	\$ 0.0993	\$ 337.61
A2W0373	2019 Chevrolet Silverado	Pickup	14496	17	853	Colville	\$ 4.17	\$ 3,556	2023 Ford F150 Lightning	68	49	7,103.0	\$ 0.1082	\$ 768.55
A2W0374	2019 Chevrolet Silverado	Pickup	15592	17	917	Colville	\$ 4.17	\$ 3,825	2023 Ford F150 Lightning	68	49	7,640.1	\$ 0.1082	\$ 826.66
A2W0375	2019 Chevrolet Silverado	Pickup	16134	17	949	Colville	\$ 4.17	\$ 3,958	2023 Ford F150 Lightning	68	49	7,905.7	\$ 0.1082	\$ 855.39
A2W0376	2019 Chevrolet Silverado	Pickup	14591	17	858	Colville	\$ 4.17	\$ 3,579	2023 Ford F150 Lightning	68	49	7,149.6	\$ 0.1082	\$ 773.59
A2W0377	2019 Ford F150	Pickup	17565	18	976	Chehalis	\$ 4.17	\$ 4,069	2023 Ford F150 Lightning	68	49	8,606.9	\$ 0.0682	\$ 586.90
A2W0378	2019 Ford F150	Pickup	5661	18	315	Castle Rock	\$ 4.17	\$ 1,311	2023 Ford F150 Lightning	68	49	2,773.9	\$ 0.0871	\$ 241.61
A2W0379	2019 Ford F150	Pickup	5602	18	311	Ellensburg	\$ 4.17	\$ 1,298	2023 Ford F150 Lightning	68	49	2,745.0	\$ 0.0772	\$ 211.91
A2W0380	2019 Ford F150	Pickup	4939	18	274	Enumclaw	\$ 4.17	\$ 1,144	2023 Ford F150 Lightning	68	49	2,420.1	\$ 0.1260	\$ 304.99
A2W0381	2019 Chevrolet Silverado	Pickup	17480	17	1,028	Colville	\$ 4.17	\$ 4,288	2023 Ford F150 Lightning	68	49	8,565.2	\$ 0.1082	\$ 926.75
A2W0382	2019 Chevrolet Silverado	Pickup	17702	17	1,041	Colville	\$ 4.17	\$ 4,342	2023 Ford F150 Lightning	68	49	8,674.0	\$ 0.1082	\$ 938.52
A2W0383	2019 Chevrolet Silverado	Pickup	2548	17	150	Colville	\$ 4.17	\$ 625	2023 Ford F150 Lightning	68	49	1,248.5	\$ 0.1082	\$ 135.09
A2W0384	2019 Chevrolet Silverado	Pickup	10470	17	616	Loomis Highlands	\$ 4.17	\$ 2,568	2023 Ford F150 Lightning	68	49	5,130.3	\$ 0.0641	\$ 328.85
A2W0385	2019 Chevrolet Silverado	Pickup	9930	17	584	Granite Falls	\$ 4.17	\$ 2,436	2023 Ford F150 Lightning	68	49	4,865.7	\$ 0.0900	\$ 437.91
A2W0386	2019 Chevrolet Silverado	Pickup	7802	17	459	Sedro Woolley	\$ 4.17	\$ 1,914	2023 Ford F150 Lightning	68	49	3,823.0	\$ 0.0993	\$ 379.55
A2W0387	2019 Chevrolet Silverado	Pickup	10886	17	640	Granite Falls	\$ 4.17	\$ 2,670	2023 Ford F150 Lightning	68	49	5,334.1	\$ 0.0900	\$ 480.07
A2W0388	2019 Chevrolet Silverado	Pickup	6201	17	365	Sedro Woolley	\$ 4.17	\$ 1,521	2023 Ford F150 Lightning	68	49	3,038.5	\$ 0.0993	\$ 301.66
A2W0389	2019 Chevrolet Silverado	Pickup	12520	17	736	Sedro Woolley	\$ 4.17	\$ 3,071	2023 Ford F150 Lightning	68	49	6,134.8	\$ 0.0993	\$ 609.07
A2W0390	2019 Chevrolet Silverado	Pickup	1310	17	77	Forks - Oly HQ	\$ 4.17	\$ 321	2023 Ford F150 Lightning	68	49	641.9	\$ 0.0642	\$ 41.21
A2W0391	2019 Chevrolet Silverado	Pickup	9554	17	562	Forks - Oly HQ	\$ 4.17	\$ 2,344	2023 Ford F150 Lightning	68	49	4,681.5	\$ 0.0642	\$ 300.55
A2W0392	2019 Chevrolet Silverado	Pickup	11523	17	678	Chimacum	\$ 4.17	\$ 2,827	2023 Ford F150 Lightning	68	49	5,646.3	\$ 0.1082	\$ 610.93
A2W0393	2019 Chevrolet Silverado	Pickup	8462	17	498	Battle Ground	\$ 4.17	\$ 2,076	2023 Ford F150 Lightning	68	49	4,146.4	\$ 0.0833	\$ 345.39
A2W0394	2019 Chevrolet Silverado	Pickup	9992	17	588	Castle Rock	\$ 4.17	\$ 2,451	2023 Ford F150 Lightning	68	49	4,896.1	\$ 0.0871	\$ 426.45
A2W0395	2019 Chevrolet Silverado	Pickup	4987	17	293	Battle Ground	\$ 4.17	\$ 1,223	2023 Ford F150 Lightning	68	49	2,443.6	\$ 0.0833	\$ 203.55
A2W0396	2019 Chevrolet Silverado	Pickup	1557	17	92	Castle Rock	\$ 4.17	\$ 382	2023 Ford F150 Lightning	68	49	762.9	\$ 0.0871	\$ 66.45
A2W0397	2019 Chevrolet Silverado	Pickup	20078	17	1,181	Menlo	\$ 4.17	\$ 4,925	2023 Ford F150 Lightning	68	49	9,838.2	\$ 0.0687	\$ 675.89
A2W0398	2019 Chevrolet Silverado	Pickup	11488	17	676	Tumwater Compound	\$ 4.17	\$ 2,818	2023 Ford F150 Lightning	68	49	5,629.1	\$ 0.0993	\$ 558.86
A2W0399	2019 Chevrolet Silverado	Pickup	15391	17	905	Belfair	\$ 4.17	\$ 3,775	2023 Ford F150 Lightning	68	49	7,541.6	\$ 0.0891	\$ 671.96
A2W0400	2019 Chevrolet Silverado	Pickup	13653	17	803	Enumclaw	\$ 4.17	\$ 3,349	2023 Ford F150 Lightning	68	49	6,690.0	\$ 0.1260	\$ 843.08
A2W0401	2019 Chevrolet Silverado	Pickup	15185	17	893	Enumclaw	\$ 4.17	\$ 3,725	2023 Ford F150 Lightning	68	49	7,440.7	\$ 0.1260	\$ 937.69
A2W0402	2019 Chevrolet Silverado	Pickup	3673	17	216	North Bend	\$ 4.17	\$ 901	2023 Ford F150 Lightning	68	49	1,799.8	\$ 0.1260	\$ 226.81
A2W0403	2019 Chevrolet Silverado	Pickup	13191	17	776	Ellensburg	\$ 4.17	\$ 3,236	2023 Ford F150 Lightning	68	49	6,463.6	\$ 0.0772	\$ 498.99
A2W0404	2019 Chevrolet Silverado	Pickup	7323	17	431	Dallesport	\$ 4.17	\$ 1,796	2023 Ford F150 Lightning	68	49	3,588.3	\$ 0.0710	\$ 254.77
A2W0405	2019 Chevrolet Silverado	Pickup	12242	17	720	Dallesport	\$ 4.17	\$ 3,003	2023 Ford F150 Lightning	68	49	5,998.6	\$ 0.0710	\$ 425.90
A2W0406	2019 Chevrolet Silverado	Pickup	16806	17	989	Excluded	\$ 4.17	\$ 4,122	2023 Ford F150 Lightning	68	49	8,234.9	\$ -	\$ -
A2W0407	2019 Chevrolet Silverado	Pickup	4555	17	268	Belfair	\$ 4.17	\$ 1,117	2023 Ford F150 Lightning	68	49	2,232.0	\$ 0.0891	\$ 198.87
A2W0408	2019 Chevrolet Silverado	Pickup	4783	17	281	Excluded	\$ 4.17	\$ 1,173	2023 Ford F150 Lightning	68	49	2,343.7	\$ -	\$ -
A2W0409	2019 Ford F150	Pickup	2024	18	112	Tumwater - DNR Hangar	\$ 4.17	\$ 469	2023 Ford F150 Lightning	68	49	991.8	\$ 0.0993	\$ 98.46
A2W0410	2019 Ford F150	Pickup	12735	18	708	Excluded	\$ 4.17	\$ 2,950	2023 Ford F150 Lightning	68	49	6,240.2	\$ -	\$ -
A2W0411	2019 Chevrolet Silverado	Pickup	8922	17	525	Belfair	\$ 4.17	\$ 2,189	2023 Ford F150 Lightning	68	49	4,371.8	\$ 0.0891	\$ 389.53

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0412	2019 Chevrolet Silverado	Pickup	9190	17	541	Excluded	\$ 4.17	\$ 2,254	2023 Ford F150 Lightning	68	49	4,503.1	\$ -	\$ -
A2W0413	2019 Chevrolet Silverado	Pickup	5977	17	352	Excluded	\$ 4.17	\$ 1,466	2023 Ford F150 Lightning	68	49	2,928.7	\$ -	\$ -
A2W0414	2019 Chevrolet Silverado	Pickup	10121	17	595	Sedro Woolley	\$ 4.17	\$ 2,483	2023 Ford F150 Lightning	68	49	4,959.3	\$ 0.0993	\$ 492.36
A2W0415	2019 Chevrolet Silverado	Pickup	5955	17	350	Naselle	\$ 4.17	\$ 1,461	2023 Ford F150 Lightning	68	49	2,910.0	\$ 0.0687	\$ 200.46
A2W0416	2019 Chevrolet Silverado	Pickup	4837	17	285	Excluded	\$ 4.17	\$ 1,186	2023 Ford F150 Lightning	68	49	2,370.1	\$ -	\$ -
A2W0417	2019 Ford F150	Pickup	11846	18	658	Enumclaw	\$ 4.17	\$ 2,744	2023 Ford F150 Lightning	68	49	5,804.5	\$ 0.1260	\$ 731.50
A2W0418	2019 Ford F150	Pickup	15713	18	873	Loomis Highlands	\$ 4.17	\$ 3,640	2023 Ford F150 Lightning	68	49	7,699.4	\$ 0.0641	\$ 493.53
A2W0419	2019 Ford F150	Pickup	10340	18	574	Loomis Highlands	\$ 4.17	\$ 2,395	2023 Ford F150 Lightning	68	49	5,066.6	\$ 0.0641	\$ 324.77
A2W0420	2019 Ford F150	Pickup	5458	18	303	Cle Elum	\$ 4.17	\$ 1,264	2023 Ford F150 Lightning	68	49	2,674.4	\$ 0.0993	\$ 265.57
A2W0421	2019 Ford F150	Pickup	10790	18	599	Deer Park	\$ 4.17	\$ 2,500	2023 Ford F150 Lightning	68	49	5,287.1	\$ 0.1239	\$ 654.81
A2W0422	2019 Ford F150	Pickup	7536	18	419	Longview	\$ 4.17	\$ 1,746	2023 Ford F150 Lightning	68	49	3,692.6	\$ 0.0871	\$ 321.63
A2W0423	2019 Ford F150	Pickup	5914	18	329	Ellensburg	\$ 4.17	\$ 1,370	2023 Ford F150 Lightning	68	49	2,897.9	\$ 0.0772	\$ 223.71
A2W0424	2019 Ford F150	Pickup	13849	18	769	Castle Rock	\$ 4.17	\$ 3,208	2023 Ford F150 Lightning	68	49	6,786.0	\$ 0.0871	\$ 591.06
A2W0425	2019 Ford F150	Pickup	9236	18	513	Excluded	\$ 4.17	\$ 2,140	2023 Ford F150 Lightning	68	49	4,525.6	\$ -	\$ -
A2W0426	2019 Ford F150	Pickup	12664	18	704	Ellensburg	\$ 4.17	\$ 2,934	2023 Ford F150 Lightning	68	49	6,205.4	\$ 0.0772	\$ 479.05
A2W0427	2019 Ford F150	Pickup	13448	18	747	Sedro Woolley	\$ 4.17	\$ 3,115	2023 Ford F150 Lightning	68	49	6,589.5	\$ 0.0993	\$ 654.21
A2W0428	2019 Ford F150	Pickup	7863	18	437	Forks - Oly HQ	\$ 4.17	\$ 1,822	2023 Ford F150 Lightning	68	49	3,852.9	\$ 0.0642	\$ 247.35
A2W0429	2019 Ford F150	Pickup	12719	18	707	Deer Park	\$ 4.17	\$ 2,947	2023 Ford F150 Lightning	68	49	6,232.3	\$ 0.1239	\$ 771.87
A2W0430	2019 Ford F150	Pickup	8927	18	496	Colville	\$ 4.17	\$ 2,068	2023 Ford F150 Lightning	68	49	4,374.2	\$ 0.1082	\$ 473.29
A2W0431	2019 Ford F150	Pickup	7769	18	432	Excluded	\$ 4.17	\$ 1,800	2023 Ford F150 Lightning	68	49	3,806.8	\$ -	\$ -
A2W0432	2019 Ford F150	Pickup	14774	18	821	Forks - Oly HQ	\$ 4.17	\$ 3,423	2023 Ford F150 Lightning	68	49	7,239.3	\$ 0.0642	\$ 464.76
A2W0433	2019 Ford F150	Pickup	11636	18	646	Dallesport	\$ 4.17	\$ 2,696	2023 Ford F150 Lightning	68	49	5,701.6	\$ 0.0710	\$ 404.82
A2W0434	2019 Ford F150	Pickup	13449	18	747	Dallesport	\$ 4.17	\$ 3,116	2023 Ford F150 Lightning	68	49	6,590.0	\$ 0.0710	\$ 467.89
A2W0435	2019 Ford F150	Pickup	19955	18	1,109	Belfair	\$ 4.17	\$ 4,623	2023 Ford F150 Lightning	68	49	9,778.0	\$ 0.0891	\$ 871.22
A2W0436	2019 Ford F150	Pickup	12012	18	667	Enumclaw	\$ 4.17	\$ 2,783	2023 Ford F150 Lightning	68	49	5,885.9	\$ 0.1260	\$ 741.75
A2W0437	2019 Ford F150	Pickup	12316	18	684	Castle Rock	\$ 4.17	\$ 2,853	2023 Ford F150 Lightning	68	49	6,034.8	\$ 0.0871	\$ 525.63
A2W0438	2019 Ford F150	Pickup	7787	18	433	Ahtanum	\$ 4.17	\$ 1,804	2023 Ford F150 Lightning	68	49	3,815.6	\$ 0.0839	\$ 320.13
A2W0439	2019 Ford F150	Pickup	10109	18	562	Excluded	\$ 4.17	\$ 2,342	2023 Ford F150 Lightning	68	49	4,953.4	\$ -	\$ -
A2W0440	2019 Ford F150	Pickup	13268	18	737	Kalama	\$ 4.17	\$ 3,074	2023 Ford F150 Lightning	68	49	6,501.3	\$ 0.0871	\$ 566.26
A2W0441	2019 Ford F150	Pickup	7522	18	418	Goldendale	\$ 4.17	\$ 1,743	2023 Ford F150 Lightning	68	49	3,685.8	\$ 0.0710	\$ 261.69
A2W0442	2019 Ford F150	Pickup	3061	18	170	Sedro Woolley	\$ 4.17	\$ 709	2023 Ford F150 Lightning	68	49	1,499.9	\$ 0.0993	\$ 148.91
A2W0443	2019 Ford F150	Pickup	5049	18	281	Forks - Oly HQ	\$ 4.17	\$ 1,170	2023 Ford F150 Lightning	68	49	2,474.0	\$ 0.0642	\$ 158.83
A2W0444	2019 Ford F150	Pickup	5345	18	297	Goldendale	\$ 4.17	\$ 1,238	2023 Ford F150 Lightning	68	49	2,619.1	\$ 0.0710	\$ 185.95
A2W0445	2019 Ford F150	Pickup	5037	18	280	Loomis Highlands	\$ 4.17	\$ 1,167	2023 Ford F150 Lightning	68	49	2,468.1	\$ 0.0641	\$ 158.21
A2W0446	2019 Ford F150	Pickup	6053	18	336	Sedro Woolley	\$ 4.17	\$ 1,402	2023 Ford F150 Lightning	68	49	2,966.0	\$ 0.0993	\$ 294.46
A2W0447	2019 Ford F150	Pickup	3028	18	168	Excluded	\$ 4.17	\$ 701	2023 Ford F150 Lightning	68	49	1,483.7	\$ -	\$ -
A2W0448	2019 Ford F150	Pickup	1758	18	98	Tumwater - DNR Hangar	\$ 4.17	\$ 407	2023 Ford F150 Lightning	68	49	861.4	\$ 0.0993	\$ 85.52
A2W0449	2019 Ford F150	Pickup	3766	18	209	Excluded	\$ 4.17	\$ 872	2023 Ford F150 Lightning	68	49	1,845.3	\$ -	\$ -
A2W0450	2019 Ford F150	Pickup	4909	18	273	Excluded	\$ 4.17	\$ 1,137	2023 Ford F150 Lightning	68	49	2,405.4	\$ -	\$ -
A2W0451	2019 Ford F150	Pickup	5234	18	291	Excluded	\$ 4.17	\$ 1,213	2023 Ford F150 Lightning	68	49	2,564.7	\$ -	\$ -
A2W0452	2020 Ford F150	Pickup	22031	18	1,224	Deer Park	\$ 4.17	\$ 5,104	2023 Ford F150 Lightning	68	49	10,795.2	\$ 0.1239	\$ 1,336.98
A2W0453	2020 Ford F150	Pickup	8784	18	488	Colville	\$ 4.17	\$ 2,035	2023 Ford F150 Lightning	68	49	4,304.2	\$ 0.1082	\$ 465.71
A2W0454	2020 Ford F150	Pickup	17812	18	990	Deer Park	\$ 4.17	\$ 4,126	2023 Ford F150 Lightning	68	49	8,727.9	\$ 0.1239	\$ 1,080.95
A2W0455	2020 Ford F150	Pickup	22321	18	1,240	Deer Park	\$ 4.17	\$ 5,171	2023 Ford F150 Lightning	68	49	10,937.3	\$ 0.1239	\$ 1,354.58
A2W0456	2020 Ford F150	Pickup	4189	18	233	Excluded	\$ 4.17	\$ 970	2023 Ford F150 Lightning	68	49	2,052.6	\$ -	\$ -
A2W0457	2020 Ford F150	Pickup	14225	18	790	Deer Park	\$ 4.17	\$ 3,295	2023 Ford F150 Lightning	68	49	6,970.3	\$ 0.1239	\$ 863.27
A2W0458	2020 Ford F150	Pickup	12846	18	714	Deer Park	\$ 4.17	\$ 2,976	2023 Ford F150 Lightning	68	49	6,294.5	\$ 0.1239	\$ 779.58
A2W0459	2020 Ford F150	Pickup	14400	18	800	Colville	\$ 4.17	\$ 3,336	2023 Ford F150 Lightning	68	49	7,056.0	\$ 0.1082	\$ 763.46
A2W0460	2020 Ford F150	Pickup	4560	18	253	Colville	\$ 4.17	\$ 1,056	2023 Ford F150 Lightning	68	49	2,234.4	\$ 0.1082	\$ 241.76
A2W0461	2020 Ford F150	Pickup	11039	18	613	Colville	\$ 4.17	\$ 2,557	2023 Ford F150 Lightning	68	49	5,409.1	\$ 0.1082	\$ 585.27
A2W0462	2020 Ford F150	Pickup	9978	18	554	Sedro Woolley	\$ 4.17	\$ 2,312	2023 Ford F150 Lightning	68	49	4,889.2	\$ 0.0993	\$ 485.40

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0463	2020 Ford F150	Pickup	3045	18	169	Granite Falls	\$ 4.17	\$ 705	2023 Ford F150 Lightning	68	49	1,492.1	\$ 0.0900	\$ 134.28
A2W0464	2020 Ford F150	Pickup	6013	18	334	Sedro Woolley	\$ 4.17	\$ 1,393	2023 Ford F150 Lightning	68	49	2,946.4	\$ 0.0993	\$ 292.52
A2W0465	2020 Ford F150	Pickup	7804	18	434	Sedro Woolley	\$ 4.17	\$ 1,808	2023 Ford F150 Lightning	68	49	3,824.0	\$ 0.0993	\$ 379.64
A2W0466	2020 Ford F150	Pickup	10577	18	588	Enumclaw	\$ 4.17	\$ 2,450	2023 Ford F150 Lightning	68	49	5,182.7	\$ 0.1260	\$ 653.14
A2W0467	2020 Ford F150	Pickup	13662	18	759	Sedro Woolley	\$ 4.17	\$ 3,165	2023 Ford F150 Lightning	68	49	6,694.4	\$ 0.0993	\$ 664.62
A2W0468	2020 Ford F150	Pickup	16364	18	909	Sedro Woolley	\$ 4.17	\$ 3,791	2023 Ford F150 Lightning	68	49	8,018.4	\$ 0.0993	\$ 796.07
A2W0469	2020 Ford F150	Pickup	13069	18	726	Granite Falls	\$ 4.17	\$ 3,028	2023 Ford F150 Lightning	68	49	6,403.8	\$ 0.0900	\$ 576.34
A2W0470	2020 Ford F150	Pickup	5966	18	331	Sedro Woolley	\$ 4.17	\$ 1,382	2023 Ford F150 Lightning	68	49	2,923.3	\$ 0.0993	\$ 290.23
A2W0471	2020 Ford F150	Pickup	14594	18	811	Sedro Woolley	\$ 4.17	\$ 3,381	2023 Ford F150 Lightning	68	49	7,151.1	\$ 0.0993	\$ 709.96
A2W0472	2020 Ford F150	Pickup	13017	18	723	Sedro Woolley	\$ 4.17	\$ 3,016	2023 Ford F150 Lightning	68	49	6,378.3	\$ 0.0993	\$ 633.24
A2W0473	2020 Ford F150	Pickup	12329	18	685	Excluded	\$ 4.17	\$ 2,856	2023 Ford F150 Lightning	68	49	6,041.2	-	-
A2W0474	2020 Ford F150	Pickup	5020	18	279	Sedro Woolley	\$ 4.17	\$ 1,163	2023 Ford F150 Lightning	68	49	2,459.8	\$ 0.0993	\$ 244.21
A2W0475	2020 Ford F150	Pickup	6980	18	388	Forks - Oly HQ	\$ 4.17	\$ 1,617	2023 Ford F150 Lightning	68	49	3,420.2	\$ 0.0642	\$ 219.58
A2W0476	2020 Ford F150	Pickup	7983	18	444	Forks - Oly HQ	\$ 4.17	\$ 1,849	2023 Ford F150 Lightning	68	49	3,911.7	\$ 0.0642	\$ 251.13
A2W0477	2020 Ford F150	Pickup	5000	18	278	Forks - Oly HQ	\$ 4.17	\$ 1,158	2023 Ford F150 Lightning	68	49	2,450.0	\$ 0.0642	\$ 157.29
A2W0478	2020 Ford F150	Pickup	10332	18	574	Forks - Oly HQ	\$ 4.17	\$ 2,394	2023 Ford F150 Lightning	68	49	5,062.7	\$ 0.0642	\$ 325.02
A2W0479	2020 Ford F150	Pickup	6825	18	379	Chimacum	\$ 4.17	\$ 1,581	2023 Ford F150 Lightning	68	49	3,344.3	\$ 0.1082	\$ 361.85
A2W0480	2020 Ford F150	Pickup	7263	18	404	Chimacum	\$ 4.17	\$ 1,683	2023 Ford F150 Lightning	68	49	3,558.9	\$ 0.1082	\$ 385.07
A2W0481	2020 Ford F150	Pickup	7439	18	413	Forks - Oly HQ	\$ 4.17	\$ 1,723	2023 Ford F150 Lightning	68	49	3,645.1	\$ 0.0642	\$ 234.02
A2W0482	2020 Ford F150	Pickup	12203	18	678	Forks - Oly HQ	\$ 4.17	\$ 2,827	2023 Ford F150 Lightning	68	49	5,979.5	\$ 0.0642	\$ 383.88
A2W0483	2020 Ford F150	Pickup	15771	18	876	Menlo	\$ 4.17	\$ 3,654	2023 Ford F150 Lightning	68	49	7,727.8	\$ 0.0687	\$ 530.90
A2W0484	2020 Ford F150	Pickup	17577	18	977	Menlo	\$ 4.17	\$ 4,072	2023 Ford F150 Lightning	68	49	8,612.7	\$ 0.0687	\$ 591.69
A2W0485	2020 Ford F150	Pickup	18581	18	1,032	Battle Ground	\$ 4.17	\$ 4,305	2023 Ford F150 Lightning	68	49	9,104.7	\$ 0.0833	\$ 758.42
A2W0486	2020 Ford F150	Pickup	12941	18	719	Enumclaw	\$ 4.17	\$ 2,998	2023 Ford F150 Lightning	68	49	6,341.1	\$ 0.1260	\$ 799.12
A2W0487	2020 Ford F150	Pickup	6588	18	366	Excluded	\$ 4.17	\$ 1,526	2023 Ford F150 Lightning	68	49	3,228.1	-	-
A2W0488	2020 Ford F150	Pickup	26541	18	1,475	Menlo	\$ 4.17	\$ 6,149	2023 Ford F150 Lightning	68	49	13,005.1	\$ 0.0687	\$ 893.45
A2W0489	2020 Ford F150	Pickup	6822	18	379	Battle Ground	\$ 4.17	\$ 1,580	2023 Ford F150 Lightning	68	49	3,342.8	\$ 0.0833	\$ 278.45
A2W0490	2020 Ford F150	Pickup	14065	18	781	Castle Rock	\$ 4.17	\$ 3,258	2023 Ford F150 Lightning	68	49	6,891.9	\$ 0.0871	\$ 600.28
A2W0491	2020 Ford F150	Pickup	6901	18	383	Chehalis	\$ 4.17	\$ 1,599	2023 Ford F150 Lightning	68	49	3,381.5	\$ 0.0682	\$ 230.58
A2W0492	2020 Ford F150	Pickup	8247	18	458	Castle Rock	\$ 4.17	\$ 1,911	2023 Ford F150 Lightning	68	49	4,041.0	\$ 0.0871	\$ 351.97
A2W0493	2020 Ford F150	Pickup	15166	18	843	Chehalis	\$ 4.17	\$ 3,513	2023 Ford F150 Lightning	68	49	7,431.3	\$ 0.0682	\$ 506.74
A2W0494	2020 Ford F150	Pickup	5734	18	319	Castle Rock	\$ 4.17	\$ 1,328	2023 Ford F150 Lightning	68	49	2,809.7	\$ 0.0871	\$ 244.72
A2W0495	2020 Ford F150	Pickup	14637	18	813	Castle Rock	\$ 4.17	\$ 3,391	2023 Ford F150 Lightning	68	49	7,172.1	\$ 0.0871	\$ 624.69
A2W0496	2020 Ford F150	Pickup	23077	18	1,282	Battle Ground	\$ 4.17	\$ 5,346	2023 Ford F150 Lightning	68	49	11,307.7	\$ 0.0833	\$ 941.93
A2W0497	2020 Ford F150	Pickup	5683	18	316	Castle Rock	\$ 4.17	\$ 1,317	2023 Ford F150 Lightning	68	49	2,784.7	\$ 0.0871	\$ 242.54
A2W0498	2020 Ford F150	Pickup	8276	18	460	North Bend	\$ 4.17	\$ 1,917	2023 Ford F150 Lightning	68	49	4,055.2	\$ 0.1260	\$ 511.05
A2W0499	2020 Ford F150	Pickup	14292	18	794	Enumclaw	\$ 4.17	\$ 3,311	2023 Ford F150 Lightning	68	49	7,003.1	\$ 0.1260	\$ 882.54
A2W0500	2020 Ford F150	Pickup	4192	18	233	Tumwater Compound	\$ 4.17	\$ 971	2023 Ford F150 Lightning	68	49	2,054.1	\$ 0.0993	\$ 203.93
A2W0501	2020 Ford F150	Pickup	3494	18	194	Littlerock	\$ 4.17	\$ 809	2023 Ford F150 Lightning	68	49	1,712.1	\$ 0.0993	\$ 169.97
A2W0502	2020 Ford F150	Pickup	4176	18	232	Enumclaw	\$ 4.17	\$ 967	2023 Ford F150 Lightning	68	49	2,046.2	\$ 0.1260	\$ 257.87
A2W0503	2020 Ford F150	Pickup	4147	18	230	Enumclaw	\$ 4.17	\$ 961	2023 Ford F150 Lightning	68	49	2,032.0	\$ 0.1260	\$ 256.08
A2W0504	2020 Ford F150	Pickup	4450	18	247	Excluded	\$ 4.17	\$ 1,031	2023 Ford F150 Lightning	68	49	2,180.5	-	-
A2W0505	2020 Ford F150	Pickup	4677	18	260	Enumclaw	\$ 4.17	\$ 1,084	2023 Ford F150 Lightning	68	49	2,291.7	\$ 0.1260	\$ 288.81
A2W0506	2020 Ford F150	Pickup	14771	18	821	Enumclaw	\$ 4.17	\$ 3,422	2023 Ford F150 Lightning	68	49	7,237.8	\$ 0.1260	\$ 912.12
A2W0507	2020 Ford F150	Pickup	5226	18	290	North Bend	\$ 4.17	\$ 1,211	2023 Ford F150 Lightning	68	49	2,560.7	\$ 0.1260	\$ 322.71
A2W0508	2020 Ford F150	Pickup	5900	18	328	Tumwater Compound	\$ 4.17	\$ 1,367	2023 Ford F150 Lightning	68	49	2,891.0	\$ 0.0993	\$ 287.02
A2W0509	2020 Ford F150	Pickup	9569	18	532	Belfair	\$ 4.17	\$ 2,217	2023 Ford F150 Lightning	68	49	4,688.8	\$ 0.0891	\$ 417.77
A2W0510	2020 Ford F150	Pickup	8207	18	456	Tumwater Compound	\$ 4.17	\$ 1,901	2023 Ford F150 Lightning	68	49	4,021.4	\$ 0.0993	\$ 399.25
A2W0511	2020 Ford F150	Pickup	10993	18	611	Belfair	\$ 4.17	\$ 2,547	2023 Ford F150 Lightning	68	49	5,386.6	\$ 0.0891	\$ 479.94
A2W0512	2020 Ford F150	Pickup	3646	18	203	Dallesport	\$ 4.17	\$ 845	2023 Ford F150 Lightning	68	49	1,786.5	\$ 0.0710	\$ 126.84
A2W0513	2020 Ford F150	Pickup	16400	18	911	Ellensburg	\$ 4.17	\$ 3,799	2023 Ford F150 Lightning	68	49	8,036.0	\$ 0.0772	\$ 620.38

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A2W0514	2020 Ford F150	Pickup	14798	18	822	Dallesport	\$ 4.17	\$ 3,428	2023 Ford F150 Lightning	68	49	7,251.0	\$ 0.0710	\$ 514.82
A2W0515	2020 Ford F150	Pickup	4396	18	244	Ellensburg	\$ 4.17	\$ 1,018	2023 Ford F150 Lightning	68	49	2,154.0	\$ 0.0772	\$ 166.29
A2W0516	2020 Ford F150	Pickup	3679	18	204	Dallesport	\$ 4.17	\$ 852	2023 Ford F150 Lightning	68	49	1,802.7	\$ 0.0710	\$ 127.99
A2W0517	2020 Ford F150	Pickup	11067	18	615	Excluded	\$ 4.17	\$ 2,564	2023 Ford F150 Lightning	68	49	5,422.8	-	-
A2W0518	2020 Ford F150	Pickup	1007	18	56	Excluded	\$ 4.17	\$ 233	2023 Ford F150 Lightning	68	49	493.4	-	-
A2W0519	2020 Ford F150	Pickup	15098	18	839	Excluded	\$ 4.17	\$ 3,498	2023 Ford F150 Lightning	68	49	7,398.0	-	-
A2W0520	2020 Ford F150	Pickup	5910	18	328	Excluded	\$ 4.17	\$ 1,369	2023 Ford F150 Lightning	68	49	2,895.9	-	-
A2W0521	2020 Ford F150	Pickup	4210	18	234	Excluded	\$ 4.17	\$ 975	2023 Ford F150 Lightning	68	49	2,062.9	-	-
A2W0522	2020 Ford F150	Pickup	2759	18	153	Tumwater Compound	\$ 4.17	\$ 639	2023 Ford F150 Lightning	68	49	1,351.9	\$ 0.0993	\$ 134.22
A2W0523	2020 Ford F150	Pickup	4485	18	249	Excluded	\$ 4.17	\$ 1,039	2023 Ford F150 Lightning	68	49	2,197.7	-	-
A2W0524	2020 Ford F150	Pickup	4881	18	271	North Bend	\$ 4.17	\$ 1,131	2023 Ford F150 Lightning	68	49	2,391.7	\$ 0.1260	\$ 301.41
A2W0525	2020 Ford F150	Pickup	17880	18	993	Loomis Highlands	\$ 4.17	\$ 4,142	2023 Ford F150 Lightning	68	49	8,761.2	\$ 0.0641	\$ 561.59
A2W0526	2020 Ford F150	Pickup	8607	18	478	Loomis Highlands	\$ 4.17	\$ 1,994	2023 Ford F150 Lightning	68	49	4,217.4	\$ 0.0641	\$ 270.34
A2W0527	2020 Ford F150	Pickup	15372	18	854	Colville	\$ 4.17	\$ 3,561	2023 Ford F150 Lightning	68	49	7,532.3	\$ 0.1082	\$ 814.99
A2W0528	2020 Ford F150	Pickup	19074	18	1,060	Forks - Oly Camp	\$ 4.17	\$ 4,419	2023 Ford F150 Lightning	68	49	9,346.3	\$ 0.0640	\$ 598.16
A2W0529	2020 Ford F150	Pickup	10844	18	602	Forks - Oly HQ	\$ 4.17	\$ 2,512	2023 Ford F150 Lightning	68	49	5,313.6	\$ 0.0642	\$ 341.13
A2W0530	2020 Ford F150	Pickup	16216	18	901	Menlo	\$ 4.17	\$ 3,757	2023 Ford F150 Lightning	68	49	7,945.8	\$ 0.0687	\$ 545.88
A2W0531	2020 Ford F150	Pickup	1417	18	79	North Bend	\$ 4.17	\$ 328	2023 Ford F150 Lightning	68	49	694.3	\$ 0.1260	\$ 87.50
A2W0532	2020 Ford F150	Pickup	500	18	28	Enumclaw	\$ 4.17	\$ 116	2023 Ford F150 Lightning	68	49	245.0	\$ 0.1260	\$ 30.88
A2W0533	2020 Ford F150	Pickup	7291	18	405	Ellensburg	\$ 4.17	\$ 1,689	2023 Ford F150 Lightning	68	49	3,572.6	\$ 0.0772	\$ 275.80
A2W0534	2020 Ford F150	Pickup	12158	18	675	Deer Park	\$ 4.17	\$ 2,817	2023 Ford F150 Lightning	68	49	5,957.4	\$ 0.1239	\$ 737.83
A2W0535	2020 Ford F150	Pickup	7256	18	403	Tumwater - Greenhouse	\$ 4.17	\$ 1,681	2023 Ford F150 Lightning	68	49	3,555.4	\$ 0.0993	\$ 352.99
A2W0536	2020 Ford F150	Pickup	11683	18	649	Ellensburg	\$ 4.17	\$ 2,707	2023 Ford F150 Lightning	68	49	5,724.7	\$ 0.0772	\$ 441.94
A2W0537	2020 Ford F150	Pickup	5985	18	333	Excluded	\$ 4.17	\$ 1,387	2023 Ford F150 Lightning	68	49	2,932.7	-	-
A2W0538	2020 Ford F150	Pickup	6391	18	355	Ellensburg	\$ 4.17	\$ 1,481	2023 Ford F150 Lightning	68	49	3,131.6	\$ 0.0772	\$ 241.76
A2W0539	2020 Ford F150	Pickup	16338	18	908	Ellensburg	\$ 4.17	\$ 3,785	2023 Ford F150 Lightning	68	49	8,005.6	\$ 0.0772	\$ 618.03
A2W0540	2020 Ford F150	Pickup	11059	18	614	Ellensburg	\$ 4.17	\$ 2,562	2023 Ford F150 Lightning	68	49	5,418.9	\$ 0.0772	\$ 418.34
A2W0541	2020 Ford F150	Pickup	10207	18	567	Ellensburg	\$ 4.17	\$ 2,365	2023 Ford F150 Lightning	68	49	5,001.4	\$ 0.0772	\$ 386.11
A2W0542	2020 Ford F150	Pickup	15905	18	884	Sedro Woolley	\$ 4.17	\$ 3,685	2023 Ford F150 Lightning	68	49	7,793.5	\$ 0.0993	\$ 773.74
A2W0543	2020 Ford F150	Pickup	4081	18	227	Excluded	\$ 4.17	\$ 945	2023 Ford F150 Lightning	68	49	1,999.7	-	-
A2W0544	2020 Ford F150	Pickup	8887	18	494	Excluded	\$ 4.17	\$ 2,059	2023 Ford F150 Lightning	68	49	4,354.6	-	-
A2W0545	2020 Ford F150	Pickup	17164	18	954	Tumwater Compound	\$ 4.17	\$ 3,976	2023 Ford F150 Lightning	68	49	8,410.4	\$ 0.0993	\$ 834.98
A2W0546	2021 Ford F150	Pickup	4380	18	243	Colville	\$ 4.17	\$ 1,015	2023 Ford F150 Lightning	68	49	2,146.2	\$ 0.1082	\$ 232.22
A2W0547	2021 Ford F150	Pickup	11589	18	644	Excluded	\$ 4.17	\$ 2,685	2023 Ford F150 Lightning	68	49	5,678.6	-	-
A2W0548	2021 Ford F150	Pickup	6884	18	382	Excluded	\$ 4.17	\$ 1,595	2023 Ford F150 Lightning	68	49	3,373.2	-	-
A2W0549	2021 Ford F150	Pickup	12433	18	691	Sedro Woolley	\$ 4.17	\$ 2,880	2023 Ford F150 Lightning	68	49	6,092.2	\$ 0.0993	\$ 604.83
A2W0550	2021 Ford F150	Pickup	5916	18	329	Castle Rock	\$ 4.17	\$ 1,371	2023 Ford F150 Lightning	68	49	2,898.8	\$ 0.0871	\$ 252.49
A2W0551	2021 Ford F150	Pickup	10698	18	594	Castle Rock	\$ 4.17	\$ 2,478	2023 Ford F150 Lightning	68	49	5,242.0	\$ 0.0871	\$ 456.58
A2W0552	2021 Ford F150	Pickup	5566	18	309	Enumclaw	\$ 4.17	\$ 1,289	2023 Ford F150 Lightning	68	49	2,727.3	\$ 0.1260	\$ 343.70
A2W0553	2021 Ford F150	Pickup	16746	18	930	Enumclaw	\$ 4.17	\$ 3,879	2023 Ford F150 Lightning	68	49	8,205.5	\$ 0.1260	\$ 1,034.08
A2W0554	2021 Ford F150	Pickup	19073	18	1,060	Excluded	\$ 4.17	\$ 4,419	2023 Ford F150 Lightning	68	49	9,345.8	-	-
A2W0555	2021 Ford F150	Pickup	16071	18	893	Tumwater - Greenhouse	\$ 4.17	\$ 3,723	2023 Ford F150 Lightning	68	49	7,874.8	\$ 0.0993	\$ 781.81
A2W0556	2021 Ford F150	Pickup	11559	18	642	Excluded	\$ 4.17	\$ 2,678	2023 Ford F150 Lightning	68	49	5,663.9	-	-
A2W0557	2021 Ford F150	Pickup	13832	18	768	Colville	\$ 4.17	\$ 3,204	2023 Ford F150 Lightning	68	49	6,777.7	\$ 0.1082	\$ 733.34
A2W0558	2021 Ford F150	Pickup	24830	18	1,379	Deer Park	\$ 4.17	\$ 5,752	2023 Ford F150 Lightning	68	49	12,166.7	\$ 0.1239	\$ 1,506.85
A2W0559	2021 Ford F150	Pickup	20271	18	1,126	Colville	\$ 4.17	\$ 4,696	2023 Ford F150 Lightning	68	49	9,932.8	\$ 0.1082	\$ 1,074.73
A2W0560	2021 Ford F150	Pickup	21068	18	1,170	Colville	\$ 4.17	\$ 4,881	2023 Ford F150 Lightning	68	49	10,323.3	\$ 0.1082	\$ 1,116.98
A2W0561	2021 Ford F150	Pickup	4688	18	260	Colville	\$ 4.17	\$ 1,086	2023 Ford F150 Lightning	68	49	2,297.1	\$ 0.1082	\$ 248.55
A2W0562	2021 Ford F150	Pickup	4657	18	259	Sedro Woolley	\$ 4.17	\$ 1,079	2023 Ford F150 Lightning	68	49	2,281.9	\$ 0.0993	\$ 226.55
A2W0563	2021 Ford F150	Pickup	7460	18	414	Sedro Woolley	\$ 4.17	\$ 1,728	2023 Ford F150 Lightning	68	49	3,655.4	\$ 0.0993	\$ 362.91
A2W0564	2021 Ford F150	Pickup	8903	18	495	Forks - Oly HQ	\$ 4.17	\$ 2,063	2023 Ford F150 Lightning	68	49	4,362.5	\$ 0.0642	\$ 280.07

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A2W0565	2021 Ford F150	Pickup	12591	18	700	Port Angeles	\$ 4.17	\$ 2,917	2023 Ford F150 Lightning	68	49	6,169.6	\$ 0.0642	\$ 396.09
A2W0566	2021 Ford F150	Pickup	5680	18	316	Forks - Oly HQ	\$ 4.17	\$ 1,316	2023 Ford F150 Lightning	68	49	2,783.2	\$ 0.0642	\$ 178.68
A2W0567	2021 Ford F150	Pickup	12959	18	720	Naselle	\$ 4.17	\$ 3,002	2023 Ford F150 Lightning	68	49	6,349.9	\$ 0.0687	\$ 436.24
A2W0568	2021 Ford F150	Pickup	12589	18	699	Battle Ground	\$ 4.17	\$ 2,916	2023 Ford F150 Lightning	68	49	6,168.6	\$ 0.0833	\$ 513.85
A2W0569	2021 Ford F150	Pickup	20806	18	1,156	Castle Rock	\$ 4.17	\$ 4,820	2023 Ford F150 Lightning	68	49	10,194.9	\$ 0.0871	\$ 887.98
A2W0570	2021 Ford F150	Pickup	16220	18	901	Chehalis	\$ 4.17	\$ 3,758	2023 Ford F150 Lightning	68	49	7,947.8	\$ 0.0682	\$ 541.96
A2W0571	2021 Ford F150	Pickup	16707	18	928	Chehalis	\$ 4.17	\$ 3,870	2023 Ford F150 Lightning	68	49	8,186.4	\$ 0.0682	\$ 558.23
A2W0572	2021 Ford F150	Pickup	7667	18	426	Belfair	\$ 4.17	\$ 1,776	2023 Ford F150 Lightning	68	49	3,756.8	\$ 0.0891	\$ 334.73
A2W0573	2021 Ford F150	Pickup	8122	18	451	Littlerock	\$ 4.17	\$ 1,882	2023 Ford F150 Lightning	68	49	3,979.8	\$ 0.0993	\$ 395.11
A2W0574	2021 Ford F150	Pickup	22514	18	1,251	Chehalis	\$ 4.17	\$ 5,216	2023 Ford F150 Lightning	68	49	11,031.9	\$ 0.0682	\$ 752.26
A2W0575	2021 Ford F150	Pickup	13210	18	734	Tumwater Compound	\$ 4.17	\$ 3,060	2023 Ford F150 Lightning	68	49	6,472.9	\$ 0.0993	\$ 642.63
A2W0576	2021 Ford F150	Pickup	11653	18	647	Dallesport	\$ 4.17	\$ 2,700	2023 Ford F150 Lightning	68	49	5,710.0	\$ 0.0710	\$ 405.41
A2W0577	2021 Ford F150	Pickup	3604	18	200	Sedro Woolley	\$ 4.17	\$ 835	2023 Ford F150 Lightning	68	49	1,766.0	\$ 0.0993	\$ 175.33
A2W0578	2021 Ford F150	Pickup	7015	18	390	Excluded	\$ 4.17	\$ 1,625	2023 Ford F150 Lightning	68	49	3,437.4	-	-
A2W0579	2021 Ford F150	Pickup	6533	18	363	Excluded	\$ 4.17	\$ 1,513	2023 Ford F150 Lightning	68	49	3,201.2	-	-
A2W0580	2021 Ford F150	Pickup	11649	18	647	Excluded	\$ 4.17	\$ 2,699	2023 Ford F150 Lightning	68	49	5,708.0	-	-
A2W0581	2021 Ford F150	Pickup	10430	18	579	Ellensburg	\$ 4.17	\$ 2,416	2023 Ford F150 Lightning	68	49	5,110.7	\$ 0.0772	\$ 394.55
A2W0582	2021 Ford F150	Pickup	21594	18	1,200	Tumwater Compound	\$ 4.17	\$ 5,003	2023 Ford F150 Lightning	68	49	10,581.1	\$ 0.0993	\$ 1,050.49
A2W0583	2021 Ford F150	Pickup	19112	18	1,062	Forks - Oly HQ	\$ 4.17	\$ 4,428	2023 Ford F150 Lightning	68	49	9,364.9	\$ 0.0642	\$ 601.23
A2W0584	2021 Ford F150	Pickup	9465	18	526	Excluded	\$ 4.17	\$ 2,193	2023 Ford F150 Lightning	68	49	4,637.9	-	-
A2W0585	2021 Ford F150	Pickup	9385	18	521	Excluded	\$ 4.17	\$ 2,174	2023 Ford F150 Lightning	68	49	4,598.7	-	-
A2W0586	2021 Ford F150	Pickup	2831	18	157	Sedro Woolley	\$ 4.17	\$ 656	2023 Ford F150 Lightning	68	49	1,387.2	\$ 0.0993	\$ 137.72
A2W0587	2021 Ford F150	Pickup	14130	18	785	Ellensburg	\$ 4.17	\$ 3,273	2023 Ford F150 Lightning	68	49	6,923.7	\$ 0.0772	\$ 534.51
A2W0588	2021 Ford F150	Pickup	13184	18	732	Enumclaw	\$ 4.17	\$ 3,054	2023 Ford F150 Lightning	68	49	6,460.2	\$ 0.1260	\$ 814.12
A2W0589	2021 Ford F150	Pickup	9710	18	539	Excluded	\$ 4.17	\$ 2,249	2023 Ford F150 Lightning	68	49	4,757.9	-	-
A2W0590	2021 Ford F150	Pickup	7213	18	401	Sedro Woolley	\$ 4.17	\$ 1,671	2023 Ford F150 Lightning	68	49	3,534.4	\$ 0.0993	\$ 350.89
A2W0591	2021 Ford F150	Pickup	9285	18	516	Ellensburg	\$ 4.17	\$ 2,151	2023 Ford F150 Lightning	68	49	4,549.7	\$ 0.0772	\$ 351.23
A2W0592	2021 Ford F150	Pickup	5970	18	332	Enumclaw	\$ 4.17	\$ 1,383	2023 Ford F150 Lightning	68	49	2,925.3	\$ 0.1260	\$ 368.65
A2W0593	2021 Ford F150	Pickup	11230	18	624	Excluded	\$ 4.17	\$ 2,602	2023 Ford F150 Lightning	68	49	5,502.7	-	-
A2W0594	2021 Ford F150	Pickup	19922	18	1,107	Enumclaw	\$ 4.17	\$ 4,615	2023 Ford F150 Lightning	68	49	9,761.8	\$ 0.1260	\$ 1,230.20
A2W0595	2021 Ford F150	Pickup	10423	18	579	Excluded	\$ 4.17	\$ 2,415	2023 Ford F150 Lightning	68	49	5,107.3	-	-
A2W0596	2021 Ford F150	Pickup	1058	18	59	Excluded	\$ 4.17	\$ 245	2023 Ford F150 Lightning	68	49	518.4	-	-
A2W0597	2021 Ford F150	Pickup	2461	18	137	Excluded	\$ 4.17	\$ 570	2023 Ford F150 Lightning	68	49	1,205.9	-	-
A2W0598	2021 Ford F150	Pickup	10110	18	562	Castle Rock	\$ 4.17	\$ 2,342	2023 Ford F150 Lightning	68	49	4,953.9	\$ 0.0871	\$ 431.48
A2W0599	2021 Ford F150	Pickup	6309	18	351	Enumclaw	\$ 4.17	\$ 1,462	2023 Ford F150 Lightning	68	49	3,091.4	\$ 0.1260	\$ 389.59
A2W0600	2021 Ford F150	Pickup	9816	18	545	Colville	\$ 4.17	\$ 2,274	2023 Ford F150 Lightning	68	49	4,809.8	\$ 0.1082	\$ 520.42
A2W0601	2021 Ford F150	Pickup	13420	18	746	Loomis Highlands	\$ 4.17	\$ 3,109	2023 Ford F150 Lightning	68	49	6,575.8	\$ 0.0641	\$ 421.51
A2W0602	2021 Ford F150	Pickup	5692	18	316	Tumwater Compound	\$ 4.17	\$ 1,319	2023 Ford F150 Lightning	68	49	2,789.1	\$ 0.0993	\$ 276.90
A2W0603	2021 Ford F150	Pickup	11777	18	654	Chehalis	\$ 4.17	\$ 2,728	2023 Ford F150 Lightning	68	49	5,770.7	\$ 0.0682	\$ 393.51
A2W0604	2021 Ford F150	Pickup	22741	18	1,263	Tumwater Compound	\$ 4.17	\$ 5,268	2023 Ford F150 Lightning	68	49	11,143.1	\$ 0.0993	\$ 1,106.29
A2W0605	2021 Ford F150	Pickup	9444	18	525	Colville	\$ 4.17	\$ 2,188	2023 Ford F150 Lightning	68	49	4,627.6	\$ 0.1082	\$ 500.70
A2W0606	2021 Ford F150	Pickup	8893	18	494	Excluded	\$ 4.17	\$ 2,060	2023 Ford F150 Lightning	68	49	4,357.6	-	-
A2W0607	2021 Ford F150	Pickup	8877	18	493	Battle Ground	\$ 4.17	\$ 2,057	2023 Ford F150 Lightning	68	49	4,349.7	\$ 0.0833	\$ 362.33
A2W0608	2021 Ford F150	Pickup	7936	18	441	Excluded	\$ 4.17	\$ 1,839	2023 Ford F150 Lightning	68	49	3,888.6	-	-
A2W0609	2021 Ford F150	Pickup	9235	18	513	Excluded	\$ 4.17	\$ 2,139	2023 Ford F150 Lightning	68	49	4,525.2	-	-
A2W0610	2021 Ford F150	Pickup	14447	18	803	Colville	\$ 4.17	\$ 3,347	2023 Ford F150 Lightning	68	49	7,079.0	\$ 0.1082	\$ 765.95
A2W0611	2021 Ford F150	Pickup	7000	18	389	Forks - Oly HQ	\$ 4.17	\$ 1,622	2023 Ford F150 Lightning	68	49	3,430.0	\$ 0.0642	\$ 220.21
A2W0612	2021 Ford F150	Pickup	12529	18	696	Excluded	\$ 4.17	\$ 2,903	2023 Ford F150 Lightning	68	49	6,139.2	-	-
A2W0613	2021 Ford F150	Pickup	6365	18	354	Excluded	\$ 4.17	\$ 1,475	2023 Ford F150 Lightning	68	49	3,118.9	-	-
A2W0614	2021 Ford F150	Pickup	12904	18	717	Sedro Woolley	\$ 4.17	\$ 2,989	2023 Ford F150 Lightning	68	49	6,323.0	\$ 0.0993	\$ 627.75
A2W0615	2021 Ford F150	Pickup	15398	18	855	Excluded	\$ 4.17	\$ 3,567	2023 Ford F150 Lightning	68	49	7,545.0	-	-

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0616	2021 Ford F150	Pickup	19825	18	1,101	Granite Falls	\$ 4.17	\$ 4,593	2023 Ford F150 Lightning	68	49	9,714.3	\$ 0.0900	\$ 874.28
A2W0617	2021 Ford F150	Pickup	10216	18	568	Ellensburg	\$ 4.17	\$ 2,367	2023 Ford F150 Lightning	68	49	5,005.8	\$ 0.0772	\$ 386.45
A2W0618	2021 Ford F150	Pickup	18011	18	1,001	Ahtanum	\$ 4.17	\$ 4,173	2023 Ford F150 Lightning	68	49	8,825.4	\$ 0.0839	\$ 740.45
A2W0619	2021 Ford F150	Pickup	7659	18	426	Dallesport	\$ 4.17	\$ 1,774	2023 Ford F150 Lightning	68	49	3,752.9	\$ 0.0710	\$ 266.46
A2W0620	2021 Ford F150	Pickup	7187	18	399	Naches	\$ 4.17	\$ 1,665	2023 Ford F150 Lightning	68	49	3,521.6	\$ 0.0839	\$ 295.46
A2W0621	2021 Ford F150	Pickup	2989	18	166	Ellensburg	\$ 4.17	\$ 692	2023 Ford F150 Lightning	68	49	1,464.6	\$ 0.0772	\$ 113.07
A2W0622	2021 Ford F150	Pickup	7771	18	432	Ellensburg	\$ 4.17	\$ 1,800	2023 Ford F150 Lightning	68	49	3,807.8	\$ 0.0772	\$ 293.96
A2W0623	2021 Ford F150	Pickup	6342	18	352	Ellensburg	\$ 4.17	\$ 1,469	2023 Ford F150 Lightning	68	49	3,107.6	\$ 0.0772	\$ 239.91
A2W0624	2021 Ford F150	Pickup	12826	18	713	Tumwater Compound	\$ 4.17	\$ 2,971	2023 Ford F150 Lightning	68	49	6,284.7	\$ 0.0993	\$ 623.95
A2W0625	2021 Ford F150	Pickup	9874	18	549	Enumclaw	\$ 4.17	\$ 2,287	2023 Ford F150 Lightning	68	49	4,838.3	\$ 0.1260	\$ 609.73
A2W0626	2021 Ford F150	Pickup	17002	18	945	Belfair	\$ 4.17	\$ 3,939	2023 Ford F150 Lightning	68	49	8,331.0	\$ 0.0891	\$ 742.29
A2W0627	2021 Ford F150	Pickup	15989	18	888	Enumclaw	\$ 4.17	\$ 3,704	2023 Ford F150 Lightning	68	49	7,834.6	\$ 0.1260	\$ 987.33
A2W0628	2021 Ford F150	Pickup	3504	18	195	Enumclaw	\$ 4.17	\$ 812	2023 Ford F150 Lightning	68	49	1,717.0	\$ 0.1260	\$ 216.37
A2W0629	2021 Ford F150	Pickup	12478	18	693	Battle Ground	\$ 4.17	\$ 2,891	2023 Ford F150 Lightning	68	49	6,114.2	\$ 0.0833	\$ 509.31
A2W0630	2021 Ford F150	Pickup	19127	18	1,063	Excluded	\$ 4.17	\$ 4,431	2023 Ford F150 Lightning	68	49	9,372.2	\$ -	\$ -
A2W0631	2021 Ford F150	Pickup	4023	18	224	Ellensburg	\$ 4.17	\$ 932	2023 Ford F150 Lightning	68	49	1,971.3	\$ 0.0772	\$ 152.18
A2W0632	2021 Ford F150	Pickup	5790	18	322	Forks - Oly HQ	\$ 4.17	\$ 1,341	2023 Ford F150 Lightning	68	49	2,837.1	\$ 0.0642	\$ 182.14
A2W0633	2021 Ford F150	Pickup	20197	18	1,122	Forks - Oly HQ	\$ 4.17	\$ 4,679	2023 Ford F150 Lightning	68	49	9,896.5	\$ 0.0642	\$ 635.36
A2W0634	2021 Ford F150	Pickup	6564	18	365	Chimacum	\$ 4.17	\$ 1,521	2023 Ford F150 Lightning	68	49	3,216.4	\$ 0.1082	\$ 348.01
A2W0635	2021 Ford F150	Pickup	14528	18	807	Battle Ground	\$ 4.17	\$ 3,366	2023 Ford F150 Lightning	68	49	7,118.7	\$ 0.0833	\$ 592.99
A2W0636	2021 Ford F150	Pickup	11922	18	662	Naselle	\$ 4.17	\$ 2,762	2023 Ford F150 Lightning	68	49	5,841.8	\$ 0.0687	\$ 401.33
A2W0637	2021 Ford F150	Pickup	6296	18	350	Castle Rock	\$ 4.17	\$ 1,459	2023 Ford F150 Lightning	68	49	3,085.0	\$ 0.0871	\$ 268.71
A2W0638	2021 Ford F150	Pickup	6106	18	339	Ellensburg	\$ 4.17	\$ 1,415	2023 Ford F150 Lightning	68	49	2,991.9	\$ 0.0772	\$ 230.98
A2W0639	2021 Ford F150	Pickup	10820	18	601	Tumwater Compound	\$ 4.17	\$ 2,507	2023 Ford F150 Lightning	68	49	5,301.8	\$ 0.0993	\$ 526.37
A2W0640	2021 Ford F150	Pickup	10791	18	600	Battle Ground	\$ 4.17	\$ 2,500	2023 Ford F150 Lightning	68	49	5,287.6	\$ 0.0833	\$ 440.46
A2W0641	2021 Ford F150	Pickup	14668	18	815	Chehalis	\$ 4.17	\$ 3,398	2023 Ford F150 Lightning	68	49	7,187.3	\$ 0.0682	\$ 490.10
A2W0642	2021 Ford F150	Pickup	7863	18	437	Castle Rock	\$ 4.17	\$ 1,822	2023 Ford F150 Lightning	68	49	3,852.9	\$ 0.0871	\$ 335.58
A2W0643	2021 Ford F150	Pickup	9727	18	540	Castle Rock	\$ 4.17	\$ 2,253	2023 Ford F150 Lightning	68	49	4,766.2	\$ 0.0871	\$ 415.14
A2W0644	2021 Ford F150	Pickup	17831	18	991	Battle Ground	\$ 4.17	\$ 4,131	2023 Ford F150 Lightning	68	49	8,737.2	\$ 0.0833	\$ 727.81
A2W0645	2021 Ford F150	Pickup	18397	18	1,022	Colville	\$ 4.17	\$ 4,262	2023 Ford F150 Lightning	68	49	9,014.5	\$ 0.1082	\$ 975.37
A2W0646	2021 Ford F150	Pickup	17051	18	947	Deer Park	\$ 4.17	\$ 3,950	2023 Ford F150 Lightning	68	49	8,355.0	\$ 0.1239	\$ 1,034.77
A2W0647	2021 Ford F150	Pickup	15248	18	847	Deer Park	\$ 4.17	\$ 3,532	2023 Ford F150 Lightning	68	49	7,471.5	\$ 0.1239	\$ 925.35
A2W0648	2021 Ford F150	Pickup	16698	18	928	Colville	\$ 4.17	\$ 3,868	2023 Ford F150 Lightning	68	49	8,182.0	\$ 0.1082	\$ 885.29
A2W0649	2021 Ford F150	Pickup	15287	18	849	Deer Park	\$ 4.17	\$ 3,541	2023 Ford F150 Lightning	68	49	7,490.6	\$ 0.1239	\$ 927.71
A2W0650	2021 Ford F150	Pickup	21441	18	1,191	Loomis Highlands	\$ 4.17	\$ 4,967	2023 Ford F150 Lightning	68	49	10,506.1	\$ 0.0641	\$ 673.44
A2W0651	2021 Ford F150	Pickup	14166	18	787	Tumwater - Greenhouse	\$ 4.17	\$ 3,282	2023 Ford F150 Lightning	68	49	6,941.3	\$ 0.0993	\$ 689.14
A2W0652	2021 Ford F150	Pickup	9901	18	550	Ellensburg	\$ 4.17	\$ 2,294	2023 Ford F150 Lightning	68	49	4,851.5	\$ 0.0772	\$ 374.54
A2W0653	2021 Ford F150	Pickup	10881	18	605	North Bend	\$ 4.17	\$ 2,521	2023 Ford F150 Lightning	68	49	5,331.7	\$ 0.1260	\$ 671.91
A2W0654	2021 Ford F150	Pickup	6863	18	381	Sedro Woolley	\$ 4.17	\$ 1,590	2023 Ford F150 Lightning	68	49	3,362.9	\$ 0.0993	\$ 333.87
A2W0655	2021 Ford F150	Pickup	16757	18	931	Belfair	\$ 4.17	\$ 3,882	2023 Ford F150 Lightning	68	49	8,210.9	\$ 0.0891	\$ 731.59
A2W0656	2021 Ford F150	Pickup	5694	18	316	Enumclaw	\$ 4.17	\$ 1,319	2023 Ford F150 Lightning	68	49	2,790.1	\$ 0.1260	\$ 351.61
A2W0657	2021 Ford F150	Pickup	3637	18	202	Enumclaw	\$ 4.17	\$ 843	2023 Ford F150 Lightning	68	49	1,782.1	\$ 0.1260	\$ 224.59
A2W0658	2021 Ford F150	Pickup	3548	18	197	Castle Rock	\$ 4.17	\$ 822	2023 Ford F150 Lightning	68	49	1,738.5	\$ 0.0871	\$ 151.43
A2W0659	2021 Ford F150	Pickup	12262	18	681	Castle Rock	\$ 4.17	\$ 2,841	2023 Ford F150 Lightning	68	49	6,008.4	\$ 0.0871	\$ 523.33
A2W0660	2021 Ford F150	Pickup	8307	18	462	Excluded	\$ 4.17	\$ 1,924	2023 Ford F150 Lightning	68	49	4,070.4	\$ -	\$ -
A2W0661	2021 Ford F150	Pickup	7254	18	403	Excluded	\$ 4.17	\$ 1,681	2023 Ford F150 Lightning	68	49	3,554.5	\$ -	\$ -
A2W0662	2021 Ford F150	Pickup	15673	18	871	Battle Ground	\$ 4.17	\$ 3,631	2023 Ford F150 Lightning	68	49	7,679.8	\$ 0.0833	\$ 639.72
A2W0663	2021 Ford F150	Pickup	7498	18	417	Excluded	\$ 4.17	\$ 1,737	2023 Ford F150 Lightning	68	49	3,674.0	\$ -	\$ -
A2W0664	2021 Ford F150	Pickup	7389	18	411	Excluded	\$ 4.17	\$ 1,712	2023 Ford F150 Lightning	68	49	3,620.6	\$ -	\$ -
A2W0665	2023 Ford F150	Pickup	1187	18	66	Tumwater Compound	\$ 4.17	\$ 275	2023 Ford F150 Lightning	68	49	581.6	\$ 0.0993	\$ 57.74
A2W0666	2023 Ford F150	Pickup	1942	18	108	Chehalis	\$ 4.17	\$ 450	2023 Ford F150 Lightning	68	49	951.6	\$ 0.0682	\$ 64.89

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0667	2023 Ford F150	Pickup	4011	18	223	Excluded	\$ 4.17	\$ 929	2023 Ford F150 Lightning	68	49	1,965.4	\$ -	\$ -
A2W0668	2023 Ford F150	Pickup	8894	18	494	Forks - Oly HQ	\$ 4.17	\$ 2,060	2023 Ford F150 Lightning	68	49	4,358.1	\$ 0.0642	\$ 279.79
A2W0669	2023 Ford F150	Pickup	6208	18	345	Forks - Oly HQ	\$ 4.17	\$ 1,438	2023 Ford F150 Lightning	68	49	3,041.9	\$ 0.0642	\$ 195.29
A2W0670	2023 Ford F150	Pickup	1783	18	99	Forks - Oly HQ	\$ 4.17	\$ 413	2023 Ford F150 Lightning	68	49	873.7	\$ 0.0642	\$ 56.09
A2W0671	2023 Ford F150	Pickup	446	18	25	Ellensburg	\$ 4.17	\$ 103	2023 Ford F150 Lightning	68	49	218.5	\$ 0.0772	\$ 16.87
A2W0672	2023 Ford F150	Pickup	1169	18	65	Ellensburg	\$ 4.17	\$ 271	2023 Ford F150 Lightning	68	49	572.8	\$ 0.0772	\$ 44.22
A2W0673	2023 Ford F150	Pickup	3274	18	182	Castle Rock	\$ 4.17	\$ 758	2023 Ford F150 Lightning	68	49	1,604.3	\$ 0.0871	\$ 139.73
A2W0674	2023 Ford F150	Pickup	109	18	6	Tumwater Compound	\$ 4.17	\$ 25	2023 Ford F150 Lightning	68	49	53.4	\$ 0.0993	\$ 5.30
A2W0675	2023 Ford F150	Pickup	86	18	5	Tumwater Compound	\$ 4.17	\$ 20	2023 Ford F150 Lightning	68	49	42.1	\$ 0.0993	\$ 4.18
A2W0676	2023 Ford F150	Pickup	173	18	10	Tumwater Compound	\$ 4.17	\$ 40	2023 Ford F150 Lightning	68	49	84.8	\$ 0.0993	\$ 8.42
A2W0677	2023 Ford F150	Pickup	119	18	7	Tumwater Compound	\$ 4.17	\$ 28	2023 Ford F150 Lightning	68	49	58.3	\$ 0.0993	\$ 5.79
A2W0678	2023 Ford F150	Pickup	4336	18	241	Castle Rock	\$ 4.17	\$ 1,005	2023 Ford F150 Lightning	68	49	2,124.6	\$ 0.0871	\$ 185.06
A2W0679	2023 Ford F150	Pickup	4518	18	251	Belfair	\$ 4.17	\$ 1,047	2023 Ford F150 Lightning	68	49	2,213.8	\$ 0.0891	\$ 197.25
A2W0680	2023 Ford F150	Pickup	706	18	39	Tumwater Compound	\$ 4.17	\$ 164	2023 Ford F150 Lightning	68	49	345.9	\$ 0.0993	\$ 34.35
A2W0681	2023 Ford F150	Pickup	2254	18	125	Excluded	\$ 4.17	\$ 522	2023 Ford F150 Lightning	68	49	1,104.5	\$ -	\$ -
A2W0682	2023 Ford F150	Pickup	1854	18	103	Sedro Woolley	\$ 4.17	\$ 430	2023 Ford F150 Lightning	68	49	908.5	\$ 0.0993	\$ 90.19
A2W0683	2023 Ford F150	Pickup	2909	18	162	Loomis Highlands	\$ 4.17	\$ 674	2023 Ford F150 Lightning	68	49	1,425.4	\$ 0.0641	\$ 91.37
A2W0684	2023 Ford F150	Pickup	7563	18	420	Colville	\$ 4.17	\$ 1,752	2023 Ford F150 Lightning	68	49	3,705.9	\$ 0.1082	\$ 400.98
A2W0685	2023 Ford F150	Pickup	7773	18	432	Colville	\$ 4.17	\$ 1,801	2023 Ford F150 Lightning	68	49	3,808.8	\$ 0.1082	\$ 412.11
A2W0686	2023 Ford F150	Pickup	12756	18	709	Colville	\$ 4.17	\$ 2,955	2023 Ford F150 Lightning	68	49	6,250.4	\$ 0.1082	\$ 676.30
A2W0687	2023 Ford F150	Pickup	8417	18	468	Colville	\$ 4.17	\$ 1,950	2023 Ford F150 Lightning	68	49	4,124.3	\$ 0.1082	\$ 446.25
A2W0688	2023 Ford F150	Pickup	2901	18	161	Excluded	\$ 4.17	\$ 672	2023 Ford F150 Lightning	68	49	1,421.5	\$ -	\$ -
A2W0689	2023 Ford F150	Pickup	3853	18	214	Loomis Highlands	\$ 4.17	\$ 893	2023 Ford F150 Lightning	68	49	1,888.0	\$ 0.0641	\$ 121.02
A2W0690	2023 Ford F150	Pickup	117	18	7	Tumwater - DNR Hangar	\$ 4.17	\$ 27	2023 Ford F150 Lightning	68	49	57.3	\$ 0.0993	\$ 5.69
A2W0691	2023 Ford F150	Pickup	72	18	4	Tumwater - DNR Hangar	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.3	\$ 0.0993	\$ 3.50
A2W0692	2023 Ford F150	Pickup	4822	18	268	Excluded	\$ 4.17	\$ 1,117	2023 Ford F150 Lightning	68	49	2,362.8	\$ -	\$ -
A2W0693	2023 Ford F150	Pickup	6238	18	347	Enumclaw	\$ 4.17	\$ 1,445	2023 Ford F150 Lightning	68	49	3,056.6	\$ 0.1260	\$ 385.20
A2W0694	2023 Ford F150	Pickup	74	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	36.3	\$ -	\$ -
A2W0695	2023 Ford F150	Pickup	77	18	4	Excluded	\$ 4.17	\$ 18	2023 Ford F150 Lightning	68	49	37.7	\$ -	\$ -
A2W0696	2023 Ford F150	Pickup	72	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.3	\$ -	\$ -
A2W0697	2023 Ford F150	Pickup	91	18	5	Excluded	\$ 4.17	\$ 21	2023 Ford F150 Lightning	68	49	44.6	\$ -	\$ -
A2W0698	2023 Ford F150	Pickup	73	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.8	\$ -	\$ -
A2W0699	2023 Ford F150	Pickup	75	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	36.8	\$ -	\$ -
A2W0700	2023 Ford F150	Pickup	2198	18	122	Enumclaw	\$ 4.17	\$ 509	2023 Ford F150 Lightning	68	49	1,077.0	\$ 0.1260	\$ 135.73
A2W0701	2023 Ford F150	Pickup	4513	18	251	Deer Park	\$ 4.17	\$ 1,046	2023 Ford F150 Lightning	68	49	2,211.4	\$ 0.1239	\$ 273.88
A2W0702	2023 Ford F150	Pickup	8549	18	475	Colville	\$ 4.17	\$ 1,981	2023 Ford F150 Lightning	68	49	4,189.0	\$ 0.1082	\$ 453.25
A2W0703	2023 Ford F150	Pickup	6786	18	377	Colville	\$ 4.17	\$ 1,572	2023 Ford F150 Lightning	68	49	3,325.1	\$ 0.1082	\$ 359.78
A2W0704	2023 Ford F150	Pickup	6818	18	379	Colville	\$ 4.17	\$ 1,580	2023 Ford F150 Lightning	68	49	3,340.8	\$ 0.1082	\$ 361.48
A2W0705	2023 Ford F150	Pickup	10828	18	602	Colville	\$ 4.17	\$ 2,508	2023 Ford F150 Lightning	68	49	5,305.7	\$ 0.1082	\$ 574.08
A2W0706	2023 Ford F150	Pickup	866	18	48	Tumwater Compound	\$ 4.17	\$ 201	2023 Ford F150 Lightning	68	49	424.3	\$ 0.0993	\$ 42.13
A2W0707	2023 Ford F150	Pickup	376	18	21	Excluded	\$ 4.17	\$ 87	2023 Ford F150 Lightning	68	49	184.2	\$ -	\$ -
A2W0708	2023 Ford F150	Pickup	2516	18	140	Excluded	\$ 4.17	\$ 583	2023 Ford F150 Lightning	68	49	1,232.8	\$ -	\$ -
A2W0709	2023 Ford F150	Pickup	209	18	12	North Bend	\$ 4.17	\$ 48	2023 Ford F150 Lightning	68	49	102.4	\$ 0.1260	\$ 12.91
A2W0710	2023 Ford F150	Pickup	4844	18	269	Excluded	\$ 4.17	\$ 1,122	2023 Ford F150 Lightning	68	49	2,373.6	\$ -	\$ -
A2W0711	2023 Ford F150	Pickup	2645	18	147	Colville	\$ 4.17	\$ 613	2023 Ford F150 Lightning	68	49	1,296.1	\$ 0.1082	\$ 140.23
A2W0712	2023 Ford F150	Pickup	8095	18	450	Ellensburg	\$ 4.17	\$ 1,875	2023 Ford F150 Lightning	68	49	3,966.6	\$ 0.0772	\$ 306.22
A2W0713	2023 Ford F150	Pickup	1998	18	111	Enumclaw	\$ 4.17	\$ 463	2023 Ford F150 Lightning	68	49	979.0	\$ 0.1260	\$ 123.38
A2W0714	2023 Ford F150	Pickup	1169	18	65	Castle Rock	\$ 4.17	\$ 271	2023 Ford F150 Lightning	68	49	572.8	\$ 0.0871	\$ 49.89
A2W0715	2023 Ford F150	Pickup	2430	18	135	Castle Rock	\$ 4.17	\$ 563	2023 Ford F150 Lightning	68	49	1,190.7	\$ 0.0871	\$ 103.71
A2W0716	2023 Ford F150	Pickup	71	18	4	Excluded	\$ 4.17	\$ 16	2023 Ford F150 Lightning	68	49	34.8	\$ -	\$ -
A2W0717	2023 Ford F150	Pickup	4	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.0	\$ -	\$ -

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W0718	2023 Ford F150	Pickup	4	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.0	\$ -	\$ -
A2W0719	2023 Ford F150	Pickup	19	18	1	Excluded	\$ 4.17	\$ 4	2023 Ford F150 Lightning	68	49	9.3	\$ -	\$ -
A2W0720	2023 Ford F150	Pickup	73	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.8	\$ -	\$ -
A2W0721	2023 Ford F150	Pickup	68	18	4	Excluded	\$ 4.17	\$ 16	2023 Ford F150 Lightning	68	49	33.3	\$ -	\$ -
A2W0722	2023 Ford F150	Pickup	73	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.8	\$ -	\$ -
A2W0723	2023 Ford F150	Pickup	141	18	8	Excluded	\$ 4.17	\$ 33	2023 Ford F150 Lightning	68	49	69.1	\$ -	\$ -
A2W0724	2023 Ford F150	Pickup	6	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.9	\$ -	\$ -
A2W0725	2023 Ford F150	Pickup	70	18	4	Excluded	\$ 4.17	\$ 16	2023 Ford F150 Lightning	68	49	34.3	\$ -	\$ -
A2W0726	2023 Ford F150	Pickup	75	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	36.8	\$ -	\$ -
A2W0727	2023 Ford F150	Pickup	75	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	36.8	\$ -	\$ -
A2W0728	2023 Ford F150	Pickup	7	18	0	Excluded	\$ 4.17	\$ 2	2023 Ford F150 Lightning	68	49	3.4	\$ -	\$ -
A2W0729	2023 Ford F150	Pickup	7	18	0	Excluded	\$ 4.17	\$ 2	2023 Ford F150 Lightning	68	49	3.4	\$ -	\$ -
A2W0730	2023 Ford F150	Pickup	118	18	7	Excluded	\$ 4.17	\$ 27	2023 Ford F150 Lightning	68	49	57.8	\$ -	\$ -
A2W0731	2023 Ford F150	Pickup	87	18	5	Excluded	\$ 4.17	\$ 20	2023 Ford F150 Lightning	68	49	42.6	\$ -	\$ -
A2W0732	2023 Ford F150	Pickup	75	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	36.8	\$ -	\$ -
A2W0733	2023 Ford F150	Pickup	88	18	5	Excluded	\$ 4.17	\$ 20	2023 Ford F150 Lightning	68	49	43.1	\$ -	\$ -
A2W0734	2023 Ford F150	Pickup	117	18	7	Excluded	\$ 4.17	\$ 27	2023 Ford F150 Lightning	68	49	57.3	\$ -	\$ -
A2W0735	2023 Ford F150	Pickup	118	18	7	Excluded	\$ 4.17	\$ 27	2023 Ford F150 Lightning	68	49	57.8	\$ -	\$ -
A2W0736	2023 Ford F150	Pickup	73	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.8	\$ -	\$ -
A2W0737	2023 Ford F150	Pickup	117	18	7	Excluded	\$ 4.17	\$ 27	2023 Ford F150 Lightning	68	49	57.3	\$ -	\$ -
A2W0738	2023 Ford F150	Pickup	113	18	6	Excluded	\$ 4.17	\$ 26	2023 Ford F150 Lightning	68	49	55.4	\$ -	\$ -
A2W0739	2023 Ford F150	Pickup	115	18	6	Excluded	\$ 4.17	\$ 27	2023 Ford F150 Lightning	68	49	56.4	\$ -	\$ -
A2W0740	2023 Ford F150	Pickup	118	18	7	Excluded	\$ 4.17	\$ 27	2023 Ford F150 Lightning	68	49	57.8	\$ -	\$ -
A2W0741	2023 Ford F150	Pickup	134	18	7	Excluded	\$ 4.17	\$ 31	2023 Ford F150 Lightning	68	49	65.7	\$ -	\$ -
A2W0742	2023 Ford F150	Pickup	113	18	6	Excluded	\$ 4.17	\$ 26	2023 Ford F150 Lightning	68	49	55.4	\$ -	\$ -
A2W0743	2023 Ford F150	Pickup	75	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	36.8	\$ -	\$ -
A2W0744	2023 Ford F150	Pickup	64	18	4	Excluded	\$ 4.17	\$ 15	2023 Ford F150 Lightning	68	49	31.4	\$ -	\$ -
A2W0745	2023 Ford F150	Pickup	51	18	3	Excluded	\$ 4.17	\$ 12	2023 Ford F150 Lightning	68	49	25.0	\$ -	\$ -
A2W0746	2023 Ford F150	Pickup	7	18	0	Excluded	\$ 4.17	\$ 2	2023 Ford F150 Lightning	68	49	3.4	\$ -	\$ -
A2W0747	2023 Ford F150	Pickup	7	18	0	Excluded	\$ 4.17	\$ 2	2023 Ford F150 Lightning	68	49	3.4	\$ -	\$ -
A2W0748	2023 Ford F150	Pickup	6	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.9	\$ -	\$ -
A2W0749	2023 Ford F150	Pickup	6	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.9	\$ -	\$ -
A2W0750	2023 Ford F150	Pickup	66	18	4	Excluded	\$ 4.17	\$ 15	2023 Ford F150 Lightning	68	49	32.3	\$ -	\$ -
A2W0751	2023 Ford F150	Pickup	50	18	3	Excluded	\$ 4.17	\$ 12	2023 Ford F150 Lightning	68	49	24.5	\$ -	\$ -
A2W0752	2023 Ford F150	Pickup	49	18	3	Excluded	\$ 4.17	\$ 11	2023 Ford F150 Lightning	68	49	24.0	\$ -	\$ -
A2W0753	2023 Ford F150	Pickup	6	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.9	\$ -	\$ -
A2W0754	2023 Ford F150	Pickup	6	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.9	\$ -	\$ -
A2W0755	2023 Ford F150	Pickup	50	18	3	Excluded	\$ 4.17	\$ 12	2023 Ford F150 Lightning	68	49	24.5	\$ -	\$ -
A2W0756	2023 Ford F150	Pickup	72	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.3	\$ -	\$ -
A2W0757	2023 Ford F150	Pickup	51	18	3	Excluded	\$ 4.17	\$ 12	2023 Ford F150 Lightning	68	49	25.0	\$ -	\$ -
A2W0758	2023 Ford F150	Pickup	226	18	13	Excluded	\$ 4.17	\$ 52	2023 Ford F150 Lightning	68	49	110.7	\$ -	\$ -
A2W0759	2023 Ford F150	Pickup	6	18	0	Excluded	\$ 4.17	\$ 1	2023 Ford F150 Lightning	68	49	2.9	\$ -	\$ -
A2W0760	2023 Ford F150	Pickup	0	18	-	Excluded	\$ 4.17	\$ -	2023 Ford F150 Lightning	68	49	-	\$ -	\$ -
A2W8190	2005 Ford F150	Pickup	5550	14	396	Sedro Woolley	\$ 4.17	\$ 1,653	2023 Ford F150 Lightning	68	49	2,719.5	\$ 0.0993	\$ 269.99
A2W8349	2005 Ford F150	Pickup	6845	14	489	Colville	\$ 4.17	\$ 2,039	2023 Ford F150 Lightning	68	49	3,354.1	\$ 0.1082	\$ 362.91
A2W8597	2006 Ford F150	Pickup	2299	14	164	Tumwater - Webster	\$ 4.17	\$ 685	2023 Ford F150 Lightning	68	49	1,126.5	\$ 0.0993	\$ 111.84
A2W8612	2006 Ford F150XL	Pickup	9508	14	679	Loomis Highlands	\$ 4.17	\$ 2,832	2023 Ford F150 Lightning	68	49	4,658.9	\$ 0.0641	\$ 298.64
A2W8925	2006 Ford F150	Pickup	0	14	-	Excluded	\$ 4.17	\$ -	2023 Ford F150 Lightning	68	49	-	\$ -	\$ -
A2W8933	2007 Chevrolet K1500	Pickup	2506	15	167	Tumwater - Webster	\$ 4.17	\$ 697	2023 Ford F150 Lightning	68	49	1,227.9	\$ 0.0993	\$ 121.91
A2W9152	2007 Chevrolet K1500	Pickup	229	15	15	Excluded	\$ 4.17	\$ 64	2023 Ford F150 Lightning	68	49	112.2	\$ -	\$ -
A2W9160	2007 Chevrolet K1500	Pickup	7608	15	507	Excluded	\$ 4.17	\$ 2,115	2023 Ford F150 Lightning	68	49	3,727.9	\$ -	\$ -

Equipment ID	Vehicle String	Vehicle Type	2023 Miles Driven	EPA MPG	2023 Fuel (gal)	EVSE Location	Avg Fuel Cost	Annual Cost	- EV Replacement	MPGe	kWh/100 mi	Annual kWh	Avg Cost per kWh	Annual Cost
A2W9166	2007 Chevrolet K1500	Pickup	9777	15	652	Sedro Woolley	\$ 4.17	\$ 2,718	2023 Ford F150 Lightning	68	49	4,790.7	\$ 0.0993	\$ 475.63
A2W9172	2007 Chevrolet K1500	Pickup	1867	15	124	Tumwater Compound	\$ 4.17	\$ 519	2023 Ford F150 Lightning	68	49	914.8	\$ 0.0993	\$ 90.82
A2W9175	2007 Chevrolet K1500	Pickup	1893	15	126	Excluded	\$ 4.17	\$ 526	2023 Ford F150 Lightning	68	49	927.6	\$ -	\$ -
A2W9310	2007 Chevrolet K1500	Pickup	129	15	9	Tumwater - DNR Hangar	\$ 4.17	\$ 36	2023 Ford F150 Lightning	68	49	63.2	\$ 0.0993	\$ 6.28
A2W9719	2008 Chevrolet K1500	Pickup	3317	16	207	Tumwater - DNR Hangar	\$ 4.17	\$ 864	2023 Ford F150 Lightning	68	49	1,625.3	\$ 0.0993	\$ 161.36
A2W9726	2008 Chevrolet K1500	Pickup	3319	16	207	Forks - Oly HQ	\$ 4.17	\$ 865	2023 Ford F150 Lightning	68	49	1,626.3	\$ 0.0642	\$ 104.41
A2W9728	2008 Chevrolet K1500	Pickup	1986	16	124	Forks - Oly HQ	\$ 4.17	\$ 518	2023 Ford F150 Lightning	68	49	973.1	\$ 0.0642	\$ 62.48
A2W9747	2008 Chevrolet K1500	Pickup	761	16	48	Tumwater - DNR Hangar	\$ 4.17	\$ 198	2023 Ford F150 Lightning	68	49	372.9	\$ 0.0993	\$ 37.02
A2W9753	2008 Chevrolet K1500	Pickup	5808	16	363	Sedro Woolley	\$ 4.17	\$ 1,514	2023 Ford F150 Lightning	68	49	2,845.9	\$ 0.0993	\$ 282.54
A2W9757	2008 Chevrolet K1500	Pickup	2504	16	157	Tumwater - DNR Hangar	\$ 4.17	\$ 653	2023 Ford F150 Lightning	68	49	1,227.0	\$ 0.0993	\$ 121.81
A2W9763	2008 Chevrolet K1500	Pickup	12475	16	780	Loomis Highlands	\$ 4.17	\$ 3,251	2023 Ford F150 Lightning	68	49	6,112.8	\$ 0.0641	\$ 391.83
A2W9893	2008 Chevrolet Silverado	Pickup	1214	16	76	Excluded	\$ 4.17	\$ 316	2023 Ford F150 Lightning	68	49	594.9	\$ -	\$ -
A2W9924	2008 Chevrolet Silverado	Pickup	719	16	45	Excluded	\$ 4.17	\$ 187	2023 Ford F150 Lightning	68	49	352.3	\$ -	\$ -
A2W9967	2008 Chevrolet Silverado	Pickup	2001	16	125	Ellensburg	\$ 4.17	\$ 522	2023 Ford F150 Lightning	68	49	980.5	\$ 0.0772	\$ 75.69
A2W9973	2008 Chevrolet Silverado	Pickup	5201	16	325	Colville	\$ 4.17	\$ 1,356	2023 Ford F150 Lightning	68	49	2,548.5	\$ 0.1082	\$ 275.75
A6W0026	2017 Ford F150	Pickup	2308	17	136	Tumwater Compound	\$ 4.17	\$ 566	2023 Ford F150 Lightning	68	49	1,130.9	\$ 0.0993	\$ 112.28
A6W0027	2017 Ford F150	Pickup	15210	17	895	Excluded	\$ 4.17	\$ 3,731	2023 Ford F150 Lightning	68	49	7,452.9	\$ -	\$ -
A6W0028	2017 Ford F150	Pickup	12575	17	740	Tumwater Compound	\$ 4.17	\$ 3,085	2023 Ford F150 Lightning	68	49	6,161.8	\$ 0.0993	\$ 611.74
A6W0029	2017 Ford F150	Pickup	1858	17	109	Tumwater Compound	\$ 4.17	\$ 456	2023 Ford F150 Lightning	68	49	910.4	\$ 0.0993	\$ 90.39
A6W0035	2017 Ford F150	Pickup	20964	17	1,233	Granite Falls	\$ 4.17	\$ 5,142	2023 Ford F150 Lightning	68	49	10,272.4	\$ 0.0900	\$ 924.51
A6W0036	2017 Ford F150	Pickup	21082	17	1,240	Colville	\$ 4.17	\$ 5,171	2023 Ford F150 Lightning	68	49	10,330.2	\$ 0.1082	\$ 1,117.73
A6W0037	2017 Ford F150	Pickup	11545	17	679	Forks - Oly HQ	\$ 4.17	\$ 2,832	2023 Ford F150 Lightning	68	49	5,657.1	\$ 0.0642	\$ 363.18
A6W0038	2017 Ford F150	Pickup	19301	17	1,135	Ellensburg	\$ 4.17	\$ 4,734	2023 Ford F150 Lightning	68	49	9,457.5	\$ 0.0772	\$ 730.12
A6W0044	2019 Ford F150	Pickup	6079	18	338	Excluded	\$ 4.17	\$ 1,408	2023 Ford F150 Lightning	68	49	2,978.7	\$ -	\$ -
A6W0045	2019 Ford F150	Pickup	22691	18	1,261	Ellensburg	\$ 4.17	\$ 5,257	2023 Ford F150 Lightning	68	49	11,118.6	\$ 0.0772	\$ 858.36
A6W0046	2019 Ford F150	Pickup	5172	18	287	Ellensburg	\$ 4.17	\$ 1,198	2023 Ford F150 Lightning	68	49	2,534.3	\$ 0.0772	\$ 195.65
A6W0050	2020 Ford F150	Pickup	12923	18	718	Excluded	\$ 4.17	\$ 2,994	2023 Ford F150 Lightning	68	49	6,332.3	\$ -	\$ -
A6W0051	2020 Ford F150	Pickup	6223	18	346	Granite Falls	\$ 4.17	\$ 1,442	2023 Ford F150 Lightning	68	49	3,049.3	\$ 0.0900	\$ 274.43
A6W0055	2021 Ford F150	Pickup	17679	18	982	Battle Ground	\$ 4.17	\$ 4,096	2023 Ford F150 Lightning	68	49	8,662.7	\$ 0.0833	\$ 721.60
A6W0056	2021 Ford F150	Pickup	18395	18	1,022	Chehalis	\$ 4.17	\$ 4,262	2023 Ford F150 Lightning	68	49	9,013.6	\$ 0.0682	\$ 614.63
A6W0080	2023 Ford F150	Pickup	114	18	6	Tumwater Compound	\$ 4.17	\$ 26	2023 Ford F150 Lightning	68	49	55.9	\$ 0.0993	\$ 5.55
A6W0081	2023 Ford F150	Pickup	73	18	4	Tumwater Compound	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.8	\$ 0.0993	\$ 3.55
A6W0082	2022 Ford F150	Pickup	76	18	4	Tumwater Compound	\$ 4.17	\$ 18	2023 Ford F150 Lightning	68	49	37.2	\$ 0.0993	\$ 3.70
A6W0083	2022 Ford F150	Pickup	76	18	4	Tumwater Compound	\$ 4.17	\$ 18	2023 Ford F150 Lightning	68	49	37.2	\$ 0.0993	\$ 3.70
A6W0085	2022 Ford F150	Pickup	0	18	-	Tumwater Compound	\$ 4.17	\$ -	2023 Ford F150 Lightning	68	49	-	\$ 0.0993	\$ -
A6W0086	2022 Ford F150	Pickup	0	18	-	Tumwater Compound	\$ 4.17	\$ -	2023 Ford F150 Lightning	68	49	-	\$ 0.0993	\$ -
A6W0087	2022 Ford F150	Pickup	0	18	-	Tumwater Compound	\$ 4.17	\$ -	2023 Ford F150 Lightning	68	49	-	\$ 0.0993	\$ -
A6W0088	2023 Ford F150	Pickup	0	18	-	Excluded	\$ 4.17	\$ -	2023 Ford F150 Lightning	68	49	-	\$ -	\$ -
A6W0089	2023 Ford F150	Pickup	113	18	6	Excluded	\$ 4.17	\$ 26	2023 Ford F150 Lightning	68	49	55.4	\$ -	\$ -
A6W0092	2023 Ford F150	Pickup	72	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.3	\$ -	\$ -
A6W0093	2023 Ford F150	Pickup	76	18	4	Excluded	\$ 4.17	\$ 18	2023 Ford F150 Lightning	68	49	37.2	\$ -	\$ -
A6W0094	2023 Ford F150	Pickup	69	18	4	Excluded	\$ 4.17	\$ 16	2023 Ford F150 Lightning	68	49	33.8	\$ -	\$ -
A6W0095	2023 Ford F150	Pickup	73	18	4	Excluded	\$ 4.17	\$ 17	2023 Ford F150 Lightning	68	49	35.8	\$ -	\$ -
A6W9717	2008 Chevrolet K1500	Pickup	1779	16	111	Tumwater - Webster	\$ 4.17	\$ 464	2023 Ford F150 Lightning	68	49	871.7	\$ 0.0993	\$ 86.54

## **APPENDIX III**

### **EVSE product data sheets**

## Capital Project Request

2025-27 Biennium

**Project Number:** 40000450**Project Title:** 2025-27 Forest Riparian Easement Program**Description****Starting Fiscal Year:** 2026**Project Class:** Program**Agency Priority:** 11**Project Summary**

This is a request for \$4.9 million to purchase an anticipated 39 forty-year Forestry Riparian Easement Program (FREP) easements in the 25-27 biennium. The FREP provides financial support to qualifying family forest landowners, which helps maintain their economic viability and reduces the risk of conversion of forest land to other uses. The objective is to acquire all easement applications that were received in the 23-25 biennium. This program is related to the Puget Sound Action Agenda & implementing the Governor's Salmon Strategy.

**Project Description*****Identify the problem or opportunity addressed. Why is the request a priority?***

The Legislature created FREP in 2001 to compensate eligible small forest landowners for the disproportionate financial impacts of the expanded riparian protections brought about by the Forests and Fish law and rules. As a result of Senate Bill 5667 FREP is now designed to pay small forest landowners for 90% of the value of required leave trees in riparian areas and associated unstable slope buffers from which they are prohibited from harvesting timber. The landowner continues to own the property and retains full access. Landowners cannot cut or remove the acquired timber during the easement period. The funding package, combined with a \$5.7 million budget reappropriation request, would provide for:

- a. Estimated increase in easement value due to SB5667.
- b. Estimated 50% increase (from 25 to 37) in applications received due to SB5667.
- c. Increased costs for conducting timber cruises to help evaluate timber for each application, an additional .33 FTE of a Forest Timber Cruiser 2 position.

The program's funding is used for two main purposes: 1) valuation of easements and 2) compensation for easements. By law, not more than 50% of the allocated funds can be spent on valuing easements.

***What will the request produce or construct? When will the project start and be completed?***

Forty-year easements will continue to be purchased to compensate small forest landowners for expanded riparian protections starting in July 2025 and ending June 2027. There will be an estimated 70 easement applications in the queue purchased between this request for new funding and a reappropriation request. Due to the field work, timber cruising, escrow and title involvement, and landowner interactions, this is a consistent workflow not conducive to phasing.

***How would the request address the problem or opportunity? What would be the result of not taking action?***

The legislature established the FREP to help offset the diminishing economic viability of the small forest landowners caused by the disproportionate economic impacts of increased riparian buffer regulatory requirements.

Retaining small forest landowners on working forestlands benefits the citizens of Washington by:

- Aiding in the restoration of threatened and endangered fish stocks;
- Cleaning-up and restoring Puget Sound;
- Providing financial support for family forest landowners, which will help maintain their economic viability and reduce the risks of conversion of forest lands; and
- Providing jobs related to the purchase of conservation easements and forestry consultation.

To not fund FREP would curtail an on-going statewide conservation easement program designed solely for small forest landowners. It would put the state at risk of not fulfilling a core commitment of the Forests and Fish Report and the legislation that followed, as well as commitment made in the Forest Practices Habitat Conservation Plan. Defunding would reduce support for the economic viability of small forest landowners and create a greater potential for conversion of this vital riparian forestland to uses other than working forestland. Conversion of working forestland to other uses jeopardizes compliance with the Clean Water Act and Puget Sound recovery efforts.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:57PM

Project Number: 40000450

Project Title: 2025-27 Forest Riparian Easement Program

**Description****What alternatives were explored? Why was the recommended alternative chosen?**

No other alternatives were explored. The FREP program increased forester capacity and streamlined processes resulting in eliminating the backlog of unfunded easements waiting to be purchased in the 23-25 biennium. The program selected the \$4.9 million funding level request to purchase new applications received during the 23-25 biennium. This signals to the small forest landowner community, including SB5667 passing, a recognition that the state is successfully meeting its commitment to them through this program.

**Which clientele would be impacted by the budget request?**

FREP is strongly supported by the Washington Farm Forestry Association, the Washington Tree Farm Program, Washington Dept. of Fish and Wildlife, Washington Dept. of Ecology, Washington Forest Protection Association, the Conservation Caucus, tribes, local government entities and many of the family forest landowners across the state.

**Does this project or program leverage non-state funding? If yes, how much by source?**

No non-state funding is available for use in this program. This program has historically been funded by a capital State Building Construction Account appropriation. However, the program is eligible for funding from the Climate Commitment Act (Natural Climate Solutions Account (NCSA)). The program does not have a dedicated funding source or matching funds.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

The FREP Program supports the 2022 - 2025 Agency Strategic Plan priorities by helping to fulfill:

- B2. Increase Work with Tribal, Local, State, and Federal Governments
  - o B 2.1 Partner with tribes, federal, state, and local partners to prioritize and implement forest health treatments, such as mechanical treatments and prescribed fire, in landscapes with the highest need and relative risk, in line with the 20-Year Forest Health Strategic Plan (Eastern Washington).
- B3. Tell the story of public lands and the wide-ranging effects of DNR's work on behalf of Washington's communities.
  - o B 3.1 Publish public awareness and safety documents, brochures, and forms in multiple languages.
  - o B 3.2 Make DNR's scientific expertise and body of research more readily available for the public.
  - o B 3.4 Engage and educate the public about the environmental, social, and economic benefits of DNR lands, including DNR's trust mandate.
- D.4 Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity
  - o D 4.1 Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.

**Does this request include funding for any IT-related cost?**

No.

***If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.***

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, through the preservation of riparian habitat by acquiring easements

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:57PM

Project Number: 40000450

Project Title: 2025-27 Forest Riparian Easement Program

## Description

protecting riparian areas from development, armoring and fragmentation.

The Influential Outcomes **directly** advanced by this proposal include:

- 1.1 Protect habitat and habitat-forming processes from conversion and fragmentation
- 1.2 Protect agricultural lands and working forests from conversion

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy 1: Build Puget Soundwide support to prevent conversion of forests, farms, and natural areas and increase funding for conservation incentives. (ID #1)

Strategy 2: Support the expansion of market mechanisms to increase long-term viability and reduce conversion pressure for working lands. (ID #194)

· Key opportunity: Expand transfer of development rights and easements

The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 5: Develop incentives to encourage voluntary actions to protect habitat

The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY – Low Summer Flows (4):** Increase the pace and scale of local actions that address water quantity.

Low Flow: 4.5 Develop and implement land acquisitions and conservation easements in priority upland habitats

**STRATEGY - Water Quality (6):** Support state and federal programs to improve riparian management zones through collaborations with farmers and landowners

**STRATEGY - Climate (2):** Improve coordination among and between practitioners to incentivize and advance climate-informed salmon recovery goals.

Climate: 2.3 Prioritize key areas for conservation and increase the pace of broad-scale floodplain reconnection projects by acquiring conservation easements or fee simple title to property in the floodplain.

### ***How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clear Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?***

FREP contributes to carbon sequestration by maintaining the riparian forests within the conservation easement areas for the life of the 40-year easement.

### **How is your proposal impacting equity in the state?**

The FREP, as part of the Small Forest Landowner Office, assists small forest landowners by offsetting disproportionate financial impacts incurred by the implementation of expanded riparian zone protections brought about by the Forests and Fish law and rules. FREP was originally designed to pay small forest landowners for 50-89% of the value of required leave trees in riparian areas and associated unstable slope buffers from which they are prohibited from harvesting timber. However, in 2024 the Legislature passed Senate Bill 5667 establishing a reimbursement rate of 90% for all qualifying landowners. The landowner continues to own the property and retains full access. The small forest landowner community consists of more than 218,000 individual owners across the state with a wide variety of ownership characteristics and objectives.

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:57PM

Project Number: 40000450

Project Title: 2025-27 Forest Riparian Easement Program

**Description**

Is this project eligible for Direct Pay?

No

Is there additional information you would like decision makers to know when evaluating this request?

N/A

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This package is directly related to implementing the Governor’s Salmon Strategy, primarily through Action 1, Protect and restore vital salmon habitat, and Action 4, Build climate resiliency. The Forestry Riparian Easement Program protects vital riparian habitat in coordination with small forest landowners, filling an important niche in the riparian recovery landscape that is not otherwise inhabited. In doing so, the Program directly implements language within Action 1 of the Strategy, ‘...provides financial incentives for landowners to set aside and restore riparian areas...’ while working to maintain the forests and fish agreement by continuing a viable timber industry (page 6 of the Strategy). This Program also promotes long-term climate resiliency of salmon habitat (Action 4) by investing in riparian habitat on small forest landowner properties as natural infrastructure, contributing to intact habitat corridors and cooler waters for fish.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

The Forestry Riparian Easement Program does not have a dedicated funding source, capital appropriations are requested each biennium for the projected easement applications or the waitlist if funding the previous biennia did not allow for staff or purchases to exhaust the applications received.

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

This request includes .25 FTE in the following classification:

- Forest Check Cruiser 2 – 4SM, conducting cruising for both conservation easement programs.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Program (Minor Works)

**Growth Management impacts**

This program will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the GMA to maintain land in forestry

New Facility: No

**Funding**

Expenditures

2025-27 Fiscal Period

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

Project Number: 40000450

Project Title: 2025-27 Forest Riparian Easement Program

**Funding**

<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
26D-1	Natural Clim Solu Ac-State	4,900,000				4,900,000
	<b>Total</b>	<b>4,900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,900,000</b>

**Future Fiscal Periods**

	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

Funding for this project is to acquire FREP easements.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This funding addresses the harm resulting from the imminent loss and impairment of ecosystem functions on the identified parcels. The funding will prevent and reduce existing harms as a result of ecosystem function degradation and loss that contribute to cumulative environmental health impacts for overburdened communities and vulnerable populations. This request responds to identified priorities of communities in preserving vital open spaces.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

100% because it benefits statewide and impacts the Action Agenda for Puget Sound, Climate Resilience, and Strategic Plans.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No impact to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000503

**Project Title:** 2025-27 Family Forest Fish Passage Program

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 12

### Project Summary

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor's Salmon Strategy.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

The Family Forest Fish Passage Program (FFFPP) was established by the Legislature in 2001 (RCW 76.13.150) and rules were adopted by the Forest Practices Board in 2003 (WAC 222-24-0511). Personnel from the three agencies are responsible for determining landowner eligibility, evaluating the barriers, assessing habitat quality of the stream, ranking barriers for correction, and serving as the main point of contact for program information and assisting landowners. The FFFPP oversees engineering and project sponsor contracts to include FFFPP construction projects and technical support contracts and performs site visits to each FFFPP project to ensure contract compliance.

As of May 9, 2024, the program had a backlog of 1,331 fish passage barriers awaiting funding. \$12.0 million would correct approximately 38 culverts over the next two years that would be prioritized based on fish habitat improvement. Funded at the requested level, the barrier correction work would support local economies by providing miles of opened fish habitat; and economic support provided to family forest landowners.

Although law requires DNR to make the funding request each biennium, appropriated funding would go to RCO which, in turn, in accordance with our Memorandum of Agreement would pay for the projects and for the agency staff necessary to operate the program. Particular to DNR, RCO would provide funding to DNR for 1.00 FTE for an existing Natural Resource Specialist 4 and supplies.

#### What will the request produce or construct? When will the project start and be completed?

The Family Forest Fish Passage Program has historically been funded by a State Building Construction Account (SBCA) capital appropriation; however, this last biennium was entirely funded by the Natural Climate Solutions Account. This proposal includes funding of \$12.0 million to complete 38 FFFPP projects of the highest priority and will fund 3 FTEs. This is composed of a project manager for administration of project contracts, one fish and wildlife biologist to determine fish habitat, and a program specialist to determine application eligibility and provide outreach. The estimated total cost for staff is \$1.02 million among the three agencies.

#### How would the request address the problem or opportunity? What would be the result of not taking action?

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

## Description

Salmon populations were historically numerous and abundant in the rivers of the state and along the Pacific Coast. The Columbia River with 1,210 miles was the greatest producer of wild salmon in the nation, with 10 - 16million to salmon produced annually. Salmon runs now range from 3.2 million to less than a million, 75% of which are from hatcheries.

Fluctuations in the abundance of salmon have been observed for several decades. While some of the declines are normal and reflect the natural variation in ocean, freshwater and estuarine environments, human activities have severely accelerated the rate of decline of several salmon populations. For more than two decades scientists and fisheries experts have warned of the decline of salmon and the degradation of their ecosystems. Various stock status reviews have noted the decline of salmon in Washington. For example, the 1993 Salmon and Steelhead Stock Inventory (SaSSI) stated that less than 50% of Washington's salmon stocks were in a healthy state. As defined in SASSI, a healthy stock is one "experiencing production levels consistent with its available habitat and within the natural variations in survival for the stock." Generally, coastal populations currently tend to be better off than populations inhabiting interior drainages. Losses of stocks in inland areas of the Columbia River system have occurred over a greater percentage of their range than species primarily limited to coastal rivers.

Sustained salmon productivity can be maintained only if diverse biological communities and genetic diversity of salmon are maintained, and watersheds and ecosystems are healthy and properly functioning. The basic needs for salmon spawning, rearing and migration are:

- adequate amounts of cool, clean and well-oxygenated freshwater;
- fully functioning riparian corridors with large woody debris in the stream channel;
- high quality estuarine, nearshore and marine habitats;
- adequate supply of food, cover and refuge from predators;
- unimpeded access to and from freshwater.

The Family Forest Fish Passage Program helps salmon by providing these needs by removing fish passage barriers so fish could access an adequate supply of food, cover and refuge from predators and unimpeded access to and from freshwater.

The Family Forest Fish Passage Program helps in the reduction of forest conversion by small forest landowners. Conversion pressure is likely to increase, especially for small forest landowners, if site productivity declines or the costs of ownership and forest management treatments outweigh the combined market and nonmarket benefits of forestlands. Increased conversion would reduce timber supply, result in a reduction of carbon storage in forest biomass, and result in a loss of fish and wildlife habitat and clean water production and storage. To address these risks, DNR proposes to fund programs such as the FFFPP that supports retention of working forestland held by small forest landowners.

### What alternatives were explored? Why was the recommended alternative chosen?

In consultation with RCO and WDFW, DNR selected the \$12.0 million funding level request because it is thought to be consistent with the capacity that is anticipated to exist within the project sponsor and project contractor communities to carry out the projects during the 2025-27 biennium. As well, it signals to the small forest landowner community a recognition that

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

## Description

the state is trying to catch up in meeting its commitment to this program.

### Which clientele would be impacted by the budget request?

Staff from the other two agencies that administer the FFFPP (RCO and WDFW) are in full support of this funding request. FFFPP is also supported by the Washington Farm Forestry Association, Washington Department of Ecology, Washington Forest Protection Association, and the Conservation Caucus.

Local groups like conservation districts, salmon enhancement groups and tribes are the cornerstone to the FFFPP as sponsors for each project. These sponsors manage project design, construction oversight, permitting, billing, and grant management.

- COUNTY CONSERVATION DISTRICTS: Asotin, Cascadia, Clallam, Chelan, Clark, Cowlitz, East Klickitat, Ferry, Grays Harbor, Jefferson, King, Kitsap, Kittitas, Lewis, Mason, Okanogan, Pacific, Pend Oreille, Skagit, Snohomish, Spokane, Stevens, Thurston, Underwood, Wahkiakum.

- SALMON ENHANCEMENT GROUPS: Adopt a Stream, Cascade Columbia Fisheries Enhancement Group, Chehalis Basin Fisheries Task Force, Cascade Columbia Fish Enhancement Group, Chelan County Department of Natural Resources, Hood Canal Salmon Enhancement Group, Kittitas Conservation Trust, Lower Columbia Fish Enhancement Group, Methow Salmon Recovery Foundation, Mid-Sound Salmon Enhancement Group, Nooksack Salmon Enhancement Group, North Olympic Salmon Coalition, Pacific Coast Salmon Coalition, Pacific County Anglers, Skagit Fisheries Enhancement Group, South Puget Sound Salmon Enhancement Group, Sound Salmon Solutions, Stilly-Snohomish Task Force, Tri-State Steelheaders, Wild Fish Conservancy, Willapa Bay Fisheries Enhancement Group.

- TRIBES: Confederated Tribes of the Colville Reservation, Confederated Tribes and Bands of the Yakama Nation, Cowlitz Indian Tribe, Kalispel Tribe of Indians, Lower Elwha Klallam Tribe, Nooksack Indian Tribe, Spokane Tribe of Indians, Stillaguamish Tribe of Indians, and Tulalip Tribes.

### Does this project or program leverage non-state funding? If yes, how much by source?

No non-state funding is leveraged.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

The FFFPP Program supports the 2022 - 2025 Agency Strategic Plan priorities by helping to fulfill:

- B2. Increase Work with Tribal, Local, State, and Federal Governments
  - B 2.1 Partner with tribes, federal, state, and local partners to prioritize and implement forest health treatments, such as

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

## Description

mechanical treatments and prescribed fire, in landscapes with the highest need and relative risk, in line with the 20-Year Forest Health Strategic Plan (Eastern Washington).

· B3. Tell the story of public lands and the wide-ranging effects of DNR's work on behalf of Washington's communities.

B 3.1 Publish public awareness and safety documents, brochures, and forms in multiple languages.

B 3.2 Make DNR's scientific expertise and body of research more readily available for the public.

B 3.4 Engage and educate the public about the environmental, social, and economic benefits of DNR lands, including DNR's trust mandate.

· D4 Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.

D4.1 Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.

The FFFPP Program supports the DNR's Climate Resilience Plan as follows:

One Priority Response outlined in DNR's Climate Resilience Plan is to develop approaches to reduce conversion of forestlands to non-forest uses. Conversion pressure is likely to increase, especially for small forest landowners, if site productivity declines or the costs of ownership and forest management treatments outweigh the combined market and nonmarket benefits of forestlands. Increased conversion would reduce timber supply, result in a reduction of carbon storage in forest biomass, and result in a loss of fish and wildlife habitat and clean water production and storage. To address these risks, DNR's priority responses include:

Expand existing programs that support retention of working forest land held by small forest landowners, including the Family Forest Fish Passage Program and the Forestry Riparian Easement Program, as well as the Rivers and Habitat Open Space Program.

In the DNR Climate Resilience Plan, one of the primary climate-related risks to DNR's forest sector responsibilities include potential impacts to at-risk species. The Family Forest Fish Passage Program improves and provides access to critical fish habitat on streams on private forestland.

A strategic opportunity listed in the DNR's Climate Resilience Plan is to accelerate salmon and orca recovery efforts. The Plan states that declining salmon populations have already negatively affected orcas and these problems are expected to continue until salmon populations rebound. To address these risks, DNR's priority responses include exploring opportunities to integrate protection, restoration, and enhancement of salmon habitat in existing DNR programs, such as landowner assistance, including the Family Forest Fish Passage Program.

**Does this request include funding for any IT-related cost?**

No funding for IT-related costs is included in this request.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

## Description

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, by correcting priority fish passage barriers on small forest lands.

The Influential Outcomes **directly** advanced by this proposal include:

- 1.3 Restore natural flows, fish passage, flooding, and tidal inundation to freshwater and marine systems by removing structural barriers or altering their management
- 5.2 Increase engagement in and trust of Puget Sound environmental and natural resource governance

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy5: Increase the number and accelerate implementation of habitat acquisition and restoration projects as prioritized in salmon and watershed recovery plans. (ID#12)

- *Key opportunity:* Remove culverts and other barriers to connectivity to improve and maintain stream flow functions within floodplains and their associated estuaries

Strategy6: Inventory and assess all fish passage barriers (culverts, dams, etc.). Prioritize, sequence, and implement fish passage barrier correction or removal in watersheds. (ID #152)

- *Key opportunity:* Consider strategic and varied approaches for private and public culvert removal
- *Key opportunity:* Streamline funding opportunities for private culverts and barrier removal

**The proposal *directly* implements recommendations of the Orca Task Force(OTF), including:**

OTF1: Significantly increase investment in restoration and acquisition of habitat in areas where Chinook stocks most benefit Southern Resident orcas.

**The proposal is aligned with and implements strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:**

**STRATEGY –PopulationGrowth (6):**Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

**STRATEGY- Climate (1):**Protect and restore critical habitats and ecosystem functions.

Climate:1.4 Identify, protect and restore cold-water refugia (e.g., riparian areas, riffles, pools; remove fish passage barriers to expand access to spawning habitat).

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clear Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Yes, FFFPP contributes to carbon sequestration by providing financial assistance to qualifying small forest landowners that may incentivize them to retain their land as working forest rather than convert the land to an alternative use that stores less carbon.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**Description****How is your proposal impacting equity in the state?**

The FFFPP, as part of the Small Forest Landowner Office, assists small forest landowners in removing culverts and other stream crossing structures that keep trout, salmon, and other fish from reaching upstream habitat. The small forest landowner community consists of more than 218,000 individual owners across the state with a wide variety of ownership characteristics and objectives.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

The FFFPP contributes directly to salmon recovery through providing access to additional high-quality stream and riparian habitat which protects fish and their habitat and enhances water quality in areas for small forest landowner holdings thus reducing the threat of conversion. Additionally, this program aids in the restoration of threatened and endangered fish stocks.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

This package is directly linked to implementing the Governor's Salmon Strategy primarily through Action 3: Correct fish passage barriers to restore salmon access to their historical habitats. The Family Forest Fish Passage Program directly fulfills the goals of Action 3 by working to correct non-state-owned fish passage barriers that impede recovery, which is highlighted within the strategy as a priority for funding. This program is unique among those within the state for its ability to work with private landowners to remove barriers, filling an important niche by opening up barriers that may otherwise not be funded for removal/replacement. In doing so, the Program also enhances commitments and coordination across various agencies and programs (Action 7).

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

The proposed funding of \$12.0 million from SBCA will complete 38 FFFPP projects of the highest priority. It will fund 3.0 FTE to carry out the program: a project manager for administration of project contracts, a fish and wildlife biologist to determine fish habitat, and a program specialist to determine landowner eligibility and provide outreach. The estimated total cost for staff-related expenses is \$1,022,000 over the biennium among the three agencies (includes general goods & services and travel related staff costs).

DNR – Natural Resource Specialist 4 – 1.0 FTE - \$259,600: The Program Manager and statewide agency expert implementing the FFFPP. Determines landowner eligibility and percentage of landowner cost share. Conducts pre-work

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**Description**

conferences and negotiates in-kind services with landowners. Determines final approval of project inspections and creates annual statewide FFFPP Implementation Report.

WDFW – Fish and Wildlife Biologist 4 – 1.0 FTE - \$266,000: Evaluates and ranks projects, provides technical assistance on fish barrier determination, and determines fish species and amount of habitat restored.

RCO – WMS Band 2 – 1.0 FTE - \$495,800: Administers program funding and provides project management, sponsor support, and provides information on program contracts, billing, and reimbursement.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	12,084,000				12,084,000
	<b>Total</b>	<b>12,084,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,084,000</b>

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000604

SubProject Title: Green - Gee Creek

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000604

SubProject Title: Green - Gee Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Green - Gee Creek to remove the barrier to fish access. This project is located at latitude 45.7951/longitude -122.6962 and will cost an estimated \$318,000

**Location**

City: Ridgefield

County: Clark

Legislative District: 018

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000604

SubProject Title: Green - Gee Creek

No Operating Impact

SubProject Number: 40000609

SubProject Title: Brockman - Coon Creek - C

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Brockman - Coon Creek to remove the barrier to fish access. This project is located at latitude 48.0683/longitude -121.9539 and will cost an estimated \$318,000.

**Location**

City: Granite Falls

County: Snohomish

Legislative District: 039

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000609

SubProject Title: Brockman - Coon Creek - C

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000610

SubProject Title: Grays Harbor Audubon Society - Humptulips R Trib -A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Grays Harbor Audubon Society - Humptulips R.Trib -A to remove the barrier to fish access. This project is located at latitude 47.2042/longitude -123.9967 and will cost an estimated \$318,000.

**Location**

City: Hoquiam

County: Grays Harbor

Legislative District: 024

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000610

SubProject Title: Grays Harbor Audubon Society - Humptulips R Trib -A

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

SubProject Number: 40000611

SubProject Title: Padilla - Kent Creek - B

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000611

SubProject Title: Padilla - Kent Creek - B

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Padilla - Kent Creek - B to remove the barrier to fish access. This project is located at latitude 48.2285/longitude -117.2129 and will cost an estimated \$318,000.

**Location**

City: Newport

County: Pend Oreille

Legislative District: 017

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000611

SubProject Title: Padilla - Kent Creek - B

No Operating Impact

SubProject Number: 40000612

SubProject Title: Lengle - Sand Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Lengle - Sand Creek to remove the barrier to fish access. This project is located at latitude 496.5031/longitude -122.2015 and will cost an estimated \$318,000.

**Location**

City: Mossyrock

County: Lewis

Legislative District: 020

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000612

SubProject Title: Lengle - Sand Creek

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000613

SubProject Title: Sprouse -Salt Creek - A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Sprouse - Salt Creek - A to remove the barrier to fish access. This project is located at latitude 48.1596/longitude -123.7075 and will cost an estimated \$318,000.

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000613

SubProject Title: Sprouse -Salt Creek - A

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000614

SubProject Title: Sprouse - Salt Creek - B

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000614

SubProject Title: Sprouse - Salt Creek - B

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Sprouse - Salt Creek - B to remove the barrier to fish access. This project is located at latitude 48.1581/longitude -123.7066 and will cost an estimated \$318,000.

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000614

SubProject Title: Sprouse - Salt Creek - B

No Operating Impact

SubProject Number: 40000615

SubProject Title: Higgins - Skykomish R Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor's Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Higgins - Skykomish R Trib to remove the barrier to fish access. This project is located at latitude 47.8632/longitude -121.7264 and will cost an estimated \$318,000.

**Location**

City: Gold Bar

County: Snohomish

Legislative District: 039

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000615

SubProject Title: Higgins - Skykomish R Trib

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000616

SubProject Title: Lefferson - Pirates Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Lefferson - Pirates Creek to remove the barrier to fish access. This project is located at latitude 47.2048/longitude -122.9791 and will cost an estimated \$318,000.

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Special Programs

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000616

SubProject Title: Lefferson - Pirates Creek

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Expenditures</u>		<u>2025-27 Fiscal Period</u>	
			<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reapprops</u>	<u>New Approps</u>
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

Future Fiscal Periods

	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000617

SubProject Title: Allen - Trib to Marble Creek

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000617

SubProject Title: Allen - Trib to Marble Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Allen - Trib to Marble Creek to remove the barrier to fish access. This project is located at latitude 47.3612/longitude -122.6351 and will cost an estimated \$318,000.

**Location**

City: Gig Harbor

County: Pierce

Legislative District: 026

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000617

SubProject Title: Allen - Trib to Marble Creek

No Operating Impact

SubProject Number: 40000619

SubProject Title: Boelk - Winter Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Boelk - Winter Creek to remove the barrier to fish access. This project is located at latitude 47.1617/longitude -123.1554 and will cost an estimated \$318,000.

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000619

SubProject Title: Boelk - Winter Creek

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000621

SubProject Title: Winchester - Crescent Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Winchester - Crescent Creek to remove the barrier to fish access. This project is located at latitude 47.3835/longitude -122.5769 and will cost an estimated \$318,000.

**Location**

City: Gig Harbor

County: Pierce

Legislative District: 026

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000621

SubProject Title: Winchester - Crescent Creek

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000622

SubProject Title: Kaech - Elk Prairie TF - Willapa R Trib - A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000622

SubProject Title: Kaech - Elk Prairie TF - Willapa R Trib - A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Kaech - Elk Prairie TF - Willapa R Trib - A to remove the barrier to fish access. This project is located at latitude 46.5300/longitude -123.4987 and will cost an estimated \$318,000.

**Location**

City: Raymond

County: Lewis

Legislative District: 019

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000622

SubProject Title: Kaech - Elk Prairie TF - Willapa R Trib - A

No Operating Impact

SubProject Number: 40000623

SubProject Title: Godfrey - Swanson Creek Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Godfrey - Swanson Creek Trib to remove the barrier to fish access. This project is located at latitude 48.0346/longitude -124.3891 and will cost an estimated \$318,000.

**Location**

City: Forks

County: Clallam

Legislative District: 034

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000623

SubProject Title: Godfrey - Swanson Creek Trib

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000624

SubProject Title: Lanting - Gribble Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Lanting - Gribble Creek to remove the barrier to fish access. This project is located at latitude 48.4105/longitude -122.2446 and will cost an estimated \$318,000.

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000624

SubProject Title: Lanting - Gribble Creek

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000625

SubProject Title: Van Gerpen - Waitts Creek

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000625

SubProject Title: Van Gerpen - Waitts Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Van Gerpen - Waitts Creek to remove the barrier to fish access. This project is located at latitude 48.1824/longitude -117.8107 and will cost an estimated \$318,000.

**Location**

City: Springdale

County: Stevens

Legislative District: 017

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
		Future Fiscal Periods				
		2027-29	2029-31	2031-33	2033-35	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000625

SubProject Title: Van Gerpen - Waitts Creek

No Operating Impact

SubProject Number: 40000626

SubProject Title: Cushman Law Offices - Site A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Cushman Law Offices to remove the barrier to fish access. This project is located at latitude 47.6583/longitude -124.3542 and will cost an estimated \$318,000.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000626

SubProject Title: Cushman Law Offices - Site A

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000627

SubProject Title: Leahy - Ames Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Leahy - Ames Creek to remove the barrier to fish access. This project is located at latitude 47.8849/longitude -121.8373 and will cost an estimated \$318,000.

**Location**

City: Sultan

County: Snohomish

Legislative District: 039

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000627

SubProject Title: Leahy - Ames Creek

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000628

SubProject Title: Holcomb - Little Kalama R Trib

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000628

SubProject Title: Holcomb - Little Kalama R Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Holcomb - Little Kalama R Trib to remove the barrier to fish access. This project is located at latitude 45.9940/longitude -122.6768 and will cost an estimated \$318,000.

**Location**

City: Kalama

County: Cowlitz

Legislative District: 018

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000628

SubProject Title: Holcomb - Little Kalama R Trib

No Operating Impact

SubProject Number: 40000629

SubProject Title: Ecotrust/Pacific Forest Management - Dickey R Trib A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Ecotrust/Pacific Forest Management - Dickey R Trib A to remove the barrier to fish access. This project is located at latitude 47.9359/longitude -124.6119 and will cost an estimated \$318,000.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000629

SubProject Title: Ecotrust/Pacific Forest Management - Dickey R Trib A

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000630

SubProject Title: Niemcziek - Fern Creek Trib - B

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Niemcziek - Fern Creek Trib - B to remove the barrier to fish access. This project is located at latitude 46.5507/longitude -123.4245 and will cost an estimated \$318,00.

**Location**

City: Raymond

County: Pacific

Legislative District: 019

**Project Type**

Special Programs

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000630

SubProject Title: Niemczek - Fern Creek Trib - B

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000631

SubProject Title: Wilson - EF Lewis R Trib

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000631

SubProject Title: Wilson - EF Lewis R Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Wilson - EF Lewis R Trib to remove the barrier to fish access. This project is located at latitude 45.8014/longitude -122.6124 and will cost an estimated \$318,000.

**Location**

City: Battle Ground

County: Clark

Legislative District: 018

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000631

SubProject Title: Wilson - EF Lewis R Trib

No Operating Impact

SubProject Number: 40000632

SubProject Title: Kaech - Elk Prairie TF - Willapa R Trib - B

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Kaech - Elk Prairie TF - Willapa Trib - B to remove the barrier to fish access. This project is located at latitude 46.5286/longitude -123.4972 and will cost an estimated \$318,000.

**Location**

City: Raymond

County: Pacific

Legislative District: 019

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000632

SubProject Title: Kaech - Elk Prairie TF - Willapa R Trib - B

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000633

SubProject Title: Dammarell - Foye Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Dammarell - Foye Creek to remove the barrier to fish access. This project is located at latitude 47.8260/longitude -121.9599 and will cost an estimated \$318,000.

**Location**

City: Monroe

County: Snohomish

Legislative District: 039

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000633

SubProject Title: Dammarell - Foye Creek

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000634

SubProject Title: Pierce - Spratt Creek - A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000634

SubProject Title: Pierce - Spratt Creek - A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Pierce - Spratt Creek - A to remove the barrier to fish access. This project is located at latitude 48.557/longitude -118.0038 and will cost an estimated \$318,000.

**Location**

City: Colville

County: Stevens

Legislative District: 007

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000634

SubProject Title: Pierce - Spratt Creek - A

No Operating Impact

SubProject Number: 40000635

SubProject Title: Pierce - Spratt Creek - B

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Pierce - Spratt Creek - B to remove the barrier to fish access. This project is located at latitude48.4550/longitude -1180037 and will cost an estimated \$318,000.

**Location**

City: Colville

County: Stevens

Legislative District: 007

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000635

SubProject Title: Pierce - Spratt Creek - B

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000636

SubProject Title: Puskarcik - Tahuya R Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Puskarcik - Tahuya R Trib to remove the barrier to fish access. This project is located at latitude 47.4453/longitude -122.9822 and will cost an estimated \$318,000.

**Location**

City: Port Orchard

County: Mason

Legislative District: 035

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000636

SubProject Title: Puskarcik - Tahuya R Trib

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000637

SubProject Title: Lynch - Beaver Creek Trib

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000637

SubProject Title: Lynch - Beaver Creek Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Lynch - Beaver Creek Trib to remove the barrier to fish access. This project is located at latitude 46.8439/longitude -122.1793 and will cost an estimated \$318,000.

**Location**

City: Eatonville

County: Pierce

Legislative District: 002

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
		<b>Future Fiscal Periods</b>				
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000637

SubProject Title: Lynch - Beaver Creek Trib

No Operating Impact

SubProject Number: 40000638

SubProject Title: McAvoy - Bogachiel R Trib - B

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on McAvoy - Bogachiel R Trib - B to remove the barrier to fish access. This project is located at latitude 47.9270/longitude -124.4283 and will cost an estimated \$318,000.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000638

SubProject Title: McAvoy - Bogachiel R Trib - B

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000639

SubProject Title: TaylorMixon - Silver Creek Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on TaylorMixon - Silver Creek Trib to remove the barrier to fish access. This project is located at latitude 48.6354/longitude -122.3182 and will cost an estimated \$318,000.

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000639

SubProject Title: TaylorMixon - Silver Creek Trib

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000640

SubProject Title: Amadeus Farm - Blooms Ditch

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000640

SubProject Title: Amadeus Farm - Blooms Ditch

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Amadeus Farm - Blooms Ditch to remove the barrier to fish access. This project is located at latitude 46.9276/longitude -122.8815 and will cost an estimated \$318,000.

**Location**

City: Olympia

County: Thurston

Legislative District: 020

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000640

SubProject Title: Amadeus Farm - Blooms Ditch

No Operating Impact

SubProject Number: 40000641

SubProject Title: Allen - Salmon Creek Trib

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Allen - Salmon Creek Trib to remove the barrier to fish access. This project is located at latitude 46.4520/longitude -122.5551 and will cost an estimated \$318,000.

**Location**

City: Toledo

County: Cowlitz

Legislative District: 020

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000641

SubProject Title: Allen - Salmon Creek Trib

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000642

SubProject Title: Jacola - NF Stillaguamish R Trib - A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Jacola - NF Stillaguamish R Trib - A to remove the barrier to fish access. This project is located at latitude 48.2762/longitude -121.9877 and will cost an estimated \$318,000.

**Location**

City: Everett

County: Snohomish

Legislative District: 039

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000642

SubProject Title: Jacola - NF Stillaguamish R Trib - A

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000643

SubProject Title: Matthews - Cheweka Creek

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000643

SubProject Title: Matthews - Cheweka Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Matthews - Cheweka Creek to remove the barrier to fish access. This project is located at latitude 48.4314/longitude -118.1382 and will cost an estimated \$318,000.

**Location**

City: Kettle Falls

County: Stevens

Legislative District: 017

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000643

SubProject Title: Matthews - Cheweka Creek

No Operating Impact

SubProject Number: 40000644

SubProject Title: Hood - Cheweka Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Hood - Cheweka Creek to remove the barrier to fish access. This project is located at latitude 48.4316/longitude -118.1417 and will cost an estimated \$318,000.

**Location**

City: Port Orchard

County: Stevens

Legislative District: 007

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000644

SubProject Title: Hood - Cheweka Creek

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000646

SubProject Title: Chuling - Carrols Creek - A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Chuling - Carrols Creek - A to remove the barrier to fish access. This project is located at latitude 45.8838/longitude -120.7584 and will cost an estimated \$318,000.

**Location**

City: Goldendale

County: Klickitat

Legislative District: 015

**Project Type**

Special Programs

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000646

SubProject Title: Chuling - Carrols Creek - A

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000647

SubProject Title: Chuling - Carrols Creek - B

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000647

SubProject Title: Chuling - Carrols Creek - B

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Chuling - Carrols Creek - B to remove the barrier to fish access. This project is located at latitude/ 45.8873longitude -120.7578 and will cost an estimated \$318,000.

**Location**

City: Goldendale

County: Klickitat

Legislative District: 015

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	318,000				318,000
<b>Total</b>		<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000647

SubProject Title: Chuling - Carrols Creek - B

No Operating Impact

SubProject Number: 40000648

SubProject Title: Tedrick - Long Alec Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 12

**Project Summary**

This request is for \$12.0 million for the Family Forest Fish Passage Program (FFFPP). FFFPP is an on-going program that provides financial assistance to family forest landowners to correct fish passage barriers on their forest roads. The FFFPP helps fulfill core commitments of the Forests and Fish Report, the Forest Practices Act and the Forest Practices Habitat Conservation Plan and facilitates compliance with the federal Clean Water Act by correcting fish passage barriers on roads on forestlands. FFFPP is a partnership program implemented by three agencies: Department of Natural Resources (DNR), WA Dept. of Fish and Wildlife (WDFW) and Recreation and Conservation Office (RCO). If provided, \$12.0 million would complete 38 projects during the 2025-27 biennium (assuming an average cost \$283,000) and fund three positions among three agencies needed to carry out the program. This Program is Related to Puget Sound Action Agenda Implementation and to implementing the Governor’s Salmon Strategy.

**Project Description**

Personnel from the three agencies will oversee the design, engineering and fish barrier correction construction on Tedrick - Long Alec Creek to remove the barrier to fish access. This project is located at latitude 48.8795/longitude -118.5707 and will cost an estimated \$318,000.

**Location**

City: Republic

County: Ferry

Legislative District: 017

**Project Type**

Special Programs

**Growth Management impacts**

The construction and installation of fish passage structures will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the Growth Management Act (GMA) to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	318,000				318,000
	<b>Total</b>	<b>318,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>318,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000503

Project Title: 2025-27 Family Forest Fish Passage Program

**SubProjects**

SubProject Number: 40000648

SubProject Title: Tedrick - Long Alec Creek

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This funding addresses the harm resulting from the imminent loss and impairment of ecosystem functions on the identified parcels. The funding will prevent and reduce existing harms as a result of ecosystem function degradation and loss that contribute to cumulative environmental health impacts for overburdened communities and vulnerable populations. This request responds to identified priorities of communities in preserving vital open spaces.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

100% because it benefits statewide and impacts the Action Agenda for Puget Sound, Climate Resilience, and Strategic Plans.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No impact to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms

for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 12,084,000**

**Capital Project Name:**  
**Project #:**

Family Forest Fish Passage Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat*	Long*	Leg Dist	Project Type	Estimated Total \$
Green - Gee Cr	PC	Ridgefield	45.7951	-122.6962	18	4	\$318,000
Brockman - Coon Cr - C	NW	Granite Falls	48.0683	-121.9539	39	4	\$318,000
Grays Harbor Audubon Society - Humptulips R Trib - A	OLY	Humptulips	47.2042	-123.9967	24	4	\$318,000
Padilla - Kent Cr - B	NE	Newport	48.2285	-117.2129	7	4	\$318,000
Lengle - Sand Cr	PC	Mossyrock	46.5031	-122.2015	20	4	\$318,000
Sprouse - Salt Cr - A	OLY	Port Angeles	48.1596	-123.7075	24	4	\$318,000
Sprouse - Salt Cr - B	OLY	Port Angeles	48.1581	-123.7066	24	4	\$318,000
Higgins - Skykomish R Trib	NW	Gold Bar	47.8632	-121.7264	39	4	\$318,000
Lefferson - Pirates Cr	SPS	Shelton	47.2048	-122.9791	35	4	\$318,000
Allen - Trib to Marble Cr	SPS	Gig Harbor	47.3612	-122.6351	26	4	\$318,000
Boelk - Winter Cr	SPS	Shelton	47.1617	-123.1554	35	4	\$318,000
Winchester - Crescent Cr	SPS	Gig Harbor	47.3835	-122.5769	26	4	\$318,000
Kaech - Elk Prairie TF - Willapa R Trib - A	PC	Lebam	46.5300	-123.4987	19	4	\$318,000
Godfrey - Swanson Cr Trib	OLY	Forks	48.0346	-124.3891	24	4	\$318,000
Lanting - Gribble Cr	NW	Sedro-Woolley	48.4105	-122.2446	39	4	\$318,000
Van Gerpen - Waitts Cr	NE	Chewelah	48.1824	-117.8107	7	4	\$318,000
Cushman Law Offices - Site A	OLY	Forks	47.6583	-124.3542	24	4	\$318,000
Leahy - Ames Cr	NW	Sultan	47.8849	-121.8373	39	4	\$318,000
Holcomb - Little Kalama R Trib	PC	Kalama	45.9940	-122.6768	18	4	\$318,000
Ecotrust/Pacific Forest Mgmt - Dickey R Trib A	OLY	Forks	47.9359	-124.6119	24	4	\$318,000
Niemcziek - Fern Cr Trib - B	PC	Lebam	46.5507	-123.4245	19	4	\$318,000
Wilson - EF Lewis R Trib	PC	Battle Ground	45.8014	-122.6124	18	4	\$318,000
Kaech - Elk Prairie TF - Willapa Trib - B	PC	Lebam	46.5286	-123.4972	19	4	\$318,000

Dammarell - Foye Cr	NW	Monroe	47.8260	-121.9599	39	4	\$318,000
Pierce - Spratt Cr - A	NE	Colville	48.4557	-118.0038	7	4	\$318,000
Pierce - Spratt Cr - B	NE	Colville	48.4550	-118.0037	7	4	\$318,000
Puskarcik - Tahuya R Trib	SPS	Belfair	47.4453	-122.9822	35	4	\$318,000
Lynch - Beaver Cr Trib	SPS	Eatonville	46.8439	-122.1793	2	4	\$318,000
McAvoy - Bogachiel R Trib - B	OLY	Forks	47.9270	-124.4283	24	4	\$318,000
TaylorMixon - Silver Cr Trib	NW	Sedro-Woolley	48.6354	-122.3182	39	4	\$318,000
Amadeus Farm - Blooms Ditch	SPS	Olympia	46.9276	-122.8815	20	4	\$318,000
Allen - Salmon Cr Trib	PC	Toledo	46.4520	-122.5551	20	4	\$318,000
Jacola - NF Stillaguamish R Trib - A	NW	Oso	48.2762	-121.9877	39	4	\$318,000
Matthews - Cheweka Cr	NE	Rice	48.4314	-118.1382	7	4	\$318,000
Hood - Cheweka Cr	NE	Rice	48.4316	-118.1417	7	4	\$318,000
Chuling - Carrols Cr - A	SE	Goldendale	45.8838	-120.7584	15	4	\$318,000
Chuling - Carrols Cr - B	SE	Goldendale	45.8873	-120.7578	15	4	\$318,000
Tedrick - Long Alec Cr	NE	Curlew	48.8795	-118.5707	7	4	\$318,000
<b>Total</b>							<b>\$ 12,084,000</b>

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000601**Project Title:** 2025-27 Rivers and Habitat Open Space Program

## Description

**Starting Fiscal Year:** 2026**Project Class:** Program**Agency Priority:** 13

### Project Summary

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet. This project is directly related to implementing the Governor's Salmon Strategy and aligns with the Puget Sound Action Agenda priorities.

### Project Description

#### Project Description:

The legislature added the Riparian Open Space Program to the Forest Practices Act in 1999. As directed in the law, the Forest Practices Board adopted rules in 2001 to implement the purchase of perpetual conservation easements to protect forested lands in channel migration zones (CMZs) through this new program. In 2009, the legislature expanded the program to include the purchase of perpetual conservation easements of critical habitat required to be protected under the forest practices rules for state-designated threatened and endangered species. The expanded program is called the RHOSP and is established in RCW 76.09.040(4).

RHOSP fulfills a commitment of the Forests and Fish Report and the associated Forest Practices Habitat Conservation Plan. In addition, RHOSP serves a significant role in the conservation of habitat for upland threatened or endangered species associated with a settlement agreement on Northern Spotted Owls. This is a funding request of \$4.6 million to acquire 262 acres in seven individual conservation easements based on existing need.

#### **What will the request produce or construct? When will the project start and be completed?**

The funding package will allow for the acquisition of the entire set of seven eligible RHOSP applications that were received during the 2024 application period. The application process is conducted once each biennium and was done between March-May 2024. In total, these applications include an area of about 262 acres. There are four applications for critical habitat for state-listed threatened and endangered wildlife species and three for a channel migration zone. Nearly all the funding request (96%) would be allocated to landowners as compensation for granting perpetual easements to the state. The remainder would be used by staff to: receive and evaluate applications; conduct timber cruises and establish the value of applications; conduct surveys; and do all the other things directly necessary to prepare and finalize the easements.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

In a 2008 legal settlement agreement concerning the state's efforts to conserve northern spotted owl, DNR, conservation groups and forest landowners agreed to pursue additional efforts aimed at encouraging voluntary habitat conservation efforts by landowners. In partnership with these groups, DNR then sought and secured an amendment to the statutory authority that established the existing conservation easement program, protecting channel migration zones. The amendment authorized protection of the critical habitats for state listed threatened and endangered species through perpetual conservation easements under the program. With that change, RHOSP could subsequently be used to acquire perpetual conservation easements protecting high quality CMZ riparian forests and essential critical habitat for state-listed Threatened and Endangered Species including essential northern spotted owl habitat.

A consequence of not funding RHOSP would be that the program would not meet the conservation goals of the DNR 2022-2026 Strategic Plan, DNR's Climate Resilience Plan, and the 2022-2026 Action Agenda for Puget Sound. RHOSP is

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

## Description

aimed at incentivizing retention of private ownership in forestlands protecting channel migration zones and critical habitats of state-listed threatened or endangered wildlife species. Washington State would risk being perceived as not fulfilling a commitment of the Forests and Fish law and the Forest Practices Habitat Conservation Plan, and of being unresponsive to spotted owl conservation opportunities by protecting threatened or endangered species habitat.

### What alternatives were explored? Why was the recommended alternative chosen?

DNR considered requesting a lower level of funding appropriated for the 25-27 biennium. This alternative was not selected because it would have contributed to a pattern of appropriated RHOSP funding being markedly less than needed to acquire the number of eligible easements requested by forest landowners to protect essential river channel migration zone riparian habitat and critical upland habitat for state-listed threatened or endangered wildlife species including northern spotted owl and marbled murrelet.

### Which clientele would be impacted by the budget request?

RHOSP is supported by the Washington Farm Forestry Association, Washington Tree Farm Program, Washington Dept. of Fish and Wildlife, Washington Dept. of Ecology, Washington Forest Protection Association, the Conservation Caucus, tribes, timber counties and many of the family forest landowners across the state. This program is available to both industrial forest landowners and small forest landowners.

### Does this project or program leverage non-state funding? If yes, how much by source?

No non-state funding is available for use in this program. This program has historically been funded by a capital State Building Construction Account (SBCA) appropriation.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

- B3. Tell the story of public lands and the wide-ranging effects of DNR's work on behalf of Washington's communities.
  - o B 3.1 Publish public awareness and safety documents, brochures, and forms in multiple languages.
  - o B 3.2 Make DNR's scientific expertise and body of research more readily available for the public.
  - o B 3.4 Engage and educate the public about the environmental, social, and economic benefits of DNR lands, including DNR's trust mandate.
- D.4 Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.
  - o D 4.1 Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.

The Rivers and Habitat Open Space Program supports the DNR's Climate Resilience Plan as follows:

One Priority Response outlined in DNR's Climate Resilience Plan is to develop approaches to reduce conversion of forest lands to non-forest uses. Conversion pressure is likely to increase, especially for small forest landowners, if site productivity declines or the costs of ownership and forest management treatments outweigh the combined market and nonmarket benefits of forest lands. Increased conversion would reduce timber supply, result in a reduction of carbon storage in forest biomass, and result in a loss of fish and wildlife habitat and clean water production and storage. To address these risks, DNR's priority responses include:

- Expand existing programs that support retention of working forest land held by small forest landowners, including the Family Forest Fish Passage Program and the Forestry Riparian Easement Program, as well as the Rivers and Habitat Open Space Program.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

## Description

**Does this request include funding for any IT-related cost?**

No IT-related cost is included in this request.

***If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.***

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda through the preservation of high-quality riparian habitat, by acquiring easements to protect riparian areas from development, armoring and fragmentation.

The Influential Outcomes directly advanced by this proposal include:

- 1.1 Protect habitat and habitat-forming processes from conversion and fragmentation
- 1.2 Protect agricultural lands and working forests from conversion

4.3 Increase the resilience of the Puget Sound ecosystem and recovery efforts by adapting to changing climate and ocean conditions when conducting protection and restoration activities

The Strategies, Actions, and Key Opportunities directly advanced by this proposal include:

Strategy 1: Build Puget Soundwide support to prevent conversion of forests, farms, and natural areas and increase funding for conservation incentives. (ID #1)

Strategy 2: Support the expansion of market mechanisms to increase long-term viability and reduce conversion pressure for working lands. (ID #194)

· Key opportunity: Expand transfer of development rights and easements

Strategy 5: Increase the number and accelerate implementation of habitat acquisition and restoration projects as prioritized in salmon and watershed recovery plans. (ID #12)

Strategy 5: Implement habitat protection and restoration projects that restore or maintain natural nutrient attenuation functions and sediment processes in watersheds, estuaries, and tidal wetlands (ID #24)

The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 1: Significantly increase investment in restoration and acquisition of habitat in areas where Chinook stocks most benefit Southern Resident orcas.

OTF 45: Mitigate the impact of a changing climate by accelerating and increasing action to increase the resiliency and vitality of salmon populations and the ecosystems on which they depend

The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

STRATEGY – Population Growth (6): Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

STRATEGY – Low Summer Flows (3): Protect and manage headwaters and upland forest to improve hydrologic function of

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**Description**

watersheds.

Low Flow: 3.1 Prevent the conversion of forests and promote restoration of riparian areas.

Low Flow: 3.5 Enhance and increase funding for small forest landowner programs to provide more resources and improve private land management.

STRATEGY – Low Summer Flows (4): Increase the pace and scale of local actions that address water quantity.

Low Flow: 4.5 Develop and implement land acquisitions and conservation easements in priority upland habitats

STRATEGY – Low Summer Flows (5): Account for future water quantity demands due to a changing climate, ecosystem conditions, and increased population.

Low Flow: 5.1 Protect and improve the natural water holding capacity of watersheds, including uplands, to increase groundwater and alluvial water storage, augment summer low flows, reduce flood risks, and increase resiliency...

STRATEGY - Water Quality (6): Support state and federal programs to improve riparian management zones through collaborations with farmers and landowners.

STRATEGY - Climate (1): Protect and restore critical habitats and ecosystem functions.

Climate: 1.2 Restore and protect natural hydrologic processes to increase summer low flows and decrease winter peak flows (e.g., remove or limit shoreline armoring, reconnect and restore floodplains...

Climate: 1.5 Implement science-based riparian protection, restoration, and management policies that achieve broad salmon recovery, full riparian function, and water quality objectives (e.g., WDFW's...

STRATEGY - Climate (2): Improve coordination among and between practitioners to incentivize and advance climate-informed salmon recovery goals.

Climate: 2.3 Prioritize key areas for conservation and increase the pace of broad-scale floodplain reconnection projects by acquiring conservation easements or fee simple title to property in the floodplain...

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

RHOSP contributes to carbon sequestration by maintaining the riparian and critical habitat forests within the conservation easement areas for perpetuity.

**How is your proposal impacting equity in the state?**

RHOSP, as part of the Small Forest Landowner Office, is available to eligible Washington state landowners who would like to sell a permanent forestland conservation easement to the state. The Washington state landowner community contains a broad demographic across all private forestlands.

**NEW: Is this project eligible for Direct Pay?**

No, this project is not eligible for Direct Pay.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

## Description

### Is there additional information you would like decision makers to know when evaluating this request?

The Rivers and Habitat Open Space Program contributes to salmon recovery through the preservation of high-quality riparian habitat which protects fish and their habitat and enhances water quality in areas for small forest landowner holdings reducing the threat of conversion. Additionally, this program aids in the restoration of threatened and endangered fish stocks, critical habitat for northern spotted owls and marbled murrelets.

### *If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action*

This package is directly related to implementation of the Governor's Salmon Strategy through Action 1: Protect and restore vital salmon habitat (1c Voluntary protection and restoration). The Rivers and Habitat Open Space Program works to conserve critical forestland habitat for state-listed threatened or endangered species (including ESA-listed salmonids) and channel migration zones within river habitat, filling an important niche in conservation programs for the state. This work directly fulfills language within the Strategy, including "provide incentives for all landowners to set aside and restore riparian areas important for salmon recovery" and supporting "ecosystems as natural infrastructure worthy of long-term capital planning and investments." This work also supports Action 4: Build climate resiliency, by promoting carbon sequestration through conservation of forests.

### Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

### List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

Natural Resource Specialist 4 – 3 staff months (SM): Conservation Easement Program Manager  
Forest Check Cruiser 2 – 3SM, conducting cruising for both conservation easement programs

### Location

City: Statewide

County: Statewide

Legislative District: 098

### Project Type

Program (Minor Works)

### Growth Management impacts

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	4,631,000				4,631,000
	<b>Total</b>	<b>4,631,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,631,000</b>

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

No impact

**SubProjects**

SubProject Number: 40000657

SubProject Title: Rayonier Lake Creek Phase II

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 13

**Project Summary**

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet.

**Project Description**

**Sub-Project 1: Rayonier Lake Creek Phase II**

Rayonier Lake Creek Phase II encompassing 30 acres of critical habitat for marbled murrelets and northern spotted owls. The northern parcels were surveyed for marbled murrelets and were found to be occupied. This stand is one of the few remaining near-coastal marbled murrelets occupied sites. This parcel also contains suitable roosting, foraging and dispersal habitat for northern spotted owls. This stand is located only 0.86 miles from a pair or reproductive pair northern spotted owls. Purchasing this parcel in RHOSP will protect this critical habitat in perpetuity.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000657

SubProject Title: Rayonier Lake Creek Phase II

**Growth Management impacts**

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
26D-1	Natural Clim Solu Ac-State	59,000				59,000
	<b>Total</b>	<b>59,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59,000</b>
			Future Fiscal Periods			
			2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State		0	0	0	0
	<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

SubProject Number: 40000658

SubProject Title: Rayonier South Creek

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000658

SubProject Title: Rayonier South Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 13

**Project Summary**

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet.

**Project Description**

**Sub-Project 2: Rayonier South Creek**

Rayonier South Creek encompassing 107 acres of critical habitat for marbled murrelets and northern spotted owls. The northern parcels were surveyed for marbled murrelets and were found to be occupied. This stand is one of the few remaining near-coastal marbled murrelets occupied sites and is one of the largest stands occupied by marbled murrelets in this region. This parcel also contains suitable roosting, foraging and dispersal habitat for northern spotted owls. This stand is located only 0.86 miles from a pair or reproductive pair northern spotted owls. Purchasing this parcel in RHOSP will protect this critical habitat in perpetuity.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	2,108,000				2,108,000
	<b>Total</b>	<b>2,108,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,108,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State	0	0	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000658

SubProject Title: Rayonier South Creek

**Operating Impacts**

No Operating Impact

SubProject Number: 40000659

SubProject Title: Nielson Brothers

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 13

**Project Summary**

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet.

**Project Description****Sub-Project 3: Nielson Brothers, Inc.**

Nielson Brothers, Inc. encompassing 51.35 acres of critical habitat for marbled murrelets. The stand origin is 1746 and contains old growth western hemlock, Pacific silver fir, and mountain hemlock. It is unknown if this stand is occupied by marbled murrelets or northern spotted owls. However, purchasing this parcel in RHOSP will protect this critical habitat in perpetuity.

**Location**

City: Sedro-Woolley

County: Whatcom

Legislative District: 042

**Project Type**

Program (Minor Works)

**Growth Management impacts**

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000659

SubProject Title: Nielson Brothers

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropr</u>
26D-1	Natural Clim Solu Ac-State	900,000				900,000
	<b>Total</b>	<b>900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>900,000</b>
		<u>Future Fiscal Periods</u>				
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000660

SubProject Title: Westside Logging

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 13

**Project Summary**

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet.

**Project Description**

**Sub-Project 4: Westside Logging LLC**

Westside Logging LLC, encompassing 68.7 acres of critical habitat for marbled murrelets. This stand is old growth western red cedar, western hemlock, and Douglas fir and contains a marbled murrelet occupied site. Purchasing this parcel in RHOSP will protect this critical habitat in perpetuity.

**Location**

City: Mount Vernon

County: Skagit

Legislative District: 010

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000660

SubProject Title: Westside Logging

**Growth Management impacts**

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
26D-1	Natural Clim Solu Ac-State	1,330,000				1,330,000
	<b>Total</b>	<b>1,330,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,330,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

SubProject Number: 40000661

SubProject Title: Lyle Wynoochee

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000661

SubProject Title: Lyle Wynoochee

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 13

**Project Summary**

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet.

**Project Description**

**Sub-Project 5: Lyle Wynoochee**

Lyle Wynoochee, encompassing 14 acres of a channel migration zone of the Wynoochee River. This river is critical salmon and steelhead spawning grounds. Purchasing this parcel in RHOSP will protect this channel migration zone in perpetuity.

**Location**

City: Montesano

County: Grays Harbor

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriates	New Appropriates
26D-1	Natural Clim Solu Ac-State	75,000				75,000
	<b>Total</b>	<b>75,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000661

SubProject Title: Lyle Wynoochee

No Operating Impact

SubProject Number: 40000662

SubProject Title: Spencer Indian Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 13

**Project Summary**

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet.

**Project Description**

**Sub-Project 6: Spencer Indian Creek:**

Spencer Indian Creek encompassing 21 acres of a channel migration zone of Indian Creek which is important for salmon migration. Indian Creek is also known to be coho habitat and is historically habitat for sockeye salmon. This parcel contains large diameter residual Sitka spruce, red alder, black cottonwood, and western hemlock. Purchasing this parcel in RHOSP will protect this channel migration zone in perpetuity.

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropr
26D-1	Natural Clim Solu Ac-State	106,000				106,000
<b>Total</b>		<b>106,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>106,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000662

SubProject Title: Spencer Indian Creek

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000663

SubProject Title: Gladstone

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 13

**Project Summary**

This is a request for \$4.6 million to acquire 262 acres included in seven eligible perpetual conservation easement applications that were received and evaluated in spring 2024. The Rivers and Habitat Open Space Program (RHOSP) is established in RCW 76.09.040(4) to acquire perpetual conservation easements from willing private forest landowners for protection of riparian open space (specifically, channel migration zones) and critical habitat for threatened and endangered species such as Northern Spotted Owls and Marbled Murrelet.

**Project Description**

Sub-Project 7: Gladstone

Gladstone encompassing 140 acres of a channel migration zone of Fish Creek which is spawning habitat for coho salmon and contains an older second growth western red cedar forest. Purchasing this parcel in RHOSP will protect this channel migration zone in perpetuity.

**Location**

City: Everett

County: Snohomish

Legislative District: 039

**Project Type**

Program (Minor Works)

**Growth Management impacts**

The purchase of riparian and critical habitat conservation easements will help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

How does this fit in master plan

N/A

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:14PM

Project Number: 40000601

Project Title: 2025-27 Rivers and Habitat Open Space Program

**SubProjects**

SubProject Number: 40000663

SubProject Title: Gladstone

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	53,000				53,000
	<b>Total</b>	<b>53,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This funding addresses the harm resulting from the imminent loss and impairment of ecosystem functions on the identified parcels. The funding will prevent and reduce existing harms as a result of ecosystem function degradation and loss that contribute to cumulative environmental health impacts for overburdened communities and vulnerable populations. This request responds to identified priorities of communities in preserving vital open spaces.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

100% because it benefits statewide and impacts the Action Agenda for Puget Sound, Climate Resilience, and Strategic Plans.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No impact to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms

for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

## Capital Sub-Projects 2025-27 Budget Request

**Capital Project Name:** Rivers and Habitat Open Space Program  
**Project #:** \_\_\_\_\_

**Total Request**  
**\$ 4,500,100**

Sub Project Title <b>Listed in Priority Order</b>	Region	Nearest City	Latitude	Longitude	Leg Dist	Project Type	Estimated Total \$
Rayonier Lake Creek Phase II	Clallam	Forks	47.95014	-124.38543	24	4	58,600
Rayonier South Creek	Clallam	Forks	47.95014	-124.38543	24	4	2,108,000
Nielson Brothers	Whatcom	Sedro Woolley	48.50858	-122.23857	42	4	900,000
Westside Logging	Skagit	Mt. Vernon	48.41645	-122.33891	10	4	1,200,000
Lyle Wynoochee	Grays Harbor	Montesano	46.98384	-123.60076	24	4	75,000
Spencer Indian Creek	Clallam	Port Angeles	48.11892	-123.43112	24	4	105,500
Gladstone	Snohomish	Everett	47.97659	-122.20597	39	4	53,000
<b>Total</b>							<b>\$ 4,500,100</b>

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000562

**Project Title:** 2025-27 Correction of Fish Passage Culverts

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 14

### Project Summary

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor's Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

### Project Description

#### ***Identify the problem or opportunity addressed. Why is the request a priority?***

The Forest and Fish legislation (RCW 76.09) and the Forest Practices Habitat Conservation Plan obligates the state to maintain roads to Road Maintenance and Abandonment Plan (RMAP) standard (WAC 222-24-050). The Culvert Injunction obligates the state to repair all new barriers to salmon use in the case area within 6 years of identification and to conduct re-evaluation of passable culverts to verify passage and identify new barriers.

Over the past 25 years, the Department of Natural Resources (DNR) has repaired or removed over 1,635 fish barriers. These projects have been funded by a combination of the Access Road Revolving Account (ARRA), federal grants from the Federal Emergency Management Agency (FEMA), State Building Construction Account (SBCA/Jobs Bill), and as a contractual obligation of timber sales. DNR projects insufficient funds to correct all the projects identified for the 2025-27 biennium. This funding would complete all the newly identified injunction barriers by their respective deadlines and continue to meet current forest practice rules for fish passage.

#### **What will the request produce or construct? When will the project start and be completed?**

Project work will start July 2025 and end June 2027, with a few more complex projects that are expected to be completed by June 2029. Each project is small and any project that has materials associated with it could be phased by purchasing culverts or bridges in one biennium and installing the structure in the second biennium. There is significant storage and handling costs associated with phasing projects and it is fiscally prudent to prioritize the project list and complete each project as funding allows. This project will correct 20 fish barrier culverts opening an estimated 7,500 feet of fish habitat statewide. Four culverts correct culvert injunction barriers and will open salmon habitat in Puget Sound and on the Olympic Peninsula. Correction of fish barrier culverts across the state will open habitat to anadromous and resident fish populations. Funding these projects provides jobs to rural contractors where state gains in job growth are lacking.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The request will provide necessary funding to complete our work within the expectation of Washington Department of Fish & Wildlife (WDFW) and Forest Practices, and keep DNR compliant with the Culvert Injunction. Funding will allow the hiring of contractors to complete more projects than can be accomplished by DNR's heavy equipment crews and the hiring of consulting engineers when projects are outside of DNR's expertise.

The collection of the ARRA fees is not supplementing the fund fast enough to meet immediate deadlines. We have cut the amount of maintenance on forest roads to cover basic needs and obligations in support of funding fish passage projects. Moving any more funds from maintenance would create more problems both short and long term, including more of the

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

## Description

same type of projects we are requesting to fix with this request.

Not acting would put DNR at risk of being in violation of the forest practice rules and our obligations under the Culvert Injunction. This will also damage DNR's social license to operate with various stakeholders across Washington.

### What alternatives were explored? Why was the recommended alternative chosen?

Alternatives for all projects are explored at the early phases of sub project development. Culvert projects are limited to removal, full-span bridge, or stream simulation culvert design replacement. Recommended alternatives were chosen as the best project that balances management needs, environmental condition, and cost.

### Which clientele would be impacted by the budget request?

Washington State Department of Transportation (WSDOT), Washington State Parks & Recreation (PACKS), and WDFW, along with the DNR, are party to the Culvert Injunction. DNR accomplishing goals is a benefit for all state agencies and our obligation under the Culvert Injunction. Local tribal entities will support the correction of injunction barriers and expect DNR to meet the requirements of the Culvert Injunction issued by Judge Martinez. Northwest Indian Fisheries Commission (NWIFC), WDFW, PARKS, and WSDOT would support the Culvert Injunction portion of the proposal. Local tribes, Forest Practices, and WDFW would also support the non-injunction portion of this proposal. Recreational users and neighboring property owners with access rights across DNR-managed lands will see improved road drainage conditions.

This funding would allow DNR to complete an additional 20 fish barrier projects.

Nine of these projects are located within the Puget Sound Basin.

### Does this project or program leverage non-state funding? If yes, how much by source?

No. Other funding sources such as ARRA, federal grants (FEMA), and timber sales will be used to accomplish other fish passage and road repair projects not identified on the attached list. Projects on the attached list that are not funded by SBCA will be either delayed or take the funding from ARRA. Delaying these projects and/or using funding from ARRA will impede the agency by reducing maintenance levels on DNR roads which will result in short- and long-term damage to Trust infrastructure, pose potential safety code violations, and potentially reduce access to the state trust lands by the public.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project supports **DNR's Guiding Principles**. Providing fish passage and upgrading roads are ways that we support healthy ecosystems and properly manage our lands. Our fish passage program improves forest streams by making habitat available to aquatic species and by facilitating natural stream function. This benefits our management programs and the public by providing habitat for game fish and endangered fish species. Our project implementation process is based on guidelines provided by WDFW, the Forest Practices Board Manual, and work accomplished by our region and division engineering staff.

This project supports **Results Washington** as follows:

- **Goal 2 Prosperous Economy** by providing livable wage construction jobs to rural contractors where state gains in job growth

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

## Description

are lacking. Many of these contractors are small business owners that live and work in the same communities. These projects are specifically for the betterment of forest roads to provide a safe, environmentally responsible, and reliable road infrastructure that supports multiple uses, but particularly recreation and the forest economy. Forest roads are an asset to the forest economy.

· **Goal 3 Sustainable Energy and a Clean Environment** by promoting healthy streams and fish habitat statewide. These projects lower or prevent resource damage including sediment delivery to streams, scour on roads and in streams, small scale landslides, improper water management, and remove fish habitat barriers. These projects keep our forest roads compliant with environmental protection laws while providing access for forestry jobs (construction, logging, science, and conservation) and outdoor recreation opportunities. Injunction culverts directly related to the health of pacific salmon with 10 corrections opening 2.5 miles of habitat identified.

· **Goal 5 Efficient, Effective and Accountable Government** by showing that DNR is providing responsible resource stewardship. We are accountable and compliant with the Culvert Lawsuit injunction and forest practice rules; managing to correct and prevent resource damage is in the best interest of the people of Washington.

This project supports **DNR's Strategic Priorities** as follows:

· **Priority B Build Strong and Healthy Rural Communities**

Goal B.2: Partnerships that strengthen rural economies because over 90% of the requested funds will be used for construction contracting. The small size of our projects attracts the rural contractors that live and work in the local communities where the projects are located.

· **Priority D Strengthen the Health and Resilience of Our Lands and Waters.**

Goal D.1: Lands and waters that can remain productive and adapt to changing conditions, including climate change and a growing population.

-

o Strategy D.1.4: Expand efforts to use natural systems to buffer against floods, storm water, sea level rise, and droughts stemming from changing conditions by protecting the forest road infrastructure from sediment delivery and climate change, and contributing to natural stream function, including water availability. These improvements also protect against higher frequency and intensity of storms, shifting rain-on-snow areas, and fire damage.

Goal D.4: Restore ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.

-

o Strategy D.4.1: Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative upland and nearshore protection and restoration activities by restoring critical salmon habitat and

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

## Description

improving the stream function in the upper watersheds to provide for better quality water feeding into that salmon habitat.

o Strategy D.4.3: Reduce contaminants from DNR-managed or regulated roads and other facilities from entering state waters and remove sources of toxic materials (e.g. creosote) from our waters by upgrading roads and stream crossings to Forest Practices and Clean Water Act standards, reducing or eliminating harmful sediment that enters state waters. Improvements to a stream's natural function means less stream scour and fewer road-crossing failures.

### · Watershed Resilience Action Plan

o Action 4: Remove or repair barriers on fish-bearing streams. This proposal will correct two fish barrier culverts within the Snohomish Watershed.

### Does this request include funding for any IT-related cost?

No

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, by correcting priority fish passage barriers on small forest lands. The Influential Outcomes **directly** advanced by this proposal include:

1.3 Restore natural flows, fish passage, flooding, and tidal inundation to freshwater and marine systems by removing structural barriers or altering their management

1.4 Restore habitat and habitat-forming processes to support biological communities

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy 5: Increase the number and accelerate implementation of habitat acquisition and restoration projects as prioritized in salmon and watershed recovery plans. (ID #12)

· Key opportunity: Remove culverts and other barriers to connectivity to improve and maintain streamflow functions within floodplains and their associated estuaries

Strategy 6: Inventory and assess all fish passage barriers (culverts, dams, etc.). Prioritize, sequence, and implement fish passage barrier correction or removal in watersheds. (ID #152)

· Key opportunity: Fulfill the state's obligation to replace fish passage culverts

The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 1: Significantly increase investment in restoration and acquisition of habitat in areas where Chinook stocks most benefit Southern Resident orcas.

The proposal is aligned with and implements strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY – Population Growth (6):** Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

**STRATEGY - Climate (1):** Protect and restore critical habitats and ecosystem functions.

Climate: 1.2 Restore and protect natural hydrologic processes to increase summer low flows and decrease winter peak flows (e.g., remove or limit shoreline armoring, reconnect and restore floodplains...

Climate: 1.4 Identify, protect and restore cold-water refugia (e.g., riparian areas, riffles, pools; remove fish passage barriers to expand access to spawning habitat).

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**Description**

Nine projects are within the Puget Sound Basin and have an estimated cost for \$960,000 and 0.6 FTE.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

No contribution.

**How is your proposal impacting equity in the state?**

The Healthy Environment for All (HEAL) Act promotes the use of the Washington Tracking Network (WTN) created by the Washington Department of Health as a tool to evaluate the public health for communities across Washington. Many of the fish barrier culverts on the list are located near communities that are experiencing medium to high vulnerability to social hazards. These communities have high unemployment, high transportation costs, low high school graduation rates, medium percentage living in poverty, and medium percentage of unemployed. Replacement of these culverts provides opportunity for employment for skilled labor, provides opportunities for recreation and access to the benefits of brush gathering communities and other groups. Furthermore, many recreationists use DNR roads and culverts to reach hiking trails and campgrounds on public lands. In addition, they can use forest lands for family picnics, fishing and relaxing. The roads and culverts are also used by mountain bikers, bicyclists, motorbikes, and all-terrain vehicles which promotes health.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

DNR Forest Roads program has shown historical success in completing projects. Over 90% of past funding went directly to construction of projects supporting the rural contractors that work and live in the small communities where these projects are located. Funding of our request will provide 7 direct jobs and 12.5 indirect jobs, according to Josh Bivens with Economic Policy Institute (01/23/2019).

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

DNR is committed to restoring salmon habitat, providing clean cool waters, and building climate resiliency into our forest road infrastructure. Since the beginning of the forest and fish law (2021), DNR has successfully replaced or removed 1,635 barriers to both salmon and resident fish, and continually monitors and evaluates all fish passage structures on state trust lands while also working with our tribal partners.

· Strategy 1 – Protect and restore vital salmon habitat.

o Our timber industry is an important link to provide essential habitat by removing fish barriers and ensuring clean and cool

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

## Description

waters.

- Strategy 2 – Invest in clean water infrastructure for salmon and people.

- o Funding fish barrier replacements will in turn keep working forests working and reduce the negative effects of urban land development. This enables the DNR to design structures that implement nonpoint source “best management practices” which aides in the reduction of sedimentation into our waters and lessening stormwater impacts to the lands and waters downstream of trust lands.

- Strategy 3 – Correct fish passage barriers and restore salmon access to their historical habitat.

- o DNR has met the requirements of the culvert injunction by completing all original injunction barriers. However, inspection is another requirement of the culvert injunction and through this process DNR has found that some culverts that were previously passable, are no longer meeting today’s standards. Fulfilling the funding request will enable DNR to continue to meet forest practice standards, and public and tribal expectations of a state agency.

- Strategy 4 – Build climate resiliency.

- o DNR’s current standards for fish passage restoration includes design measures to evaluate predicted changes in stream flows due to climate change and prevent damages from higher peak flows that can be detrimental to fish.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

- 1.0 FTE Civil Engineer 2 (24 staff months) to accomplish site surveys, pre-design, draft plan sheets, engineer’s estimate, permitting, specifications, Public Works Contract, and construction inspection.

- 2.0 FTE Civil Engineer 3 (48 staff months) to accomplish site surveys, draft designs, plan sheets, engineer’s estimate, permitting, specifications, Public Works Contract, and construction inspection.

- 1.0 FTE Civil Engineer 4 (24 staff months) to accomplish site surveys, final design, specifications, and construction management.

- 0.25 FTE Natural Resource Scientist 3 (6 staff months) to accomplish final cultural resources review, conduct consultations with tribal partners, and provide technical support on any cultural resource issues.

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**Description**

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	3,260,000				3,260,000
	<b>Total</b>	<b>3,260,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,260,000</b>

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000563

SubProject Title: N1000-24 Fish Blockage Repair

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000563

SubProject Title: N1000-24 Fish Blockage Repair

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

Project is for the replacement of an undersized culvert on a non-anadromous fish bearing stream on the Naneum mainline, north of Ellensburg, and access to the Naneum drainage. Use of the road and culvert consists of motorized recreation through the green dot road management system, timber management tied to forest health, and access for fire suppression activities. Planned replacement of this culvert consists of a modular steel bridge superstructure set on a pre-cast concrete substructure or bottomless arch culvert.

**Location**

City: Ellensburg

County: Statewide

Legislative District: 008

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	429,000				429,000
	<b>Total</b>	<b>429,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>429,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000563

SubProject Title: N1000-24 Fish Blockage Repair

No Operating Impact

SubProject Number: 40000564

SubProject Title: T18R05W-27 Fish Barrier Replacement

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor's Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert was determined to be a barrier through our 10% per year culvert inspections. The evaluation was made that this culvert was needed to maintain access for timber harvest and recreation as other alternatives, including rerouting the road system, were more costly.

**Location**

City: Elma

County: Statewide

Legislative District: 019

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	64,000				64,000
	<b>Total</b>	<b>64,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000564

SubProject Title: T18R05W-27 Fish Barrier Replacement

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000565

SubProject Title: T24R07E-7A/B Fish Barrier Removals

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert was determined to be a barrier through our 10% per year culvert inspections. As the general area is not conducive to recreation because of the Echo Glen Children’s Center lease in the surrounding area, and timber harvest in this area is limited, the most cost-effective decision was to remove the culverts.

**Location**

City: Snoqualmie

County: Statewide

Legislative District: 005

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000565

SubProject Title: T24R07E-7A/B Fish Barrier Removals

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	64,000				64,000
	<b>Total</b>	<b>64,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Operating Impacts

No Operating Impact

SubProject Number: 40000566

SubProject Title: 3100-1 Fish Blockage Repair

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

Project is for the replacement of an undersized culvert on a seasonal (snowmelt) non-anadromous fish bearing stream. Culvert is on USFS controlled 3100 Road that accesses DNR, WDFW, USFS and private ownership. Use of the road and culvert consists of motorized recreation, use as part of a groomed snowmobile route, timber management tied to forest health, and access for fire suppression activities. Planned replacement of this culvert consists of a bottomless arch culvert.

**Location**

City: Ellensburg

County: Statewide

Legislative District: 008

**Project Type**

Special Programs

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000566

SubProject Title: 3100-1 Fish Blockage Repair

Growth Management impacts

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	158,000				158,000
<b>Total</b>		<b>158,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>158,000</b>
<b>Future Fiscal Periods</b>						
		2027-29	2029-31	2031-33	2033-35	
057-1	State Bldg Constr-State					
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000567

SubProject Title: T22R02W-3 Fish Barrier Replacement

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor's Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert was determined to be a barrier through our 10% per year culvert inspections. This mainline road is necessary for timber harvest, recreation, and easement holders, leading to the evaluation that a replacement was necessary. The most cost-effective replacement structure is a larger culvert.

**Location**

City: Statewide

County: Statewide

Legislative District: 035

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

**Project Type**

SubProject Number: 40000567

SubProject Title: T22R02W-3 Fish Barrier Replacement

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	64,000				64,000
	<b>Total</b>	<b>64,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000568

SubProject Title: 1701-2 Fish Blockage Repair

490 - Department of Natural Resources  
**Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000568

SubProject Title: 1701-2 Fish Blockage Repair

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

Project is for the replacement of an undersized culvert on a non-anadromous fish bearing stream. Culvert is on the USFS controlled 1701 Road that access DNR, WDFW and USFS ownership. Use consists of motorized recreation, use as part of a groomed snowmobile route, timber management tied to forest health, and access for fire suppression activities. Planned replacement of this culvert consists of a bottomless arch culvert.

**Location**

City: Naches

County: Statewide

Legislative District: 004

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	229,000				229,000
	<b>Total</b>	<b>229,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>229,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000569

SubProject Title: 1702-3 Fish Blockage Repair

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

Project is for the replacement of an undersized culvert on a non-anadromous fish bearing stream. The culvert is on a USFS controlled 1702 Road that accesses DNR, WDFW and USFS ownership. Use consists of motorized recreation, use as part of a groomed snowmobile route, timber management tied to forest health, and access for fire suppression activities. Planned replacement of this culvert consists of a modular steel bridge superstructure set on a pre-cast concrete substructure.

**Location**

City: Naches

County: Statewide

Legislative District: 004

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	354,000				354,000
	<b>Total</b>	<b>354,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>354,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000569

SubProject Title: 1702-3 Fish Blockage Repair

No Operating Impact

SubProject Number: 40000570

SubProject Title: N8600-1 Fish Blockage Repair

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

Project is for the replacement of three undersized culverts on a non-anadromous fish bearing stream. The culverts are on a USFS controlled 86 Road. Use consists of motorized recreation access to private ownership including residential, timber management and access for fire suppression activities. Planned replacement of these culverts consists of a modular steel bridge superstructure set on a pre-cast concrete substructure.

**Location**

City: White Salmon

County: Statewide

Legislative District: 005

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Approps</u>
057-1	State Bldg Constr-State	354,000				354,000
	<b>Total</b>	<b>354,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>354,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000570

SubProject Title: N8600-1 Fish Blockage Repair

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000571

SubProject Title: SRD-09/-10

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This pair of culverts is on a mainline road that accesses 4,500 acres of DNR land. The road is also used by the City of Everett to maintain a water pipeline from Spada Lake. The culverts are a barrier to fish passage, and they are at the end of their service life due to heavy corrosion. The proposed solution is to replace these culverts with a bridge that will improve fish habitat and stream flow.

**Location**

City: Sultan

County: Statewide

Legislative District: 039

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000571

SubProject Title: SRD-09/-10

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	64,000				64,000
	<b>Total</b>	<b>64,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,000</b>
		<u>Future Fiscal Periods</u>				
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Operating Impacts

No Operating Impact

SubProject Number: 40000572

SubProject Title: C3754-09

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert has been determined to be a barrier to fish passage. The road accesses 2,000 acres of DNR land. The proposed solution is to replace the culvert with a low-cost stream-simulation culvert.

**Location**

City: Monroe

County: Statewide

Legislative District: 039

**Project Type**

Special Programs

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000572

SubProject Title: C3754-09

Growth Management impacts

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	64,000				64,000
	<b>Total</b>	<b>64,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000573

SubProject Title: PA-F-2800 Bridge

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor's Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

The existing culvert at this crossing is a barrier to fish passage. This request funds the design and replacement of the culvert with a new bridge under a public works contract.

**Location**

City: Port Angeles

County: Statewide

Legislative District: 024

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

Project Type

SubProject Number: 40000573

SubProject Title: PA-F-2800 Bridge

Project Type

Special Programs

Growth Management impacts

N/A

New Facility: No

Funding

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	149,000				149,000
	<b>Total</b>	<b>149,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>149,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Operating Impacts

No Operating Impact

SubProject Number: 40000574

SubProject Title: PA-F-2850 bridge

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000574

SubProject Title: PA-F-2850 bridge

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

The existing culvert at this crossing is a barrier to fish passage. This request funds the design and replacement of the culvert with a new bridge under a public works contract.

**Location**

City: Port Angeles

County: Statewide

Legislative District: 024

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	245,000				245,000
	<b>Total</b>	<b>245,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>245,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000575

SubProject Title: Doty 8100 Fish Barrier Removal

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

In 2022 during the presale’s layout of the Deep Dive Timber Sale, an existing culvert was determined to be a blockage to fish passage. As a result, Forest Practices with the assistance of agency partners issued a Life of Pipe determination with a fix date of 2027 as detailed on ICN#: PC-ICN-22-121266. Access is available to both sides of this crossing using various other roads in the area, therefore we determined the best solution was to remove the existing culvert to provide the necessary fish passage.

**Location**

City: Statewide

County: Statewide

Legislative District: 019

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	54,000				54,000
	<b>Total</b>	<b>54,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000575

SubProject Title: Doty 8100 Fish Barrier Removal

No Operating Impact

SubProject Number: 40000576

SubProject Title: 4110-2 Fish Blockage Repair

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

Project is for the replacement of an undersized culvert on a non-anadromous fish bearing stream. This culvert is on the USFS controlled 4110 Road that accesses DNR, USFS and private ownership. Use consists of motorized recreation, timber management, and access for fire suppression activities. Planned replacement of this culvert consists of a modular steel bridge superstructure set on a pre-cast concrete substructure or a bottomless arch structure.

**Location**

City: Cle Elum

County: Statewide

Legislative District: 013

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	229,000				229,000
	<b>Total</b>	<b>229,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>229,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000576

SubProject Title: 4110-2 Fish Blockage Repair

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

SubProject Number: 40000577

SubProject Title: T18R03W-34 - Fish Barrier Removal

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert was determined to be a barrier through our 10% per year culvert inspections. The acreage accessed by this culvert is limited, and the planned timber sale will remove the last harvestable amount for multiple decades. The evaluation determined that the best action, in concert with T18R03W-38, was to remove the crossing as the most economical and best environmental decision. The removal cannot be combined with the timber sale, to allow enough time for planting and other silviculture work behind this culvert to occur prior to removal.

**Location**

City: Olympia

County: Statewide

Legislative District: 035

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000577

SubProject Title: T18R03W-34 - Fish Barrier Removal

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	44,000				44,000
	<b>Total</b>	<b>44,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000578

SubProject Title: T18R03W-38 - Fish Barrier Removal

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert was determined to be a barrier through our 10% per year culvert inspections. The acreage accessed by this culvert is limited, and the planned timber sale will remove the last harvestable amount for multiple decades. The evaluation determined that the best action, in concert with T18R03W-34, was to remove the crossing as the most economical and best environmental decision. The removal cannot be combined with the timber sale, to allow enough time for planting and other silviculture work behind this culvert to occur prior to removal.

**Location**

City: Olympia

County: Statewide

Legislative District: 035

**Project Type**

Special Programs

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000578

SubProject Title: T18R03W-38 - Fish Barrier Removal

Growth Management impacts

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	44,000				44,000
<b>Total</b>		<b>44,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44,000</b>
<b>Future Fiscal Periods</b>						
		2027-29	2029-31	2031-33	2033-35	
057-1	State Bldg Constr-State	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000579

SubProject Title: FR-D-2900 Fish Barrier

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor's Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

The existing culvert at this crossing is a barrier to fish passage. This request funds the design and replacement of the culvert with a fish passable structure, either with a public works contract or with the region's heavy equipment crew.

**Location**

City: Forks

County: Statewide

Legislative District: 024

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

**Project Type**

SubProject Number: 40000579

SubProject Title: FR-D-2900 Fish Barrier

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	104,000				104,000
	<b>Total</b>	<b>104,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>104,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000580

SubProject Title: ROESIGER-17

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000580

SubProject Title: ROESIGER-17

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert was acquired by DNR as part of a land purchase in 2019. It has become a barrier to the salmon that use this stream. Additionally, the associated road runs parallel to the stream and has greater potential to deliver sediment from road runoff. The proposed solution is to remove the culvert and decommission ½ mile of road, restoring fish passage and natural drainage patterns.

**Location**

City: Granite Falls

County: Statewide

Legislative District: 039

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	34,000				34,000
	<b>Total</b>	<b>34,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

SubProject Number: 40000581

SubProject Title: WALKER-31

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert is a barrier to fish passage. The road is also used by Bonneville Power Administration for powerline maintenance. Due to the steep stream gradient and challenging road geometry, the preferred solution to restore fish passage is to replace the culvert with a bridge.

**Location**

City: Mount Vernon

County: Statewide

Legislative District: 039

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	359,000				359,000
	<b>Total</b>	<b>359,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>359,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:44PM

Project Number: 40000562

Project Title: 2025-27 Correction of Fish Passage Culverts

**SubProjects**

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SubProject Number: 40000582

SubProject Title: CAV1000-A

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 14

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation of \$3,255,800 during the 2025-27 biennia for the correction of fish barrier culverts. This capital request will correct 20 fish passage barriers and bring them up to Salmon Recovery and Clean Water Act standards on state grant lands and state forest lands. Nine of these projects are related to Puget Sound Action Agenda Implementation. Four of these projects are on the newly identified US v WA Culvert Injunction list and are related to implementing the Governor’s Salmon Strategy. These projects will meet current forest practice standards and Federal Injunction requirements in US v WA Culvert Injunction.

**Project Description**

This culvert is a barrier to fish passage. Since it is located on the inlet to an adjacent wetland, the proposal is to replace the culvert with a small, prefabricated bridge that will provide fish passage and improve wetland function.

**Location**

City: Mount Vernon

County: Statewide

Legislative District: 039

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	154,000				154,000
	<b>Total</b>	<b>154,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>154,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

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## HEAL Act Requirements

### (ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW [70A.02](#)) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW [70A.02.080](#), beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW [70A.02.110](#).

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW [70A.02.010\(12\)](#) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW [34.05.328](#).
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW [70A.02.060](#).

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

DNR's proposal to replace fish barrier structures would continue to provide consistent access to the recreating public and access to tribe's usual and accustomed areas. The direct health benefit is additional roads to utilize as access for exercise, but decades of research have shown "forest bathing" as a way of helping to reduce stress, improve attention, boost immunity and lift moods (Susan Abookire, 2020, assistant professor, Harvard Medical School).

If this request was not funded, many of these structures would be removed instead of replaced, reducing the amount of road network that is available for usage by the public.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Based on the OBC map and DNR's project locations, 44% (\$1,433,800) of this request will be replacement projects located in the defined overburdened communities and vulnerable populations. Other projects are located near these populations, and it would be anticipated that there would also be a benefit. Projects located in the OBC are identified on the Sub-Project list.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Providing funding to complete barrier replacement projects will continue to provide access to Tribes' usual and accustomed areas for their traditional practices, and barrier replacements in anadromous streams would provide additional habitat for spawning fish, leading to a productive future fisheries harvest by the tribes.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

DNR meets with the Tribes on an annual basis to provide updates to the Culvert Injunction. This is at a time when a newly discovered barrier is presented from recent inspections, and

often the first opportunity for DNR to receive input. DNR engineers will evaluate options and alternatives and provide interested Tribes a draft of the proposal to obtain their input.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not part of agency request legislation.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not part of agency request legislation.

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 3,255,800**

**Capital Project Name:** 2025-27 Fish Passage  
**Project #:** \_\_\_\_\_

Project Types  
1: Health, safety & code req  
2: Facility preservation  
3: Infrastructure preservation  
4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
N1000-24 Fish Blockage	SE	Ellensburg	47.2/-120.445	8	4	428,800	Replacement
T18R05W-27 Fish Barrier Replacement	SPS	Elma	47.24/-122.3329	19	4	63,800	Replacement
T24R07E-7A/B Fish Barrier Removals	SPS	Snoqualmie	47.24/-122.332	5	4	63,700	Removal
3100-1 Fish Blockage Repair	SE	Ellensburg	47/-120.83	8	4	158,200	Replacement
T22R02W-3 Fish Barrier Replacement	SPS	Belfair	47.4/-122.867	35	4	63,700	Replacement
1701-2 Fish Blockage Repair	SE	Naches	46.9/-120.96	4	4	228,800	Replacement/Located in OBC
1702-3 Fish Blockage Repair	SE	Naches	46.9/-120.969	4	4	353,800	Replacement/Located in OBC
N8600-1 Fish Blockage Repair	SE	White Salmon/Trout	46/-121.586	4	4	353,800	Replacement/Located in OBC
SRD-09/-10	NW	Sultan	47.9/-121.778	39	1	63,700	Replacement
C3754-09	NW	Monroe	47.9/-121.856	39	1	63,800	Replacement
PA-F-2800 Bridge	OLY	Port Angeles	48/-123.321	24	1	148,800	Replacement/Located in OBC
PA-F-2850 bridge	OLY	Port Angeles	48/-123.334	24	1	244,800	Replacement/Located in OBC
Doty 8100 Fish Barrier	PC	Doty	46.6/-123.371	19	4	53,800	Removal
4110-2 Fish Blockage Repair	SE	Cle Elum	47.2/-121.275	13	4	228,800	Replacement
T18R03W-34 - Fish Barrier Removal	SPS	Olympia	47.1/-123.057	35	4	43,700	Removal
T18R03W-38 - Fish Barrier Removal	SPS	Olympia	47.1/-123.066	35	4	43,700	Removal
FR-D-2900 Fish Barrier	OLY	Forks	48.1/-124.444	24	1	103,800	Replacement/Located in OBC
ROESIGER-17	NW	Granite Falls	48/-121.955	39	1	33,700	Removal
WALKER-31	NW	Mt. Vernon	48.4/-122.191	39	1	358,800	Replacement
CAV1000-A	NW	Mt. Vernon	48.4/-122.053	39	1	153,800	Replacement

Total

\$ 3,255,800

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000561

**Project Title:** 2025-27 State Forest Land Replacement

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 15

### Project Summary

Grant funding is requested to compensate three rural counties whose state forest lands are encumbered through Federal Endangered Species Act (ESA) protections. These funds will be distributed to the counties as revenue to support critical local services.

### Project Description

***Identify the problem or opportunity addressed. Why is the request a priority?***

Skamania, Wahkiakum, and Pacific counties depend heavily on income from management of state trust lands held on their behalf, but the federal ESA has limited the Department of Natural Resources' (DNR)'s ability to generate revenue from their timberlands. This request provides grant funding for these counties while DNR seeks to acquire replacement forestland for their benefit. This grant funding helps provide basic county services to residents of rural Washington—services that might otherwise go unfunded.

**What will the request produce or construct? When will the project start and be completed?**

The State Forest Land Replacement Program identifies properties in counties with populations of less than 25,000 whose state forest trust lands are encumbered through the ESA and seeks to buy replacement forest land while provided vital funding for county services.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

The State Forest Land Replacement Program provides critical funding to small, rural timber-dependent counties in southwest Washington where implementation of the ESA has resulted in a decrease in the ability to generate revenue from DNR's current asset portfolio.

Taking no action would almost certainly result in cuts to vital services in each of the three counties, including cuts to law enforcement, fire districts, hospital districts, road and infrastructure projects, and other basic county services.

**What alternatives were explored? Why was the recommended alternative chosen?**

This State Forest Replacement Land Program implements the legislative direction given in HB 1484 in the 2009 session. The 2010 report submitted to the Legislature addresses how the program was developed and is organized. A 2010 report to the legislature led to the first appropriation for this program in the 11–13 biennium. DNR, in partnership with county commissioners and other partners, has been pursuing larger, long-term funding to permanently replace encumbered forestlands.

In the 2022 Supplemental Capital Budget, these three counties received \$5 million to purchase additional, productive forestlands.

In the 23-25 biennium, each County received \$1.82 million to offset the lack of revenue from timber lands that were not harvested due to the land being encumbered, \$300 thousand for DNR staffing and costs to acquire new working forestland, and a total of \$240 thousand dollars to purchase replacement lands. While both provisos are a small step toward a longer-term solution to the shortfall in operable county forestlands, this repeated request provides immediate, short-term relief. An additional proviso allowed for the conservation of up to 2000 acres of carbon dense, structurally complex working forestland and after lands are replaced for that conservation effort any remaining funding will be directed toward acquiring working forestland for these encumbered lands counties.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:13PM

Project Number: 40000561

Project Title: 2025-27 State Forest Land Replacement

**Description****Which clientele would be impacted by the budget request?**

The chief clients are Pacific, Wahkiakum, and Skamania Counties and the residents of those counties. They are supportive of this proposal as the revenue helps them provide essential county services.

**Does this project or program leverage non-state funding? If yes, how much by source?**

This request is part of the on-going implementation of an existing program based on legislative direction in 2009. Matching funds are not available.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project directly supports DNR's Strategic Priority to "Build Strong and Healthy Rural Communities."

**Does this request include funding for any IT-related cost?**

This request does not include funding for IT-related costs.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This project is not linked to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project contributes to statewide goals to reduce carbon pollution in two ways. Encumbered forestlands will continue to store and sequester large amounts of carbon from the atmosphere. The funding for future land purchases will ultimately allow the agency to purchase additional working forests which also store and sequester carbon both onsite and in the sustainably harvested wood products produced from those forests.

**How is your proposal impacting equity in the state?**

This project provides funds that directly impact economically disadvantaged, rural communities by funding vital county services. The encumbered forestlands in these three counties provide essential ecosystem services in the form of habitat for threatened and endangered species, clean air, clean water, and the storage of atmospheric carbon in forest pools. The economic tradeoffs for these rural communities, which have relatively small tax bases, threaten residents' abilities to live in safe and prosperous conditions. This proposal delivers essential revenue to support those communities.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

The funding provided through the State Forest Replacement Land program is critical to Pacific, Skamania, and Wahkiakum counties. County commissioners in each county have been very clear about how important this money is to the communities they represent.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

No

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:13PM

Project Number: 40000561

Project Title: 2025-27 State Forest Land Replacement

**Description**

subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project.

1.0 FTE of Property and Acquisition Specialist 4 to administer the disposition of grants and to seek to acquire new working forest land for these counties.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Grants

**Growth Management impacts**

None

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	30,000,000				6,000,000
	<b>Total</b>	<b>30,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,000,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	6,000,000	6,000,000	6,000,000	6,000,000	
	<b>Total</b>	<b>6,000,000</b>	<b>6,000,000</b>	<b>6,000,000</b>	<b>6,000,000</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This project provides funds that directly impact economically disadvantaged, rural communities by funding vital county services. The encumbered forestlands in these three counties provide essential ecosystem services in the form of habitat for threatened and endangered species, clean air, clean water, and the storage of atmospheric carbon in forest pools. The economic tradeoffs for these rural communities, which have relatively small tax bases, threaten residents' abilities to live in safe and prosperous conditions. This proposal delivers essential revenue to support those communities.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

100% of these funds will go directly toward critical county services and for DNR to acquire additional replacement forestland which will be sustainably managed to provide clean water, carbon sequestration and storage, and wood products that society needs.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

None. Lands acquired under this program become available for tribal access and expands tribes' ability to practice their traditional cultural uses on these lands.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to

express concern, opposition, or support., and any direction provided by Tribes through this engagement.

None, the majority of this funding will be utilized as grants to fund critical county services in lieu of the traditional timber revenue DNR generates from these lands. Tribal engagement for the DNR Habitat Conservation Plan and amendment for the increased conservation for Marbled Murrelet was conducted when those plans were enacted.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000442

**Project Title:** Bridge Remediation

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 16

### Project Summary

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

WAC296-54-531(4) (a-d) requires forest road bridges used in harvest activities to be adequate to support the loads imposed on them, kept in good repair, and inspected by a competent person at least annually. RCW 4.24.210(4)(a) states that landowners, including public landowners, may be held liable for known artificial hazards for which signs are not conspicuously posted.

While meeting the requirements of WAC 296, DNR Bridge Inspectors find bridges that have changed in a significant way from the way they were designed and built. In these cases, DNR solicits third-party bridge load rating experts to determine the compliance of the structure with WAC 296. Upon completion of these more detailed assessments, many DNR bridges have been found to be inadequate to support all loads likely to be encountered and have had their rated capacity reduced to stay compliant with WAC 296. This is known as 'posting' a bridge. These postings impact DNR's customers' ability to access the Timber Sales the buy, increasing their hauling costs and reducing DNR's residual product value collected for our Trusts. In some cases, bridge dilapidation has forced the closure of otherwise excellent product haul and management access roads, thus forcing longer routes for our customers.

Beyond timber harvest concerns, DNR has many licensees who are granted the right to use DNR roads to access various improvements. Bridge postings can interfere with their right to access, depending on the vehicles the easement holder uses. In many cases, the easement holders themselves are private timberland owners and would subject the bridge to the same types of traffic loads as DNR would, since our businesses are essentially similar. Accessing state lands for the public's recreating enjoyment is one of the jewels of state ownership of forest lands. Funding of this project continues to allow the public to access over 329,000 acres for dispersed recreation. This funding helps fulfil the State Constitution and DNR's multiple use directive (RCW 79.10.120). In addition to business and recreation, access across these bridges is important for wildland fire management. Having the most direct route to access a potential fire and having the bridges able to safely carry the weight of fire engines, crew vehicles and water trucks is paramount in wildfire operations. Structural deficiencies not only impede traffic loading but also impact the ability of waterways to accommodate flooding and debris flows, posing risks to both infrastructure and environmental integrity. The current financial constraints, particularly the low balance in the Access Road Revolving Account (ARRA), highlight the need for immediate action to address these issues.

It is DNR's policy to post the reductions in bridge load capacity conspicuously, per RCW 4.24. However, the extremely remote nature of DNR-managed lands, the enormity of DNR's road network and bridge inventory (14,000 miles and more than 750 bridges, respectively), and DNR's comparatively small staffing level means that these signs often are obscured or destroyed by vandalism or acts of nature, unbeknownst to DNR staff. This creates a latent liability concern where a party may unknowingly cross a restricted bridge and suffer injury or even death.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

## Description

In response to these issues, DNR Forest Roads program has begun a systematic bridge prioritization and load rating project. This project, funded with our current operating budget, is determining the extent of the problem and prioritizes replacement and repair work. Weighing risk of bridge overload with probability of occurrence and exposure to risk, DNR has established internal protocols for rating bridges, then decides to replace, repair or remove deficient bridges on a case-by-case basis. This proposal funds reconstruction, removal or replacement of 33 of the highest priority bridges.

### What will the request produce or construct? When will the project start and be completed?

Project work starts July 2025, with a target completion date of June 30, 2031. Some projects are phased with a design, material purchase or construction phase ranging in cost from \$25,000 to \$1,100,000. Two of these bridges have known residential access rights across them who have the legal right to expect the bridge to perform to suit their purposes. This access will be provided for between 50 and 100 years (the typical lifespan of a forest roads bridge, material dependent) provided that good maintenance practices are carried out and absent any cataclysmic acts of nature or human-caused destruction. Eighteen of the bridge replacements provide various forms of recreational access.

### How would the request address the problem or opportunity? What would be the result of not taking action?

DNR is load rating approximately 50 bridges per biennium starting with the oldest, poorest condition, and bridges scheduled to be impacted by a near term timber sale. Funding this request allows DNR to systematically and uniformly replace structurally deficient bridges on a biannual period.

Failure to act now will leave currently known structurally deficient bridges on the landscape. With time, more and more deficient bridges will be found as the effects of weathering, climate and continued repeated traffic loads take their toll on the structures. The known deficient bridges will get worse, via the same causes listed above and will need to be posted to limit their use to lighter and lighter types of vehicles. Eventually, the deficient bridges will become unsafe for any use whatsoever and will represent a human life safety hazard on DNR-managed lands.

### What alternatives were explored? Why was the recommended alternative chosen?

Alternatives for all sub-projects are explored at the early phases of sub-project development.

Typical options included:

1. reroute traffic over alternate routes using existing roads
2. reroute traffic over alternate routes using newly constructed roads
3. perform retrofits to increase bridge capacity to meet demands
4. lower and/or reconfigure vehicle traffic weight to accommodate posting

Option 1 by its nature increases per unit costs to purchasers of valuable products and thus decreases net receipts to the Trusts. It also increases total miles traveled by increasing the number or duration of trips, leading to more wear and tear on DNR forest roads and increased emissions from fossil fuel burning vehicles. This option also increases response time for potential wildfire operations, losing any advantage of catching a fire early and limiting its size. Using alternate routes is also an inconvenience to the recreating public by either increasing travel time or utilizing an existing road system that may not be as safe or user-friendly as the direct route to a campground or scenic vista where light-vehicle traffic and other recreational

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

## Description

vehicle use is expected. Easement holders would also be inconvenienced as the alternate route would not match their legal access.

Option 2 has all the disadvantages of options 1 and 4, with the added cost of constructing a new road which is commonly more than \$200,000 per mile and fragments forest ecosystems with unnecessary roads.

Option 3 is excellent and is often a cost-effective option but is not broadly applicable. Some bridges in this request use this option, however, most do not. In these cases, either the bridge is too far deteriorated for retrofitting to work, or the particulars of material or function of the structure are such that retrofitting is impossible.

Option 4 is often coupled with option 1; however, this limits DNR's ability to conduct business on DNR-managed land and limits access for heavy recreational vehicles, such as horse trailers and campers. It also prevents easement holders from fully conducting business and limits wildfire response time. Under this option, only certain lighter weight vehicles may cross the bridge and any vehicle over the posting limit must use an alternate route.

Recommended alternatives were chosen as the best project that balances management needs, environmental condition, public access and safety, and cost. Finally, DNR explored alternative funding options, including the Access Roads Revolving Account (ARRA). However, revenue/fund balance issues limit the use of ARRA for these projects.

### Which clientele would be impacted by the budget request?

#### Nearby Communities and Residents

The Washington Tracking Network (WTN) created by the Washington Department of Health is a tool used to evaluate the public health for communities across Washington. These may include social vulnerability to hazards such as household which includes the percentage of single parents, housing, socioeconomic factors like percentage of population living in poverty, percent unemployment. Many of the structurally deficient bridges on the list are located near communities that are experiencing medium to high vulnerability to social hazards. These communities have high unemployment, high percentages of single parent households with a high percentage living in poverty. Replacement of these structurally deficient bridges provides opportunity for employment for skilled labor, provides opportunities for recreation and access to the benefits of brush gathering communities and other groups. This activity ties to ESSB 5141 (Healthy Environment for All (HEAL) Act) by addressing Social Vulnerability to Hazards, specifically poverty and unemployment through gathering wild edibles and brush for floral arrangements. Furthermore, many recreationists use DNR roads and bridges to reach hiking trails and campgrounds on public lands. In addition, they could use forest lands for family picnics, fishing and relaxing. The roads and bridges are also used by mountain bikers, bicyclists, motorbikes, and all-terrain vehicles which promotes health. See subproject list for a detail description of social vulnerability by bridge.

### Does this project or program leverage non-state funding? If yes, how much by source?

Non-state funds will be sought to supplement these projects. Sources could include large industrial forest land easement holders.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**Description****Describe how this project supports the agency's strategic master plan or would improve agency performance.**

Funding of these bridges will continue to provide public access to state lands, helping to provide Washingtonians with a meaningful connection with their lands and waters. In addition, it will promote the importance of working lands by funding structures on trust lands to keep our lands accessible (Strategic Goal E 2.3). Structurally deficient bridges are inherently less safe than bridges that meet current standards. These old bridges no longer provide the level of safety for heavy haul they once did. Building a culture of safety for DNR's heavy equipment operators and contractors means all of its bridges need to be repaired or replaced if they can no longer handle expected loads. (Strategic Goal A2). The repair or replacement of structurally deficient bridges is an investment into DNR's property portfolio. DNR will modernize its transportation system by designing and building bridges that can handle its heaviest loads and meet current traffic load rating requirements. This investment into transportation increases DNR's ability to maximize its return on our forested lands (Strategic Goal B 1.3).

Results Washington Goal 4: Healthy and Safe Communities. Load rating of bridges is required by Federal Highways of all DOTs, cities and counties. DNR is concerned with the safety of the community and those that travel on its bridges and is implementing the same objective to load rate all of its bridge as other public entities. DNR's bridges should be just as safe to travel by customers, contractors and recreating public as other public bridges. DNR has certified bridge inspectors that evaluate bridge conditions every two years, hires engineering experts to load rate its bridges and only requests funds for those bridges that have been deemed to be structurally deficient.

**Does this request include funding for any IT-related cost?**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda through supporting viable working forests, removing creosote pilings, supporting fire-readiness, and maintaining or improving access for recreation.

The Influential Outcomes directly advanced by this proposal include:

- 1.1 Protect habitat and habitat-forming processes from conversion and fragmentation
- 1.2 Protect agricultural lands and working forests from conversion
- 1.3 Restore natural flows, fish passage, flooding, and tidal inundation to freshwater and marine systems by removing structural barriers or altering their management
- 1.4 Restore habitat and habitat-forming processes to support biological communities

The Strategies, Actions, and Key Opportunities directly advanced by this proposal include:

Strategy 2: Support the long-term viability and sustainability of agricultural lands and working forests to reduce pressure for conversion from the current use to a more developed use. (ID #4)

Strategy 10: Find and fix toxic hotspots (information, planning, education, funding, and implementation). (ID #41)

Strategy 22: Identify and fund removal of barriers resulting in the exclusion of people from participating in recreation and stewardship activities. (ID #160)

Strategy 25: Support natural resource sector jobs and production opportunities. (ID #165)

Strategy 26: Limit people's exposures to harmful air pollution. (ID #199)

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**Description**

The proposal is aligned with and implements strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

STRATEGY – Population Growth (6): Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

STRATEGY – Low Summer Flows (3): Protect and manage headwaters and upland forest to improve hydrologic function of watersheds.

Low Flow: 3.1 Prevent the conversion of forests and promote restoration of riparian areas.

STRATEGY -Water Quality (1): Improve treatment and source control at toxic hotspots

WQ: 1.8 Prioritize the removal of creosote pilings in nearshore forage fish spawning grounds and juvenile salmon habitat to improve water quality and ecosystem health.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

These projects are vital to improving energy efficiency and reducing carbon pollution. If these projects are not completed, the energy efficiency and carbon pollution will increase since timber haul and recreational routes will likely increase. This will force our users to use longer routes and will increase vehicle miles travelled to reach their destination. DNR infrastructure provides critical transportation links for promoting forest health, reducing wildfire and improves response times for initial attack.

**How is your proposal impacting equity in the state?**

The Healthy Environment for All (HEAL) Act promoted the use of the Washington Tracking Network (WTN) created by the Washington Department of Health as a tool used to evaluate the public health for communities across Washington. These may include social vulnerability to hazards such as household which includes the percentage of single parents, housing, socioeconomic factors like percentage of population living in poverty and percent unemployment. Many of the structurally deficient bridges on the list are located near communities that are experiencing medium to high vulnerability to social hazards. These communities have high unemployment, and high percentages living in poverty. Replacement of these structurally deficient bridges provides opportunity for employment for skilled labor, provides opportunities for recreation and access to the benefits of brush gathering communities and other groups. This activity ties to ESSB 5141 by addressing Social Vulnerability to Hazards, specifically poverty and unemployment through gathering wild edibles and brush for floral arrangements. Furthermore, the many recreationists use DNR roads and bridges to reach hiking trails and campgrounds on public lands. In addition, they could use forest lands for family picnics, fishing and relaxing. The roads and bridges are also used by mountain bikers, bicyclists, motorbikes, and all-terrain vehicles which promotes health.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

Timely preservation and replacement of critical infrastructure is crucial to DNR's Forest Roads program. Without these critical improvements, the state lands and DNR stakeholders will lose revenue and stakeholders will be unhappy with DNR's ability to maintain its system.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**Description**

If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.

The DNR is committed to restoring salmon habitat, providing clean, cool waters, and building climate resiliency into our forest road infrastructure. Since the beginning of the forest and fish law (2021), DNR has successfully replaced or removed 1635 barriers to both salmon and resident fish, and continually monitors and evaluates all fish passage structures on state trust lands while also working with our tribal partners.

- Strategy 1 – Protect and restore vital salmon habitat our timber industry is an important link to provide essential habitat by removing fish barriers and ensuring clean and cool waters.
- Strategy 2 – Invest in clean water infrastructure for salmon and people funding fish barrier replacements will in turn keep working forests working and reduce the negative effects of urban land development. This enables the DNR to design structures that implement nonpoint source “best management practices” which aides in the reduction of sedimentation into our waters and lessening stormwater impacts to the lands and waters downstream of trust lands.
- Strategy 3 – Correct fish passage barriers and restore salmon access to their historical habitat DNR has met the requirements of the culvert injunction by completing all original injunction barriers. However, inspection is another requirement of the culvert injunction and through this process DNR has found that some culverts that were previously passable, are no longer meeting today’s standards. Fulfilling the funding request will enable DNR to continue to meet forest practice standards, and public and tribal expectations of a state agency.
- Strategy 4 – Build climate resiliency DNR’s current standards for fish passage restoration includes design measures to evaluate predicted changes in stream flows due to climate change and prevent damages from higher peak flows that can be detrimental to fish.

List all FTE including job classification, staff months, and work to be performed by each position for this project.

- 2.0 FTE Civil Engineer 2 (48 staff months) to accomplish site surveys, pre-design, draft plan sheets, engineer’s estimate, permitting, specifications, Public Works Contract, and construction inspection.
- 3.0 FTE Civil Engineer 3 (60 staff months) to accomplish site surveys, draft designs, plan sheets, engineer’s estimate, permitting, specifications, Public Works Contract, and construction inspection.
- 2.0 FTE Civil Engineer 4 (48 staff months) to accomplish site surveys, final design, specifications and construction management.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/a

New Facility: No

How does this fit in master plan

N/a

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	3,165,000				3,165,000

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

Funding					
Total	3,165,000	0	0	0	3,165,000
Future Fiscal Periods					
	2027-29	2029-31	2031-33	2033-35	
057-1 State Bldg Constr-State					
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

Narrative

N/A

**SubProjects**

SubProject Number: 40000445

SubProject Title: Lower Racehorse Creek Bridge

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description**

**Sub-Project Summary1: Lower Racehorse Creek Bridge**

This project is partially funded with DNR’s reappropriation request for 21-23 Road Maintenance and Abandonment Planning. The bridge is a documented operational concern and due to the urgency of the project, the reappropriation could only partially fund it. The bridge is the only point of access to 18,000 acres of commercial forest, also used for dispersed public recreation, and several residential properties. The 50’ long bridge will be replaced with a 105’ structure, and the creosoted, timber abutments will be removed resulting in a widened opening under the bridge eliminating constriction of the stream and improving fish habitat. During construction, a temporary bridge crossing will be installed to provide continued access for residents.

**Location**

City: Everson

County: Whatcom

Legislative District: 098

**Project Type**

Health, Safety and Code Requirements (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000445

SubProject Title: Lower Racehorse Creek Bridge

Growth Management impacts

N/a

New Facility: No

How does this fit in master plan

N/a

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	200,000				200,000
	<b>Total</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		057-1	State Bldg Constr-State	0	0
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

Narrative

N/A

SubProject Number: 40000446

SubProject Title: Maple Creek Bridge Replacement

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000446

SubProject Title: Maple Creek Bridge Replacement

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description**

Sub-Project Summary 2: Maple Creek Bridge Replacement

The existing 70-ft concrete bridge is weight restricted due to cracking in the main members and has required the installation of a temporary steel bridge placed over top of existing bridge to keep this main arterial road open. This request funds the design of a new bridge, and the bridge replacement. The new bridge will continue to provide access to timber sales, residents, an established DNR campground (South Fork Hoh), and access to the National Park Service Olympic National Park South Fork Hoh Trail.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/a

New Facility: No

How does this fit in master plan

N/a

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,060,000				1,060,000
	<b>Total</b>	<b>1,060,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,060,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000446

SubProject Title: Maple Creek Bridge Replacement

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000447

SubProject Title: Road Bridge 1

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description**

Sub-Project Summary 3: Road Bridge 1

This bridge is weight restricted, which has limited its usage to primarily passenger vehicles. This has significant impacts which limit all timber haul, road maintenance and especially fire access. In addition to the limitations for weight, the bridge crosses a shoreline of the state and is too short, allowing for potential sediment delivery to occur during high flows. This project will utilize an A/E to design a new crossing, anticipated to be 40 feet longer, and install a new bridge allowing unfettered access.

**Location**

City: Eatonville

County: Pierce

Legislative District: 020

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/a

New Facility: No

How does this fit in master plan

N/a

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000447

SubProject Title: Road Bridge 1

<u>Funding</u>		<u>Expenditures</u>			<u>2025-27 Fiscal Period</u>	
<u>Acct Code</u>	<u>Account Title</u>	<u>Estimated Total</u>	<u>Prior Biennium</u>	<u>Current Biennium</u>	<u>Reappropriations</u>	<u>New Appropriations</u>
057-1	State Bldg Constr-State	850,000				850,000
	<b>Total</b>	<b>850,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>850,000</b>
<u>Future Fiscal Periods</u>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Operating Impacts

No Operating Impact

SubProject Number: 40000448

SubProject Title: E-Line 1 Bridge Repairs

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description**

Sub-Project Summary 4: E-Line 1 Bridge Repairs

The existing bridge is on a mainline access road into Capitol Forest, serving timber harvests and other management activities, recreation access and is access to the Department of Corrections' (DOC) Cedar Creek Correctional Center. While the bridge is ultimately too short for the location, causing some erosional and scour problems, a repair to install sheet pile should provide another ten-to-twenty-year service life prior to replacement.

**Location**

City: Tumwater

County: Thurston

Legislative District: 035

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

Project Type

SubProject Number: 40000448

SubProject Title: E-Line 1 Bridge Repairs

Project Type

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

N/a

New Facility: No

How does this fit in master plan

N/a

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	150,000				150,000
	<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

Future Fiscal Periods

Acct Code	Account Title	Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000449

SubProject Title: Gross Bridge Repairs

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000449

SubProject Title: Gross Bridge Repairs

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description**

**Sub-Project Summary 5: Gross Bridge Repairs**

This 160-ft steel bridge with 154-ft timber trestle span requires repairs to the concrete pier and regular maintenance of the rocker bearings. The bridge is on the Hoh-Clearwater Mainline and is the sole access across the Clearwater River, with heavy usage by the public, DOC, and timber sales. This request funds a repair design and subsequent public works contract to complete repairs and maintenance.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/a

New Facility: No

How does this fit in master plan

N/a

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	300,000				300,000
	<b>Total</b>	<b>300,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000449

SubProject Title: Gross Bridge Repairs

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000451

SubProject Title: Maxfield Bridge Removal

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description**

Sub-Project Summary 6: Maxfield Creek Bridge Removal

This existing 74-ft glulam creosote-treated timber bridge has been closed since 2014 due to the south end being washed out. The bridge is no longer required as alternate access exists. This request funds the removal and disposal of the creosote-treated bridge and restoration of the site.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Health, Safety and Code Requirements (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000451

SubProject Title: Maxfield Bridge Removal

Growth Management impacts

N/a

New Facility: No

How does this fit in master plan

N/a

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	150,000				150,000
	<b>Total</b>	<b>150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

Narrative

N/A

SubProject Number: 40000654

SubProject Title: Gale Creek Bridge Removal

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000654

SubProject Title: Gale Creek Bridge Removal

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description**

Sub-Project Summary 7: Gale Creek Bridge Removal

This bridge is at least a 50-year-old US Forestry Service timber bridge that has decayed significantly, is a danger to wildlife and provides little to no management access. The bridge is constricting the stream, leading to the potential for sediment delivery to occur during high flow events within the Tacoma Watershed and above Howard Hanson Dam. This request would remove the structure and restore the site.

**Location**

City: Enumclaw

County: King

Legislative District: 031

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/a

New Facility: No

**How does this fit in master plan**

N/a

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	90,000				90,000
	<b>Total</b>	<b>90,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90,000</b>

		Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000654

SubProject Title: Gale Creek Bridge Removal

**Operating Impacts**

No Operating Impact

SubProject Number: 40000453

SubProject Title: Amazon Trestle

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 16

**Project Summary**

The Department of Natural Resources (DNR) Forest Roads Program requests a new appropriation in the amount of \$3,165,000 for the 2025-27 biennium portion of a six-year plan to design, reconstruct or replace, or remove 33 structurally deficient bridges. The 2025-27 proposal funds the replacement, repair or removal of eight bridge structures on DNR-managed lands to address public safety infrastructure needs essential for various functions on state lands. With over 750 bridges under DNR ownership and the identification of 102 structurally deficient bridges, this proposal underscores the urgency of the situation.

**Project Description****Sub-Project Summary 8: Amazon Trestle**

The structure is a wood trestle, constructed by the US Air Force in about 1960, near the end of its design life and currently has restrictions for timber haul. It also serves recreational and fire access. The bridge, built on piles within the stream channel may also be leaching creosote into the stream and surrounding area. The replacement is anticipated to be a steel structure up to 75 feet in length.

**Location**

City: Colville

County: Stevens

Legislative District: 007

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/a

New Facility: No

How does this fit in master plan

N/a

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 5:27PM

Project Number: 40000442

Project Title: Bridge Remediation

**SubProjects**

SubProject Number: 40000453

SubProject Title: Amazon Trestle

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	365,000				365,000
	<b>Total</b>	<b>365,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>365,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		057-1	State Bldg Constr-State		
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## **HEAL Act Questions**

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

DNR's proposal to replacement of structurally deficient structures would continue to provide consistent access to the recreating public and access to tribe's usual and accustomed areas. The direct health benefit is additional roads to utilize as access for exercise, but decades of research have shown "forest bathing" as a way of helping to reduce stress, improve attention, boost immunity and lift moods (Susan Abookire, 2020, assistant professor, Harvard Medical School).

If this request was not funded, many of these structures would be removed instead of replaced, reducing the amount of road network that is available for usage by the public.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's Overburdened Communities (OBC map) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Based on the OBC map and DNR's project locations, 63% (\$9,029,562) of this request will be projects located in the defined overburdened communities and vulnerable populations. Other projects are located near these populations, and it would be anticipated that there would also be a benefit. Projects located in the OBC are identified on the Sub-Project list.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Providing funding to complete structurally deficient replacement projects will continue to provide access to Tribes' Usual and Accustomed areas for their traditional practices, and some projects would provide improved stream health to anadromous streams, leading to a productive future fisheries harvest by the tribes.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

As this proposal does not change current access, no engagement with the Tribes has occurred, however during design development, the DNR will engage with interested Tribes to receive their input.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

Not part of agency request legislation

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not part of agency request legislation

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$10,389,600**

**Capital Project Name:** Bridge Remediation  
**Project #:** \_\_\_\_\_

Project Types  
1: Health, safety & code req  
2: Facility preservation  
3: Infrastructure preservation  
4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
Lower Racehorse Creek Bridge	NW	Deming	48.884/-122.1321	42	3	200,000	OBC, funding is also tied to 21-23 RMAP reappropriation 2025-27 request
Maple Creek Bridge	OLY	Forks	47.770/-124.0998	24	1	1,060,000	OBC 2025-27 request
3 Road Bridge 1	SPS	Eatonville	46.683/-122.067	20	1	850,000	OBC 2025-27 request
E-Line 1 Bridge Repairs	SPS	Littlerock	46.896/-123.1088	35	3	150,000	2025-27 request
Gross Bridge Repairs	OLY	Forks	47.641/-124.235	24	1	300,000	OBC 2025-27 request
Maxfield Creek Bridge Removal	OLY	Forks	47.901/-124.504	24	1	150,000	Removal / OBC 2025-27 request
Gale Creek Bridge Removal	SPS	Enumclaw	47.264/-121.709	31	1	90,000	Removal 2025-27 request
Amazon Trestle	NE	Colville	48.555/-117.589	7	1	365,000	2025-27 request = \$3,165,000
Pilchuck Creek	NW	Mt. Vernon	48.319/-122.142	39	3	755,000	27-29
N-1100 Cedar Creek Bridge Replacements	OLY	Forks	47.714/-124.308	24	1	510,000	OBC 27-29
Cedar Creek Bridge Repair	SPS	Oakville	46.876/-123.244	19	3	180,000	OBC 27-29
YR-59 Joe Watt	SE	Ellensburg	47.07/-120.734	8	1	60,000	27-29
Lk Shannon ML	NW	Concrete	48.574/-121.708	39	3	375,000	OBC 27-29
SF After Cold Creek	NE	Loomis	48.832/-119.821	7	1	60,000	OBC 27-29
YR-14 Whites Ridge	SE	Yakima	46.515/-121.063	14	1	370,100	OBC 27-29
Cruse Rd at Mills Cr	NW	Sedro Wooley	48.614/-122.216	39	3	250,000	OBC 27-29
EF Tacoma Creek Bridge	OLY	Forks	47.603/-124.121	24	1	300,000	OBC 27-29
N-1000 bridge replacements	OLY	Forks	47.739/-124.294	24	1	550,000	OBC 27-29
Lyle Creek	NW	Darrington	48.319/-121.556	39	3	150,000	OBC 27-29
Skookumchuck Bridge Removal	SPS	Tenino	46.800/-122.769	20	1	350,000	Removal 27-29
Tower Creek Bridge Removal	OLY	Forks	47.826/-124.114	24	1	150,000	Removal / OBC 27-29
Thunder Creek Bridge Removal	OLY	Forks	48.013/-124.471	24	1	150,000	Removal / OBC 27-29 = \$4,210,100
Stinky Bear Bridge	PC	Morton	46.564/-122.483	20	1	25,000	Removal / OBC 29-31
Grindstone Bridge	PC	Cathlamet	46.21/-123.25	19	1	50,000	Removal 29-31
Abernathy 4100	PC	Longview	46.274/-123.184	19	1	1,100,000	29-31
Susie Creek Bridge Repair	OLY	Forks	47.733/-123.999	24	1	200,000	OBC 29-31
YR-26 Jones	SE	Yakima	46.849/-120.742	13	1	268,500	OBC 29-31
5973 Bridge Replacement	PC	Naselle	46.437/-123.593	19	1	300,000	29-31
Butler Mill Bridge Replacment	SPS	Elma	46.938/-123.286	19	1	246,000	OBC 29-31
Hull Creek Bridge	PC	Naselle	46.399/-123.603	19	1	200,000	Removal 29-31
Mill Creek Bridge	PC	Longview	46.221/-123.222	19	1	150,000	Removal 29-31
Right Fork Raine Crk Bridge	PC	Oakville	46.819/-123.394	19	1	75,000	Removal / OBC 29-31
Wilson Creek Bridge	NW	Granite Falls	48.005/-121.772	39	1	400,000	Removal 29-31 = \$3,014,500
<b>Total</b>						<b>#####</b>	

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000598

**Project Title:** Sedro Woolley Fire and Dorm Building

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 17

### Project Summary

The Department of Natural Resources (DNR) requires dormitory space for seasonal fire personnel as well as training and meeting space at Sedro-Woolley. This project will deliver a 4900 square foot building to house seasonal fire personnel, dorm rooms, and office space while removing a 34-year-old mobile office trailer that is past its end of life cycle. This project also eliminates the necessity to lease an off-site annex in Sedro-Woolley. Specifically, this request is to support design for future construction.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

This project addresses multiple requirements related to DNR's Sedro-Woolley site.

- 1) Housing for seasonal fire personnel. There are very few rentals available and the cost for the limited housing options is often too expensive based on the wages seasonal employees earn, which impacts DNR's recruitment and retention to fill these positions. It is not uncommon for candidates that have been offered and accepted positions to later rescind their acceptance when they are unable to secure affordable, accessible, or appropriate housing within a reasonable distance from their duty station. The availability of seasonal housing is also a safety concern as we see seasonal employees using their vehicles or campgrounds for shelter during at least part of their assignment because they cannot find housing. There are concerns around the appropriateness, safety, and health for these seasonal staff. This project addresses the housing issue by creating six, unisex individual dormitory rooms for use by seasonal fire personnel along with latrine, shower, laundry, and meal preparation space.
- 2) Replacement of mobile office trailer. The Department is currently operating a 34-year-old mobile office trailer at the Sedro-Woolley site, originally constructed as an interim spatial solution. The mobile office trailer is well past the end of its useful life cycle, is energy inefficient, and is not equipped with a lavatory. This project will provide workspace for five resident user personnel and 15 non-resident personnel in addition to the dormitory space noted above.
- 3) The Department maintains an off-site leased annex in Sedro-Woolley due to a shortage of space at the Sedro-Woolley Headquarters. This project provides a mechanism to eliminate off-site leasing of office space.

#### What will the request produce or construct? When will the project start and be completed?

This request will support the design or first phase of a two-phase project. The design phase will begin and conclude during the 2025-27 biennium followed by a construction phase planned to start and conclude during the 2027-29 biennium. Specifically, this request will result in a full design inclusive of permits for the construction of a building of approximately 4900 square feet of dormitory and office space at DNR's Sedro-Woolley Compound. The design process will also result in refined construction cost estimation for submission of a decision package to support the construction phase of the project.

#### How would the request address the problem or opportunity? What would be the result of not taking action?

This project will address seasonal fire personnel housing availability in the Northwest Region to improve recruitment and retention. Secondly, this project will provide the necessary workspace for DNR personnel at the DNR Sedro-Woolley site and eliminate further use of a mobile office trailer that is past end of its useful life and is energy inefficient to operate. This project will consolidate DNR operations to a single location and eliminate a leased facility also in Sedro-Woolley. The result of not proceeding with design at this time is to delay meeting the work environment requirements of several key DNR programs that service the greater Sedro-Woolley area and constrain the DNR's ability to hire and retain seasonal fire personnel.

#### What alternatives were explored? Why was the recommended alternative chosen?

The purpose of this project is to create an addition of built space at an existing DNR owned compound. DNR investigated several alternatives including the use of mobile structures and off-site leased or constructed solutions.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:03PM

Project Number: 40000598

Project Title: Sedro Woolley Fire and Dorm Building

**Description**

DNR discounted the use of mobile structures due to the short life cycles of mobile solutions, (trailer based) the high cost to maintain such structures, and the high emission potential associated with both manufacture and operation of such structures. DNR's program requirements at the location will long outlive the life cycle of a mobile structure.

DNR discounted the potential of an off-site lease or construction for several reasons. The programs that will occupy space in the project rely on administrative and service support from other programs and infrastructure that exist at the Port Angeles site including that of vehicle storage, equipment, and equipment storage. Secondly, the programs that will occupy space in the project are enduring in nature.

**Which clientele would be impacted by the budget request**

The primary beneficiaries of this project are the agency employees servicing this portion of the state. The indirect beneficiaries of this project are the users of public lands in the area, and private landowners that will continue to receive expanded fire suppression response efforts.

Specifically, this project directly affects the working environment of six seasonal fire personnel and 20 DNR permanent positions. Indirectly, this project affects an additional 15 to 20 positions by providing space to support employee training.

**Does this project or program leverage non-state funding? If yes, how much by source?**

This project does not leverage non-state funding.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project addresses DNR's Strategic Plan in the following ways. This project supports the strategic priority of "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by improving the working conditions for personnel operating in the Sedro-Woolley area and meeting basic housing necessities for DNR's seasonal personnel. This project supports the strategic priority of "Protect our Lands and Waters" by more effectively positioning fire and forestry resources in position to affect positive outcomes and with the means to act effectively.

**Does this request include funding for any IT-related cost?**

This project does not include any IT-related costs.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This project is not related to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Collectively, the total square footage of the structures in this decision package are all below square footage threshold for inclusion of Tier II reporting requirements under the Clean Buildings Act. The end state replacement structure envisioned to result from the design process is also well below Tier II thresholds.

This project will, however, replace a very energy inefficient mobile office trailer with a new structure that meets the standards of the new building code and is therefore far more efficient to operate with respect to energy use. The building design will take full consideration of opportunities to reduce energy cost and use and utilize electric rather than fossil fuel powered systems. The design of this project will incorporate features to make the end state building net-zero capable.

**How is your proposal impacting equity in the state?**

This project relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards posed by work conducted at the existing sub-standard Department of Natural Resources site. Additionally, the intent of this

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:03PM

Project Number: 40000598

Project Title: Sedro Woolley Fire and Dorm Building

**Description**

project is to provide housing options for DNR’s seasonal staff. These positions typically do not pay enough to afford higher rent in a low-availability, highly competitive, rental market, particularly on a part year basis.

**Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay

**Is there additional information you would like decision makers to know when evaluating this request?**

Please see attached slide.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

No.

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

FY 26:

- Construction Project Coordinator 3, 0.17 FTE,
- Natural Resource Scientist 3, 0.08 FTE
- Cost: \$34,100

FY 27:

- Construction Project Coordinator 3, 0.8 FTE
- Cost: \$ 11,900

Both FTE’s will plan and oversee construction of dormitory and removal of mobile office space.

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

New Facilities/Additions (Major Projects)

**Growth Management impacts**

N/A

New Facility: Yes

**How does this fit in master plan**

This project will, at end-state, produce a new facility and remove one mobile office trailer and one office lease from the inventory. This project allows continued operation of a DNR owned compound well into the future.

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	455,000				455,000
	<b>Total</b>	<b>455,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>455,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:03PM

Project Number: 40000598

Project Title: Sedro Woolley Fire and Dorm Building

**Funding**

		Future Fiscal Periods			
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

Narrative

N/A

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	Sedro Woolley Fire and Dorm Building
OFM Project Number	

Contact Information	
Name	Wayne Skill
Phone Number	360-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet	4,900	MACC per Gross Square Foot	\$297
Usable Square Feet	4,900	Escalated MACC per Gross Square Foot	\$358
Alt Gross Unit of Measure			
Space Efficiency	100.0%	A/E Fee Class	B
Construction Type	Dormitories	A/E Fee Percentage	13.31%
Remodel		Projected Life of Asset (Years)	50
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	Yes
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	8.60%	Location Used for Tax Rate	Sedro Woolley
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	
Project Administered By	Agency		

Schedule			
Pre-design Start	September-25	Pre-design End	June-27
Design Start	October-27	Design End	June-29
Construction Start	October-29	Construction End	June-31
Construction Duration	20 Months		

Green cells must be filled in by user

Project Cost Summary			
Total Project	\$2,505,198	Total Project Escalated	\$2,979,192
		Rounded Escalated Total	\$2,979,000
Amount funded in Prior Biennia			\$0
<b>Amount in current Biennium</b>			<b>\$455,000</b>
Next Biennium			\$0
Out Years			\$2,524,000

Acquisition			
Acquisition Subtotal	\$100,000	Acquisition Subtotal Escalated	\$100,000

Consultant Services			
Pre-design Services	\$45,000		
Design Phase Services	\$153,211		
Extra Services	\$111,000		
Other Services	\$62,993		
Design Services Contingency	\$18,610		
<b>Consultant Services Subtotal</b>	<b>\$390,814</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$448,834</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$1,454,000	Maximum Allowable Construction Cost (MACC) Escalated	\$1,754,565
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$72,700		\$88,178
Non-Taxable Items	\$0		\$0
Sales Tax	\$131,296	Sales Tax Escalated	\$158,507
<b>Construction Subtotal</b>	<b>\$1,657,996</b>	<b>Construction Subtotal Escalated</b>	<b>\$2,001,250</b>

Equipment			
Equipment	\$110,000		
Sales Tax	\$9,460		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$119,460</b>	<b>Equipment Subtotal Escalated</b>	<b>\$144,894</b>

Artwork			
Artwork Subtotal	\$14,822	Artwork Subtotal Escalated	\$14,822

Agency Project Administration			
Agency Project Administration Subtotal	\$208,006		
DES Additional Services Subtotal	\$0		
Other Project Admin Costs	\$14,100		
<b>Project Administration Subtotal</b>	<b>\$222,106</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$269,392</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$2,505,198</b>	Total Project Escalated	<b>\$2,979,192</b>
		Rounded Escalated Total	<b>\$2,979,000</b>

# C-100(2024)

Updated June 2024

## Quick Start Guide

### GENERAL INFORMATION

- 1) The intended use of the C-100(2024) is to enable project managers to communicate their project cost estimates to budget officers in the standard format required for capital project budget requests/submittals to OFM.
- 2) This workbook is protected so that the worksheets within it cannot be moved or deleted in the usual manner. This protection is necessary to ensure that the cost estimate details and formulas align with the estimating application in the Capital Budgeting System.
- 3) The estimating format to develop the maximum allowable construction cost (MACC) is presented in Uniformat II.
- 4) Form-calculated costs such as A/E Basic Design Service fees and Agency Project Management costs are dependent on other estimated project costs such as MACC, equipment, etc.
- 5) Project estimates generated with this tool are not sufficient for budget request submittals to OFM. Use the Capital Budgeting System to submit capital project budget requests and attach the C-100 form.
- 6) Contact your assigned OFM Capital Budget Analyst with questions.

[OFM Capital Budget Analyst](#)

### INSTRUCTIONS

- 1) Only green cells are available for data entry.
- 2) Fill in all known cells in the 'Summary' tab prior to moving on to the cost entry tabs A-G.
- 3) It is recommended, but not required, to fill out cost entry tabs in the following order:  
A. Acquisition, C. Construction Contracts, D. Equipment, G. Other Costs, B. Consultant Services, F. Project Management, then E. Artwork.
- 4) If additional rows are inserted to capture additional project costs, a description must be provided in the Notes column or within Tab H. Additional Notes. Be particularly detailed for additional costs estimated for contingencies and project management.

### FORM-CALCULATED COSTS (FEE CALCULATIONS)

- 1) A/E Basic Design Services:  $AE\ Fee\ \% \times (MACC\ or\ TCC + Contingency)$
- 2) Design Services Contingency:  $Contingency\ \% \times Consultant\ Services\ Subtotal$
- 3) Construction Contingency:  $Contingency\ \% \times MACC\ or\ TCC$
- 4) Artwork:  $0.5\% \times Total\ Project\ Cost$
- 5) Agency Project Management (Greater than \$1million):  $(AE\ Fee\ \% - 3\%) \times (Acquisition\ Total + Consultant\ Services\ Total + MACC + Construction\ Contingency + Other\ Costs)$

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$100,000				\$100,000
<b>Consultant Services</b>					
Consultant Services Subtotal	\$448,834		\$387,000		\$61,834
<b>Construction</b>					
Construction Subtotal	\$2,001,250				\$2,001,250
<b>Equipment</b>					
Equipment Subtotal	\$144,894				\$144,894
<b>Artwork</b>					
Artwork Subtotal	\$14,822				\$14,822
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$269,392		\$68,275		\$201,117
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0
<b>Project Cost Estimate</b>					
Total Project	\$2,979,192	\$0	\$455,275	\$0	\$2,523,917
	\$2,979,000	\$0	\$455,000	\$0	\$2,524,000
Percentage requested as a new appropriation			15%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**

This request is to support the design phase of the project.

*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**

*Insert Row Here*

**What is planned with a future appropriation?**

Future appropriation will be for construction phase.

*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition	\$100,000				
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$100,000</b>		NA	<b>\$100,000</b>	

Green cells must be filled in by user

## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis	\$25,000				
Environmental Analysis					
Predesign Study	\$20,000				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$45,000</b>		<b>1.1053</b>	<b>\$49,739</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$140,211				69% of A/E Basic Services
Other	\$13,000				Record Drawings
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$153,211</b>		<b>1.1359</b>	<b>\$174,032</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)	\$20,000				
Geotechnical Investigation	\$11,000				
Commissioning					
Site Survey					
Testing					
LEED Services	\$5,000				
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)					
Landscape Consultant					
Other	\$75,000				Net zero design options
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$111,000</b>		<b>1.1359</b>	<b>\$126,085</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$62,993				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$62,993</b>		<b>1.2129</b>	<b>\$76,405</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$18,610				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$18,610</b>		<b>1.2129</b>	<b>\$22,573</b>	Escalated to Mid-Const.

**CONSULTANT SERVICES TOTAL**

**\$390,814**

**\$448,834**

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation	\$35,000				
G20 - Site Improvements	\$20,000				
G30 - Site Mechanical Utilities	\$20,000				
G40 - Site Electrical Utilities	\$90,000				
G60 - Other Site Construction	\$40,000				
Other	\$30,000				Sewer connection
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$235,000</b>		<b>1.1802</b>	<b>\$277,347</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements	\$0				
City Utilities Relocation	\$15,000				
Parking Mitigation	\$0				
Stormwater Retention/Detention	\$0				
Other	\$25,000				Permitting Fees
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$40,000</b>		<b>1.1802</b>	<b>\$47,208</b>	
<b>3) Facility Construction</b>					
A10 - Foundations	\$65,000				
A20 - Basement Construction	\$0				
B10 - Superstructure	\$250,000				
B20 - Exterior Closure	\$95,000				
B30 - Roofing	\$250,000				
C10 - Interior Construction	\$172,000				
C20 - Stairs	\$0				
C30 - Interior Finishes	\$95,000				
D10 - Conveying	\$0				
D20 - Plumbing Systems	\$32,000				
D30 - HVAC Systems	\$60,000				
D40 - Fire Protection Systems	\$62,000				
D50 - Electrical Systems	\$33,000				
F10 - Special Construction	\$0				
F20 - Selective Demolition	\$0				
General Conditions	\$65,000				
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$1,179,000</b>		<b>1.2129</b>	<b>\$1,430,010</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$1,454,000</b>			<b>\$1,754,565</b>	
	\$297			\$358 per GSF	

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**7) Owner Construction Contingency**

Allowance for Change Orders	\$72,700		
Other	\$0		
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$72,700</b>	<b>1.2129</b>	<b>\$88,178</b>

**8) Non-Taxable Items**

Other	\$0		
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.2129</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$131,296</b>		<b>\$158,507</b>
------------------	------------------	--	------------------

<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$1,657,996</b>		<b>\$2,001,250</b>
-------------------------------------	--------------------	--	--------------------

Green cells must be filled in by user

## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings	\$110,000				
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$110,000</b>		<b>1.2129</b>	<b>\$133,419</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$9,460</b>			<b>\$11,475</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$119,460</b>			<b>\$144,894</b>	

Green cells must be filled in by user

## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$14,822				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$14,822</b>		<b>NA</b>	<b>\$14,822</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$208,006				
Additional Services					
Other	\$14,100				Archaeologist
Insert Row Here					
<i>Subtotal of Other</i>	<i>\$14,100</i>				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$222,106</b>		<b>1.2129</b>	<b>\$269,392</b>	

Green cells must be filled in by user

## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.1802</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

Demolition of existing mobile office trailer and disposal

*Insert Row Here*

**Tab B. Consultant Services**

*Insert Row Here*

**Tab C. Construction Contracts**

Storm water requirements for site accomplished in previous project at site

*Insert Row Here*

**Tab D. Equipment**

Furnishings: 10 work stations, 6 dorm rooms (beds, lockers, chair) 20 person training room

*Insert Row Here*

**Tab E. Artwork**

Building is not open to public

*Insert Row Here*

**Tab F. Project Management**

Archaeologist necessary to complete Architectural History survey work (all buildings at site).

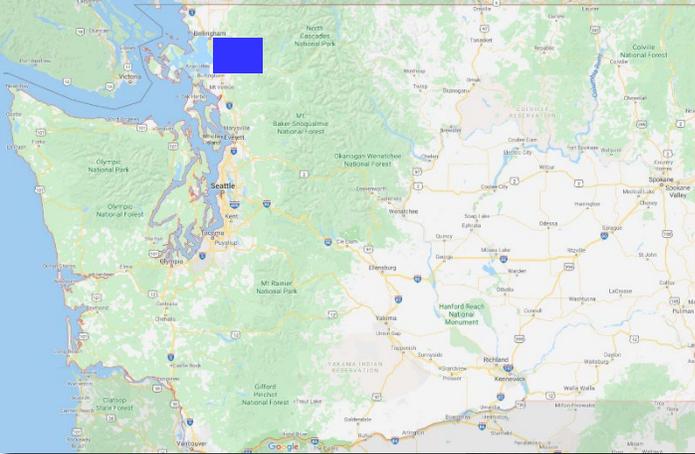
*Insert Row Here*

**Tab G. Other Costs**

Site examined and cleared (DHAP) (Archaeology) for construction in previous project to mitigate storm water at compound

*Insert Row Here*

# Sedro-Woolley Dormitory/Office - Design



Project replaces this mobile office trailer built in 1990 as an interim office space solution.



Sedro-Woolley Compound

12

**Project:**  
**2025 Request: \$455,000.**  
**2025 Phase: Design**

**Tot Project Cost: Estimated pending design - \$2,986,000**

**This phase: Produces a design for future construction of approximately 4900 sq. ft. of dormitory and office space at the Department's Sedro-Woolley site. Project will eliminate a 34-year-old mobile office trailer at the site and an off-site lease nearby.**

**Operating impact or request: \$0 for '25-'27 biennium**

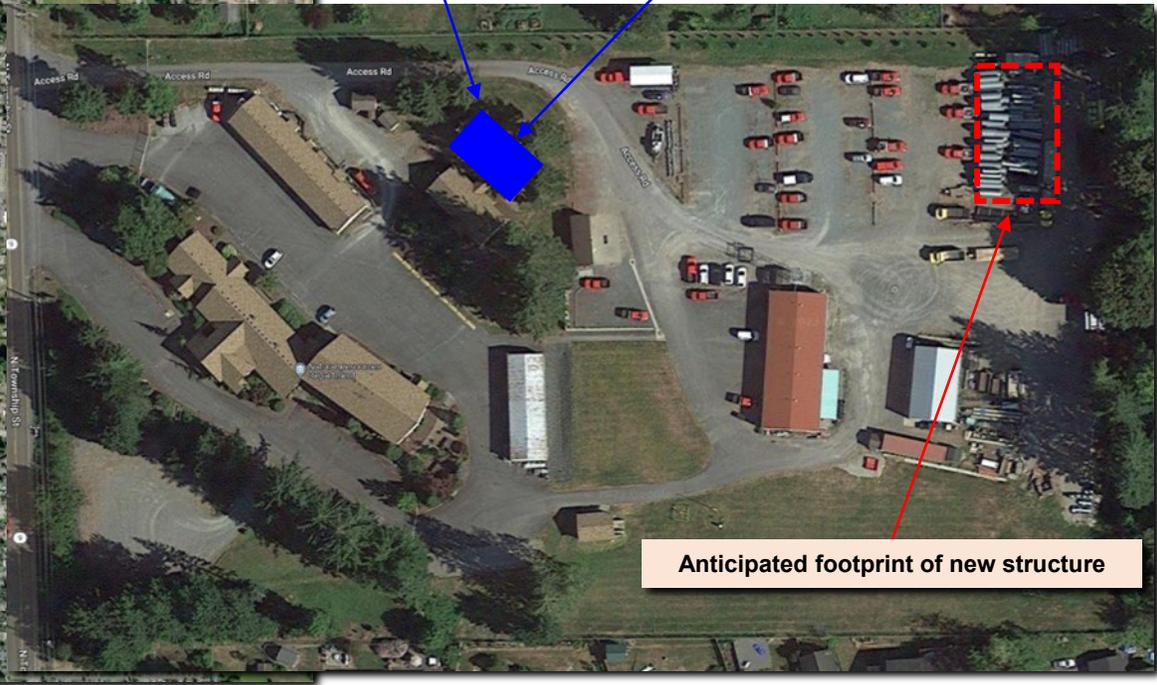
**Project located on existing DNR Property at the Northwest Region Headquarters site in Sedro-Woolley.**



Project replaces this leased site in a strip mall

F

Leased Annex Location



Anticipated footprint of new structure

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000620  
**Project Title:** Enumclaw Equipment Shop

## Description

**Starting Fiscal Year:** 2026  
**Project Class:** Program  
**Agency Priority:** 18

### Project Summary

This is a request for funds to construct a 7,700 square foot equipment shop and warehouse, demolition of three current structures, and storm water mitigation construction at the Department of Natural Resource's Enumclaw compound. This request funds the first of three phases and will total \$682,000.

### Project Description

#### ***Identify the problem or opportunity addressed. Why is the request a priority?***

The Department of Natural Resources (DNR) has three distinct issues that correlate to this project.

1. DNR requires an equipment shop at Enumclaw to sustain the increased fleet size. The Department has expanded heavy equipment operations by 43% including a 110% increase in heavy trucks, an 85% increase in heavy trailers, and a 51% increase in heavy equipment (dozers, loaders, graders). Enumclaw currently has no equipment maintenance bays or shop capacity, which is needed to sustain operations at Enumclaw.
2. The site at Enumclaw has storm water issues that require mediation for continued use. Storm water flow at the site has undercut the foundation of the current warehouse building, portions of the parking lot, and traffic ways. Damage from stormwater flow has put the structure of the warehouse at risk. The long-term solution will require construction of on-site drainage and containment structures to control water flow.
3. The existing warehouse and two outbuildings at the site are in poor condition. The warehouse is original to the site and was built in 1955. Both buildings are only partially conditioned and neither support the use of a forklift or other material handling equipment. The third existing outbuilding was formerly a gas house but is now used for storage and is not conditioned.

#### **What will the request produce or construct? When will the project start and be completed?**

This request seeks funding for the first of three phases, which will result in a completed pre-design for the future construction of an equipment shop, a warehouse structure, and a stormwater mitigation plan for the site. The pre-design will define spatial requirements for the program, as well as the path to securing construction permits, considering factors beyond those dictated by stormwater management. Additionally, the stormwater design will finalize the project's compliance requirements and set the parameters for future building design, ensuring alignment with the established stormwater infrastructure. Phase two of the project, scheduled for the 2027-2029 biennium, will focus on the building design, followed by phase three in the 2029-2031 biennium, which will encompass the construction of both the stormwater infrastructure and the shop and warehouse building.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

This project addresses three issues at the Enumclaw site. First, this project will provide the necessary shop capacity to sustain DNR's fleet requirements including those related to heavy equipment. Secondly, this project will address the storm water control issues at the site. Finally, this project will replace three structures that are well past the end of useful building life cycle and past the point of economical renovation. The result of not undertaking this project is to continue to operate at the Enumclaw site without a method to sustain the vehicle fleet. Secondly, the Department will continue to react over time to storm water damage to the warehouse facility.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:20PM

Project Number: 40000620

Project Title: Enumclaw Equipment Shop

## Description

### What alternatives were explored? Why was the recommended alternative chosen?

DNR has not undertaken a full deliberate exploration of alternatives in this case because of the structures and the requirement to add a structure coincide with operation of a larger compound. The base courses of action are to:

1) Make improvements to the existing region headquarters compound to continue and sustain future operations from the site as detailed in this request. This course of action was selected due to the size in terms of programs at the site, the cost of moving all functions at the site to a new site and the operational economies of collocation.

2) Move all activities including the region headquarters and personnel to a new site that accommodates all requirements. This course of action did not receive serious consideration due to the anticipated cost of new construction to relocate all function to a new and the improbability of addressing all the existing program requirements within the lease market (a leased compound).

3) Pursue a split-based approach to support vehicle maintenance off-site via lease, acquisition, or construction. This course of action, although potentially less expensive in immediately meeting vehicle maintenance requirements, fails to address the storm water issue at the Enumclaw site or the issues related to the existing outbuildings. Secondly, this type of solution abandons the economies of collocation of staff, equipment, and material storage. For these reasons, the Department chose to pursue the course of action detailed in this decision package.

### Which clientele would be impacted by the budget request?

The primary beneficiaries of this project are DNR employees servicing this portion of the state. The indirect beneficiaries of this project are the users of public lands in the area, and private landowners that will continue to receive expanded fire suppression response efforts.

Specifically, this project affects directly approximately 8-10 DNR positions, but indirectly affects the entirety of staff operating from the Enumclaw site (80 personnel).

### Does this project or program leverage non-state funding? If yes, how much by source?

This project does not leverage non-state funding.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project supports Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by significantly improving the working conditions for personnel operating in the area and will support continued fire suppression response efforts. This project also supports Priority Two, "Build Strong and Healthy Rural Communities," specifically that of strengthening partnerships with local stakeholders to address community economic development issues. This project supports Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by more effectively positioning resources including those in support of fire response in position to affect positive outcomes and with the means to act effectively.

### Does this request include funding for any IT-related cost?

This project does not include any IT-related costs.

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:20PM

Project Number: 40000620

Project Title: Enumclaw Equipment Shop

**Description**

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This project is not related to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Collectively, the total square footage of the structures in this decision package are all below square footage threshold for inclusion of Tier II reporting requirements under the Clean Buildings Act. The end state replacement structure envisioned to result from the design process is also well below Tier II thresholds.

This project will, however, replace three very energy inefficient structures with a new structure that meets the standards of the new building code and is therefore far more efficient to operate with respect to energy use. The building design will take full consideration of opportunities to reduce energy cost and use and utilize electric rather than fossil fuel powered systems.

**How is your proposal impacting equity in the state?**

This project relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards posed by work conducted at the existing sub-standard DNR Enumclaw site.

**Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay

**Is there additional information you would like decision makers to know when evaluating this request?**

Please see attached slide

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

No.

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

0.25 FTE - Construction Project Coordinator 3 & Natural Resource Scientist 3

**Location**

City: Enumclaw

County: King

Legislative District: 005

**Project Type**

New Facilities/Additions (Major Projects)

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:20PM

Project Number: 40000620

Project Title: Enumclaw Equipment Shop

**Description**

**Growth Management impacts**

The department does not anticipate issues regarding the Growth Management act as the site is within the city limits of Enumclaw and is of a use type already permitted at an operational Department owned location.

**New Facility:** Yes

**How does this fit in master plan**

This project will produce a new facility and remove three existing from the inventory. This project will allow continued operation of DNR.

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropr
057-1	State Bldg Constr-State	682,000				682,000
	<b>Total</b>	<b>682,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>682,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

Not applicable in 25-2027 Biennium

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

### **HEAL Act Questions**

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12)?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental

harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	DNR Enumclaw Equipment Shop
OFM Project Number	

Contact Information	
Name	Wayne Skill
Phone Number	360-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet	7,696	MACC per Gross Square Foot	\$0
Usable Square Feet	7,696	Escalated MACC per Gross Square Foot	\$0
Alt Gross Unit of Measure			
Space Efficiency	100.0%	A/E Fee Class	C
Construction Type	Shop and maintenance f	A/E Fee Percentage	16.76%
Remodel		Projected Life of Asset (Years)	50
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	No
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	8.90%	Location Used for Tax Rate	Enumclaw
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	A06968
Project Administered By	Agency		

Schedule			
Pre-design Start	September-25	Pre-design End	June-27
Design Start	September-27	Design End	June-29
Construction Start	October-29	Construction End	June-31
Construction Duration	20 Months		

Green cells must be filled in by user

Project Cost Summary			
Total Project	\$601,525	Total Project Escalated	\$680,336
		Rounded Escalated Total	\$680,000
Amount funded in Prior Biennia			\$0
<b>Amount in current Biennium</b>			<b>\$682,000</b>
Next Biennium			\$0
Out Years			-\$2,000

Acquisition			
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0

Consultant Services			
Pre-design Services	\$275,000		
Design Phase Services	\$0		
Extra Services	\$240,000		
Other Services	\$0		
Design Services Contingency	\$25,750		
<b>Consultant Services Subtotal</b>	<b>\$540,750</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$606,622</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$0	Maximum Allowable Construction Cost (MACC) Escalated	\$0
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$0		\$0
Non-Taxable Items	\$0		\$0
Sales Tax	\$0	Sales Tax Escalated	\$0
<b>Construction Subtotal</b>	<b>\$0</b>	<b>Construction Subtotal Escalated</b>	<b>\$0</b>

Equipment			
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$0</b>	<b>Equipment Subtotal Escalated</b>	<b>\$0</b>

Artwork			
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0

Agency Project Administration			
Agency Project Administration Subtotal	\$21,630		
DES Additional Services Subtotal	\$25,045		
Other Project Admin Costs	\$14,100		
<b>Project Administration Subtotal</b>	<b>\$60,775</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$73,714</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$601,525</b>	Total Project Escalated	<b>\$680,336</b>
		Rounded Escalated Total	<b>\$680,000</b>

# C-100(2024)

Updated June 2024

## Quick Start Guide

### GENERAL INFORMATION

- 1) The intended use of the C-100(2024) is to enable project managers to communicate their project cost estimates to budget officers in the standard format required for capital project budget requests/submittals to OFM.
- 2) This workbook is protected so that the worksheets within it cannot be moved or deleted in the usual manner. This protection is necessary to ensure that the cost estimate details and formulas align with the estimating application in the Capital Budgeting System.
- 3) The estimating format to develop the maximum allowable construction cost (MACC) is presented in Uniformat II.
- 4) Form-calculated costs such as A/E Basic Design Service fees and Agency Project Management costs are dependent on other estimated project costs such as MACC, equipment, etc.
- 5) Project estimates generated with this tool are not sufficient for budget request submittals to OFM. Use the Capital Budgeting System to submit capital project budget requests and attach the C-100 form.
- 6) Contact your assigned OFM Capital Budget Analyst with questions.

[OFM Capital Budget Analyst](#)

### INSTRUCTIONS

- 1) Only green cells are available for data entry.
- 2) Fill in all known cells in the 'Summary' tab prior to moving on to the cost entry tabs A-G.
- 3) It is recommended, but not required, to fill out cost entry tabs in the following order:  
A. Acquisition, C. Construction Contracts, D. Equipment, G. Other Costs, B. Consultant Services, F. Project Management, then E. Artwork.
- 4) If additional rows are inserted to capture additional project costs, a description must be provided in the Notes column or within Tab H. Additional Notes. Be particularly detailed for additional costs estimated for contingencies and project management.

### FORM-CALCULATED COSTS (FEE CALCULATIONS)

- 1) A/E Basic Design Services:  $AE\ Fee\ \% \times (MACC\ or\ TCC + Contingency)$
- 2) Design Services Contingency:  $Contingency\ \% \times Consultant\ Services\ Subtotal$
- 3) Construction Contingency:  $Contingency\ \% \times MACC\ or\ TCC$
- 4) Artwork:  $0.5\% \times Total\ Project\ Cost$
- 5) Agency Project Management (Greater than \$1million):  $(AE\ Fee\ \% - 3\%) \times (Acquisition\ Total + Consultant\ Services\ Total + MACC + Construction\ Contingency + Other\ Costs)$

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$0				\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$606,622		\$608,110		-\$1,488
<b>Construction</b>					
Construction Subtotal	\$0				\$0
<b>Equipment</b>					
Equipment Subtotal	\$0				\$0
<b>Artwork</b>					
Artwork Subtotal	\$0				\$0
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$73,714		\$73,891		-\$177
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0
<b>Project Cost Estimate</b>					
Total Project	\$680,336	\$0	\$682,001	\$0	-\$1,665
	\$680,000	\$0	\$682,000	\$0	-\$2,000
Percentage requested as a new appropriation			100%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**  
 Predesign of a vehicle maintenance shop/warehouse building on a sloped sight in Enumclaw and a storm water mitigation design for the site.  
 The storm water design will be complex given the site configuration.  
*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**  
 No previous work towards this project.  
*Insert Row Here*

**What is planned with a future appropriation?**  
 Full building design in subsequent biennium and construction in the biennium after.  
*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition	\$0				
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis	\$70,000				
Environmental Analysis	\$50,000				
Predesign Study	\$100,000				
Gopher Study/Mitigation	\$30,000				
Traffic Study	\$25,000				
<b>Sub TOTAL</b>	<b>\$275,000</b>		<b>1.1023</b>	<b>\$303,133</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$0				69% of A/E Basic Services
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1344</b>	<b>\$0</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)	\$30,000				
Geotechnical Investigation					
Commissioning					
Site Survey					
Testing	\$20,000				
LEED Services					
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)	\$190,000				Storm water design
Landscape Consultant					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$240,000</b>		<b>1.1344</b>	<b>\$272,256</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$0				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$25,750				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$25,750</b>		<b>1.2129</b>	<b>\$31,233</b>	Escalated to Mid-Const.

**CONSULTANT SERVICES TOTAL**

**\$540,750**

**\$606,622**

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation					
G20 - Site Improvements					
G30 - Site Mechanical Utilities					
G40 - Site Electrical Utilities					
G60 - Other Site Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1802</b>	<b>\$0</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements					
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1802</b>	<b>\$0</b>	
<b>3) Facility Construction</b>					
A10 - Foundations					
A20 - Basement Construction					
B10 - Superstructure					
B20 - Exterior Closure					
B30 - Roofing					
C10 - Interior Construction					
C20 - Stairs					
C30 - Interior Finishes					
D10 - Conveying					
D20 - Plumbing Systems					
D30 - HVAC Systems					
D40 - Fire Protection Systems					
D50 - Electrical Systems					
F10 - Special Construction					
F20 - Selective Demolition					
General Conditions					
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
	\$0			\$0 per GSF	

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**7) Owner Construction Contingency**

Allowance for Change Orders	\$0		
Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.2129</b>	<b>\$0</b>

**8) Non-Taxable Items**

Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.2129</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$0</b>		<b>\$0</b>
------------------	------------	--	------------

<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$0</b>		<b>\$0</b>
-------------------------------------	------------	--	------------

Green cells must be filled in by user

## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings					
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.2129</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$0</b>			<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$0				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$21,630				
Additional Services	\$25,045				
Other	\$14,100				Archaeology/Hisotrical
Insert Row Here					
<i>Subtotal of Other</i>	<i>\$14,100</i>				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$60,775</b>		<b>1.2129</b>	<b>\$73,714</b>	

Green cells must be filled in by user

## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.1802</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

*Insert Row Here*

**Tab B. Consultant Services**

*Insert Row Here*

**Tab C. Construction Contracts**

*Insert Row Here*

**Tab D. Equipment**

*Insert Row Here*

**Tab E. Artwork**

*Insert Row Here*

**Tab F. Project Management**

Project managed by Department Construction Project Coordinator and requires services of a Department Archaeologist.  
Project will require Architectural History report as well as archaeological report due to building age at site.

*Insert Row Here*

**Tab G. Other Costs**

*Insert Row Here*

# Enumclaw Equipment Shop – Pre-design

*At end state this project will add an equipment shop and warehouse building to the site, eliminate three existing structures and mitigate storm water issues with the Enumclaw Compound*

1) DNR requires equipment shop capacity at Enumclaw location to sustain increased fleet size including heavy equipment.

2) The Enumclaw site has significant storm water drainage issues, especially in the south-east quarter of the site. The runoff has undercut the foundations of the warehouse building as well as portions of the parking lot. Temporary repairs will forestall, but not solve either building or site issue.

3) All three structures noted on the map are well past normal recapitalization point in lifecycle and do not meet agency requirements. The warehouse is 69 years old, as is the metal building on the south side of the site. The former gas house is 48 years old and serves as additional storage.

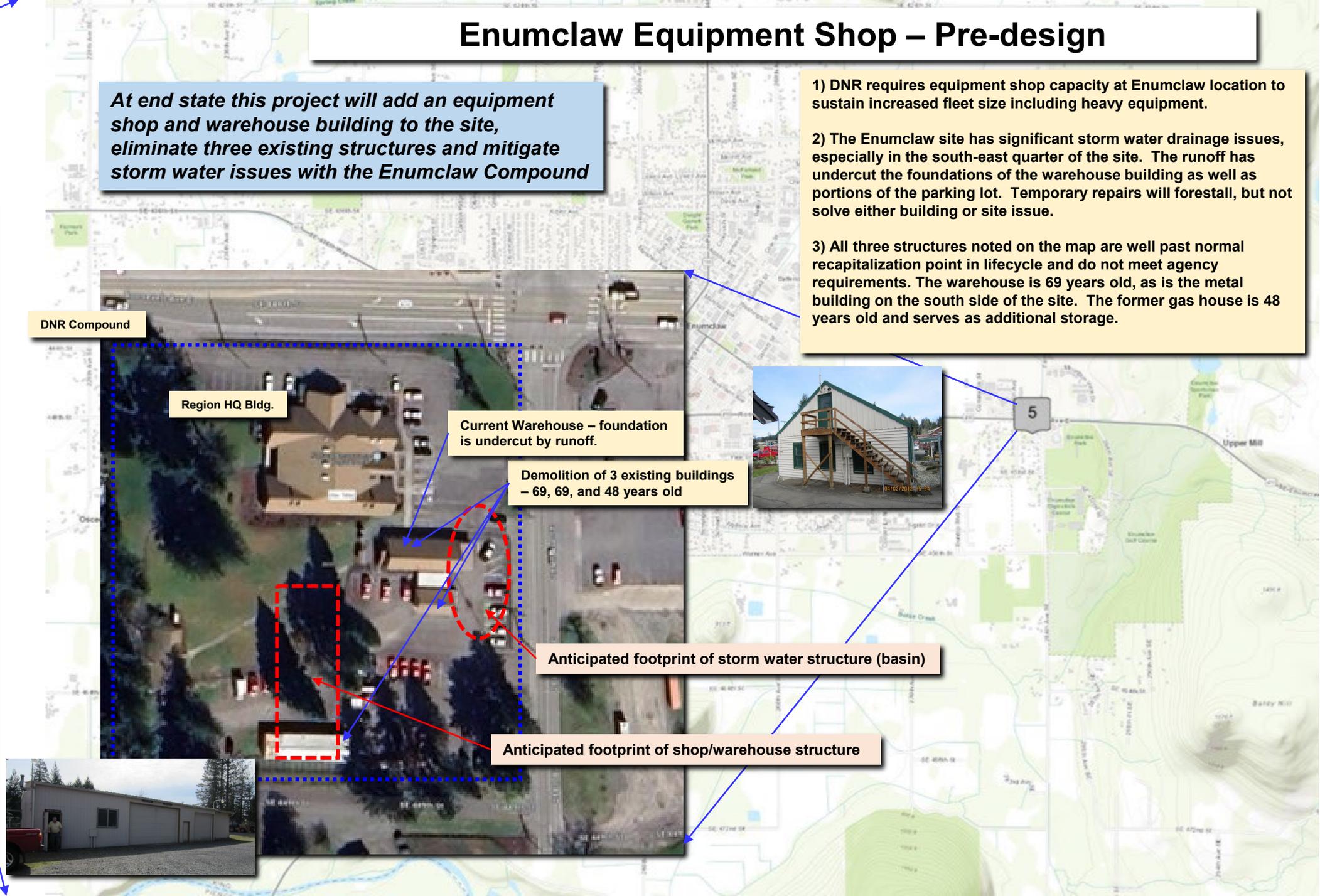
Project:  
2025 Request: **\$682,000**  
2025 Phase: **Pre-design.**

Total Project Cost: **\$TBD as a result of Pre-design.**

End state of project is construction of 7700 square feet of equipment shop and warehouse space. The pre-design will determine storm water and endangered species mitigation requirements and result in storm water mitigation design for the site. Three existing buildings will undergo demolition during the final construction phase.

Operating impact or request: **\$0 for '25-'27**

Project located on existing DNR property at the South Puget Region Headquarters site in Enumclaw.



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000586**Project Title:** Environmental Mitigation Projects

## Description

**Starting Fiscal Year:** 2026**Project Class:** Program**Agency Priority:** 19

### Project Summary

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

### Project Description

#### ***Project Description:***

The Department of Natural Resources (DNR) is actively identifying, assessing, and acting on environmental clean-up sites within State facilities and uplands. These clean-up sites often originate from historical agency operations and illicit dumping and can take years to remediate. Clean up actions aim to protect the States's land, air, and water in an efficient manner, often under the guidance of the Washington Department of Ecology's Voluntary Cleanup Program. Under the Model Toxics Control Act (MTCA), the agency is responsible for addressing these sites and as requesting funding to continue active cleanups, to address emergent cleanup needs, and to investigate additional locations with known environmental concerns.

#### **What will the request produce or construct? When will the project start and be completed?**

These projects are necessary to comply with the Model Toxics Control Act. The end state result at completion of all phases is removal of the individual sites from the Department of Ecology's Contaminated Sites List. DNR will complete the specific phases of each sub-project during the 2025-27 biennium. Authority for determination of the duration and actions necessary in subsequent phases rests with the Department of Ecology. The cost estimate for each sub-project is in the sub-project list accompanying this request.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The projects detailed will mitigate the environmental hazards at each site and bring the agency into compliance with both law and regulation regarding known hazards. The end state of all sub-projects is removal of each site from the Department of Ecology's Contaminated Sites List. Failure to take action will prevent the agency from eliminating the liability of non-compliance.

#### **What alternatives were explored? Why was the recommended alternative chosen?**

Each of the sub-projects or phases of sub-projects in this request follow a sequence of actions determined by the Department of Ecology. Therefore, there is no discretion with respect to selection of actions or alternatives on the part of DNR with respect to determining courses of action.

#### **Which clientele would be impacted by the budget request?**

The sub-projects in this request exist to comply with current law and regulation. The clientele of this request is the State of Washington.

#### ***Does this project or program leverage non-state funding? If yes, how much by source?***

No.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

## Description

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

These projects directly relate to DNR Strategic Priority D, "Strengthen the Health and Resilience of Our Lands and Waters" by mitigating known locations of soil and groundwater contamination on state managed lands or administrative sites.

**Does this request include funding for any IT-related cost?**

No.

If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, by mitigating known locations of soil and groundwater contamination on state managed lands or administrative sites.

The Influential Outcome directly advanced by this proposal include:

2.1 Reduce toxic chemicals entering Puget Sound and connected waters, including from roads, contaminated sediments, and industrial lands

The Strategies, Actions, and Key Opportunities directly advanced by this proposal include:

Strategy 10: Find and fix toxic hotspots (information, planning, education, funding, and implementation). (ID #41)

· Key opportunity: Secure funding for incentives and pilots to invest in targeted interventions including source control and treatment.

Strategy 10: Increase the streamlining of legal processes and the pace of clean-up of priority contaminated sites (information, planning, funding, implementation, and monitoring). (ID #61)

· Key opportunity: Increase funding and capacity for the State's clean-up program to undertake agency-initiated toxic cleanups and prioritize cleanups for Puget Sound recovery objectives.

The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 31: Reduce stormwater threats and accelerate clean-up of toxics harmful to orcas.

The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan

Addendum:

STRATEGY - Water Quality (4): Reduce sources of groundwater contamination and implement cleanup.

WQ: 4.3 Work with local organizations to cleanup sources of groundwater contamination and develop BMPs that can be shared widely

Costs were estimated from former expenditures from previous projects and services for similar activities. Estimations were also made by projecting future costs from ongoing phases of work for cleanup actions.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**Description**

The sub-projects do not directly address reduction of future carbon pollution but do directly address events of pollution to soils and groundwater at known locations. The purpose of this request is to remediate those occurrences in compliance with current law.

**How is your proposal impacting equity in the state?**

Proposed projects prioritize the health and well-being of people, ecosystems, and the land, air and water of Washington State. Many project locations are in rural areas and on state land open for public use. Rural communities often bear the brunt of pollution and illicit dumping. Project locations also include a corrections facility where incarcerated individuals reside and work. Projects aim to provide all Washington residents the right to live, work, and recreate in a clean and healthy environment.

**Is this project eligible for Direct Pay?**

No.

**Is there additional information you would like decision makers to know when evaluating this request?**

No.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

No.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

Environmental Engineer 6 (12 months FTE). This position is responsible for scoping, planning, contracting, coordinating, managing, and completing all aspects of each project.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Expenditures

2025-27 Fiscal Period

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**Funding**

Acct Code	Account Title	Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
23N-1	MTC Capital Account-State	997,000				997,000
	<b>Total</b>	<b>997,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>997,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
23N-1	MTC Capital Account-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000588

SubProject Title: Webster Nursery Groundwater Monitoring

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

In 2018, pesticide (heptachlor epoxide) contaminated soil at the Webster Forest Nursery was excavated from an area on the southeast corner of the site near where a former leaking underground storage tank (UST) was located. Since then, groundwater has been monitored to evaluate conditions at the site and in 2024, DNR believes that the monitoring requirements for the site have been satisfied. Existing site reports are under review by Department of Ecology and DNR anticipates receiving a No Further Action Determination in Fall 2024. DNR is seeking funding to decommission the wells on site and to finalize the Environmental Covenant and County requirements.

**Location**

City: Tumwater

County: Thurston

Legislative District: 035

**Project Type**

Health, Safety and Code Requirements (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

SubProject Number: 40000588

SubProject Title: Webster Nursery Groundwater Monitoring

Growth Management impacts

None

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
23N-1	MTC Capital Account-State	68,000				68,000
	<b>Total</b>	<b>68,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
23N-1	MTC Capital Account-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000589

SubProject Title: Cedar Creek Corrections Dip Tank

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

A release at the Cedar Creek Corrections Center, located in Littlerock, occurred in the 1980s, was associated with a former dip tank and resulted in subsurface contamination. The site is currently enrolled in the Voluntary Cleanup Program (VCP) and is undergoing additional soil sampling and groundwater investigation. DNR plans to continue ongoing investigation and cleanup work under guidance from the VCP

**Location**

City: Olympia

County: Thurston

Legislative District: 035

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

**Project Type**

SubProject Number: 40000589

SubProject Title: Cedar Creek Corrections Dip Tank

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
23N-1	MTC Capital Account-State	225,000				225,000
	<b>Total</b>	<b>225,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
23N-1	MTC Capital Account-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000590

SubProject Title: Southeast Regional Headquarters Remediation

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

SubProject Number: 40000590

SubProject Title: Southeast Regional Headquarters Remediation

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

DNR's Southeast Regional headquarters property is in Ellensburg and is currently listed as Leaking Underground Storage Tank Facility No. 11935, with a start date of October 19, 1998. Site characterization and cleanup has been conducted as an independent action in 2017. Soil and groundwater contamination has been present at the site due to a release associated with underground storage tanks (USTs), and the associated dispensers that were formerly located north and south of the former Gashouse building on the site. DNR is enrolled in the Pollution Liability Insurance Agency's Technical Assistance Program (TAP #P-C2565). DNR intends to continue groundwater monitoring and initiate bioremediation injections in pursuit of a No Further Action determination for the site.

**Location**

City: Ellensburg

County: Kittitas

Legislative District: 013

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
23N-1	MTC Capital Account-State	274,000				274,000
	<b>Total</b>	<b>274,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>274,000</b>
<p align="center"><b>Future Fiscal Periods</b></p>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
23N-1	MTC Capital Account-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

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SubProject Number: 40000591

SubProject Title: DNR Historic Tar Release

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

A heavy fuel release was identified on the surface of DNR managed forest land just off FR2480 (near Hama Hama) in 2018. Initial sampling identified that the substance present is a heavy fuel oil #5 or #6, a.k.a. bunker fuel, similar in consistency to road or roofing tar. Archeologists and environmental staff believe the release is result of historical logging operations. DNR is seeking funding for continued participation in The Department of Ecology's Voluntary Cleanup Program (VCP).

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
23N-1	MTC Capital Account-State	105,000				105,000
	<b>Total</b>	<b>105,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>105,000</b>
			<b>Future Fiscal Periods</b>			
			<b>2027-29</b>	<b>2029-31</b>	<b>2031-33</b>	<b>2033-35</b>
23N-1	MTC Capital Account-State		0	0	0	0
	<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

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490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

SubProject Number: 40000592

SubProject Title: Emergent Spills of Release on State Land

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

DNR is requesting funding to address emergent spills or releases that happen on state land due to illicit dumping for incidents that pose immediate risk to human health or the environment. This funding will be used to execute immediate cleanup actions. DNR intends for the outcomes of this work to prevent additional sites from being added to the Department of Ecology's Confirmed and Suspected Contaminated Sites (CSCS) list and to save the state costs associated with more extensive cleanups if the releases are not handled in a timely manner. This request is a probable need for incidents as they occur.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Approps
23N-1	MTC Capital Account-State	112,000				112,000
<b>Total</b>		<b>112,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>112,000</b>

**Future Fiscal Periods**

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
		23N-1	MTC Capital Account-State	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

SubProject Number: 40000593

SubProject Title: Cassidy Road Target Shooting Site

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

DNR's Cassidy Road site located in Clallam County is currently listed as a metals contaminated site from spent munitions. An investigation completed in February 2022 confirmed metals above Model Toxics Control Act (TCA) Method A cleanup Levels and carcinogenic polycyclic aromatic hydrocarbon concentrations above toxicity equivalency factors. DNR is in the first phase of an independent remedial cleanup action and expects it to continue into the following biennium.

**Location**

City: Sequim

County: Clallam

Legislative District: 024

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropr
23N-1	MTC Capital Account-State	64,000				64,000
	<b>Total</b>	<b>64,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
23N-1 MTC Capital Account-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

SubProject Number: 40000594

SubProject Title: Larch Mountain Battery Storage

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

DNR's Larch Mountain battery storage site is a legacy cleanup site dating back to the 1980's. This site is associated with metals/acids contamination. The site was previously in the VCP, however this was terminated after the site was not funded in 2018. DNR plans to reopen the project and conduct an environmental investigation that will address Ecology's concerns regarding the site with the goal to reach site closure.

**Location**

City: Washougal

County: Clark

Legislative District: 014

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
23N-1	MTC Capital Account-State	93,000				93,000
	<b>Total</b>	<b>93,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>93,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
23N-1 MTC Capital Account-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 8:01PM

Project Number: 40000586

Project Title: Environmental Mitigation Projects

**SubProjects**

SubProject Number: 40000595

SubProject Title: Hoh River Resort

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 19

**Project Summary**

This series of projects are to conduct environmental cleanup operations at several Department of Natural Resources (DNR) locations in accordance with law and environmental regulations. This request is related to Puget Sound Action Agenda Implementation (PSAAI).

**Project Description**

The Hoh River Resort site was a former general store, office, and gas station (diesel and gasoline) that provided overnight accommodations and resided on DNR land and extended into the Washington State Department of Transportation (WSDOT) Right-of-Way (ROW) of US Highway 101. The resort was demolished around 2013. In 2019, the active underground storage tank was removed by WSDOT, however historical subsurface contamination beneath the dispensers was not addressed. DNR plans to conduct an environmental investigation to the area beneath the former fuel dispensers and around the abandoned storage tank to determine if petroleum products were released and if a larger remedial effort is needed. This information will also inform future actions when the bulkhead needs to be removed.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
23N-1	MTC Capital Account-State	56,000				56,000
	<b>Total</b>	<b>56,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
23N-1	MTC Capital Account-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**OFM**

**490 - Department of Natural Resources  
Capital Project Request**

**2025-27 Biennium**

\*

**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 8:01PM

**Project Number:** 40000586

**Project Title:** Environmental Mitigation Projects

**SubProjects**

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

All projects are associated with mitigating known locations of soil and groundwater contamination on state managed lands or administrative sites. Many project locations are in rural areas and on state land open for public use. Rural communities often bear the brunt of pollution and illicit dumping.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

The estimated percentage of funds that will go to creating environmental benefits in overburdened communities and vulnerable populations is roughly 56%. The following projects highlighted in green are projects within OFM's Overburdened Communities of Washington State map. The estimated sum of costs for these projects was divided by the overall total to generate the estimated percentage.

Sub Project Title <i>Listed in Priority Order</i>	Nearest City	Estimated Total \$	Overburdened Community?	%	Total
Webster Nursery Groundwater Monitoring - Cleanup Site ID: 3380	Tumwater	67,800.00	No	0%	\$ -
Cedar Creek Corrections Dip Tank - Cleanup Site ID: 662	Littlerock	225,000.00	No	0%	\$ -

Southeast Regional Headquarters Remediation - Cleanup Site ID: 6084	Ellensburg	\$ 274,000.00	Yes	100%	\$ 274,000.00
DNR Historic Tar Release (FR2480) - Cleanup Site ID: 15041	Eldon	\$ 105,000.00	Yes	100%	\$ 105,000.00
Emergent Spills or Release on State Land		\$ 112,000.00	Yes	50%	\$ 56,000.00
Cassidy Road Target Shooting Site - Cleanup Site ID: 3958	Sequim	\$ 64,200.00	Yes	100%	\$ 64,200.00
Larch Mountain Battery Storage (Cleanup Site ID:2762)	Washougal	\$ 93,000.00	No	0%	\$ -
Hoh River Resort (Cleanup Site ID:11237/LUST 96298425)	Forks	\$ 55,500.00	Yes	100%	\$ 55,500.00
<b>Total</b>		<b>\$ 996,500</b>	<b>Allotment going towards overburdened communities:</b>		<b>\$ 554,700.00</b>
<b>Percentage of total:</b>					<b>56%</b>

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No significant impacts to Tribes' rights and interests are expected due to all projects operating in accordance with Governor's Executive Order 21-02. If concerns arise, DNR will work with both the Department of Archeological and Historical Preservation and Tribal entities to mitigate and/or alleviate impacts.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

For each project, a cultural resources review and Tribal consultation will be completed prior to any ground disturbing activities in accordance with Governor's Executive Order 21-02. DNR follows the agencies inadvertent discovery plan (IDP) for all projects. If archeological resources are discovered, work will be stopped, Tribal contacts will be notified, and the Site will be secured in accordance with the IDP.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not Applicable.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.

## Capital Sub-Projects 2025-27 Budget Request

**Capital Project Name:**  
**Project #:**

Environmental Mitigation Projects

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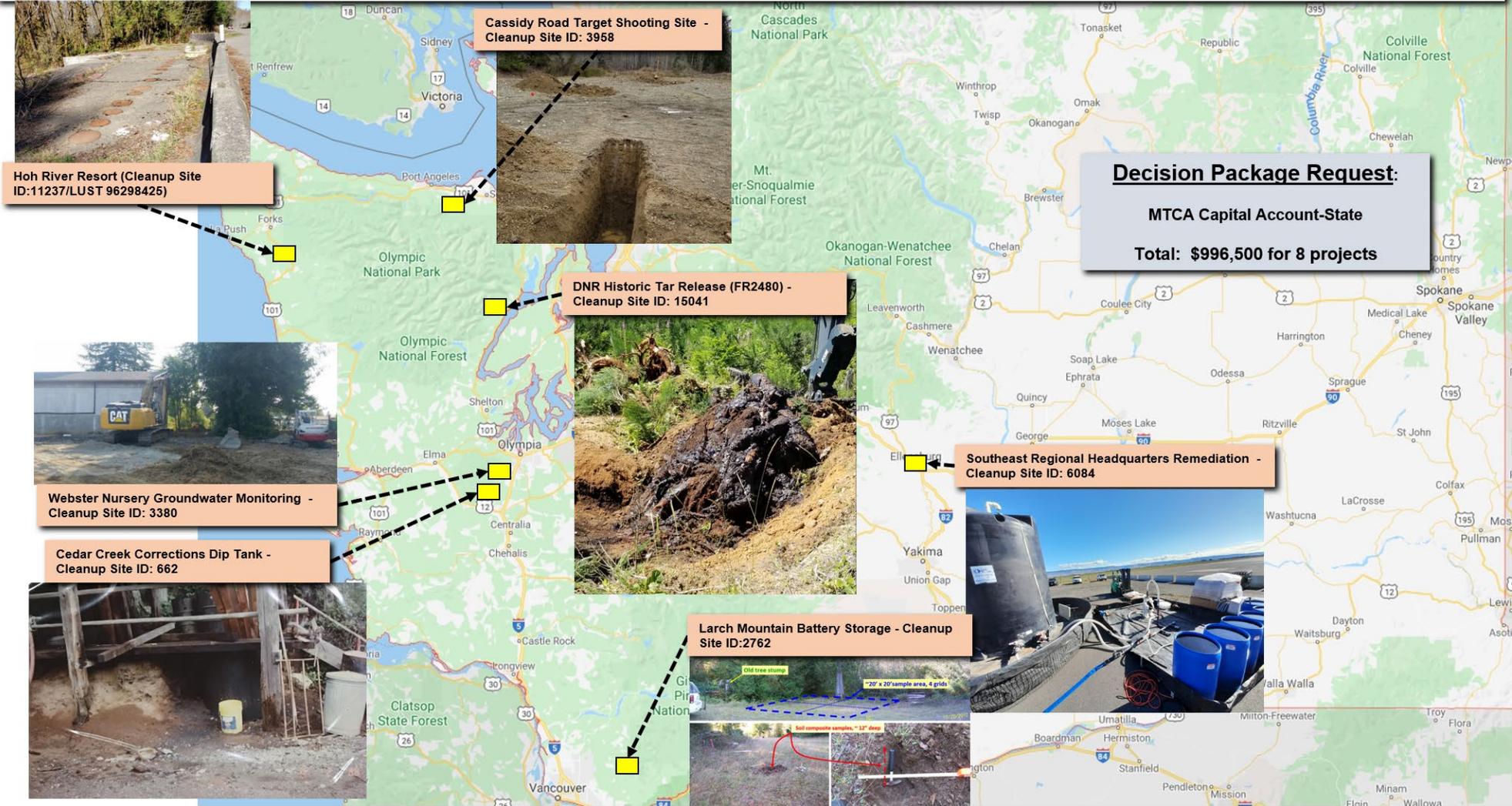


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**Total Request**  
**\$ 996,500**

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$
Webster Nursery Groundwater Monitoring - Cleanup Site ID: 3380	South Puget	Tumwater	46.947331, -122.951903	35	1	\$ 67,800.00
Cedar Creek Corrections Dip Tank - Cleanup Site ID: 662	South Puget	Littlerock	46.885883, -123.141806	35	1	\$ 225,000.00
Southeast Regional Headquarters Remediation - Cleanup Site ID: 60	Southeast	Ellensburg	47.028943, -120.538763	13	1	\$ 274,000.00
DNR Historic Tar Release (FR2480) - Cleanup Site ID: 15041	South Puget	Eldon	47.575680, -123.090130	35	1	\$ 105,000.00
Emergent Spills or Release on State Land	Statewide				1	\$ 112,000.00
Cassidy Road Target Shooting Site - Cleanup Site ID: 3958	Olympic	Sequim	48.064214, -123.219247	24	1	\$ 64,200.00
Larch Mountain Battery Storage (Cleanup Site ID:2762)	Pacific Cascade	Washougal	45.732444, -122.347056	14	1	\$ 93,000.00
Hoh River Resort (Cleanup Site ID:11237/LUST 96298425)	Olympic	Forks	47.790222, -124.250861	24	1	\$ 55,500.00
<b>Total</b>						<b>\$ 996,500</b>

# Proposed Environmental Mitigation Projects – 25-27 Budget Decision Package



**Emergent Spills or Release on State Land  
-Statewide-**

**2023-2024 Incidents**



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000458

**Project Title:** 2025-27 Minor Works Programmatic

## Description

**Starting Fiscal Year:** 2026

**Project Class:** Program

**Agency Priority:** 20

### Project Summary

This proposal for \$6,153,777 encompasses five sub-projects aimed at meeting the Department of Natural Resources' mandate to enhance fire suppression capabilities. This involves the replacement or addition of equipment maintenance and storage facilities across five state sites, ensuring the effective upkeep and readiness of heavy equipment critical for fire management operations.

### Project Description

#### Project Description:

The Department of Natural Resources (DNR) has requirements to replace three storage structures that do not meet current needs, plus one shop and one storage structure to maintain equipment and vehicles across the state.

In the last three years, DNR has expanded heavy equipment operations by 43% including a 110% increase in heavy trucks, an 85% increase in heavy trailers, and a 51% increase in heavy equipment (dozers, loaders, graders) maintained by the department on order to support fire suppression, forestry, and other DNR operations. To support maintenance of this expanded fleet, DNR needs to install an addition at Colville that will enclose the vehicles while mechanics provide service. The department must also replace three storage structures that are well past the point of recapitalization, not weather tight, and do not accommodate the equipment or vehicles that DNR needs to store. The department must also add an additional facility at one location to support year-round basing of a fire engine.

#### **What will the request produce or construct? When will the project start and be completed?**

The sub-project in this request replaces three existing structures and adds two new structures for vehicle maintenance and storage at five of the compounds across the state. None of the projects have more than a single phase and all work will start and complete during the 2025-27 biennium.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

- 1. Colville Shop Expansion:** This sub-project will expand existing maintenance shop capacity to facilitate the maintenance of heavy equipment necessary to support the department's fire suppression and forest road maintenance efforts on private and public land. If not built, agency mechanics will continue to conduct maintenance operations outside in conditions that do not support the activity of workers.
- 2. Port Angeles Storage Bldg. Replacement:** This sub-project will replace a failing structure that is past the point of recapitalization with a structure that will be able to accommodate fire engines that support the region's fire suppression activities. The bays in the existing structure are not weather tight and are too shallow to store the fire engines. If not constructed, the department will still need to demolish the existing structure within the next several biennia due to safety concerns.
- 3. Sedro-Woolley Fire Cache Bldg. Replacement:** This sub-project will replace a structure that is not weather tight and does not protect the fire equipment (hoses, pumps, saws, tools, uniform and safety items) from moisture. The building is well past the point of recapitalization. If not replaced, the department will likely need to investigate the lease of off-site storage capacity.
- 4. Menlo Storage Bldg. Replacement:** This sub-project demolishes a failing structure that is not weather-tight and replaces it with a new storage building that will accommodate fire engines and training space for fire crew. If not built the department will need to remove the existing structure to mitigate safety related to the foundation.
- 5. Naselle Garage and Pad:** This sub-project will construct a vehicle storage garage to store a fire engine and equipment required for one fire engine crew. Additionally, this sub-project builds a trailer pad with water and electrical hook-ups to

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**Description**

support seasonal use by fire crews as a flexible housing option in a remote location. If not built, the department will not have a secure, and weather-tight storage solution for fire equipment in this area of the state.

**What alternatives were explored? Why was the recommended alternative chosen?**

The sub-projects included in this request support larger programs and activities at the same location and therefore do not present opportunities to move to a new location or solve via an off-site lease without significant increases in operating cost and lost efficiency.

**Which clientele would be impacted by the budget request?**

The sub-projects in this request directly affect the working conditions of 78 employees and the security and stewardship of equipment at five locations across the state.

**Does this project or program leverage non-state funding? If yes, how much by source?**

None of the sub-projects in this request leverage or involve non-state funding.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

These sub-projects in this request directly relate to DNR Strategic Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by maintaining safe and adequate working conditions for agency personnel. These projects support Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by improving the working conditions at DNR work sites that more effectively position fire, forest health and forestry resources in places to affect positive outcomes.

**Does this request include funding for any IT-related cost?**

The various sub-projects included in this request do not have any IT related costs.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

None of the sub-projects in this request are linked to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

The sub-projects within this request are exempt from the clean building performance standards due to the semi conditioned spaces being less than 50,000 square feet (RCW 19.27A.210.8.C.iii). All projects are also below Tier 2 size thresholds for reporting.

**How is your proposal impacting equity in the state?**

The sub-projects at Colville, Port Angeles, Sedro-Woolley, and Menlo relate directly to Section 2, (4) (a) and 2 (5) of the Healthy Environment for All (HEAL) Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards posed by work conducted exposed to

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**Description**

the weather at DNR sites.

The sub-project at Naselle will create infrastructure to support temporary housing for seasonal employees in a housing market that otherwise does not provide adequate affordable housing opportunities.

**Is this project eligible for Direct Pay?**

None of the sub-projects in this request are eligible for Direct Pay.

**Is there additional information you would like decision makers to know when evaluating this request?**

See slide with photos and locations attached to this decision package.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action?**

None of the sub-projects in this request are linked to the Governor’s Salmon Strategy.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

0.96 FTE Construction Project Coordinator 3 (23 staff months), to perform contract management, permitting, change orders, budget management, control of scope and schedule, and all coordination related to the project.

0.33 FTE Natural Resources Scientist 3 (4 staff months), for archaeology work including tribal contact and clearance of the project through Department of Archaeology and Historic Preservation.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**How does this fit in master plan**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	6,153,000				6,153,000

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

<b>Funding</b>						
<b>Total</b>		<b>6,153,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,153,000</b>
		<b>Future Fiscal Periods</b>				
		<b>2027-29</b>	<b>2029-31</b>	<b>2031-33</b>	<b>2033-35</b>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

Total one time start up and ongoing operating costs

<b>Acct Code</b>	<b>Account Title</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>
FTE	Full Time Employee	6.8	6.8	8.8	8.8
001-1	General Fund-State	1,151,000	1,151,000	1,488,000	1,488,000
	<b>Total</b>	<b>1,151,000</b>	<b>1,151,000</b>	<b>1,488,000</b>	<b>1,488,000</b>

**Narrative**

The affiliated Operating Package is ML - 9W Operating Costs/Proposed Capital Projects. RecSum: Maintenance funding for the operation of new administrative facilities, recreation and natural areas under request for construction or acquisition during 2025-27 Biennium.

**SubProjects**

SubProject Number: 40000655

SubProject Title: Colville Shop Expansion

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**SubProjects**

SubProject Number: 40000655

SubProject Title: Colville Shop Expansion

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 20

**Project Summary**

This proposal for \$6,153,777 encompasses five sub-projects aimed at meeting the Department of Natural Resources' mandate to enhance fire suppression capabilities. This involves the replacement or addition of equipment maintenance and storage facilities across five state sites, ensuring the effective upkeep and readiness of heavy equipment critical for fire management operations.

**Project Description**

At an estimated \$1,303,350, this sub-project will expand an existing maintenance shop by constructing a free-standing, 2,000 square foot pre-engineered metal building that allows roll-through operations to maintain heavy equipment from DNR's Northeast Region. The department has substantially increased the density of heavy equipment including graders, loaders, dozers, dump trucks and trailers that it utilizes to maintain roads and support fire suppression in the region. The larger equipment does not safely fit into the existing shop facility in Colville and expansion of the facility is necessary to maintain the equipment in working order.

**Location**

City: Colville

County: Stevens

Legislative District: 007

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,303,000				1,303,000
	<b>Total</b>	<b>1,303,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,303,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**SubProjects**

SubProject Number: 40000655

SubProject Title: Colville Shop Expansion

Operating Impacts

No Operating Impact

SubProject Number: 40000549

SubProject Title: Port Angeles Storage Bldg. Replacement

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 20

**Project Summary**

This proposal for \$6,153,777 encompasses five sub-projects aimed at meeting the Department of Natural Resources' mandate to enhance fire suppression capabilities. This involves the replacement or addition of equipment maintenance and storage facilities across five state sites, ensuring the effective upkeep and readiness of heavy equipment critical for fire management operations.

**Project Description**

Sub-Project Summary 2: Port Angeles Storage Bldg. Replacement

At an estimated \$1,257,023, this sub-project demolishes a 63-year-old vehicle storage structure that is past the point of recapitalization and will replace the building with a 1,920 square foot vehicle storage building configured with bays that will accommodate the DNR fire engines. The current building is unsound structurally, has a dirt floor covering approximately 50% of the floor area, is not weather tight, and the bays are not deep enough to accommodate fire engines.

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Expenditures		2025-27 Fiscal Period		
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,257,000				1,257,000
<b>Total</b>		<b>1,257,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,257,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**SubProjects**

SubProject Number: 40000549

SubProject Title: Port Angeles Storage Bldg. Replacement

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000550

SubProject Title: Sedro-Woolley Fire Cache Bldg. Replacement

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 20

**Project Summary**

This proposal for \$6,153,777 encompasses five sub-projects aimed at meeting the Department of Natural Resources' mandate to enhance fire suppression capabilities. This involves the replacement or addition of equipment maintenance and storage facilities across five state sites, ensuring the effective upkeep and readiness of heavy equipment critical for fire management operations.

**Project Description**

Sub-Project Summary 3: Sedro-Woolley Fire Cache Bldg. Replacement

At an estimated \$1,313,095, this sub-project replaces 59-year-old metal building that houses the Fire Cache for the department's Northwest Region and that is no longer weather tight. This sub-project will replace the current structure with an 1,800 square foot storage facility for fire equipment including saws, pumps, hose, and crew carried items on the footprint of the existing structure.

**Location**

City: Sedro-Woolley

County: Skagit

Legislative District: 039

**Project Type**

Program (Minor Works)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**SubProjects**

SubProject Number: 40000550

SubProject Title: Sedro-Woolley Fire Cache Bldg. Replacement

Growth Management impacts

N/A

New Facility: No

How does this fit in master plan

N/A

Funding

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
057-1	State Bldg Constr-State	1,313,000				1,313,000
	<b>Total</b>	<b>1,313,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,313,000</b>

Future Fiscal Periods

Acct Code	Account Title	2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

SubProject Number: 40000551

SubProject Title: Menlo Storage Bldg. Replacement

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**SubProjects**

SubProject Number: 40000551

SubProject Title: Menlo Storage Bldg. Replacement

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 20

**Project Summary**

This proposal for \$6,153,777 encompasses five sub-projects aimed at meeting the Department of Natural Resources' mandate to enhance fire suppression capabilities. This involves the replacement or addition of equipment maintenance and storage facilities across five state sites, ensuring the effective upkeep and readiness of heavy equipment critical for fire management operations.

**Project Description**

**Sub-Project Summary 4: Menlo Storage Bldg. Replacement**

At an estimated \$1,283,854, this sub-project replaces a 46-year-old pole building (not fully enclosed) that is in disrepair and poses a safety risk with a building that provides vehicle storage and a training room. The foundation of the current structure is disintegrating, and the building does not support secure, weather-tight storage. The department has a need for a training room at this site to support fire fighter training as well as meetings. A plan for a dual-purpose, 1,860 square foot structure will satisfy multiple requirements.

**Location**

City: Raymond

County: Pacific

Legislative District: 019

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**How does this fit in master plan**

N/A

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	1,284,000				1,284,000
	<b>Total</b>	<b>1,284,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,284,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**SubProjects**

SubProject Number: 40000551

SubProject Title: Menlo Storage Bldg. Replacement

No Operating Impact

Narrative

N/A

SubProject Number: 40000552

SubProject Title: Naselle Garage and Pad

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 20

**Project Summary**

This proposal for \$6,153,777 encompasses five sub-projects aimed at meeting the Department of Natural Resources' mandate to enhance fire suppression capabilities. This involves the replacement or addition of equipment maintenance and storage facilities across five state sites, ensuring the effective upkeep and readiness of heavy equipment critical for fire management operations.

**Project Description**

**Sub-Project Summary 5: Naselle Garage and Pad**

At an estimated \$996,455, this sub-project constructs an additional vehicle storage garage at the Naselle Work Center to support operation of a fire engine year-round at the site. This project will also provide a trailer pad with water and electrical hook-ups to support a flexible housing solution for seasonal fire fighters at this location.

**Location**

City: Long Beach

County: Pacific

Legislative District: 019

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	996,000				996,000
	<b>Total</b>	<b>996,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>996,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:53PM

Project Number: 40000458

Project Title: 2025-27 Minor Works Programmatic

**SubProjects**

SubProject Number: 40000552

SubProject Title: Naselle Garage and Pad

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Operating Impacts

No Operating Impact

Narrative

N/A

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## **HEAL Act Questions**

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

Click or tap here to enter text.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 6,153,777**

**Capital Project Name:** 2025-27 Minor Works Programmatic  
**Project #:** \_\_\_\_\_

- Project Types  
 1: Health, safety & code req  
 2: Facility preservation  
 3: Infrastructure preservation  
 4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
Colville Shop Expansion	Northeast	Colville	48.543217, -117.887575	7	4	1,303,350	New construction to accommodate heavy equipment maintenance
Port Angeles Storage Bldg Replacement	Olympic	Port Angeles	48.105101, -123.364568	24	1	1,257,023	Demolish failing structure, replace with new construction
Sedro-Woolley Fire Cache Bldg Replacement	Northwest	Sedro-Woolley	48.521885, -122.225115	39	1	1,313,095	Demolish failing structure, replace with new construction
Menlo Storage Bldg Replacement	Pacific Cascade	Menlo	46.626688, -123.651689	19	1	1,283,854	Demolish failing structure, replace with new construction
Naselle Garage and Pad	Pacific Cascade	Naselle	46.380985, -123.815085	19	4	996,455	New construction to accommodate fire engine
<b>Total</b>						<b>\$ 6,153,777</b>	

# Proposed Capital Minor Works Programmatic Projects – '25-'27 Budget Decision Package

2

**Port Angeles:** Replace existing 63-year-old structure that has a dirt floor under half of the building with 1920 SF vehicle storage building that will accommodate the Department's fire engines. Sub-project replaces the building pictured below



3

**Sedro-Woolley:** Replace the existing Fire Cache structure with an 1800 SF Fire Cache structure (storage facility). The current structure, pictured below, is not weather tight and it is not feasible to repair the building.



1

**Colville:** Add a new 2000 SF free-standing metal shop building addition to the existing shop pictured below. Heavy equipment (graders, loaders, bulldozers) do not fit in the existing shop building and DNR has more than doubled the density of its heavy equipment fleet.



4

**Menlo:** Replace the existing open-faced storage building with an 1860 SF vehicle storage & training room building that will accommodate fire engine parking and replace building pictured to the right



5

**Naselle Work Center:** Add a second 1200 SF vehicle storage building to support the year-round fire engine stationed at the work center. This project also adds trailer pad with utilities to support flexible housing options for seasonal fire crew



**Decision Package Request:**

**Total: \$6,153,777. Five projects at five sites.**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000440**Project Title:** Post-Wildfire Reforestation Grant Program

## Description

**Starting Fiscal Year:** 2026**Project Class:** Program**Agency Priority:** 22

### Project Summary

This proposal seeks funding to provide post-wildfire reforestation grants. A \$2.5 million capital budget appropriation will fund an established grant program to meet the need in Washington to invest in reforestation, seedling supply, and infrastructure required to produce seedlings through Tribes, non-profits, private landowners, local governments, and other state agencies. Funding this program is vital for rebuilding our forests and mitigating ongoing wildfire impacts. Related to Puget Sound Action Agenda Implementation.

### Project Description

***Identify the problem or opportunity addressed. Why is the request a priority?***

*Request: \$2,500,000 for the Post-Wildfire Reforestation Grant program.*

*Goal: Administer grants to support reforestation, seedling infrastructure, and workforce development to facilitate the restoration of forests in burned areas across Washington. Through grants the Department of Natural Resources (DNR) aims to plant 500,000 seedlings during the 2025-27 biennium.*

Severe fires have had, and are likely to continue to have, major impacts in eastern and western Washington, removing vast areas of forest. As our climate continues to warm, the urgency to re-establish forests before changing conditions make it impossible becomes more pronounced. The lack of natural reforestation following severe wildfires leads to prolonged loss of forest cover, reducing ecosystem resilience and biodiversity. Without intervention, these areas struggle to recover, furthering the negative environmental and economic impacts of wildfires. The need for more reforestation and seed collection infrastructure, a skilled workforce, and an adequate supply of dry conifer seedlings severely hampers post-fire reforestation efforts. Without these critical resources, restoring forest cover and building climate resilience after severe fires has become a significant challenge. Strategic grant investments can boost the long-term seedling supply and enable timely, practical post-fire reforestation efforts statewide on affected acres.

The Department of Natural Resources (DNR) requests \$2,500,000 to administer an existing grant program to support reforestation, seedling infrastructure and workforce development to facilitate the restoration of forests in burned areas across Washington. Post-wildfire reforestation is a proven, cost-effective strategy with a high success rate for forest restoration, carbon sequestration, and reducing detrimental post-fire effects—both natural and cultural. Research and practice have shown that post-wildfire reforestation leads to more successful tree survival on a larger landscape than relying solely on local seed source regeneration.

In 2024, the Washington State Legislature recognized the importance of investing in the seedling supply and providing the technical and financial assistance to support forest landowners in timely, successful reforestation after a wildfire. Through a capital budget proviso, the legislature directed \$2,500,000 for DNR to administer grants for post-wildfire reforestation on lands owned by tribes, non-profit organizations, industrial and nonindustrial private forest landowners, local governments, and other state agencies. DNR successfully established the grant program and released a Request for Applications to solicit awards, while recognizing that our state's reforestation needs are much larger than this initial investment and increase following each fire season. With this proposal, DNR seeks to build from the legislature's investment in 2024 by extending the grant program to make new awards for strategic and necessary reforestation work in the 2025-27 biennium.

Our goal is to reverse the loss of forest cover caused by severe wildfires and drought. Through this state-funded investment strategy, DNR will administer this established grant program to solicit and invest in new reforestation and seedling supply projects as well as the infrastructure to produce high-quality, drought-tolerant seedlings. Providing post-wildfire reforestation grants to lands owned by tribes, non-profit organizations, private forest landowners, local governments, and other state

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:55PM

Project Number: 40000440

Project Title: Post-Wildfire Reforestation Grant Program

## Description

agencies will allow DNR to put a critical tool of the healthy forest management and climate adaptation toolbox into the hands of local managers. Recent advancements in nursery practices allow managers to grow hardier seedlings more tolerant to drought and warmer conditions. DNR will fund partners to install state-of-the art nursery infrastructure to improve the quantity and quality of seedlings for Washington State. Grant funding will support technical assistance and planning to ensure the smooth operation of the reforestation pipeline. DNR will work to fund projects targeted to help build local workforce capacity and provide expert-led training. Through these grants DNR aims to plant 500,000 seedlings during the biennium.

Since establishment of the grant program in 2024, DNR has learned several important lessons that could be applied to any future funding:

- Require a minimum of 20% cost-share rather than a 1:1 match to align with similar landowner assistance programs and promote greater accessibility. Exemptions from a required cost-share should be permitted for those facing financial hardship to support environmental justice and ensure equitable participation.
- Leverage the investments and relationships built in this grant program to create a sustainable reforestation program that delivers a steady number of seedlings per year and foster a demand for reforestation across diverse landownerships. Program management over the long term will allow us to adapt and respond to the climate and biological patterns of tree seed production and improve seedling survival. Attachment A shows the timeline and process of the reforestation pipeline.

To achieve these outcomes, this proposal includes:

- Just over \$2 million in grant funding for strategic investments in reforestation and capacity building in the reforestation pipeline. Grants will be awarded in FY26 to be completed by June 30, 2027.
- Expenses to administer, execute, and manage the grant program:
  - 1.0 FTE, Post-Fire Reforestation Program Coordinator (Environmental Planner 3)
  - 0.25 FTE, State Grants Analyst (Management Analyst 3)
  - Goods and services, travel, and vehicle to support positions.

With this funding, Washington is positioned to use post-wildfire reforestation to achieve resilient forests and contribute to our state's climate goals.

### ***What will the request produce or construct? When will the project start and be completed?***

\$2.5 million in capital funds will support just over \$2 million in grants and fund ongoing administration and oversight of this established and needed grant program with the goal that 500,000 seedlings will be planted as a direct result of this grant cycle. This effectively reforests 1,600–3,300 acres of wildfire burned forest land. Due to current infrastructure and capacity limits in seedling supply pipelines to effectively meet current demand, let alone increased demand, a portion of these grants will be focused on capacity building. This will improve and enhance the reforestation supply chain to both increase local economic opportunities and meet growing supply needs, particularly for drought tolerant seedlings that will more successfully establish and survive in post-fire reforestation efforts in the dry conifer forests of eastern Washington.

If this proposal is funded, grant project solicitation, including a Request for Applications, will be released in summer 2025. Awards would begin to be made in late summer 2025, allowing project work to begin. All awarded grant projects would be completed by June 30, 2027.

Working with partners funded by this grant, DNR will support:

- Planting 500,000 seedlings in burned areas across diverse landscapes in Washington.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:55PM

Project Number: 40000440

Project Title: Post-Wildfire Reforestation Grant Program

## Description

- Seed collection and infrastructure for cone collection, processing and storage.
  - Fund projects to collect 5,000 bushels of conifer seed to supply this and future post-wildfire reforestation needs, from priority need locations with collection records, including data on species, quantities, and collection locations.
  - Cone storage facilities, cone drying kilns, seed extractors, seed de-wingers, and refrigerated seed storage for maintaining a long-term quality supply.
  - Procurement and installation of seed quality evaluation equipment such as seed x-ray machines and growth chambers.
  - Procurement of cranes or bucket trucks to exponentially increase the efficiency of cone collections.
  - Procurement of necessary attachments and upgrade of helicopters to conduct cone collection.
- Nursery upgrades to improve the quantity and quality of seedlings produced
  - Procurement and installation of state-of-the-art Elle Pot producing machines, specifically designed to improve seedling survival in dry environments.
  - Construction of additional storage facilities for housing Elle Pot machines, production line, plug media, growing trays.
  - Procurement and installation of automated seedling packing machines, designed to exponentially increase the efficiency of packing plug seedlings.
  - Construction of additional greenhouses, equipped with additional infrastructure such as retractable roofs and blackout curtains designed to grow conifer seedlings destined for post-wildfire reforestation projects.
  - Construction of refrigerated storage facilities capable of maintaining freezing temperatures with ample storage space, strategically located in eastern Washington to meet the burgeoning post-wildfire reforestation need.
  - Procurement of refrigerated trailers for maintaining seedling inventory quality during planting operations to maximize tree survival.
- Establishment of a qualified vendor pool to provide post-fire reforestation services.
  - Development and provision of training for contractors, local project managers, and fund recipients. For example, a grant recipient may train workers in the use of advanced tools and technologies, such as drones for monitoring reforestation efforts, GIS for mapping and planning, and advanced nursery techniques for seedling production.
  - With a focus on youth and transitional workforces, grant recipients could develop on-the-job training programs that allow workers to grow their skills and learn new techniques as they gain experience.
  - Expand partnerships with educational institutions to create internship and apprenticeship programs that offer hands-on experience and encourage careers in reforestation, while also collaborating on research projects to develop innovative techniques and provide practical opportunities for students.

### ***How would the request address the problem or opportunity? What would be the result of not taking action?***

The proposed reforestation grants and strategic investments are crucial for restoring forest cover, enhancing climate resilience, and achieving long-term environmental and economic benefits. Acting now is essential to ensure the health and sustainability of Washington's forests and the communities that depend on them. Washington already faces a reforestation need from previous wildfires, which only increases each wildfire season.

The request aims to tackle the significant problem of forest cover loss due to severe wildfires, compounded by drought, by providing reforestation grants to tribes, non-profits, private landowners, local governments, and state agencies. Through a state-funded investment strategy, the Department of Natural Resources will administer a grant program to invest in reforestation, seedling supply, and the necessary infrastructure to produce high-quality, drought-tolerant seedlings. Additionally, the program will fund projects aimed at building local workforce capacity and providing expert-led training, ensuring long-term sustainability and effectiveness of reforestation activities.

If these actions are not taken, areas affected by wildfires and drought would continue to experience prolonged or permanent loss of forest cover, leading to decreased forest resilience and an inability to withstand future climate changes. Without

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:55PM

Project Number: 40000440

Project Title: Post-Wildfire Reforestation Grant Program

## Description

investment in the infrastructure needed to produce drought-tolerant seedlings, reforestation efforts will face higher failure rates, and the time and money invested will be less successful. This would result in fewer seedlings available for planting, further hindering restoration efforts. The absence of reforestation efforts would also mean missing crucial opportunities for carbon sequestration, which is essential for mitigating Climate Change. Moreover, the adverse effects on both natural and cultural landscapes following wildfires would be exacerbated.

Additionally, failing to meet the strategic objectives outlined in the Governor's Results Washington goals, DNR strategic plans, and legislative direction to improve forest health and fire resilience. This could result in long-term economic and ecological damage, affecting local communities, wildlife habitats, and biodiversity. Finally, not funding reforestation projects would limit the growth and diversification of local workforce capacity.

### ***What alternatives were explored? Why was the recommended alternative chosen?***

No other alternatives were explored as the program would be most successful on capital funding which can best manage the ebb and flow of seasonal reforestation needs when the supply chain may not be adequate given a significant fire season.

### ***Which clientele would be impacted by the budget request?***

Businesses involved in forestry and nursery operations, seedling production, and related supply chains would benefit from improved infrastructure and increased demand for high-quality, drought-tolerant seedlings, supporting economic growth and stability within the sector. The forest industry could use this funding to diversify its workforce, creating new job opportunities and providing expert-led training programs to equip workers with the skills needed for sustainable forest management.

Tribal lands and people affected by wildfires and drought would greatly benefit, as reforestation efforts would help restore their natural landscapes and support cultural and environmental sustainability. Non-profit organizations engaged in environmental conservation and forest restoration would receive funding to enhance their projects, thereby increasing their capacity to address forest cover loss effectively.

Private landowners, both industrial and nonindustrial, would be able to reforest their lands more efficiently, mitigating the impacts of wildfires and drought on their properties and contributing to broader forest health goals. Local governments would also receive support to restore public lands, parks, and forests, which would enhance community resilience and environmental quality.

Multiple state agencies responsible for land and forest management would benefit from increased resources and capacity to undertake reforestation efforts, aligning with statewide environmental and climate strategies.

These diverse groups would experience improved forest health, increased resilience to Climate Change, enhanced carbon sequestration, and better ecological outcomes due to the funding provided by the budget request. The reforestation grants would also foster collaboration among these groups, leading to more comprehensive and effective reforestation efforts across the state.

### ***Does this project or program leverage non-state funding?***

This program has the potential to leverage federal United States Department of Agriculture (USDA) Forest Service Cooperative Forestry and Disaster Relief funding as well as future Federal Emergency Management Agency (FEMA) grants to benefit Washington State.

### ***Describe how this project supports the agency's strategic master plan or would improve agency***

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:55PM

Project Number: 40000440

Project Title: Post-Wildfire Reforestation Grant Program

## Description

### **performance.**

The post-wildfire reforestation grant program aligns with and contributes to the objectives outlined in the *Governor's Results Washington* goals, *DNR Strategic Plan*, and the *Forest Action Plan*.

#### *Governor's Results Washington goals:*

Goal 3: Sustainable Energy and Clean Environment: investments in post-fire reforestation directly relate to the Governor's air quality objectives and metrics.

Goal 4: Healthy and Safe Communities: post-fire reforestation has direct positive benefits in restoring forests near communities, thereby reducing the impacts of catastrophic wildfire and subsequent negative environmental impacts. Additionally, the utilization of criteria to inform equity and environmental justice when prioritizing the disbursement and application of implementation funding helps to narrow the health and economic disparity gap in Washington communities.

#### *2022-2025 DNR Strategic Plan:*

A 4.6 – Develop methods for assessing the impacts of deliverables and outcomes on equity and environmental justice goals.

B 2.1 – Partner with tribes, federal, state and local partners to prioritize and implement forest health treatments, such as post-fire reforestation, in landscapes with the highest need and relative risk, in line with the 20-Year Forest Health Strategic Plan (Eastern WA).

B 2.4 – Collaborate and consult with Tribes to advance mutual priorities including climate resilience, salmon recovery, and renewable energy across the state.

B 4.2 – Support Fire-Adapted Communities and support or expand other programs for risk reduction from natural hazards.

C 2.2 – Develop and support additional policies as needed to incentivize forest health treatments on non-federal lands and support sustainable forest management that addresses ecological, economic, and social aspects of forest health.

C 4.1 – Implement the Wildland Fire Protection Strategy with an “all- lands, all-hands” approach to wildfire suppression and management.

#### *Forest Action Plan:*

Fulfill climate informed reforestation commitments made in the Memorandum of Understanding Pacific Coast Temperate Forests

#### *20-Year Forest Health Strategic Plan: Eastern Washington*

Goal 1.1 – Prioritize forest health treatments in landscapes with the highest need and relative risk.

Goal 2.4 – Reduce risk of conversion of forestland to non-forest uses.

Goal 4.1 – Assess landowner objectives and build the capacity to plan and implement accelerated, cross-boundary management and restoration treatments.

### **Does this request include funding for any IT-related cost?**

No

### **If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda by laying the critical groundwork to increase reforestation efforts, with a target of reforesting 1 million acres by 2040. This work will result in enhanced climate resilience from carbon storage and other ecosystem services (e.g., nutrient attenuation, water retention) provided by restored forests.

The Influential Outcomes **directly** advanced by this proposal include:

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:55PM

Project Number: 40000440

Project Title: Post-Wildfire Reforestation Grant Program

## Description

- 1.2 Protect agricultural lands and working forests from conversion
- 1.4 Restore habitat and habitat-forming processes to support biological communities
- 4.3 Increase the resilience of the Puget Sound ecosystem and recovery efforts by adapting to changing climate and ocean conditions when conducting protection and restoration activities

The Actions and Key Opportunities directly advanced by this proposal include:

Strategy 5: Increase the number and accelerate the implementation of habitat acquisition and restoration projects as prioritized in salmon and watershed recovery plans (ID #12).

Strategy 5: Implement habitat protection and restoration projects that restore or maintain natural nutrient attenuation functions and sediment processes in watersheds, estuaries, and tidal wetlands (ID #24).

Strategy 12: Facilitate the increased use or performance of best management practices, including increasing riparian restoration, to reduce stream temperatures (ID #196).

· Key opportunity: Increase shade and amount of vegetation.

Strategy 20: Implement multi-benefit projects and programs that synergistically advance Puget Sound recovery goals, reduce greenhouse gas emissions, increase carbon sequestration in Puget Sound ecosystems, increase climate adaptation, and promote climate resilience (ID #137).

· Key opportunity: Develop climate-resilient forest management practices (including commercial forestry) and reforestation approaches to reduce risks of drought and wildfire, as well as increase snowpack and low summer streamflow.

The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 45: Mitigate the impact of a changing climate by accelerating and increasing action to increase the resiliency and vitality of salmon populations and the ecosystems on which they depend

The proposal is aligned with and implements multiple strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY – Population Growth (6):** Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

**STRATEGY – Low Summer Flows (3):** Protect and manage headwaters and upland forest to improve hydrologic function of watersheds.

Low Flow: 3.1 Prevent the conversion of forests and promote restoration of riparian areas.

Low Flow: 3.5 Enhance and increase funding for small forest landowner programs to provide more resources and improve private land management.

**STRATEGY - Water Quality (2):** Control and prevent nonpoint source pollution that affects salmon.

WQ: 2.6 Communicate the need for nurseries to supply native trees in the numbers needed to support riparian plantings along Puget Sound streams to help filter pollutants

**STRATEGY - Climate (1):** Protect and restore critical habitats and ecosystem functions.

Climate: 1.2 Restore and protect natural hydrologic processes to increase summer low flows and decrease winter peak flows (e.g., remove or limit shoreline armoring, reconnect and restore floodplains...

### ***How is your proposal impacting equity in the state?***

Integrating evaluations of equity are foundational to post-fire recovery reforestation planning and the applied treatment work for the Forest Resilience Division within DNR. Specifically, in July of 2023 the Division released the first-ever Forest Resilience Division Environmental Justice Implementation Plan—complimenting DNR's agency wide strategic action plan—and provides guidance to all 1—programs within the Division, including post-fire reforestation. In addition to this work, the Post-Fire Recovery Program has been utilizing environmental equity tools and data sources, such as Washington's Environmental Disparity Map, to inform prioritization of priority areas in which to focus implementation dollars. This work,

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:55PM

Project Number: 40000440

Project Title: Post-Wildfire Reforestation Grant Program

## Description

paired with an increased emphasis on tribal and private lands engagement, and equalizing access to resources for private landowners, tribes, municipalities, and state agencies, makes this a unique proposal to leverage state resources in a smart and equitable manner.

Due to the fire dependent nature of eastern Washington's dry forests, most of these resources are focused east of the Cascades. However, programmatic improvements are also targeting post-fire reforestation needs in western Washington as well. Helping to restore forests in both wet and dry forests of Washington.

Establishing the needs identified in this plan was a community effort. DNR worked intentionally to bring together forest management practitioners across the state, federal, local, tribal, private and nonprofit sectors with the goal of elevating not just the agency's needs and priorities, but the holistic needs of partners statewide. The proposal is the direct product of input and planning efforts by partners and communities needs that had not originally risen high on the priority list for the agency but are clear bottlenecks and barriers to accelerating the pace and scale of post-fire reforestation, as well as the equitable access to reforestation resources and expertise.

As DNR works with partners to conduct post-fire reforestation projects, more targeted conversations must occur at the community level—ensuring all voices are heard and that social awareness and support for post-fire restoration activities continues to grow. This role—connecting to communities—is a critical responsibility of the proposed planning capacity identified in the decision package.

### **NEW: If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relate to a salmon strategy action.**

This package is directly related to implementation of the Governor's Salmon Strategy through Action 1: Protect and restore vital salmon habitat (1b Riparian Management). While fire has always been present in Washington, increasing scale and frequency resulting from climate change has the potential to damage salmon habitat faster than fish can adapt. Through reforestation grants and an improved post-wildfire program, DNR can actively restore and repair critical riparian habitat and forests, reducing the timeline of recovery and mitigating impacts on fish. As a result, this work also supports Action 4: Build climate resiliency, by improving the state's response to habitat damage exacerbated by climate change and developing a framework critical to helping salmonids.

### **Total FTE:**

- 1 FTE, Post-Fire Reforestation Program Coordinator (Environmental Planner 3), 24 months. This position administers and manages the Post-Wildfire Reforestation Grant program including direct outreach to applicants and landowners.
- 0.25 FTE, State Grants Analyst (Management Analyst 3), 24 months. This position helps in the administration of the grant program by developing the grant contract agreements, processing invoices, and overseeing the agreement.

### **Location**

City: Statewide

County: Statewide

Legislative District: 098

### **Project Type**

Grants

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:55PM

Project Number: 40000440

Project Title: Post-Wildfire Reforestation Grant Program

**Description**

Growth Management impacts  
 None.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	2,500,000				2,500,000
	<b>Total</b>	<b>2,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,500,000</b>
		Future Fiscal Periods				
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No – an environmental justice assessment was completed to establish this grant program in 2024, this request simply proposes to make this grant program ongoing.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

Investments from this grant program are expected to have environmental benefits to communities impacted annually by wildfires, including overburdened communities and vulnerable populations. Investments will aim to minimize post-wildfire hazards and risks to communities in complement with increasing forest resilience, and bring financial and technical assistance resources to help communities in their recovery from the impacts of wildfires. For example recent and current wildfires are impacting acres on the east slope of the Cascades that rank with an 8 or higher on Washington Department of Health's Environmental Disparities Map. In these cases, wildfire is compounding existing vulnerabilities and risk factors and investments to assist in recovery will be an environmental benefit. Project submissions are asked to include the score of project location according to the Washington Environmental Health Disparities Map and whether the project location is identified disadvantaged according to the Climate and Economic Justice Screening Tool.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Due to the dynamic nature of where wildfires occur and the severity of their impacts, the program has a goal of making at least 30% of investments to benefit overburdened communities and/or vulnerable populations but with recognition that achieving this goal relies upon factors dependent upon the potential and real applicant pool.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Indian tribes can directly apply for funding from this grant program to assist in recovery from wildfire on tribally owned lands, or lands within their historical and accustomed territories. Additionally, tribes can partner or inform project proposals submitted by other entities. Projects have the ability to help restore and recover forested landscapes impacted by wildfire, which can include improvements to facilitate traditional practices. One example can be recovery and restoration of traditional gathering or fishing grounds.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

The 2024 Post-Wildfire Reforestation Grant Program was established with guidance from the Forest Health Advisory Committee which includes tribal engagement. If funded, improvements to the grant program's outreach and implementation will be informed through intentional tribal engagement and consultation by Washington Department of Natural Resources through direct outreach by Forest Resilience Division and DNR's Tribal Relations.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

An environmental justice assessment was completed for the establishment of the 2024 Post-Wildfire Reforestation Grant Program, which helped to inform the request for applications, criteria, and considerations before the program was launched. It has informed the review of submitted applications which is underway currently.

# Attachment A

Supply Chain Project Phases										
Investment Frequency	Seed Planning	Seed Collection & Extraction	Seed Bank, Lab	Nursery Planning	Seedling Production	Reforestation Prescription	Site Preparation	Seedling Transport	Outplanting	Monitoring
	🔄									
	📅									
	🔄⚡	⚡	🔄📅	📅	📅	🔄⚡📅	⚡📅	📅	📅	📅
Stakeholder Category Types	Forester/Land Managers									
	Seed Specialist									
	Nursery Team									
	Seed Collectors									
	Labor Service Providers									
	Extractor Team									
	Landowner									

From “Mind the Gap”—reforestation needs vs. reforestation capacity in the western United States” Dobrowski et al. 2024.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

**Project Number:** 40000656  
**Project Title:** State Trust Land Replacement

## Description

**Starting Fiscal Year:** 2026  
**Project Class:** Program  
**Agency Priority:** 23

### Project Summary

This request is for spending authority for land acquisitions that improve the economic performance of the trust land base and that replace trust lands previously sold at auction under RCW 79.19 or transferred to another governmental agency under RCW 79.17.200. This request allows the Department of Natural Resources (DNR) to expend funds in the various real property accounts and to expend funds expected to be deposited in those accounts because of land sales and exchanges throughout the biennium.

### Project Description

#### Project Description:

The Department of Natural Resources (DNR) trust land management program acquires land to improve the performance of trust holdings and sells trust land deemed no longer suitable for management by DNR. Three capital accounts fund the acquisition portion of this program: 1. The Real Property Replacement Account (RPRA) is used to buy replacement property for trust land sold directly to public agencies; 2. Land Bank is used to buy replacement property for trust land sold to private parties at auction; and 3. The Community and Technical College Forest Reserve Account (CTC) acquires property for the CTC trust using proceeds of timber harvest and other land management activities from existing CTC properties.

Sufficient appropriations allow the department to purchase properties suitable for trust ownership as opportunities arise and directed under RCW and prior legislative appropriations.

- **\$100 Million is spending authority for RPRA.** DNR needs to account for up to \$30 million additional Trust Land Transfer funds in the 25-27 biennium, \$11 million of potential TLT funds if CCA is not repealed, \$30 million of regular transactions, \$20 million of CCA funding remaining from Section 3130 of ESSB 5200 (Carbon Sequestration Forest), \$10 million from prior encumbered lands provisos, and repayment of \$10 million for the Teanaway Community Forest loan due in June 2024.
- **\$30 million Land Bank** – standard authorization amount from the former RCMA funding, changing authorization to the new fund number.
- **\$1 million** – Community College Forest Reserve

#### **What will the request produce or construct? When will the project start and be completed?**

This is an on-going program intended to replace sold properties, so the trust land base is not reduced over time.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

If DNR is not given sufficient spending authority in these accounts the department cannot conduct land transactions to reposition underperforming trust assets, nor can it move lands into conservation status and acquire replacement land under programs such as Trust Land Transfer.

#### **What alternatives were explored? Why was the recommended alternative chosen?**

The alternative is to retain all trust properties and to not purchase more suitable properties for revenue generation. This would include retaining all non-productive lands, encumbered lands, or lands more suitable to other purposes, such as parks or public facilities. This would reduce trust revenue over time. This alternative would also impact transfers to other governmental entities such as school districts, cities, fire departments that often request transfers from DNR to build fire stations, schools, and housing for their communities.

Additionally, without authority to purchase replacement property, DNR will not be able to finish implementing Section 3130 of ESSB 5200 (Carbon Sequestration Forest), nor able to purchase lands as directed under ESSB 5693 for the benefit of the 5 encumbered lands counties (Pacific, Wahkiakum, Skamania, Clallam and Jefferson).

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:36PM

Project Number: 40000656

Project Title: State Trust Land Replacement

**Description****Which clientele would be impacted by the budget request?**

The clients are the federally granted trusts that support public schools, colleges, universities and other state institutions, and the state forest trust that supports counties and counties services. This request is for spending authority only. Existing funds and proceeds from any land sales are for land transactions only; cost of implementing the program is covered in DNR's carry-forward operating budget.

**Does this project or program leverage non-state funding? If yes, how much by source?**

No

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project addresses the "Working and Natural Lands" portion of Results Washington Goal 3: Sustainable energy and a clean environment (see [www.results.wa.gov](http://www.results.wa.gov)).

Protects forest land habitats

Prevents conversion of working forests

Directly supports DNR strategic plan goals:

1A – Ensure sustainable revenues from state lands.

1B – Sustainably manage forested state trust lands.

1E – Ensure opportunities for sustainable recreation and appropriate public use of state lands.

2D3 – Protect and Maintain Working Forestlands by working in partnership to identify and advance policies and programs that encourage retention of working forests.

**Does this request include funding for any IT-related cost?**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

Not linked to PSAA

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

No

**How is your proposal impacting equity in the state?**

No

**Is this project eligible for Direct Pay?**

No

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:36PM

Project Number: 40000656

Project Title: State Trust Land Replacement

**Description**

**Is there additional information you would like decision makers to know when evaluating this request?**

This request is only for DNR to have the authority to spend funds on replacement property that was placed into these accounts from previous transactions or prior appropriations. DNR is not asking for any additional funds to be placed into the account.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

No

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

None – all work is conducted by existing staff within existing resources. This is a request for spending authority only.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropr
04B-1	Nat Res Real Prop Rp-State	100,000,000				100,000,000
246-1	CC Forest Reserve-State	1,000,000				1,000,000
28M-1	Land Bank Account-State	30,000,000				30,000,000
	<b>Total</b>	<b>131,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>131,000,000</b>

**Future Fiscal Periods**

	2027-29	2029-31	2031-33	2033-35
04B-1 Nat Res Real Prop Rp-State				
246-1 CC Forest Reserve-State				

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 7:36PM

Project Number: 40000656

Project Title: State Trust Land Replacement

**Funding**

	Future Fiscal Periods			
	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
28M-1 Land Bank Account-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No. This request is for spending authority only. Any funding requests that would utilize these accounts would contain site specific information as to the environmental benefits of those request, i.e. conservation of rare ecosystems under the Trust Land Transfer request.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:28PM

Project Number: 40000618

Project Title: Tukes Work Center Storm Water Mitigation

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 24

### Project Summary

This project, at end state, results in the creation of a storm water mitigation plan and construction of storm water control infrastructure at the Department of Natural Resources (DNR) Tukes Work Center, east of Battle Ground, Washington.

### Project Description

**Identify the problem or opportunity addressed. Why is the request a priority?**

DNR has three distinct issues at the Tukes Work Center that correlate to this project.

1) Storm water runoff is not adequately controlled on the site and the few drainage structures that were originally installed are inadequate. Storm water runoff has damaged the traveled ways of both the entrance driveway and the parking areas. If not corrected, runoff will potentially pose a risk of damage to structures on the site. DNR must mitigate runoff to sustain operations at the site into the future.

2) DNR needs to replace an old storage structure at the site in order to accommodate the modern fire engines and account for program growth at the site. Future construction requires compliance with modern storm water regulations that did not exist at the time of original construction. This request will provide a design that accounts for additional non-permeable surface addition to the site in preparation for recapitalization of the storage building.

3) DNR needs to install an oil-water separator at the site based on the density of vehicles that DNR operates at the location. DNR investigated construction of an oil water separator during the previous biennium, but in consultation with Clark County, determined that storm water mitigation of the site was necessary as a pre-condition of permitting for installation of an oil-water separator.

**What will the request produce or construct? When will the project start and be completed?**

This request is to support the first of two phases of the project. The first phase, beginning and concluding during the 2025-27 biennium is the creation of a storm water mitigation plan for the site along with a fully permitted design for the construction of storm water mitigation structures including basins, and excavation and placement of an oil water separator. The second phase of the project, beginning in the 2027-29 biennium would execute the construction for the design created the preceding biennium.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

This project sets conditions to solve three issues at the Tukes Work Center site. First, this project will provide the design and subsequent construction to mitigate storm water runoff at the Tukes Work Center site and prevent further damage to infrastructure at the site. Secondly, this project will set permissible conditions for recapitalization of a structure at the site to support current and future requirements. Finally, this project will set conditions for and add an oil water separator at the site to prevent potential environmental damage due to the density of vehicles that operate from the site.

If storm water issues are not resolved at the site, damage to the existing paved and graveled surfaces will eventually require more expensive replacement rather than repairs. Secondly, the failure to address storm water issues at the site has the potential for eventual damage to existing structures including the office at the site. Finally, failure to address storm water mitigation at the site precludes any further development of the site or installation of an oil-water separator. If DNR is unable to

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:28PM

Project Number: 40000618

Project Title: Tukes Work Center Storm Water Mitigation

**Description**

sustain operations at the Battle Ground location, DNR will need to investigate more expensive options for establishing either a new compound or development of a second location in the area to meet mission requirements.

**What alternatives were explored? Why was the recommended alternative chosen?**

DNR has not undertaken a deliberate exploration of alternatives in the case of this project because the aim is to improve infrastructure and conditions at an existing operational compound. The alternatives to the project all involve significantly more expensive courses of action that involve relocation of programs and development of one or more additional locations. The course of action represented by this request focuses on the less expensive measure of improving an existing site in order to sustain the location well into the future and set the conditions for further growth.

**Which clientele would be impacted by the budget request**

The primary beneficiaries of this project are the agency employees servicing this portion of the state. The indirect beneficiaries of this project are the users of public lands in the area, and private landowners that will continue to receive expanded fire suppression response efforts.

Specifically, this project supports the 88 Department of Natural Resources positions operating from the Tukes Work Center in Clark County.

**Does this project or program leverage non-state funding? If yes, how much by source?**

This project does not leverage non-state funding.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project addresses DNR's Strategic Plan in the following ways. This project supports Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by significantly improving the working conditions for personnel operating in the area and will support continued fire suppression response efforts. This project supports Priority Two, "Build Strong and Healthy Rural Communities," specifically that of strengthening partnerships with local stakeholders in order to address community economic development issues. This project supports Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by more effectively positioning resources including those in support of fire response in position to affect positive outcomes and with the means to act effectively.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

This project does not include any IT-related costs.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

No.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clear Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project does not add built space and will not involve the use of energy.

**How is your proposal impacting equity in the state?**

This project relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:28PM

Project Number: 40000618

Project Title: Tukes Work Center Storm Water Mitigation

**Description**

posed by work conducted at the existing sub-standard Department of Natural Resources site.

**Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay.

**Is there additional information you would like decision makers to know when evaluating this request?**

Please see attached slide.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This project does not directly relate to the Governor’s Salmon Strategy. However, indirectly by controlling surface water runoff, this project does support the Governor’s Salmon Strategy.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

0.25 staff, Construction Project Coordinator 3, and NR scientist 3, for coordination and facilitation of stormwater plan and site construction.

**Location**

City: Battle Ground

County: Clark

Legislative District: 018

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

None. This is an existing Department site.

New Facility: No

**How does this fit in master plan**

This project does not result in construction of infrastructure that meets the Office of Financial Management’s definition of a facility.

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	383,000				383,000
	<b>Total</b>	<b>383,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>383,000</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:28PM

Project Number: 40000618

Project Title: Tukes Work Center Storm Water Mitigation

**Funding**

Total	0	0	0	0
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**Operating Impacts**

No Operating Impact

Narrative

N/A

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	Tukes (Battle Ground) Storm Water Mitigation
OFM Project Number	

Contact Information	
Name	Wayne Skill
Phone Number	360-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet		MACC per Gross Square Foot	
Usable Square Feet		Escalated MACC per Gross Square Foot	
Alt Gross Unit of Measure			
Space Efficiency		A/E Fee Class	C
Construction Type	Civil Construction	A/E Fee Percentage	16.76%
Remodel		Projected Life of Asset (Years)	
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	No
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	7.80%	Location Used for Tax Rate	Battle Ground
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	A08044
Project Administered By	Agency		

Schedule			
Pre-design Start	May-18	Pre-design End	June-19
Design Start	September-25	Design End	June-27
Construction Start	October-27	Construction End	June-29
Construction Duration	20 Months		

Green cells must be filled in by user

Project Cost Summary			
Total Project	\$357,165	Total Project Escalated	\$382,672
		Rounded Escalated Total	\$383,000
Amount funded in Prior Biennia			\$0
<b>Amount in current Biennium</b>			<b>\$383,000</b>
Next Biennium			\$0
Out Years			-\$1,000

Acquisition			
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0

Consultant Services			
Pre-design Services	\$45,000		
Design Phase Services	\$15,000		
Extra Services	\$235,000		
Other Services	\$0		
Design Services Contingency	\$14,750		
<b>Consultant Services Subtotal</b>	<b>\$309,750</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$328,813</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$0	Maximum Allowable Construction Cost (MACC) Escalated	\$0
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$0		\$0
Non-Taxable Items	\$0		\$0
Sales Tax	\$0	Sales Tax Escalated	\$0
<b>Construction Subtotal</b>	<b>\$0</b>	<b>Construction Subtotal Escalated</b>	<b>\$0</b>

Equipment			
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$0</b>	<b>Equipment Subtotal Escalated</b>	<b>\$0</b>

Artwork			
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0

Agency Project Administration			
Agency Project Administration Subtotal	\$12,390		
DES Additional Services Subtotal	\$20,925		
Other Project Admin Costs	\$14,100		
<b>Project Administration Subtotal</b>	<b>\$47,415</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$53,859</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$357,165</b>	Total Project Escalated	<b>\$382,672</b>
		Rounded Escalated Total	<b>\$383,000</b>

# C-100(2024)

Updated June 2024

## Quick Start Guide

### GENERAL INFORMATION

- 1) The intended use of the C-100(2024) is to enable project managers to communicate their project cost estimates to budget officers in the standard format required for capital project budget requests/submittals to OFM.
- 2) This workbook is protected so that the worksheets within it cannot be moved or deleted in the usual manner. This protection is necessary to ensure that the cost estimate details and formulas align with the estimating application in the Capital Budgeting System.
- 3) The estimating format to develop the maximum allowable construction cost (MACC) is presented in Uniformat II.
- 4) Form-calculated costs such as A/E Basic Design Service fees and Agency Project Management costs are dependent on other estimated project costs such as MACC, equipment, etc.
- 5) Project estimates generated with this tool are not sufficient for budget request submittals to OFM. Use the Capital Budgeting System to submit capital project budget requests and attach the C-100 form.
- 6) Contact your assigned OFM Capital Budget Analyst with questions.

[OFM Capital Budget Analyst](#)

### INSTRUCTIONS

- 1) Only green cells are available for data entry.
- 2) Fill in all known cells in the 'Summary' tab prior to moving on to the cost entry tabs A-G.
- 3) It is recommended, but not required, to fill out cost entry tabs in the following order:  
A. Acquisition, C. Construction Contracts, D. Equipment, G. Other Costs, B. Consultant Services, F. Project Management, then E. Artwork.
- 4) If additional rows are inserted to capture additional project costs, a description must be provided in the Notes column or within Tab H. Additional Notes. Be particularly detailed for additional costs estimated for contingencies and project management.

### FORM-CALCULATED COSTS (FEE CALCULATIONS)

- 1) A/E Basic Design Services:  $AE\ Fee\ \% \times (MACC\ or\ TCC + Contingency)$
- 2) Design Services Contingency:  $Contingency\ \% \times Consultant\ Services\ Subtotal$
- 3) Construction Contingency:  $Contingency\ \% \times MACC\ or\ TCC$
- 4) Artwork:  $0.5\% \times Total\ Project\ Cost$
- 5) Agency Project Management (Greater than \$1million):  $(AE\ Fee\ \% - 3\%) \times (Acquisition\ Total + Consultant\ Services\ Total + MACC + Construction\ Contingency + Other\ Costs)$

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$0				\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$328,813		\$329,468		-\$655
<b>Construction</b>					
Construction Subtotal	\$0				\$0
<b>Equipment</b>					
Equipment Subtotal	\$0				\$0
<b>Artwork</b>					
Artwork Subtotal	\$0				\$0
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$53,859		\$53,968		-\$109
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0
<b>Project Cost Estimate</b>					
Total Project	\$382,672	\$0	\$383,436	\$0	-\$764
	\$383,000	\$0	\$383,000	\$0	-\$1,000
Percentage requested as a new appropriation			100%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**

Design - Phase 1 of two.

*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**

*Insert Row Here*

**What is planned with a future appropriation?**

Construction - phase 2 of 2. Cost undetermined pending results of design.

*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition					
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis	\$15,000				
Environmental Analysis	\$30,000				
Predesign Study					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$45,000</b>		<b>1.0324</b>	<b>\$46,458</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$0				69% of A/E Basic Services
Other	\$15,000				Record Drawings
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$15,000</b>		<b>1.0624</b>	<b>\$15,936</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)	\$20,000				Paving design
Geotechnical Investigation	\$15,000				
Commissioning					
Site Survey	\$10,000				
Testing	\$10,000				
LEED Services					
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)	\$180,000				Storm water design
Landscape Consultant					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$235,000</b>		<b>1.0624</b>	<b>\$249,664</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$0				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$14,750				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$14,750</b>		<b>1.1359</b>	<b>\$16,755</b>	Escalated to Mid-Const.

CONSULTANT SERVICES TOTAL

\$309,750

\$328,813

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation					
G20 - Site Improvements					
G30 - Site Mechanical Utilities					
G40 - Site Electrical Utilities					
G60 - Other Site Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements					
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	
<b>3) Facility Construction</b>					
A10 - Foundations					
A20 - Basement Construction					
B10 - Superstructure					
B20 - Exterior Closure					
B30 - Roofing					
C10 - Interior Construction					
C20 - Stairs					
C30 - Interior Finishes					
D10 - Conveying					
D20 - Plumbing Systems					
D30 - HVAC Systems					
D40 - Fire Protection Systems					
D50 - Electrical Systems					
F10 - Special Construction					
F20 - Selective Demolition					
General Conditions					
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
	<i>NA</i>			<i>NA per 0</i>	

This Section is Intentionally Left Blank

**7) Owner Construction Contingency**

Allowance for Change Orders	\$0		
Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.1359</b>	<b>\$0</b>

**8) Non-Taxable Items**

Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.1359</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$0</b>		<b>\$0</b>
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<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$0</b>		<b>\$0</b>
-------------------------------------	------------	--	------------

Green cells must be filled in by user

## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings					
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$0</b>			<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$0				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$12,390				
Additional Services	\$20,925				
Other	\$14,100				Archaeological
Insert Row Here					
<i>Subtotal of Other</i>	<i>\$14,100</i>				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$47,415</b>		<b>1.1359</b>	<b>\$53,859</b>	

Green cells must be filled in by user

## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

*Insert Row Here*

**Tab B. Consultant Services**

Storm water design for site. Includes design of paving repairs.

*Insert Row Here*

**Tab C. Construction Contracts**

None for first phase. Design to determine costs for subsequent request.

*Insert Row Here*

**Tab D. Equipment**

*Insert Row Here*

**Tab E. Artwork**

N/A - project is for design of infrastructure - no enclosed building space. Site not open to public.

*Insert Row Here*

**Tab F. Project Management**

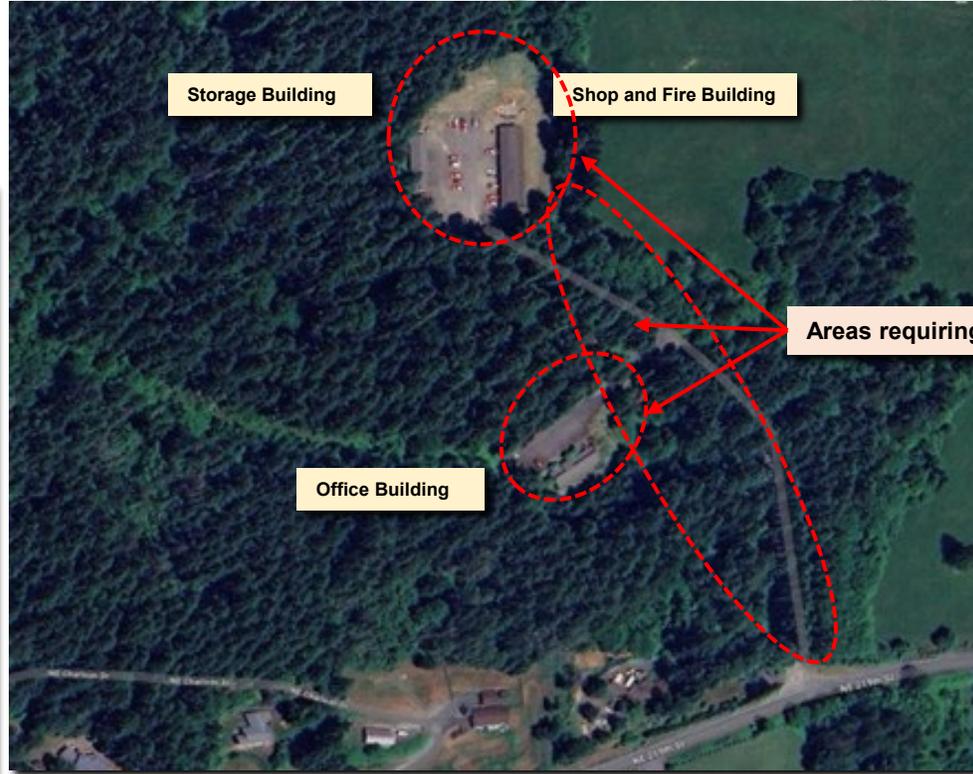
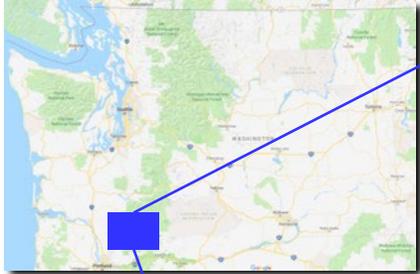
Includes Department Archaeologist.

*Insert Row Here*

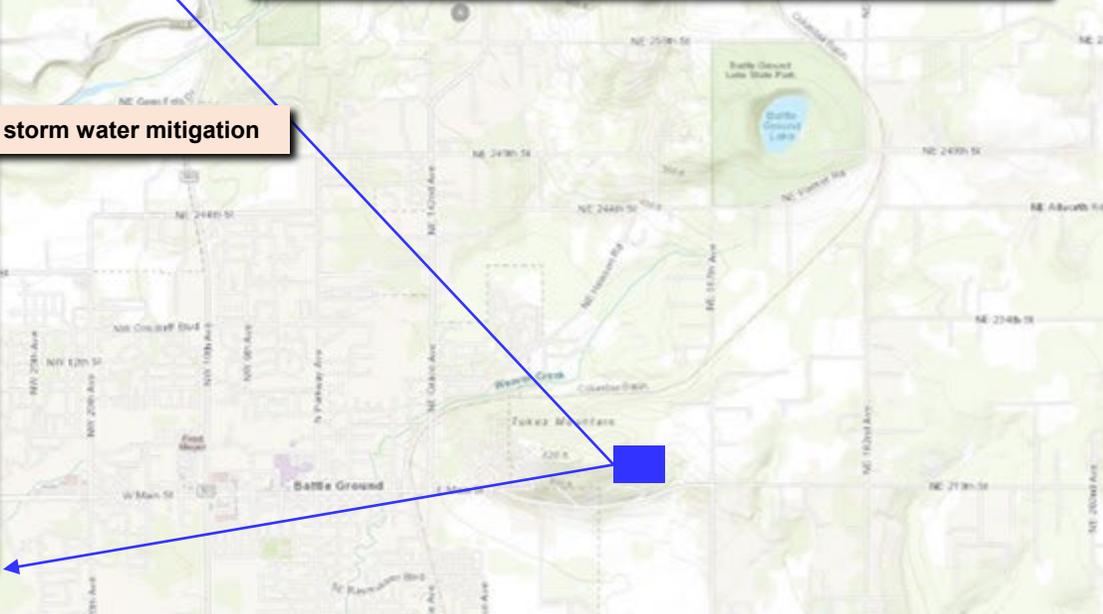
**Tab G. Other Costs**

*Insert Row Here*

# Battle Ground (Tukes Work Center) Storm Water – Design



*At end state this project will complete storm water mitigation for the site and facilitate further development as well as repair to paved and graveled roads and parking.*



Areas requiring storm water mitigation

**Project:**  
2025 Request: **\$383,000**  
2025 Phase: **Design.**

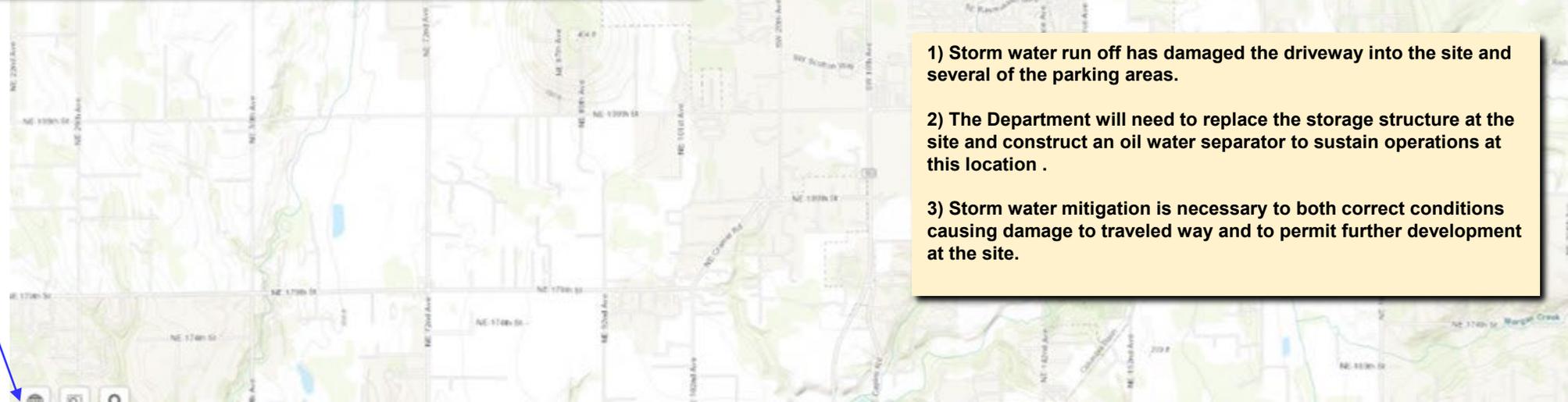
**Total Project Cost: \$TBD as a result of design phase.**

**End state of project is construction of a storm water mitigation plan and construction of storm water control structures including basins. The project will allow further development of the site and replacement of existing structures and repair of road and parking surfaces.**

**Operating impact or request: \$0 for '25-'27**

**Project is located on existing DNR property at the Tukes Work Center site east of Battle Ground.**

- 1) Storm water run off has damaged the driveway into the site and several of the parking areas.
- 2) The Department will need to replace the storage structure at the site and construct an oil water separator to sustain operations at this location .
- 3) Storm water mitigation is necessary to both correct conditions causing damage to traveled way and to permit further development at the site.



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:20PM

Project Number: 40000645

Project Title: Tumwater Compound Parking Expansion

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 25

### Project Summary

This project, at end state, expands the parking capacity for heavy equipment and semi-trailers at the Department of Natural Resources' (DNR) Tumwater Compound.

### Project Description

#### **Identify the problem or opportunity addressed. Why is the request a priority?**

The Department of Natural Resources (DNR) has expanded the heavy equipment inventory significantly over the past two years to support more efficient fire suppression efforts. Included in the expansion of the fleet is growth in the number of semi-trailers. DNR has added 23 semi-trailers to the fleet in the past 2 years, an 85% increase, and doubled the size of the fleet from five years ago. The Department's Fire Cache at the Tumwater Compound is the nexus for the storage, stocking and maintenance for most of the trailers.

The Department now has a congestion issue with storage and stocking of semi-trailers at the site. This issue is somewhat compounded by increases in the Correctional Industries fleet operations as they also occupy a portion of the Tumwater Compound. Site limitations now interfere with logistical throughput from the Fire Cache and create potential safety issues with maneuvering, parking and maintenance of the equipment.

The Tumwater Compound contains 10 acres of undeveloped land owned by DNR. This project proposes to design and construct additional heavy equipment parking on a portion of the available land to support statewide fire suppression efforts.

#### **What will the request produce or construct? When will the project start and be completed?**

This project will increase the available heavy equipment parking area at the Tumwater Compound by approximately 100% in two phases over the next two biennia. The first phase of the project, beginning and ending in the 2025-27 biennium, is the design phase, inclusive of storm water design. The second phase of the project, planned for the 2027-29 biennium, is the construction phase of the project. This request is specifically to fund the design phase of the project.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

This project adds approximately double the space available to park and service heavy equipment and semi-trailers at the Tumwater Compound. By doing so, DNR will improve the logistical efficiency of material handling operations from the Fire Cache and the safety of operations at the Tumwater Compound site.

If this request is unmet, DNR will need to investigate leasing or procurement of additional infrastructure off site, this is necessary to support the parking and storage of trailers or continue to accept the liability of the safety issues. Issues associated with the congestion and disruption of logistical efficiencies represented by the current situation.

#### **What alternatives were explored? Why was the recommended alternative chosen?**

The Department has not undertaken a deliberate exploration of alternatives in the case of this project because the aim is to improve infrastructure and conditions at an existing operational compound. The alternatives to the project all involve significantly more expensive courses of action that involve acquisition and development of an off-site location.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:20PM

Project Number: 40000645

Project Title: Tumwater Compound Parking Expansion

**Description**

The addition of an off-site location through lease or purchase is an option for addressing the safety issues associated with site congestion. However, such a measure compounds logistical issues by increasing cycle time of tasks involving retrieval and storage of trailers and increased overhead costs associated with both the cycle time between sites and the management of an additional site.

The Department deliberately focused on an on-site solution because the Tumwater Compound was deliberately designed for site expansion and the land necessary is already on hand.

**Which clientele would be impacted by the budget request?**

This project has a direct effect with respect to safety and efficiency for the approximately 100 positions the Department bases at the Tumwater Compound. Indirectly, this project affects the statewide fire suppression operations. The State Fire Cache is the centralized logistics hub for the dispatch of materials to support fire suppression efforts across the state.

**Does this project or program leverage non-state funding? If yes, how much by source?**

This project does not leverage non-state funding.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project addresses DNR's Strategic Plan in the following ways. This project supports Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by improving the working conditions for personnel operating from the Tumwater Compound and will support continued fire suppression response efforts. This project supports Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by more effectively positioning resources including those in support of fire response in position to affect positive outcomes and with the means to act effectively.

**Does this request include funding for any IT-related cost?**

This project does not include any IT-related costs.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This project is not linked to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project does not add built space and will not involve the use of energy.

**How is your proposal impacting equity in the state?**

This project relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:20PM

Project Number: 40000645

Project Title: Tumwater Compound Parking Expansion

**Description**

associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards posed by work conducted at a Department of Natural Resources site.

**NEW: Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay.

**Is there additional information you would like decision makers to know when evaluating this request?**

Please see the attached slide.

**NEW: If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relate to a salmon strategy action**

This project is not linked to the Governor’s Salmon Strategy.

**NEW: Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

0.25 FTE - Construction Project Coordinator 3 & Natural Resource Scientist 3

**Location**

City: Tumwater

County: Thurston

Legislative District: 022

**Project Type**

Infrastructure (Major Projects)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	397,000				397,000
	<b>Total</b>	<b>397,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>397,000</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:20PM

Project Number: 40000645

Project Title: Tumwater Compound Parking Expansion

**Funding**

		Future Fiscal Periods			
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2024*

Agency	Department of Natural Resources
Project Name	Tumwater Compound Equipment Parking Expansion
OFM Project Number	

Contact Information	
Name	Wayne Skill
Phone Number	320-902-1204
Email	<a href="mailto:wayne.skill@dnr.wa.gov">wayne.skill@dnr.wa.gov</a>

Statistics			
Gross Square Feet		MACC per Gross Square Foot	
Usable Square Feet		Escalated MACC per Gross Square Foot	
Alt Gross Unit of Measure			
Space Efficiency		A/E Fee Class	C
Construction Type	Civil Construction	A/E Fee Percentage	16.76%
Remodel		Projected Life of Asset (Years)	
Additional Project Details			
Procurement Approach	DBB	Art Requirement Applies	No
Inflation Rate	3.33%	Higher Ed Institution	No
<a href="#">Sales Tax Rate %</a>	9.70%	Location Used for Tax Rate	Tumwater
Contingency Rate	5%		
Base Month (Estimate Date)	September-24	OFM UFI# (from FPMT, if available)	
Project Administered By	Agency		

Schedule			
Pre-design Start		Pre-design End	
Design Start	September-25	Design End	June-27
Construction Start	October-27	Construction End	June-29
Construction Duration	20 Months		

Green cells must be filled in by user

Project Cost Summary			
Total Project	\$369,108	Total Project Escalated	\$395,944
		Rounded Escalated Total	\$396,000
Amount funded in Prior Biennia			\$0
<b>Amount in current Biennium</b>			<b>\$397,000</b>
Next Biennium			\$0
Out Years			-\$1,000

Acquisition			
Acquisition Subtotal	\$0	Acquisition Subtotal Escalated	\$0

Consultant Services			
Pre-design Services	\$45,000		
Design Phase Services	\$12,000		
Extra Services	\$242,000		
Other Services	\$0		
Design Services Contingency	\$14,950		
<b>Consultant Services Subtotal</b>	<b>\$313,950</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$333,290</b>

Construction			
Maximum Allowable Construction Cost (MACC)	\$0	Maximum Allowable Construction Cost (MACC) Escalated	\$0
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$0		\$0
Non-Taxable Items	\$0		\$0
Sales Tax	\$0	Sales Tax Escalated	\$0
<b>Construction Subtotal</b>	<b>\$0</b>	<b>Construction Subtotal Escalated</b>	<b>\$0</b>

Equipment			
Equipment	\$0		
Sales Tax	\$0		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$0</b>	<b>Equipment Subtotal Escalated</b>	<b>\$0</b>

Artwork			
Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0

Agency Project Administration			
Agency Project Administration Subtotal	\$12,558		
DES Additional Services Subtotal	\$28,500		
Other Project Admin Costs	\$14,100		
<b>Project Administration Subtotal</b>	<b>\$55,158</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$62,654</b>

Other Costs			
Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0

Project Cost Estimate			
Total Project	<b>\$369,108</b>	Total Project Escalated	<b>\$395,944</b>
		Rounded Escalated Total	<b>\$396,000</b>

# C-100(2024)

Updated June 2024

## Quick Start Guide

### GENERAL INFORMATION

- 1) The intended use of the C-100(2024) is to enable project managers to communicate their project cost estimates to budget officers in the standard format required for capital project budget requests/submittals to OFM.
- 2) This workbook is protected so that the worksheets within it cannot be moved or deleted in the usual manner. This protection is necessary to ensure that the cost estimate details and formulas align with the estimating application in the Capital Budgeting System.
- 3) The estimating format to develop the maximum allowable construction cost (MACC) is presented in Uniformat II.
- 4) Form-calculated costs such as A/E Basic Design Service fees and Agency Project Management costs are dependent on other estimated project costs such as MACC, equipment, etc.
- 5) Project estimates generated with this tool are not sufficient for budget request submittals to OFM. Use the Capital Budgeting System to submit capital project budget requests and attach the C-100 form.
- 6) Contact your assigned OFM Capital Budget Analyst with questions.

[OFM Capital Budget Analyst](#)

### INSTRUCTIONS

- 1) Only green cells are available for data entry.
- 2) Fill in all known cells in the 'Summary' tab prior to moving on to the cost entry tabs A-G.
- 3) It is recommended, but not required, to fill out cost entry tabs in the following order:  
A. Acquisition, C. Construction Contracts, D. Equipment, G. Other Costs, B. Consultant Services, F. Project Management, then E. Artwork.
- 4) If additional rows are inserted to capture additional project costs, a description must be provided in the Notes column or within Tab H. Additional Notes. Be particularly detailed for additional costs estimated for contingencies and project management.

### FORM-CALCULATED COSTS (FEE CALCULATIONS)

- 1) A/E Basic Design Services:  $AE\ Fee\ \% \times (MACC\ or\ TCC + Contingency)$
- 2) Design Services Contingency:  $Contingency\ \% \times Consultant\ Services\ Subtotal$
- 3) Construction Contingency:  $Contingency\ \% \times MACC\ or\ TCC$
- 4) Artwork:  $0.5\% \times Total\ Project\ Cost$
- 5) Agency Project Management (Greater than \$1million):  $(AE\ Fee\ \% - 3\%) \times (Acquisition\ Total + Consultant\ Services\ Total + MACC + Construction\ Contingency + Other\ Costs)$

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	Current Biennium		Out Years
			2025-2027	2027-2029	
<b>Acquisition</b>					
Acquisition Subtotal	\$0				\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$333,290		\$333,946		-\$656
<b>Construction</b>					
Construction Subtotal	\$0				\$0
<b>Equipment</b>					
Equipment Subtotal	\$0				\$0
<b>Artwork</b>					
Artwork Subtotal	\$0				\$0
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$62,654		\$62,776		-\$122
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0
<b>Project Cost Estimate</b>					
Total Project	\$395,944	\$0	\$396,722	\$0	-\$778
	\$396,000	\$0	\$397,000	\$0	-\$1,000
Percentage requested as a new appropriation			100%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**

Design, phase 1 of two total phases for project.

*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**

*Insert Row Here*

**What is planned with a future appropriation?**

Construction, phase 2 of two total phases for project.

*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition					
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Consultant Services					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>					
Programming/Site Analysis	\$20,000				
Environmental Analysis	\$20,000				
Predesign Study	\$5,000				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$45,000</b>		<b>1.0324</b>	<b>\$46,458</b>	Escalated to Design Start
<b>2) Construction Documents</b>					
<b>A/E Basic Design Services</b>	\$0				69% of A/E Basic Services
Other	\$12,000				Record Drawings
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$12,000</b>		<b>1.0624</b>	<b>\$12,749</b>	Escalated to Mid-Design
<b>3) Extra Services</b>					
Civil Design (Above Basic Svcs)	\$180,000				Parking Lot Design
Geotechnical Investigation	\$15,000				
Commissioning					
Site Survey	\$10,000				
Testing	\$12,000				
LEED Services					
Voice/Data Consultant					
Value Engineering					
Constructability Review					
Environmental Mitigation (EIS)	\$25,000				Storm water Design
Landscape Consultant					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$242,000</b>		<b>1.0624</b>	<b>\$257,101</b>	Escalated to Mid-Design
<b>4) Other Services</b>					
<b>Bid/Construction/Closeout</b>	\$0				31% of A/E Basic Services
HVAC Balancing					
Staffing					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>					
Design Services Contingency	\$14,950				
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$14,950</b>		<b>1.1359</b>	<b>\$16,982</b>	Escalated to Mid-Const.

**CONSULTANT SERVICES TOTAL**

**\$313,950**

**\$333,290**

Green cells must be filled in by user

## Cost Estimate Details

Construction Contracts					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>					
G10 - Site Preparation					
G20 - Site Improvements					
G30 - Site Mechanical Utilities					
G40 - Site Electrical Utilities					
G60 - Other Site Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	
<b>2) Related Project Costs</b>					
Offsite Improvements					
City Utilities Relocation					
Parking Mitigation					
Stormwater Retention/Detention					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	
<b>3) Facility Construction</b>					
A10 - Foundations					
A20 - Basement Construction					
B10 - Superstructure					
B20 - Exterior Closure					
B30 - Roofing					
C10 - Interior Construction					
C20 - Stairs					
C30 - Interior Finishes					
D10 - Conveying					
D20 - Plumbing Systems					
D30 - HVAC Systems					
D40 - Fire Protection Systems					
D50 - Electrical Systems					
F10 - Special Construction					
F20 - Selective Demolition					
General Conditions					
Other Direct Cost					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>4) Maximum Allowable Construction Cost</b>					
<b>MACC Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
	<i>NA</i>			<i>NA per 0</i>	

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**7) Owner Construction Contingency**

Allowance for Change Orders	\$0		
Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.1359</b>	<b>\$0</b>

**8) Non-Taxable Items**

Other			
Insert Row Here			
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.1359</b>	<b>\$0</b>

**9) Sales Tax**

<b>Sub TOTAL</b>	<b>\$0</b>		<b>\$0</b>
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<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$0</b>		<b>\$0</b>
-------------------------------------	------------	--	------------

Green cells must be filled in by user

## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings					
F10 - Special Construction					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.1359</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$0</b>			<b>\$0</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$0</b>			<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$0				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

Green cells must be filled in by user

## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$12,558				
Additional Services	\$28,500				
Other	\$14,100				Archaeological
Insert Row Here					
<i>Subtotal of Other</i>	<i>\$14,100</i>				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$55,158</b>		<b>1.1359</b>	<b>\$62,654</b>	

Green cells must be filled in by user

## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.1053</b>	<b>\$0</b>	

Green cells must be filled in by user

**C-100(2024)**  
**Additional Notes**

**Tab A. Acquisition**

*Insert Row Here*

**Tab B. Consultant Services**

*Insert Row Here*

**Tab C. Construction Contracts**

*Insert Row Here*

**Tab D. Equipment**

*Insert Row Here*

**Tab E. Artwork**

Infrastructure - no enclosed space.

*Insert Row Here*

**Tab F. Project Management**

Includes Archaeologist

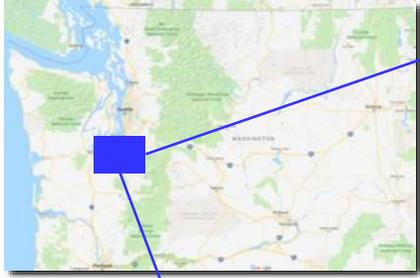
*Insert Row Here*

**Tab G. Other Costs**

*Insert Row Here*

# Tumwater Equipment Parking Expansion – Design

*At end state this project will complete construction of additional parking and storage surface the Department's Tumwater Compound.*



**Project:**  
2025 Request: **\$397,000**  
2025 Phase: **Design.**

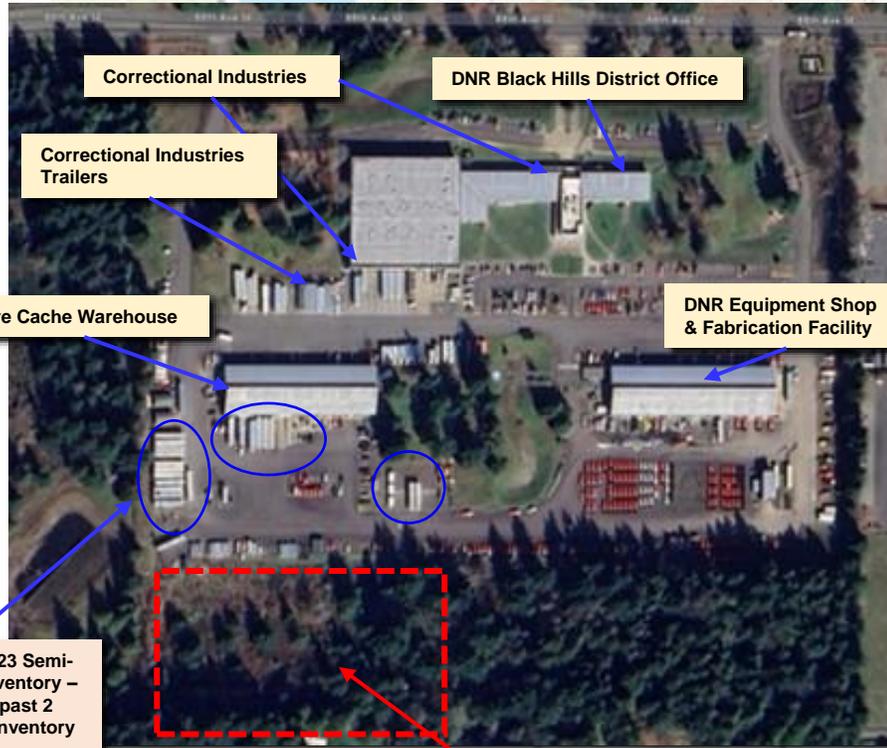
**Total Project Cost: \$TBD as a result of design phase.**

End state of project is construction of additional equipment parking for heavy equipment and semi-trailers at the Department's Tumwater Compound. The project will accommodate the safe parking and maintenance of the expanded fleet inventory that supports suppression of wildfires throughout the state.

Operating impact or request: \$0 for '25-'27

Project is located on existing DNR property at the Tumwater Compound across 88<sup>th</sup> Avenue from the airport.

DNR has added 23 Semi-trailers to the inventory – 85% increase in past 2 years; doubled inventory in past 5 years.



**Project design Area**

1) Equipment inventory growth, particularly inclusive of semi-trailers and heavy equipment has increased significantly over the past five years. The Tumwater Compound is the nexus for servicing the equipment and storing/stocking the trailers for deployment.

2) Congestion, particularly related to the safe operation of semi-trailers at the Tumwater Compound and the Department requires a solution that provides for safe logistical operations.

3) The Department has space to develop additional parking at the Tumwater Compound and need to proceed with design and development to meet statewide fire suppression requirements.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:17PM

Project Number: 40000600

Project Title: 2025-27 Federal Land Acquisition Grants

**Description**

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 26

**Project Summary**

This request is for spending authorization only for conservation land acquisitions that improve the ability to conserve critical habitats and prevent the conversion of working forests in the State of Washington. This request allows the Department of Natural Resources (DNR) to expend Federal Land Acquisition funds for these land acquisition projects.

**Project Description*****Identify the problem or opportunity addressed. Why is the request a priority?***

The Department of Natural Resources (DNR) Conservation Acquisition program utilizes Federal Land Acquisition Grants to conserve critical habitats and prevent conversion of working forests in the State of Washington. The Conservation Acquisition Program applies for Federal Land Acquisition Grants. These grants fund activities of the Conservation Acquisition Program.

Sufficient appropriations allow the department to purchase conservation properties as described in each of the Funded Federal Land Acquisition Grants. These acquisitions provide protection to critical habitats and prevent forest conversions in the State of Washington.

**What will the request produce or construct? When will the project start and be completed?**

This is an on-going program intended to conserve and protect critical habitat and prevent forest conversion.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

If DNR is not given sufficient spending authority in these accounts, the department cannot conserve these important lands in Washington.

**What alternatives were explored? Why was the recommended alternative chosen?**

The alternative is to not conserve critical properties or prevent conversion of working forests.

**Which clientele would be impacted by the budget request?**

The Clients are the partners the DNR works with to protect and conserve critical habitat. Forest Products Companies needing forests to remain working forests and the citizens of the State that rely on the forests of the State.

**Does this project or program leverage non-state funding? If yes, how much by source?**

No

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project addresses the "Working and Natural Lands" portion of Results Washington Goal 3: Sustainable energy and a clean environment (see [www.results.wa.gov](http://www.results.wa.gov)).

- Protects forest land habitats- Prevent conversion of working forests

Directly supports DNR strategic plan goals:

2D3 - Protect and Maintain Working Forestlands by working in partnership to identify and advance policies and programs that

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:17PM

Project Number: 40000600

Project Title: 2025-27 Federal Land Acquisition Grants

**Description**

encourage retention of working forests.

D4 – Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.

D 4.1 – Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.

D 4.3 - Expand Natural Areas, Natural Heritage, Aquatic Reserves, and other research and conservation programs that support biodiversity and landscape connectivity.

**Does this request include funding for any IT-related cost?**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

Not linked to PSAA

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

No

**How is your proposal impacting equity in the state?**

No

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

This request is only for DNR to have the authority to spend Federal Land Acquisition Grant Funds. DNR is not asking for any additional funds to be placed into the account.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

No

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 4:17PM

Project Number: 40000600

Project Title: 2025-27 Federal Land Acquisition Grants

**Description**

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriates	New Appropriates
001-2	General Fund-Federal	360,000,000				72,000,000
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>360,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72,000,000</b>

		Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
001-2	General Fund-Federal	72,000,000	72,000,000	72,000,000	72,000,000
26D-1	Natural Clim Solu Ac-State				
	<b>Total</b>	<b>72,000,000</b>	<b>72,000,000</b>	<b>72,000,000</b>	<b>72,000,000</b>

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No. This request is for spending authority only.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:31PM

Project Number: 40000038

Project Title: Teanaway

## Description

Starting Fiscal Year: 2020

Project Class: Program

Agency Priority: 99

### Project Summary

When the Legislature created the Teanaway Community Forest (TCF) it established five goals for the stewardship of this landscape including improved watershed protection, restoring forest health, retaining working lands, maintaining recreation access, and fostering community partnerships. This Department of Natural Resources (DNR) re-appropriation request of \$200,000 will provide the materials and contracting for culvert installation and other priority road maintenance activities. Installation of fencing, off-channel watering and cattle guards will protect sensitive riparian areas from the impacts of grazing.

### Project Description

#### ***Identify the problem or opportunity addressed. Why is the request a priority?***

The project includes West Fork Trail work, range infrastructure and completing the scenic driving loop and associated ADA improvements. Reappropriating this capital allows for the completion of a motorized loop intended for pleasure driving and ADA access where other motorized access is not allowed. The driving loop road that is left to finish needs shaping, drainage, rock and ADA amenities and informational signage to be complete. The majority of the 9-mile loop is complete, only 2.8 miles left to completion. This is important access for the community and could be used as an escape route if a fire impacted one of the two mainstems of the Teanaway. The remaining money for trails is important match for a Recreation and Conservation Office grant that has a lot of public support. The range infrastructure is part of ongoing riparian improvement projects to help meet goals of the Yakima Basin Integrated Plan.

#### **What will the request produce or construct? When will the project start and be completed?**

The request will complete the final phase of the driving loop (\$130,000), allow the second phase of the trail work to continue (\$25,000) and continue riparian fencing and cattleguard maintenance (\$45,000).

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The request will allow the agency to fulfill its commitment to implement the Teanaway management and recreation plans, and complete projects we have started and not yet had capacity to finish. The result of not following through on our commitment to the plans and the local community would have a significant impact to our relationships with the advisory committee, Washington Department of Fish and Wildlife (DFW), tribes, local businesses/operators and recreationists. We could also lose associated grant money that is supplementing this request.

#### **What alternatives were explored? Why was the recommended alternative chosen? (Be prepared to provide detailed cost backup. If this project has an associated predesign, please summarize the alternatives the predesign considered.)**

The projects are too far along to consider alternatives without costing a significant amount of money to start from scratch. The scenic driving loop project has cost \$355,083 of this original funding to date. The trail project has spent approximately \$10,000 in addition to the \$172,000 in grant funding it leveraged. The grazing infrastructure project has not spent this funding as of yet due to previous funding that was a priority to spend first.

#### **Which clientele would be impacted by the budget request?**

The local community, individuals with a disability, recreationists, grazing operators, excavating companies, fish and wildlife, and anyone impacted by degraded water quality.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:31PM

Project Number: 40000038

Project Title: Teanaway

**Description****Does this project or program leverage non-state funding? If yes, how much by source?**

No.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project allows us funding to partner with tribes, local partners and other state agencies to implement work important to climate resilience, salmon recovery and educating the public. The driving loop and trails will give the agency a place to engage local communities and youth to promote natural resource careers and engage on topics important to them. It will also allow them to form a deeper connection with the environment and learn to be good stewards of the land while also taking advantage of the benefits of being outdoors.

**Does this request include funding for any IT-related cost?**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

N/A

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

N/A

**How is your proposal impacting equity in the state?**

The largest part of the project is providing motorized vehicle access to a portion of the forest there is no motorized access, which provides an opportunity for those unable to hike, mountain bike or horseback ride to access a beautiful portion of the forest. It also allows for those not comfortable visiting the outdoors an easier path to experience our lands.

**Is this project eligible for Direct Pay?**

No

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

N/A

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

The project is for improvements to the Teanaway Community Forest to help meet the five goals of the community forest. The Teanaway capital request was originally funded in the 2019-21 biennium.

- Scenic Driving Loop ADA improvements – steady progress has been made on this driving loop with only 2.8 miles of the 9

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 1:31PM

Project Number: 40000038

Project Title: Teanaway

**Description**

miles left to complete. The availability of contractors with the right equipment has played a role in the slow but steady progress. The availability of rock to finish the steepest portion of the road has also been an issue the region has been continually trying to address. An alternate rock source may be identified in the near future to allow for completion of the rocking portion.

- West Fork Trail – this trail work is on track to align with aquatic restoration activities planned with Yakama Nation Fisheries and Mid-Columbia Fisheries. They have been acquiring funding to complete this stretch of the West Fork and implementation is planned during next biennium.

- Range Infrastructure – previously reappropriated range infrastructure funding was prioritized to use first. This funding will continue the fencing project to protect riparian areas from grazing.

**FTE:**

Natural Resource Technician: 0.5 SM – Coordination and implementation of trails plan and assistance with riparian protection project (fencing, cattle guards).

Civil Engineer 2: 0.5 SM – Road and ADA feature design, contract development and compliance.

**Location**

City: Cle Elum

County: Kittitas

Legislative District: 013

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,856,000	1,502,000	154,000	200,000	
	<b>Total</b>	<b>1,856,000</b>	<b>1,502,000</b>	<b>154,000</b>	<b>200,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

The scenic driving loop, west fork trails and range infrastructure will directly and indirectly benefit the main forks and tributaries of the Teanaway River system by limiting sediment delivery and over grazing of riparian areas. The scenic driving loop provides an opportunity for those with limited mobility to access parts of the forest that is currently only open to non-motorized recreation.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

All of the projects on this list go toward environmental benefits.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

The projects increase ease of access to lands in the Teanaway Community Forest and will rehabilitate user built, unsustainable trails and river access. Limiting impacts to the tributaries and mainstem of the Teanaway allows the aquatic restoration projects Yakama Nation Fisheries has been implementing a better opportunity for success.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Tribes have been consulted on each project as part of EO05-05 and now 21-02. There is tribal representation from Yakama on the TCF Advisory Committee and representatives from YNF are part of our weekly DNR/DFW check-ins on these projects.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
\$ 200,000

**Capital Project Name:** Teanaway Community Forest 19-21  
**Project #:** 40000038

- Project Types  
 1: Health, safety & code req  
 2: Facility preservation  
 3: Infrastructure preservation  
 4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
Scenic Driving Loop ADA Improv	SE	Cle Elum	47.260337/-120.89923	13	Preservation	130,000	
West Fork Trails	SE	Cle Elum	47.260337/-120.89923	13	Preservation	25,000	
Rangeland Infrastructure	SE	Cle Elum	47.260337/-120.89923	13	Preservation	45,000	
<b>Total</b>						<b>\$ 200,000</b>	

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:09PM

Project Number: 40000077

Project Title: 2021-23 Forestry Riparian Easement Program

## Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 99

### Project Summary

The Forestry Riparian Easement Program (FREP) provides financial support to qualifying family forest landowners, which helps maintain their economic viability and reduces the risk of conversion of forest land to other uses. This is a budget re-appropriation request of \$4.47 million from the current biennium's capital allotment in the State Building Construction Account. This request is related to Puget Sound Action Agenda Implementation and implementing the Governor's Salmon Strategy.

### Project Description

#### **Identify the problem or opportunity addressed. Why is the request a priority?**

The Legislature created FREP in 2001 to compensate eligible small forest landowners for the disproportionate financial impacts of the expanded riparian protections brought about by the Forests and Fish law and rules. As a result of Senate Bill 5667 FREP is now designed to pay small forest landowners for 90% of the value of required leave trees in riparian areas and associated unstable slope buffers from which they are prohibited from harvesting timber. The landowner continues to own the property and retains full access. Landowners cannot cut or remove the acquired timber during the easement period. This reappropriation along with Salmon Recovery Account reappropriation and a \$4.9 million budget request, would provide for:

- a. Estimated increase in easement value due to SB5667.
- b. Estimated 50% increase (25 to 37) in applications received due to SB5667.
- c. Increased costs for conducting timber cruises to help evaluate timber for each application, an additional .33 FTE of a Forest Timber Cruiser 2 position.

The program's funding is used for two main purposes: 1) valuation of easements and 2) compensation for easements. By law, not more than 50% of the allocated funds can be spent on valuing the timber.

#### **What will the request produce or construct? When will the project start and be completed?**

Forty-year easements will continue to be purchased to compensate small forest landowners for expanded riparian protections starting in July 2025 and ending June 2027. There will be an estimated 70 easement applications in the queue purchased between this reappropriation request and the request for new funding. Due to the field work, timber cruising, escrow and title involvement, and landowner interactions, this is a consistent workflow not conducive to phasing.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The legislature established the FREP to help offset the diminishing economic viability of the small forest landowners caused by the disproportionate economic impacts of increased riparian buffer regulatory requirements.

Retaining small forest landowners on working forestlands benefits the citizens of Washington by:

- Aiding in the restoration of threatened and endangered fish stocks;
- Cleaning-up and restoring Puget Sound;
- Providing financial support for family forest landowners, which will help maintain their economic viability, and reduce the risks of conversion of forest lands; and
- Providing jobs related to the purchasing of conservation easements and hiring forestry consultants.

To not fund FREP would curtail an on-going statewide conservation easement program designed solely for small forest

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:09PM

Project Number: 40000077

Project Title: 2021-23 Forestry Riparian Easement Program

**Description**

landowners. It would put the state at risk of not fulfilling a core commitment of the Forests and Fish Report and the legislation that followed, as well as a commitment made in the Forest Practices Habitat Conservation Plan. Defunding would reduce support for the economic viability of small forest landowners and create a greater potential for conversion of this vital riparian forestland to uses other than working forestland. Conversion of working forestland to other uses jeopardizes compliance with the Clean Water Act and Puget Sound recovery efforts.

**What alternatives were explored? Why was the recommended alternative chosen?**

No other alternatives were explored. The FREP program increased forester capacity and streamlined processes resulting in eliminating the backlog of unfunded easements waiting to be purchased in the 23-25 biennium. The program will need \$10.5 million total funding to purchase current and future applications during the 25-27 biennium. This signals to the small forest landowner community, including SB5667 passing, a recognition that the state is successfully meeting its commitment to them through this program.

**Which clientele would be impacted by the budget request?**

FREP is strongly supported by the Washington Farm Forestry Association, the Washington Tree Farm Program, Washington Dept. of Fish and Wildlife, Washington Dept. of Ecology, Washington Forest Protection Association, the Conservation Caucus, tribes, local government entities and many of the family forest landowners across the state.

**Does this project or program leverage non-state funding? If yes, how much by source?**

Non-state funding is not available for use in this program. This program has historically been funded by a capital State Building Construction Account appropriation. The program does not have a dedicated funding source or matching funds.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

The FREP Program supports the 2022 - 2025 Agency Strategic Plan priorities by helping to fulfill:

- B2. Increase Work with Tribal, Local, State, and Federal Governments

o B 2.1 Partner with tribes, federal, state, and local partners to prioritize and implement forest health treatments, such as mechanical treatments and prescribed fire, in landscapes with the highest need and relative risk, in line with the 20-Year Forest Health Strategic Plan (Eastern Washington).

- B3. Tell the story of public lands and the wide-ranging effects of DNR's work on behalf of Washington's communities.

o B 3.1 Publish public awareness and safety documents, brochures, and forms in multiple languages.

o B 3.2 Make DNR's scientific expertise and body of research more readily available for the public.

o B 3.4 Engage and educate the public about the environmental, social, and economic benefits of DNR lands, including DNR's trust mandate.

- D.4 Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity

o D 4.1 Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.

**Does this request include funding for any IT-related cost?**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:09PM

Project Number: 40000077

Project Title: 2021-23 Forestry Riparian Easement Program

**Description**

FREP contributes to the 2022-2026 Action Agenda for Puget Sound strategies directly through outcome

Tier 1. Protect and restore habitat and habitat forming processes;

- 1.1 Protect habitat and habitat-forming processes from conversion and fragmentation

o 1.1.1 Ecologically important lands (including beaches, estuaries, forests and wetlands, streams and floodplains) protected from development

o 1.1.2 Natural marine, estuarine, and freshwater shorelines (those not armored) protected to prevent future armoring and development

o 1.1.3 Future fragmentation of rivers, floodplains, and estuaries by structural barriers.

FREP contributes to these outcomes through the preservation of riparian habitat by acquiring easements protecting riparian areas from development, armoring, and fragmentation.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

FREP contributes to carbon sequestration by maintaining the riparian forests within the conservation easement areas for the life of the 40-year easement.

**How is your proposal impacting equity in the state?**

The FREP, as part of the Small Forest Landowner Office, assists small forest landowners by offsetting disproportionate financial impacts incurred by the implementation of expanded riparian zone protections brought about by the Forests and Fish law and rules. FREP was originally designed to pay small forest landowners for 50-89% of the value of required leave trees in riparian areas and associated unstable slope buffers from which they are prohibited from harvesting timber. However, in 2024 the Legislature passed Senate Bill 5667 establishing a reimbursement rate of 90% for all qualifying landowners. The landowner continues to own the property and retains full access. The small forest landowner community consists of more than 218,000 individual owners across the state with a wide variety of ownership characteristics and objectives.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

The FREP program is eligible for funding from the Climate Commitment Act (Natural Climate Solutions Account (NCSA)).

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

The Washington Governor's Salmon Strategy is a comprehensive plan aimed at recovering salmon populations across the state. The strategy, updated in 2021, includes several key actions:

- Protect and restore vital salmon habitat.
- Invest in clean water infrastructure for both salmon and people.
- Correct fish passage barriers to restore salmon access to their historical habitats.
- Build climate resiliency to support salmon recovery.
- Align harvest, hatcheries, and hydropower operations with salmon recovery goals.
- Address predation and food web issues affecting salmon.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:09PM

Project Number: 40000077

Project Title: 2021-23 Forestry Riparian Easement Program

**Description**

- Enhance commitments and coordination across various agencies and programs.
- Strengthen science, monitoring, and accountability efforts'

The Forestry Riparian Easement Program fulfills these key actions by protecting and restoring vital salmon habitat and investing in clean water infrastructure for both salmon and people.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Program (Minor Works)

**Growth Management impacts**

This program will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	8,822,000	884,000	3,464,000	4,474,000	
	<b>Total</b>	<b>8,822,000</b>	<b>884,000</b>	<b>3,464,000</b>	<b>4,474,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.
2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.
3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.
4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.
5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.
6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how

your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 3,380,132**

**Capital Project Name:** Forest Riparian Easement Program - reappropriation  
**Project #:** \_\_\_\_\_

Project Types  
1: Health, safety & code req  
2: Facility preservation  
3: Infrastructure preservation  
4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat	Long	Leg Dist	Project Type	Estimated Total \$	Notes
Hunt	SPS	Shelton	47.21249	-123.10566	35	4	19,692	
Gosser 2	SPS	Shelton	47.21249	-123.10566	35	4	68,922	
Vance/Elmore	PC	Morton	46.5554	-122.27514	20	4	295,380	
Spada Family Dynasty Trust	NW	Everett	47.97659	-122.20597	39	4	39,384	
Lillegard	PC	Skamania	45.96877	-121.92917	15	4	68,922	
Sherman Esses LLC	Olympic	Port Angeles	48.11892	-123.43112	24	4	324,918	
Paulson 2	Olympic	Port Angeles	48.11892	-123.43112	24	4	73,845	
Watts	SPS	McCleary	47.04947	-123.26405	35	4	103,383	
Tree Management Plus 1	PC	Ethel	46.5324	-122.74781	20	4	87,629	
Tree Management Plus 2	PC	Ethel	46.5324	-122.74781	20	4	37,415	
Tree Management Plus 3	PC	Ethel	46.5324	-122.74781	20	4	41,353	
Johnston 2	NE	Newport	48.18286	-117.04398	7	4	49,230	
Mowry 5	SPS	Aberdeen	46.97606	-123.8162	19	4	78,768	
Schultz	PC	Vancouver	45.63249	-122.67156	7	4	88,614	
Becker	SPS	Olympia	47.03956	-122.89166	20	4	49,230	
Harkness 2	NE	Okanogan	48.36541	-119.57959	35	4	206,766	
Mowry 6	SPS	Aberdeen	46.97606	-123.8162	19	4	49,230	
Conner	NE	Cle Elum	47.195	-120.93943	13	4	41,353	
Over Time 3	PC	Westport	46.89113	-124.10425	19	4	47,261	
Over Time 8	PC	Westport	46.89113	-124.10425	19	4	103,383	
Normanna Park Inc	NW	Snohomish	47.91266	-122.09305	39	4	9,846	
Payne	NW	Burlington	48.46846	-122.33029	39	4	187,074	
ACLT, LLC	SPS	Tacoma	47.25517	-122.44164	2	4	62,030	

Boone	PC	Menlo	46.62576	-123.64994	19	4	78,768
Massa	PC	Longview	46.14682	-122.95059	18	4	123,075
Huskey Gilliam	PC	Chehalis	46.66211	-122.96462	20	4	59,076
Santangelo	NW	Mt. Vernon	48.41645	-122.33891	39	4	157,536
Abell	NE	Kettle Falls	48.61053	-118.06212	7	4	39,384
Jackson, G.	NE	Okanogan	48.36541	-119.57959	12	4	620,298
G4 Timber Holdings	PC	Raymond	46.68867	-123.72994	19	4	123,075
J&R Corp 2	Olympic	Aberdeen	46.97606	-123.8162	24	4	45,292
<b>Total</b>							<b>\$ 3,380,132</b>

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:25PM

Project Number: 40000092

Project Title: 2021-23 Road Maintenance and Abandonment Planning

## Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 99

### Project Summary

The Forest Roads Program requests reappropriation of \$659,500 for the completion of Road Maintenance and Abandonment Plan (RMAP) projects originally appropriated in 21-23. This reappropriation request will allow the Department of Natural Resources to complete a documented project with operation concerns, restoring unfettered access and clean water standards on state grant lands and state forest lands. This project is related to Puget Sound Action Agenda Implementation.

### Project Description

#### ***Identify the problem or opportunity addressed. Why is the request a priority?***

The Forest and Fish legislation (RCW 76.09) and the Forest Practices Habitat Conservation Plan obligates the state to complete Road Maintenance and Abandonment Plan (RMAP) implementation under approved extension by October 2021 (WAC 222-24-050). The Culvert Injunction obligates the state to repair all new barriers to salmon use in the Case Area within 6 years of identification and to conduct re-evaluation of passable culverts to verify passage and identify new barriers. Over the past 25 years, the Department of Natural Resources (DNR) has repaired or removed over 1,635 fish barriers. These projects have been funded by a combination of the Access Road Revolving Account Fund (ARRA), federal grants (FEMA), State Building Construction Account (SBCA/Jobs Bill), and as a contractual obligation of timber sales. With the ongoing 10% inspections, DNR is continuing to find some additional structures, that were passable in the original assessments completed in the early 2000's, but have now become barriers to fish passage. This funding will allow DNR to meet our obligations.

Additionally, DNR plans to study and evaluate the potential effects of climate change on road drainage systems. This is in partnership with the UW Climate Impacts Group and is related to Puget Sound Partnership Agenda (PSP) Near Term Action (NTA) 2018-0234.

#### **What will the request produce or construct? When will the project start and be completed?**

Project work will continue through July 2025 and end June 2027. The project will restore unfettered access to DNR property, public recreation, and legal access to residences. Correction of fish barrier culverts across the state will open habitat to anadromous and resident fish populations and improve the environmental condition of state lands with road sediment reduction projects. Completion of projects meets Washington's commitment to the Clean Water Act in Puget Sound and across the rest of the state. This project re-evaluates fish passable structures to ensure they remain fish passable. As well as, identification and scheduling of culverts that need maintenance or correction to remain fish passable. This project continues and expands on work done to evaluate climate change impacts on forest road drainage and provides jobs to rural contractors where state gains in job growth are lacking.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The request will provide necessary funding to complete our RMAP work and keep DNR compliant with the Culvert Injunction. Funding will allow the hiring of contractors to complete more projects than can be accomplished by DNR's heavy equipment crews and the hiring of engineers when projects are outside of DNR's expertise.

The collection of the ARRA fees is not supplementing the fund fast enough to meet immediate deadlines. We have cut the amount of maintenance to cover basic needs and obligations in support of funding fish passage projects. Moving any more funds from maintenance would create more problems both short and long term, including more of the same type of projects we are requesting to fix with this request.

Not taking action would put DNR at risk of being in violation of our RMAP and our obligations under the Culvert Injunction. Not taking action will also damage DNR's social license to operate with various stakeholders across Washington.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:25PM

Project Number: 40000092

Project Title: 2021-23 Road Maintenance and Abandonment Planning

## Description

### What alternatives were explored? Why was the recommended alternative chosen?

Alternatives for all projects are explored at the early phases of sub project development. Culvert Injunction projects are limited to removal, full-span bridge, or stream simulation culvert design. Recommended alternatives were chosen as the best project that balances management needs, environmental condition, and cost.

### Which clientele would be impacted by the budget request?

WSDOT, Parks, and WDFW along with DNR are party to the Culvert Injunction. DNR accomplishing goals is a benefit for all state agencies and our obligation under the Culvert Injunction. Local tribal entities will support the correction of injunction barriers and expect DNR to meet the requirements of the Culvert Injunction issued by Judge Martinez. Northwest Indian Fisheries Commission (NWIFC), and Depts. of Fish and Wildlife, Parks, and Transportation, support the Culvert Injunction portion of the proposal. Local tribes, Forest Practices, and Dept. of Fish and Wildlife also support the non-injunction portion of this proposal. Recreational users and neighboring property owners with access rights across DNR-managed lands will see improved road drainage conditions.

This funding will allow DNR to complete additional fish barrier and road sediment reduction projects, and continue to partner with experts in climate change to proactively adapt our road systems to potential effects.

### Does this project or program leverage non-state funding? If yes, how much by source?

No. Other funding sources such as ARRA, federal grants (FEMA), and timber sales will be used to accomplish other fish passage and road repair projects not identified on the attached list. Projects on the attached list that are not funded by SBCA either will be delayed or will take the funding from ARRA, delaying those other projects and/or forcing reducing maintenance levels on DNR roads which will result in short and long term damage to Trust infrastructure and potential safety code violations.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project directly implements **2018 Puget Sound Action Agenda** near-term actions **2018-0233 & 2018-0234**. Additionally, several Vital Signs of the PSP are supported by the 17 other sub projects in the Puget Sound Basin listed in this proposal, including restoration of freshwater habitat/freshwater quality and natural resource employment and output.

This project supports **DNR's Guiding Principles**. Providing fish passage and upgrading roads are ways that we support healthy ecosystems and properly manage our lands. Our fish passage program improves forest streams by making habitat available to aquatic species and by facilitating natural stream function. This benefits our management programs and the public by providing habitat for game fish and endangered fish species. Our project implementation process is based on guidelines provided by the Department of Fish and Wildlife, the Forest Practices Board Manual, and work accomplished by our region and division engineering staff.

This project supports **Results Washington** as follows:

- **Goal 2 Prosperous Economy** by providing livable wage construction jobs to rural contractors where state gains in job growth are lacking. Many of these contractors are small business owners that live and work in the same communities. These projects are specifically for the betterment of forest roads to provide a safe, environmentally responsible, and reliable road infrastructure that supports multiple uses, but in particular recreation and the forest economy. Forest roads are an asset to the forest economy.
- **Goal 3 Sustainable Energy and a Clean Environment** by promoting healthy streams and fish habitat statewide. These projects lower or prevent resource damage including; sediment delivery to streams, scour on roads and in streams, small

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:25PM

Project Number: 4000092

Project Title: 2021-23 Road Maintenance and Abandonment Planning

## Description

scale landslides, improper water management, and remove fish habitat barriers. These projects keep our forest roads compliant with environmental protection laws while providing access for forestry jobs (construction, logging, science, and conservation) and outdoor recreation opportunities. Injunction culverts directly related to the health of pacific salmon with 26 corrections opening 13 miles of habitat identified.

· **Goal 5 Efficient, Effective and Accountable Government** by showing that DNR is providing responsible resource stewardship. We are accountable for being in compliance with the Culvert Lawsuit injunction and forest practice rules; managing to correct and prevent resource damage is in the best interest of the people of Washington.

This project supports **DNR's Strategic Priorities** as follows:

· **Priority B Build Strong and Healthy Rural Communities**

Goal B.2: Partnerships that strengthen rural economies because over 90% of the requested funds will be used for construction contracting. The small size of our projects attracts the rural contractors that live and work in the local communities where the projects are located.

· **Priority D Strengthen the Health and Resilience of Our Lands and Waters.**

Goal D.1: Lands and waters that can remain productive and adapt to changing conditions, including climate change and a growing population.

o Strategy D.1.4: Expand efforts to use natural systems to buffer against floods, storm water, sea level rise, and droughts stemming from changing conditions by protecting the forest road infrastructure from sediment delivery and climate change, and contributing to natural stream function, including water availability. These improvements also protect against higher frequency and intensity of storms, shifting rain-on-snow areas, and fire damage.

Goal D.4: Restore ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.

o Strategy D.4.1: Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative upland and nearshore protection and restoration activities by actually restoring critical salmon habitat and improving the stream function in the upper watersheds to provide for better quality water feeding into that salmon habitat.

o Strategy D.4.3: Reduce contaminants from DNR-managed or regulated roads and other facilities from entering state waters and remove sources of toxic materials (e.g. creosote) from our waters by upgrading roads and stream crossings to Forest Practices and Clean Water Act standards, reducing or eliminating harmful sediment that enters state waters. Improvements to a stream's natural function means less stream scour and fewer road-crossing failures.

**Does this request include funding for any IT-related cost?**

N/A

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, through fish passage barrier inventory and removal, and conducting critical climate change research to assess current road drainage network conditions, best management practices (BMP) and lifecycles under predicted climate change regimes.

The Influential Outcomes **directly** advanced by this proposal include:

1.2 Protect agricultural lands and working forests from conversion

1.3 Restore natural flows, fish passage, flooding, and tidal inundation to freshwater and marine systems by removing structural barriers or altering their management

1.4 Restore habitat and habitat-forming processes to support biological communities

4.3 Increase the resilience of the Puget Sound ecosystem and recovery efforts by adapting to changing climate and ocean conditions when conducting protection and restoration activities

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy 2: Support the long-term viability and sustainability of agricultural lands and working forests to reduce pressure for

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:25PM

Project Number: 4000092

Project Title: 2021-23 Road Maintenance and Abandonment Planning

## Description

conversion from the current use to a more developed use. (ID #4)

· Key opportunity: Improve regulations, policies, and plans that maintain a working lands base, particularly for those areas that are vulnerable to the effects of climate change.

Strategy 5: Increase the number and accelerate implementation of habitat acquisition and restoration projects as prioritized in salmon and watershed recovery plans. (ID #12)

· Key opportunity: Remove culverts and other barriers to connectivity to improve and maintain streamflow functions within floodplains and their associated estuaries

Strategy 5: Implement habitat protection and restoration projects that restore or maintain natural nutrient attenuation functions and sediment processes in watersheds, estuaries, and tidal wetlands (ID #24)

Strategy 6: Inventory and assess all fish passage barriers (culverts, dams, etc.). Prioritize, sequence, and implement fish passage barrier correction or removal in watersheds. (ID #152)

· Key opportunity: Fulfill the state's obligation to replace fish passage culverts

Strategy 12: Facilitate the increased use or performance of best management practices to reduce pollutants and the volume of runoff from agricultural lands and working forests. (ID #5)

Strategy 12: Facilitate the increased use or performance of best management practices, including increasing riparian restoration, to reduce stream temperatures (ID #196).

Strategy 20: Implement multi-benefit projects and programs that synergistically advance Puget Sound recovery goals and reduce greenhouse gas emissions, increase carbon sequestration in Puget Sound ecosystems, increase climate adaptation, and promote climate resilience. (ID #137)

· Key opportunity: Develop climate-resilient forest management practices (including commercial forestry) and reforestation approaches to reduce risks of drought and wildfire, as well as increase snowpack and low summer streamflow.

Strategy 25: Support natural resource sector jobs and production opportunities. (ID #165)

The proposal contributes to secondary priorities in the Science Work Plan (SWP), including:

· Decision support or information for transformative, large-scale action

The proposal directly implements recommendations of the Orca Task Force (OTF), including:

OTF 1: Significantly increase investment in restoration and acquisition of habitat in areas where Chinook stocks most benefit Southern Resident orcas.

OTF 45: Mitigate the impact of a changing climate by accelerating and increasing action to increase the resiliency and vitality of salmon populations and the ecosystems on which they depend

The proposal is aligned with and implements strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY – Population Growth (6):** Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

**STRATEGY – Low Summer Flows (3):** Protect and manage headwaters and upland forest to improve hydrologic function of watersheds.

Low Flow: 3.1 Prevent the conversion of forests and promote restoration of riparian areas.

**STRATEGY – Low Summer Flows (5):** Account for future water quantity demands due to a changing climate, ecosystem conditions, and increased population.

**STRATEGY - Climate (1):** Protect and restore critical habitats and ecosystem functions.

Climate: 1.2 Restore and protect natural hydrologic processes to increase summer low flows and decrease winter peak flows (e.g., remove or limit shoreline armoring, reconnect and restore floodplains...

Climate: 1.4 Identify, protect and restore cold-water refugia (e.g., riparian areas, riffles, pools; remove fish passage barriers to expand access to spawning habitat).

Climate: 1.5 Implement science-based riparian protection, restoration, and management policies that achieve broad salmon recovery, full riparian function, and water quality objectives (e.g., WDFW's...

**STRATEGY - Climate (2):** Improve coordination among and between practitioners to incentivize and advance climate-informed salmon recovery goals.

Climate: 2.2.2 Remove and/or modify barriers such as culverts, tide gates, and floodgates on public and private lands to

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:25PM

Project Number: 40000092

Project Title: 2021-23 Road Maintenance and Abandonment Planning

**Description**

ensure access to tributaries, reconnecting oxbows, and protecting pools to restore...

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

N/A

**How is your proposal impacting equity in the state?**

The Healthy Environment for All (HEAL) Act promoted the use of the Washington Tracking Network (WTN) created by the Washington Department of Health as a tool used to evaluate the public health for communities across Washington. These may include social vulnerability to hazards such as household which includes the percentage of single parents, housing, socioeconomic factors like percentage of population living in poverty and percent unemployment. Many of the structurally deficient bridges on the list are located near communities that are experiencing medium to high vulnerability to social hazards. These communities have high unemployment, and high percentages living in poverty. Replacement of these structurally deficient bridges provides opportunity for employment for skilled labor, provides opportunities for recreation and access to the benefits of brush gathering communities and other groups. This activity ties to ESSB 5141 by addressing Social Vulnerability to Hazards, specifically poverty and unemployment through gathering wild edibles and brush for floral arrangements. Furthermore, the many recreationists use DNR roads and bridges to reach hiking trails and campgrounds on public lands. In addition, they may use forest lands for family picnics, fishing and relaxing. The roads are also used by mountain bikers, bicyclists, motorbikes, and all-terrain vehicles which promotes health.

**Is this project eligible for Direct Pay?**

N/A

**Is there additional information you would like decision makers to know when evaluating this request?**

Timely preservation and replacement of critical infrastructure is crucial to DNR's Forest Roads program. Without these critical improvements, the state lands and DNR stakeholders will lose revenue and stakeholders will be unhappy with DNR's ability to maintain its system.

Failure to fund will have immediate consequences on DNR's ability to continue with routine road maintenance essential to safety and environmental performance of our roads. The financial viability of DNR's activities and fiduciary responsibilities of DNR to our trustees could also be threatened if these funds are not secured.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

The DNR is committed to restoring salmon habitat, providing clean, cool waters, and building climate resiliency into our forest road infrastructure. Since the beginning of the forest and fish law (2021), DNR has successfully replaced or removed 1631 barriers to both salmon and resident fish, and continually monitors and evaluates all fish passage structures on state trust lands while also working with our tribal partners.

- Strategy 1 – Protect and restore vital salmon habitat

- o Our timber industry is an important link to provide essential habitat by removing fish barriers and ensuring clean and cool waters.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:25PM

Project Number: 40000092

Project Title: 2021-23 Road Maintenance and Abandonment Planning

**Description**

- Strategy 2 – Invest in clean water infrastructure for salmon and people
  - o Funding fish barrier replacements will in turn keep working forests working and reduce the negative effects of urban land development. This enables the DNR to design structures that implement nonpoint source “best management practices” which aides in the reduction of sedimentation into our waters and lessening stormwater impacts to the lands and waters downstream of trust lands.
- Strategy 3 – Correct fish passage barriers and restore salmon access to their historical habitat
  - o DNR has met the requirements of the culvert injunction by completing all original injunction barriers. However, inspection is another requirement of the culvert injunction and through this process DNR has found that some culverts that were previously passable, are no longer meeting today’s standards. Fulfilling the funding request will enable DNR to continue to meet forest practice standards, and public and tribal expectations of a state agency.
- Strategy 4 – Build climate resiliency
  - o DNR’s current standards for fish passage restoration includes design measures to evaluate predicted changes in stream flows due to climate change and prevent damages from higher peak flows that can be detrimental to fish.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.**

- 0.5 FTE Civil Engineer 3 (12 staff months) to accomplish permitting, specifications, Public Works Contract, and construction inspection.
- 0.5 FTE Civil Engineer 4 (12 staff months) to accomplish site surveys, final design, specifications and construction management.

**Location**

City: Bellingham

County: Whatcom

Legislative District: 003

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,729,000	662,000	407,000	660,000	
	<b>Total</b>	<b>1,729,000</b>	<b>662,000</b>	<b>407,000</b>	<b>660,000</b>	<b>0</b>

Future Fiscal Periods

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:25PM

Project Number: 4000092

Project Title: 2021-23 Road Maintenance and Abandonment Planning

**Funding**

	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000475

SubProject Title: Lower Racehorse Creek Bridge

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

The Forest Roads Program requests reappropriation of \$659,500 for the completion of Road Maintenance and Abandonment Plan (RMAP) projects originally appropriated in 21-23. This reappropriation request will allow the Department of Natural Resources to complete a documented project with operation concerns, restoring unfettered access and clean water standards on state grant lands and state forest lands. This project is related to Puget Sound Action Agenda Implementation.

**Project Description**

The bridge is the only point of access to approximately 18,000 acres of commercial forest, also used for dispersed public recreation, and several residential properties. The deteriorated condition of the timber abutments threatens continued use of this bridge for access to commercial forestry, recreation, and neighboring homes. The 50' long bridge will be replaced with a 105' structure, and the existing creosoted timber abutment walls will be removed, allowing the opening underneath the bridge will be widened to eliminate stream constriction and improve fish habitat. During construction, a temporary bridge crossing will be established immediately downstream to provide continued access for residents.

**Location**

City: Unincorporated

County: Whatcom

Legislative District: 042

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

DNR's proposal to replacement of structurally deficient structures would continue to provide consistent access to the recreating public and access to tribe's usual and accustomed areas. The direct health benefit is additional roads to utilize as access for exercise, but decades of research have shown "forest bathing" as a way of helping to reduce stress, improve attention, boost immunity and lift moods (Susan Abookire, 2020, assistant professor, Harvard Medical School).

If this request was not funded, many of these structures would be removed instead of replaced, reducing the amount of road network that is available for usage by the public.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

The proposed project is within the OBC map and therefore 100% of the reappropriations will create environmental benefits and benefit the overburdened communities and vulnerable populations.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Providing funding to complete structurally deficient replacement projects will continue to provide access to Tribes' Usual and Accustomed areas for their traditional practices, and some projects would provide improved stream health to anadromous streams, leading to a productive future fisheries harvest by the tribes.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

DNR meets with the Tribes on an annual basis to provide updates to the Culvert Injunction. This is at a time when a newly discovered barrier is presented from recent inspections, and often the first opportunity for DNR to receive input. DNR engineers will evaluate options and alternatives and provide interested Tribes a draft of the proposal to obtain their input.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not part of agency request legislation

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not part of agency request legislation



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

## Description

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

### Project Description

The sub-projects in this request will not be completed within the first biennium primarily due to long lead times for materials, delays with DES statewide contracts, and permitting delays with local jurisdictions. Additionally, some of these projects utilize volunteer and partner non-profit organizations to be cost efficient. Relying on volunteers is cost efficient but results in longer project timelines than a high-cost contractor. These projects are all in progress and the re-appropriation of the funding is necessary for their completion.

Each sub-project addresses a primary need related to one of the six themes, which are described in detail below.

#### **Safe Recreation for a Rapidly Growing Puget Sound Region Population**

Population growth in the Puget Sound region has skyrocketed in the past three decades and visitation numbers to State Lands during the Covid-19 pandemic have increased to the point where insufficient/unorganized parking and overcrowding on trails have made some of the region's most visited recreation areas unsafe. These sub-projects will invest in safe, more accessible trails, infrastructure, and parking lots that are in dire need due to the sharp increase in recreating public both from local communities and from across the state.

#### **Investing in Rural Communities**

Historically, both the RCO grant process and State Capital funding appropriation have favored large projects that serve high-need areas adjacent to Washington's population centers. This results in rural areas of Washington continuously not receiving investment in new outdoor recreational facilities. Due to the lack of infrastructure, these communities were especially hard hit by the pandemic due to both reduced tourism in some sectors (e.g. hospitality) and increased tourism they couldn't accommodate in others (e.g. outdoor recreation). Upgraded facilities are needed to provide safe and healthy outdoor recreation options for the local communities, in addition to supporting tourism visitation. Project completion will improve campground and trail resiliency on the Olympic Peninsula.

#### **Making Baker to Bellingham a Reality**

The Baker to Bellingham Nonmotorized Recreation Plan was developed in partnership with a wide range of stakeholder groups and partners and was approved by the Commissioner of Public Lands in 2019. However, since its approval, DNR has lacked the capacity and funding implement the plans to the degree expected by partners and stakeholders. The Olsen Creek sub-project makes progress towards the priority area completion.

#### **Improving ORV Access and Impacts in NW Washington**

DNR is the only Washington State agency that provides motorized recreation opportunities in the state. In Northwestern Washington, visits to Reiter Foothills increased by 500% between 2009 and 2021 and Walker Valley has seen similar trends with greater overall use. This increase is causing pressure on existing facilities that leads to poor user experience, environmental degradation, and safety concerns from overflowing parking lots. Overcrowding leads to parking on the shoulder of roads, which causes increased sediment in streams and unsafe conditions for users, drivers, and impinged or blocked access for emergency vehicles. Completing the Reiter Trailhead sub-project will address these issues.

#### **Trail and Facility Modernization in SW Washington**

Since many of DNR's trail systems were originally built decades ago, demand has increased, use types have changed, and design methods have improved. The Cold Creek sub-project will improve user experience, decrease environmental impacts,

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

## Description

decrease user conflicts, and increase safety. They will do this by evaluating and updating current systems and facilities.

### Central Cascades Public Access

As overall population and demand for outdoor recreation increases in Washington, use is dispersed away from population centers. The Bird Creek bridge replacement project sustains Tribal access to the Yakama Reservation in addition to public and Tribal access to the Glenwood block.

### **What will the request produce or construct? When will the project start and be completed?**

This project will complete six sub-projects to address the above issues, with details noted in the sub-project list. These will be completed by June 2027.

### **How would the request address the problem or opportunity? What would be the result of not taking action?**

#### **How the problems are addressed:**

- The Olsen Creek project completes A&E design and permitting for 30 car trailhead and vault toilet. This site was a top priority in the Baker to Bellingham Recreation Plan.
- The Bird Creek project replaces failing infrastructure, promoting tourism access near the small town of Glenwood, WA. The Bird Creek Bridge is an important link for Tribal access and recreation, linking the community to state forest lands.
- The Reiter Foothills Trailhead project establishes a new ORV Trailhead at Reiter Foothills ORV area. These ~80 vehicle stalls, toilets, and a stormwater detention pond would address safety and environmental concerns due to crowding and unsanctioned parking along Reiter Road, in addition to better meet user demand.
- The Tiger Summit project will provide safe access to the 160 miles of existing trails on Tiger Mountain and West Tiger Natural Resources Conservation Area. This includes construction of a parking lot and Trailhead Direct shuttle stop at Tiger Summit to access existing trail mileage (including an ADA trail) and to mitigate the parking that is currently occurring on blind corners of a county road and on the shoulder of Highway 18.
- The Rager River Trail System Final phase completes a 4-part trail system development plan that was outlined in the Snoqualmie Corridor Recreation plan. It has been adjusted to address Tribal concerns, and still meets user experience and safety needs.
- The Cold Creek project installs a well water system and telephone line to Cold Creek Campground Host site to provide a healthier and safer water supply and better communication with the host (there is no cell service). These amenities will enable DNR to better recruit and retain hosts, which is critical for better visitor experience, safety, and site protection.

#### **The results of not taking the below actions may include:**

- Work stoppage on in-progress projects.
- Failure to meet contractual obligations with RCO for some projects.
- Continued and increased unsafe conditions.
- Increased future operational costs.
- Potential closure of roads and facilities.
- Failure to follow through on commitments to Tribes, partners, stakeholders, and members of the public who were involved with multiple regional and local planning processes.
- Continued or worsened environmental degradation.
- Continued or increased damage to DNR property and State Trust from theft and vandalism.

### **What alternatives were explored? Why was the recommended alternative chosen?**

In addition to this capital request, DNR Recreation sought RCO grant funding to complete many of these projects and uses capital dollars as match for the grants. For five of the seven projects, DNR received about \$2.1M in RCO grants. Historically, the Recreation program has used some capital funding to replace and fix failing infrastructure, as allowed by OFM rules. However, moving forward, many of those needs will be met with the new General Fund appropriation of \$10M for maintenance. This capital funding request is required because the maintenance funding is needed to fund staff, supplies, and materials to maintain current facilities and infrastructure. This leaves an existing need to fund large, system improvements which will be met with the combination of RCO grants and this capital request because neither source can fulfill the need.

### **Which clientele would be impacted by the budget request?**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

## Description

This request serves a broad constituency of outdoor recreationists statewide. This includes, but is not limited to, hikers, bikers, equestrian, ORV, motorcycle, and 4x4 recreationists. Others include members of the disabled community, campers, day-users, hunters, anglers, and foragers. Opportunities are spread throughout the state. The Bird Creek Bridge sub-project maintains Tribal access via the road system. Three of sub-projects serve rural communities that traditionally do not receive funding for new or improved facilities.

**Does this project or program leverage non-state funding? If yes, how much by source?**

This request will be used as match for an additional \$2.1 in RCO development grants, both from the WWRP- State Lands Development and NOVA programs.

Additionally, DNR utilizes volunteers to complete most capital projects and each biennium, DNR receives about \$2M in donated volunteer labor and equipment.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project directly supports several of the DNR's strategic priorities including the following:

- Increasing public engagement and commitment to our public lands by working directly with the public and stakeholders on our recreational development opportunities. Increasing safe access to public lands is one tool to increase awareness and support for them.
- Strengthen the health and resilience of our lands and waters by strategically investing recreational dollars in areas where restoration is required to develop or enhance our land for recreational and ecological benefits. Examples of this includes modernizing trail systems to decrease environmental impact from current use types.
- Building strong and healthy rural communities by partnering with local groups like Towns to Teanaway, we work together to develop assets of statewide significance to support rural Washington. This often plays out through increased tourism because of an exciting new trail or through further statewide partnerships with recreational groups to bring events to the area. By focusing a targeted set of sub-projects at rural communities, we are ensuring that historically under resourced communities have access to quality outdoor recreation facilities and that tourism, which can benefit the local economy, can be accommodated.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

- Does this decision package include funding for any Information Technology related costs including hardware, software (to include cloud-based services), contracts or staff? If the answer is yes, you will be prompted to attach a complete **IT addendum**. (Does this decision package (DP) fund the acquisition or enhancement of any agency data centers?)

- Does this DP fund the continuation of a project that is, or will be, under OCIO oversight? If the answer to any of these questions is yes, continue to the **IT Addendum** below and follow the directions to meet the requirements for OCIO review. Programs must coordinate with DNR's IT Department for OCIO approval.

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

N/A

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project helps to reduce greenhouse gas emissions in the following ways:

- Increases local recreation opportunities so recreationalist do not have to travel longer distance to recreate.
- Utilizes solar power at campground host site.
- Integrates Trailhead Direct shuttle stops to connect communities to state lands via public transportation.

**How is your proposal impacting equity in the state?**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

**Description**

This project addresses equity in the following ways:

- Improving access in the Central Cascades also improves desired Tribal access, specifically within the boundary of the Yakama Nation.
- “Investing in Rural Communities” and “Central Cascades Public Access” invests in many of Washington’s lowest income counties.
- Improves or adds ADA accessibility.
- Trailhead Direct shuttle stops allow people who do not own a vehicle to access public lands.

**NEW: Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

Directing capital funding towards the six identified themes and their associated sub-projects allows DNR to focus on areas of critical concern and highest impact. It will also allow the agency to use the \$10M General Fund maintenance money for its intended purpose, while still investing in new opportunities to improve safety and resilience—all critical to accommodate soaring demand.

Additionally, many of these sub-projects are associated with either existing recreation plans or management plans, which project out 10-15 years of development for recreation on a specific landscape or are directly tied to existing infrastructure.

**NEW: If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relate to a salmon strategy action.**

N/A

**NEW: Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

How does this fit in master plan

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	2,915,000		1,585,000	1,330,000	
	<b>Total</b>	<b>2,915,000</b>	<b>0</b>	<b>1,585,000</b>	<b>1,330,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

**Funding**

	Future Fiscal Periods			
	2027-29	2029-31	2031-33	2033-35
057-1 State Bldg Constr-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

Narrative

N/A

**SubProjects**

SubProject Number: 91000300

SubProject Title: Baker to Bellingham: Olsen Creek Development

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

**Project Description**

Complete A&E and permitting for a 30-car trailhead and vault toilet. Establish A&E contract for wetland delineation, archaeological review, and bridge designs in order to secure permits and sanction up to 35 miles of new trails. This sub-project is a top priority in the Baker to Bellingham Recreation Plan.

**Location**

City: Bellingham

County: Whatcom

Legislative District: 042

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 91000300

SubProject Title: Baker to Bellingham: Olsen Creek Development

Growth Management impacts

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

SubProject Number: 91000297

SubProject Title: Central Cascades Public Access: Bird Creek Campground Bridge Repl

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

**Project Description**

The bridge in Bird Creek campground is the only crossing point between the Bird Creek Road and the Mount Adams Highway/Big Muddy. These are both important access points for Yakama Nation members to access lands within the reservation as well as the public. The bridge is currently patched, and load rated. The existing structure is a log stringer bridge and does not provide a proper hydraulic opening. The deterioration of the structure leads us to believe we would need to condemn the bridge next season for safety reasons, cutting off access for the public. Rep. Mosbrucker checks in with constituents in the nearby community of Glenwood, WA; those constituents feel very strongly about having access to the Glenwood block and the campground.

**Location**

City: Unincorporated

County: Klickitat

Legislative District: 014

**Project Type**

Health, Safety and Code Requirements (Minor Works)

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

## SubProjects

SubProject Number: 91000297

SubProject Title: Central Cascades Public Access: Bird Creek Campground Bridge Repl

Growth Management impacts

n/a

New Facility: No

### Operating Impacts

No Operating Impact

SubProject Number: 40000250

SubProject Title: ORV Access/Impacts: Reiter Foothills Trailhead Parking Lot and Re

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

### Project Description

Develop 34 standard vehicle stalls, 40 truck and trailer stalls, five ADA stalls, one double vault CXT toilet on an asphalt parking lot including a secured stormwater detention pond. Grant match for WWRP grant submitted and NOVA grants to support project costs. This project is required to mitigate environmental impacts and safety issues with current parking situation along Reiter road.

### Location

City: Gold Bar

County: Snohomish

Legislative District: 039

### Project Type

Health, Safety and Code Requirements (Minor Works)

Growth Management impacts

n/a

New Facility: No

### Operating Impacts

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000250

SubProject Title: ORV Access/Impacts: Reiter Foothills Trailhead Parking Lot and Re

No Operating Impact

SubProject Number: 40000240

SubProject Title: Safe Recreation: Tiger Summit Trailhead Construction

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

**Project Description**

Construct a parking lot and Trailhead Direct shuttle stop at Tiger Summit to access existing trail mileage (including an ADA trail) and to mitigate the parking that is currently occurring on blind corners of a county road and on the shoulder of Highway 18. Match to grant WWRP+NOVA 20-1501 (Total Grant is \$525k). Additional funding is needed to complete entire project deliverables due to inflation and supply chain issues. Without this funding, project would be phased, and we would return 200K of the grant funding. This project timeline is uncertain due to SR 18 construction over Tiger Summit, which may push the project completion into the 25-27 biennium.

**Location**

City: North Bend

County: King

Legislative District: 005

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 40000241

SubProject Title: Safe Recreation: East Tiger Mountain Shelter Construction

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

**Project Description**

New Project: Raging River State Forest, Final Phase Trail System (21-23)  
Project delayed due to contractor availability and agency priority. Finishing this 21-23 project using 23-25 dollars from the cancelled East Tiger Mountain Shelter project. The fourth and final phase of trail system expansion will provide approximately 10 additional trail miles and complete a regionally significant 45+ mile trail system for hiking, mountain biking, and equestrian use.

**Location**

City: Battle Ground

County: Benton

Legislative District: 014

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

SubProject Number: 91000298

SubProject Title: Trail and Facility Modernization: Cold Creek Campground & Day Use

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 91000298

SubProject Title: Trail and Facility Modernization: Cold Creek Campground &amp; Day Use

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

**Project Description**

Install a well/water system and telephone line to Camp Host site. This will promote a healthier water supply, better communications for host (currently not cell service). These amenities will enable us to better recruit a host. The telephone will allow for better visit safety and site protection.

**Location**

City: Battle Ground

County: Clark

Legislative District: 014

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

SubProject Number: 91000299

SubProject Title: Investing in Rural Communities: Various Coast Campground and trail

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:32PM

Project Number: 40000141

Project Title: 2023-25 Safe and Sustainable Recreation

**SubProjects**

SubProject Number: 91000299

SubProject Title: Investing in Rural Communities: Various Coast Campground and trai

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

**Project Description**

Project projected to completed by 6/30/25, but it is included on re-approp list in case there are delays and cost increases. In that case, positive variance from another sub-project may be used. Upgrade signs, picnic tables and fire rings and add rock to camp sites, driveways, and trails. Install salvaged CXT from Willoughby campground at Bear Creek campground or rehab existing wooden vault toilet and paint interior of all CXT vault toilets and possibly replace doors, vents, toilet risers and paper dispensers (as needed).

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

SubProject Number: 40000244

SubProject Title: Investing in Rural Communities: Palmer Lake Restoration

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 3:32PM

**Project Number:** 40000141

**Project Title:** 2023-25 Safe and Sustainable Recreation

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**SubProjects**

**SubProject Number:** 40000244

**SubProject Title:** Investing in Rural Communities: Palmer Lake Restoration

**Starting Fiscal Year:** 2024

**Project Class:** Program

**Agency Priority:** 99

**Project Summary**

This reappropriation request for \$1.33 million will allow currently in-progress subprojects to be completed, improving recreation opportunities on Department of Natural Resources (DNR)-managed lands, which see over 20 million visitors annually. These subprojects are grouped around six themes that address unique safety, community health, access, equity, environmental, and user experience issues in specific locations. The themes are: 1) Safe Recreation for a Rapidly Growing Puget Sound Region Population, 2) Investing in Rural Communities, 3) Making Baker to Bellingham a Reality, 4) Improving ORV Access and Impacts in NW Washington, 5) Trail and Facility Modernization in SW Washington, and 6) Central Cascades Public Access.

**Project Description**

Project projected to completed by 6/30/25, but it is included on re-approp list in case there are delays and cost increases. In that case, positive variance from another sub-project may be used. Renovation of existing sites and installation of new CXT's (vault toilets)

**Location**

**City:** Unincorporated

**County:** Okanogan

**Legislative District:** 007

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

**New Facility:** No

**Operating Impacts**

**No Operating Impact**

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## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

The 8 subprojects in this request reduce environmental impacts and increase equitable access to the benefits of outdoor recreation in a variety of ways. Building and maintaining quality recreation infrastructure prevents environmental damage that can affect water quality and tribal rights. Specifically:

- The Reiter Trailhead project adds ADA accessibility to ORV trail system amenities, thereby adding outdoor opportunities for vulnerable population for which that activity is popular.
- Improving access in the Central Cascades improves desired Tribal access, specifically within the boundary of the Yakama Nation.
- Projects in the Olympic, SE, and NE Regions invest in some of Washington's lowest income and OBC counties. Improved recreation opportunities not only benefit the health of those communities, but also benefit the local economies.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Using GIS to overlay the OBC map and the latitude/longitude coordinates for each subproject, there are three projects and \$10K located in overburdened communities (OBCs). This

equates to 38% of the projects and .8% of the funding. This dollar amount is low because these three projects are at or near completion, so there is very little re-appropriation requested to complete them.

Additionally, there are two more projects, totaling \$940K that **serve** OBCs. This was determined by their accessibility within 30 minutes of OBCs.

Combining the projects *in* OBCs and projects *impacting* OBCs, the totals are: 5 projects (63%) and \$950K (71%).

See below table for OBC-related project details

Sub Project Title	OBC?	Estimated Total\$
Bird Creek Campground Bridge Replacement	Yes	10,000
Tiger Summit Trailhead Construction	Serve	800,000
Raging River State Forest, Final Phase Trail System Development	Serve	140,000
Various Coast Campground and trail upgrades	Yes	-
Palmer Lake Restoration	Yes	-

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Any public access to outdoor spaces has the potential for negative impacts on Tribes' rights and interests and these project sites are no exception. However, unmanaged public access to the same places can be an equal or greater threat. For this reason, DNR actively manages recreation sites with the knowledge and tools currently at its disposal to minimize those impacts. Recognizing that there is much improvement needed to better understand the impacts of the agency's management actions (or inactions), the recreation program staff are dedicated to engaging with the State-Tribal Recreation Impacts Initiative, convened in spring of 2023, that includes Tribes, GOIA, DNR, Parks, WDFW, and the Recreation and Conservation Office This group is currently working to develop objective, measurable metrics for recreation impacts, visitation monitoring, and possible management actions when needed.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Prior to beginning construction, these projects completed all SEPA and EO 21-02 requirements for Tribal consultation/feedback and some of them engaged Tribes during comprehensive "landscape planning" processes that occur years before development commences. However, DNR recognizes that this often falls short of "early and often" consultation. For this reason, in 2023 DNR recreation program halted all new development projects that would result in expanded recreation on its landscapes until after the Outdoor Access and Responsible Recreation strategic plan (OARR) is completed and the Recreation

Impacts Initiative develops an agreed-upon process that ensures Tribes are engaged in an appropriate manner, and at earlier times than the status quo. These projects began implementation prior to that pause.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

**Capital Sub-Projects**  
**2025-27 Budget Request**  
**Total Request**

**Capital Project Name:** 23-25 Safe and Sustainable Recreation

**\$ 1,330,000**

**Project #:** 40000141

Project Types  
 1: Health, safety & code req  
 2: Facility preservation  
 3: Infrastructure preservation  
 4: Program

Sub Project Title <i>Listed in Priority Order</i>	Region	Nearest City	Lat/Long *	Leg Dist	Project Type	Estimated Total \$**	Notes
Olsen Creek Development	NW	Bellingham	48.763859, -122.344137	42	4	100,000	Complete A&E and permitting for a 30 car trailhead and vault toilet. Establish AE contract for wetland delineation, archaeological review and bridge designs in order to secure permits and sanction up to 35 miles of new trails.
Bird Creek Campground Bridge Replacement	SE	Glenwood	46.063111, -121.337541	14	3	10,000	The bridge in Bird Creek campground is the only crossing point between the Bird Creek Road and the Mount Adams Highway/Big Muddy. These are both important access points for Yakama Nation members to access lands within the reservation as well as the public. The bridge is currently patched and load rated. The existing structure is a log stringer bridge and does not provide a proper hydraulic opening. The deterioration of the structure leads us to believe we would need to condemn the bridge next season for safety reasons, cutting off access for the public. Rep. Mosbrucker checks in with constituents in the nearby community of Glenwood, WA; those constituents feel very strongly about having access to the Glenwood block and the campground.
Reiter Foothills Trailhead Parking Lot and Restroom	NW	Gold Bar/Index	47.83088, -121.604394	39	4	240,000	Develop 34 standard vehicle stalls, 40 truck and trailer stalls, five ADA stalls, one double vault CXT toilet on an asphalt parking lot including a secured stormwater detention pond. Grant match for WWRP grant submitted and NOVA grants to support project costs.
Tiger Summit Trailhead Construction	SPS	North Bend	7.46793181, -121.936197	5	2,4	800,000	Original sub-project amount was \$650k. Due to projected cost increases, positive variance from other sub-projects will be used to complete this. Project delayed due to permitting and SR18 construction. Construct a parking lot and Trailhead Direct shuttle stop at Tiger Summit to access existing trail mileage (including an ADA trail) and to mitigate the parking that is currently occurring on blind corners of a county road and on the shoulder of Highway 18. Needed to complete, match to grant WWRP+NOVA 20-1501 (Total Grant is 525K).
Raging River State Forest, Final Phase Trail Sys	SPS	North Bend	47.509166, -121.844074	5	4	140,000	Project delayed due to contractor availability and agency priority. Finishing this 21-23 project using 23-25 dollars from the cancelled East Tiger Mountain Shelter project. The fourth and final phase of trail system expansion will provide approximately 10 additional trail miles and complete a regionally significant 45+ mile trail system for hiking, mountain biking, and equestrian use.
Cold Creek Campground & Day Use Area Improvements	PC	Battle Ground	45.76376, -122.340923	14	1,2	40,000	Install a well/water system and telephone line to Camp Host site. This will promote a healthier water supply, better communications for host (currently not cell service). These amenities will enable us to better recruit a host. The telephone will allow for better visit safety and site protection.
Various Coast Campground and trail upgrades	OLY	Forks	District-wide	24	3	-	Project projected to completed by 6/30/25, but it is included on re-approp list in case there are delays and cost increases. In that case, positive variance from another sub-project may be used. Upgrade signs, picnic tables and fire rings and add rock to camp sites, driveways, and trails. Install salvaged CXT from Willoughby campground at Bear Creek campground or rehab existing wooden vault toilet and paint interior of all CXT vault toilets and possibly replace doors, vents, toilet risers and paper dispensers (as needed).
Palmer Lake Restoration	NE	Loomis	48.915371, -119.634798	7	2	-	Project projected to completed by 6/30/25, but it is included on re-approp list in case there are delays and cost increases. In that case, positive variance from another sub-project may be used. Renovation of existing sites and installation of new CXT's (vault toilets)
<b>Total</b>						<b>\$ 1,330,000</b>	

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:06PM

Project Number: 40000147

Project Title: Removal of Aquatic Derelict Structures

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

In 2023, the Legislature established the Derelict Structure Removal Program to remove or refurbish derelict structures in the aquatic environment. The Department of Natural Resources (DNR) received funding to build a program and remove four priority structures. In the 2023-25 biennium, DNR will have fully removed two of the four priority structures: Dickman Mill and Former High Tides Seafood Pier. DNR will have completed project sequencing for Shannon Point Seafoods and a feasibility study for Ballard Pier to evaluate options for demolishing a portion of the shared-ownership pier. DNR is requesting reappropriation of \$3,000,000 intended for Shannon Point Seafoods and Ballard Pier.

### Project Description

#### ***Identify the problem or opportunity addressed. Why is the request a priority?***

DNR is requesting reappropriation of a portion of funds designated by the Washington State Legislature for the first four priority structures of the newly established Derelict Structure Removal Program. In the decision package for the Derelict Structures bill, DNR established the expectation that it will take 1-3 years of planning and 1-2 years of construction to remove and restore many of the larger structures due to the complexity and cost of removal and acquisition. In the 23-25 biennium, DNR will have fully removed two of the four priority structures: Dickman Mill and Former High Tides Seafood Pier, amounting to 1,810 piling and 26,150 sq/ft of overwater structure removed from the aquatic environment. DNR will have completed project sequencing for Shannon Point Seafoods, which is a complex project that includes a potential historic structure and the demolition of an overwater building. DNR will have completed a feasibility study for Ballard Pier to evaluate different options for demolishing a portion of a shared-ownership pier. Ballard Pier is complex site that requires partial removal and reinforcement of an active-use pier, removal and preservation of a historic sign, and negotiation with neighbors in a high-density urban area. A feasibility study, to be completed by June 2025 will inform final scope and cost of the partial pier removal. It is anticipated that removal of both structures will be feasible in the 2025-27 biennium. DNR is requesting reappropriation of \$3,000,000 intended for Shannon Point Seafoods and Ballard Pier to continue work for removal.

#### **What will the request produce or construct? When will the project start and be completed?**

Project outcomes in the 25-27 biennium include: completion of planning, permitting, and construction for Shannon Point Seafoods and Ballard Pier (two of the four priority structures identified in 2023).

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

If funding is not received, DNR would be unable to complete removal of Shannon Point Seafoods and Ballard Pier, and the efforts to conduct sequencing and feasibility studies would be wasted. This would be significant loss to the state of Washington. The legislature prioritized these projects in 2023 and recognized the importance of structure removal efforts in RCW 79.160.005:

“(1) The legislature finds that nearshore habitat is amongst the most important for threatened and endangered species of salmon, yet nearshore habitat in populated areas is often negatively impacted by man-made structures. There is a growing problem where aquatic or overwater structures become derelict or fall into disrepair. These derelict aquatic structures are public nuisances and safety hazards as they can pose risks to navigation, harm nearshore habitat for threatened and endangered species, detract from the aesthetics of Washington’s waterfronts, and threaten the environment with the potential release of hazardous materials.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:06PM

Project Number: 40000147

Project Title: Removal of Aquatic Derelict Structures

## Description

(2) The legislature further finds that the costs associated with the proper removal or repair of derelict aquatic structures are substantial and that in many cases owners of these structures lack the financial means to address the safety and environmental hazards the structures pose. As a result, the costs associated with the removal or repair of derelict structures becomes a burden on public entities and the taxpaying public.

(3) The legislature also finds that removal of derelict aquatic structures and restoration of surrounding habitat improves nearshore habitat quality.”

### What alternatives were explored? Why was the recommended alternative chosen?

DNR considered the alternative of not completing the Shannon Point Seafoods and Ballard Pier removals. Under this alternative, the efforts to conduct sequencing and feasibility studies would be wasted. DNR would not complete the work directed by the legislature in 2023. This alternative would not utilize studies and efforts completed thus far and does not make sense.

### Which clientele would be impacted by the budget request?

The impact of the derelict structure removal is statewide, but this request most directly benefits the communities adjacent to Shannon Point Seafoods (Anacortes, WA) and Ballard Pier (Ballard, WA). Removal of derelict structures and marine debris will improve environmental and human health and safety as well as benefit aquatic-based economies throughout the state.

### Does this project or program leverage non-state funding? If yes, how much by source?

No.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

Removal of derelict structures and marine debris will improve environmental and human health and safety as well as benefit Washington's aquatic-based economies. Restoration of these sites will reduce potential hazards and contamination and will make our shorelines more resilient in the face of climate change. Submission of qualifying projects to the Nearshore Conservation Credit Program will create a sustainable source of funding that will then be used to implement more restoration projects.

This proposal aligns with DNR's Agency Strategic Plan Goal D4 "Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity" and Strategy D4.1 "Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities." It also aligns with Goal D1 "Lands and waters that remain productive and adapt to changing conditions, including climate change and a growing population" and Strategy D1.3 "Expand efforts to use natural systems to buffer against floods, stormwater, sea level rise, and droughts stemming from changing conditions."

This proposal aligns with DNR's Plan for Climate Resilience 3-Year Update. Action items for Aquatic Resources include "Develop strategies to protect and restore aquatic habitats that provide refuge for sensitive species and also support resilience from climate-related impacts" and "Accelerate salmon and orca recovery efforts."

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:06PM

Project Number: 40000147

Project Title: Removal of Aquatic Derelict Structures

**Description**

In addition, this proposal aligns with Aquatic Resources Division's Strategic Framework Goal 2 "Provide long-term sustainability and resilience of aquatic habitats through science-based conservation and restoration actions" and Goal 4 "Generate self-sustaining revenue to manage and protect state-owned aquatic lands for future generations."

**Does this request include funding for any IT-related cost?**

No.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is linked to the Puget Sound Action Agenda, particularly Strategies 8, 10, and 22. Strategy 8 – Toxic Chemical Pollution identifies an end goal of increasing creosote piling removal sound-wide. Strategy 10 – Stormwater Runoff and Legacy Contamination and Strategy 22 – Outdoor Recreation and Stewardship are aligned with this proposal, though derelict structures are not mentioned directly. Removal of derelict structures and associated marine debris will improve environmental and human health and safety as well as benefit Washington's aquatic-based economies. Restoration of these sites will reduce potential hazards and contamination and will make our shorelines safer and more resilient.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Not applicable.

**How is your proposal impacting equity in the state?**

The impact of the proposal is statewide. Communities directly impacted include the boating community, recreational community, and local communities adjacent to each structure. In addition to directly benefiting adjacent communities, this work broadly supports the management of state-owned aquatic lands, which benefits the general public, including tribal and underserved communities.

**Is this project eligible for Direct Pay?**

Not applicable.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This proposal is not directly linked to strategy actions under the Governor's Salmon Strategy. However, it does contribute to salmon recovery. Salmon in Washington state face numerous challenges, including lack of spawning and rearing habitat and water quality impairments. Derelict structures and associated marine debris contribute to degraded habitat and water quality which negatively impact salmon populations. By funding the Derelict Structure Removal Program, DNR can accelerate the pace of salmon recovery within Washington state. The benefits to kelp and eelgrass, salmon, forage fish, and marine mammals will be sustained long beyond the life of each project. There will be immediate habitat improvements from debris and structure removal; but, more significantly, this work will address a source of contamination, providing long-term benefits for sediment and water quality.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:06PM

Project Number: 40000147

Project Title: Removal of Aquatic Derelict Structures

**Description**

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

Not applicable.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Remodel/Renovate/Modernize (Major Projects)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
23N-1	MTC Capital Account-State	9,650,000		6,650,000	3,000,000	
	<b>Total</b>	<b>9,650,000</b>	<b>0</b>	<b>6,650,000</b>	<b>3,000,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
23N-1	MTC Capital Account-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

There are not operating impacts directly related to this reappropriation request. However, there are additional capital and operating decision packages related to continuation of the Derelict Structure Removal Program beyond the four original priority structures.

**SubProjects**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:06PM

Project Number: 40000147

Project Title: Removal of Aquatic Derelict Structures

## SubProjects

SubProject Number: 40000477

SubProject Title: Shannon Point Seafoods

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

In 2023, the Legislature established the Derelict Structure Removal Program to remove or refurbish derelict structures in the aquatic environment. The Department of Natural Resources (DNR) received funding to build a program and remove four priority structures. In the 2023-25 biennium, DNR will have fully removed two of the four priority structures: Dickman Mill and Former High Tides Seafood Pier. DNR will have completed project sequencing for Shannon Point Seafoods and a feasibility study for Ballard Pier to evaluate options for demolishing a portion of the shared-ownership pier. DNR is requesting reappropriation of \$3,000,000 intended for Shannon Point Seafoods and Ballard Pier.

### Project Description

One of the four priority structures from 23-25. Reappropriation needed to complete permitting and construction.

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

In 2023, the Legislature established the Derelict Structure Removal Program to remove or refurbish derelict structures in the aquatic environment. The Department of Natural Resources (DNR) received funding to build a program and remove four priority structures. In the 2023-25 biennium, DNR will have fully removed two of the four priority structures: Dickman Mill and Former High Tides Seafood Pier. DNR will have completed project sequencing for Shannon Point Seafoods and a feasibility study for Ballard Pier to evaluate options for demolishing a portion of the shared-ownership pier. DNR is requesting reappropriation of \$3,000,000 intended for Shannon Point Seafoods and Ballard Pier.

### Project Description

One of the four priority structures from 23-25. Reappropriation needed to complete permitting and construction.

### Location

City: Statewide

County: Statewide

Legislative District: 098

City: Statewide

County: Statewide

Legislative District: 098

### Project Type

Remodel/Renovate/Modernize (Major Projects)

Remodel/Renovate/Modernize (Major Projects)

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 2:06PM

**Project Number:** 40000147

**Project Title:** Removal of Aquatic Derelict Structures

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**SubProjects**

**SubProject Number:** 40000477

**SubProject Title:** Shannon Point Seafoods

**Growth Management impacts**

N/A

**New Facility:** No

**Growth Management impacts**

N/A

**New Facility:** No

**Operating Impacts**

**No Operating Impact**

**No Operating Impact**

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes. This funding would support the Derelict Structure Removal Program, which provides environmental benefits through the reduction of environmental harms.

### **If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This proposal is anticipated to provide environmental benefits from the removal of derelict structures, which are sources of marine debris, habitat impacts, and contamination. Salmon in Washington state face numerous challenges, including lack of spawning and rearing habitat and water quality impairments. Marine debris and derelict structures contribute to degraded habitat and water quality which negatively impact salmon populations. By removing derelict structures, DNR can accelerate the pace of salmon recovery within Washington state.

Salmon population recovery confers benefits to both the ecosystem and human populations of Washington state. Chinook and other salmon are an especially important prey for large marine mammals in the region including orca whales. Marine debris removal, which benefits salmon, improves the health of higher trophic levels as well. Likewise, because salmon are both an important food source and critical cultural touchstone in the Northwest, especially to Indigenous people and local Tribal Nations, improving salmon populations as a result of derelict structure and marine debris removal will lead to more robust local economies and improved cultural and physical health of Washington residents. Marine debris removal also improves kelp and eelgrass health and recovery, a priority for DNR under the Statewide Kelp Forest and Eelgrass Meadow Health and Conservation Plan. The availability of habitat is a critical factor in kelp and eelgrass health, and marine debris and other physical impediments take up space that is needed for vegetation, forage fish, salmon and all other species in this vibrant ecosystem. Likewise, derelict structures and debris left in the environment can contribute contaminants to sediment and water, reducing water quality for kelp and eelgrass and associated species. In a region with high population growth levels and related increases in vessel traffic, recreational boating and more, ensuring that debris is removed, prevention and interception tools are in place, and kelp and eelgrass can be protected from human impacts is a consistent need.

The benefits to kelp and eelgrass, salmon, forage fish, and marine mammals will be sustained long beyond the life of the project. There will be immediate habitat improvements from debris and structure removal; but, more significantly, this work will address a source of contamination, providing long-term benefits for sediment and water quality.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

The Shannon Point Seafoods removal will occur just next to the area of Anacortes identified as "disadvantaged" in the OBC map. Approximately \$2,500,000 of the \$3,000,000 reappropriation request is associated with Shannon Point Seafoods. Therefore, approximately 83% of the reappropriation will create environmental benefits in a disadvantaged community identified in the OBC map.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No significant impact to Indian Tribes is expected.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Tribes were strong supporters of the legislation that created the Derelict Structure Removal Program.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not applicable.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:32PM

Project Number: 40000150

Project Title: 2023-25 Structurally Deficient Bridges

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

The Forest Roads Program requests reappropriation of \$1,000,000 for the completion of structurally deficient bridge projects originally appropriated in 23-25. This request will complete the correction of the final bridge from the original three bridges to bring them up to safe bridge standards on state grant lands and state forest lands.

### Project Description

*Identify the problem or opportunity addressed. Why is the request a priority?*

WAC 296-54-531(4)(a-d) requires forest road bridges used in harvest activities to be adequate to support the loads imposed on them, kept in good repair, and inspected by a competent person at least annually. RCW 4.24.210(4)(a) states that landowners, including public landowners, may be held liable for known artificial hazards for which signs are not conspicuously posted.

While meeting the requirements of WAC 296, DNR Bridge Inspectors find bridges that have changed in a significant way from the manner in which they were designed and built. In these cases, DNR solicits third-party bridge load rating experts to determine the compliance of the structure with WAC 296. Upon completion of these more detailed assessments, many DNR bridges have been found to be inadequate to support all loads likely to be encountered and have had their rated capacity reduced to stay compliant with WAC 296. This is known as 'posting' a bridge. These postings impact DNR's customers' ability to access the Timber Sales they buy, increasing their hauling costs and reducing DNR's residual product value collected for our Trusts. In some cases, bridge dilapidation has forced the closure of otherwise excellent product haul and management access roads, thus forcing longer routes for our customers.

Beyond timber harvest concerns, DNR has many licensees who are granted the right to use DNR roads to access various improvements. Bridge postings can interfere with their right to access, depending on the vehicles the easement holder uses. In many cases, the easement holders themselves are private timberland owners and would subject the bridge to the same types of traffic loads as DNR would, since our businesses are essentially similar. Accessing state lands for the public's recreating enjoyment is one of the jewels of state ownership of forest lands. Funding of this project continues to allow the public to access over 329,000 acres for dispersed recreation. This funding helps fulfil the State Constitution and DNR's multiple use directive (RCW 79.10.120). In addition to business and recreation, access across these bridges is important for wildland fire management. Having the most direct route to access a potential fire and having the bridges able to safely carry the weight of fire engines, crew vehicles and water trucks is paramount in wildfire operations.

It is DNR's policy to post the aforementioned reductions in bridge load capacity conspicuously. However, the extremely remote nature of DNR-managed lands, the enormity of DNR's road network and bridge inventory (14,000 miles and 750 bridges, respectively) and DNR's comparatively small staffing level means that these signs often are obscured or destroyed by vandalism or acts of nature, unbeknownst to DNR staff. This creates a latent liability concern where a party may unknowingly cross a restricted bridge and suffer injury or even death.

In response to these issues, DNR Forest Roads program has begun a systematic bridge prioritization and load rating project. This project, funded with our current operating budget, is determining the extent of the problem and prioritizes

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:32PM

Project Number: 40000150

Project Title: 2023-25 Structurally Deficient Bridges

**Description**

replacement and repair work. Weighing risk of bridge overload with probability of occurrence and exposure to risk, DNR has established internal protocols for rating bridges, then decides to replace, repair or remove deficient bridges on a case-by-case basis. This proposal funds replacement of one of the highest priority bridges

**What will the request produce or construct? When will the project start and be completed?**

Project work should be completed by June 2025, barring an unforeseen complication.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

The last remaining project is under contract. If the reappropriation is not granted and a delay in the project occurs, there is little opportunity for a remedy. This would cause DNR to utilize the ARRA account, which is already in a depleted state and could also result in damages to the contractor.

**What alternatives were explored? Why was the recommended alternative chosen?**

N/A

**Which clientele would be impacted by the budget request?**

If reappropriation is not provided, this could result in a loss of revenue to the trusts and impact the recreating public as well as tribal interests to the areas served by the bridge.

**Does this project or program leverage non-state funding? If yes, how much by source?**

N/A

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

Funding of this bridge will continue to provide public access to state lands, helping to provide Washingtonians with a meaningful connection with their lands and waters. In addition, it will promote the importance of working lands by funding structures on trust lands to keep our lands accessible (Strategic Goal E 2.3). Structurally deficient bridges are inherently less safe than bridges that meet current standards. This bridge no longer provides the level of safety for heavy haul it once did. Building a culture of safety for DNR's heavy equipment operators and contractors means all its bridges need to be repaired or replaced if they can no longer handle expected loads. (Strategic Goal A2). The repair or replacement of structurally deficient bridges is an investment into DNR's property portfolio. DNR will modernize its transportation system by designing and building bridges that can handle its heaviest loads and meet current traffic load rating requirements. This investment into transportation increases DNR's ability to maximize its return on our forested lands (Strategic Goal B 1.3).

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:32PM

Project Number: 40000150

Project Title: 2023-25 Structurally Deficient Bridges

**Description**

Results Washington Goal 4: Healthy and Safe Communities. Load rating of bridges is required by Federal Highways of all DOTs, cities and counties. DNR is concerned with the safety of the community and those that travel on its bridges and is implementing the same objective to load rate all of its bridge as other public entities. DNR's bridges should be just as safe to travel by customers, contractors and recreating public as other public bridges. DNR has certified bridge inspectors that evaluate bridge conditions every two years, hires engineering experts to load rate its bridges and only requests funds for those bridges that have been deemed to be structurally deficient.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

-

N/A

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

No. The last remaining project does not provide linkage to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

N/A

**How is your proposal impacting equity in the state?**

The Healthy Environment for All (HEAL) Act promoted the use of the Washington Tracking Network (WTN), created by the Washington Department of Health, a tool used to evaluate the public health for communities across Washington. These may include social vulnerability to hazards for things such as households, which includes the percentage of single parents, housing, socioeconomic factors like percentage of population living in poverty, percent unemployment. Many of the fish barrier culverts on the list are located near communities that are experiencing medium to high vulnerability to social hazards. These communities have high unemployment, high transportation costs, low number of people graduating from high school, medium percentage living in poverty and medium percentage of unemployed. Replacement of these culverts provides opportunity for employment for skilled labor, provides opportunities for recreation and access to the benefits of brush gathering communities and other groups. This activity ties to ESSB 5141 by addressing Social Vulnerability to Hazards, specifically poverty and unemployment through gathering wild edibles and brush for floral arrangements. Furthermore, the many recreationists use DNR roads and culverts to reach hiking trails and campgrounds on public lands. In addition, they have the opportunity to use forest lands for family picnics, fishing and relaxing. The roads and culverts are also used by mountain bikers, bicyclists, motorbikes, and all-terrain vehicles which promotes health. [WR(1)]

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:32PM

Project Number: 40000150

Project Title: 2023-25 Structurally Deficient Bridges

**Description**

Is this project eligible for Direct Pay?

N/A

Is there additional information you would like decision makers to know when evaluating this request?

DNR Forest Roads program has shown historical success in completing projects. Over 90% of past funding went directly to construction of projects supporting the rural contractors that work and live in the small communities where these projects are located. Funding of our request will provide 7 direct jobs and 12.5 indirect jobs, according to Josh Bivens with Economic Policy Institute (01/23/2019)

If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.

No. This bridge project is not linked to the Governor’s Salmon Strategy directly.

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

0.25 FTE Civil Engineer 4 (6 staff months) to accomplish construction management.

**Location**

City: Stevenson

County: Skamania

Legislative District: 017

**Project Type**

Health, Safety and Code Requirements (Minor Works)

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:32PM

Project Number: 40000150

Project Title: 2023-25 Structurally Deficient Bridges

**Description**

Growth Management impacts  
 N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropr	New Approps
057-1	State Bldg Constr-State	3,062,000		2,062,000	1,000,000	
	<b>Total</b>	<b>3,062,000</b>	<b>0</b>	<b>2,062,000</b>	<b>1,000,000</b>	<b>0</b>
Future Fiscal Periods						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000273

SubProject Title: Rock Creek Bridge Replacement

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:32PM

Project Number: 40000150

Project Title: 2023-25 Structurally Deficient Bridges

**SubProjects**

SubProject Number: 40000273

SubProject Title: Rock Creek Bridge Replacement

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

The Forest Roads Program requests reappropriation of \$1,000,000 for the completion of structurally deficient bridge projects originally appropriated in 23-25. This request will complete the correction of the final bridge from the original three bridges to bring them up to safe bridge standards on state grant lands and state forest lands.

**Project Description**

This glue-laminated 118' wooden bridge resides on a sole roadway leading to trust land which provides revenue for Skamania County. The structural deficiencies in the wood structure (girders) has significantly reduced the load carrying capacity which prohibits standard logging equipment over 70 tons. The bridge allows the only access to the lands in that area allowing access to the lands behind the structure for land management, recreation and fire access purposes. The reappropriation request is in the event that the contract extends past the June 30, 2025 deadline due to unforeseen conditions that may delay the project. These conditions may include pile driving unforeseen conditions, unsuitable structural materials on site, or extreme weather conditions, as just a few examples of potential complications. If these conditions were to occur, they may drive the contract to extend beyond the substantial completion date of June 15, 2025 and the final completion date of June 30, 2025.

**Location**

City: Stevenson

County: Skamania

Legislative District: 017

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts****No Operating Impact**

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

DNR's proposal to complete the bridge structure would continue to provide consistent access to the recreating public and access to tribe's usual and accustomed areas. The direct health benefit is additional roads to utilize as access for exercise, but decades of research have shown "forest bathing" as a way of helping to reduce stress, improve attention, boost immunity and lift moods (Susan Abookire, 2020, assistant professor, Harvard Medical School).

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

While the project is not directly within an overburdened community and vulnerable population, it is adjacent to one of these areas and would still provide benefits.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Providing funding to complete this bridge project will continue to provide access to Tribes' Usual and Accustomed areas for their traditional practices, and barrier replacements in anadromous streams would provide additional habitat for spawning fish, leading to a productive future fisheries harvest by the tribes.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A, under contract

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not part of agency request legislation.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
\$ 1,000,000

**Capital Project Name:** 23-25 Structurally Deficient Bridges  
**Project #:** 40000150

- Project Types  
 1: Health, safety & code req  
 2: Facility preservation  
 3: Infrastructure preservation  
 4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
Rock Creek Bridge Replacement	PC	Stevenson	45.724/-121.934	17	1	1,000,000	
<b>Total</b>						<b>\$ 1,000,000</b>	

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**Description**

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description****Identify the problem or opportunity addressed. Why is the request a priority?**

The state lands identified in the LEAP document, have been determined to be either non-performing or underperforming trust assets and in the best interest of the trust to transfer to either another governmental agency or to a DNR managed Natural Area Preserve or Natural Resource Conservation Area. The funds received from these transfers will allow DNR the opportunity to purchase replacement lands better suited to generate revenue for the trust beneficiaries.

**What will the request produce or construct? When will the project start and be completed?**

This request provides the necessary funding to transfer non- or marginal-revenue generating trust lands with property better suited and more socially acceptable for that purpose. Designated land transfers will take place within the biennium.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

By compensating the trust for the full market value of these properties, DNR can purchase replacement trust lands that are better suited for revenue production in the future. If DNR were not able to transfer these underperforming lands, trust beneficiaries would continue to receive no revenue from them.

**What alternatives were explored? Why was the recommended alternative chosen?**

The alternative is to retain the properties proposed for transfer as trust lands or sell them to other parties. Retaining un-productive lands or underperforming lands will reduce trust revenue to schools and other institutions over time. Properties in this program are transferred to public agencies that would not have the means to pay for the properties, such as county park districts.

**Which clientele would be impacted by the budget request?**

Clients include the trust beneficiaries, common school construction; public entities receiving lands through the Trust Land Transfer program; and the public, both locally and statewide, who receive recreational opportunities, open space, conservation lands, and fish and wildlife habitat and other ecosystem services. Recipients will be able to meet social and ecological needs through ownership and/or management of desirable properties that most recipients would not be able to purchase using their existing funding sources.

**Does this project or program leverage non-state funding? If yes, how much by source?**

No

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**Description**

This project addresses the "Working and Natural Lands" portion of Results Washington Goal 3: Sustainable energy and a clean environment (see [www.results.wa.gov](http://www.results.wa.gov)).

Protects forest land habitats

Provides additional recreation opportunities

Directly supports DNR strategic plan goals:

1 – Manage state-owned lands for economic and ecological sustainability

2 – Protect and maintain working forests, habitats and other resources

**Does this request include funding for any IT-related cost?**

No

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

No

**How is your proposal impacting equity in the state?**

These lands will be conserved for their ecological and recreation value, some are the last and best examples of pre-European settlement ecosystems in Washington. Preserving these lands provide social, environmental, and cultural benefits to rural communities that rank high in health disparities while providing funding for DNR to acquire replacement trust assets which generate revenue for school construction and rural economic development.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

These properties were ranked by the Trust Land Transfer Advisory Committee and approved for transfer by the Board of Natural Resources. Additional lands funded by this proviso were proposed by DNR for inclusion in its Natural Areas program for their conservation and carbon sequestration benefits.

***If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action***

No

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**Description**

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	9,325,000		9,325,000		
26D-1	Natural Clim Solu Ac-State	18,804,000		8,000,000	10,804,000	
	<b>Total</b>	<b>28,129,000</b>	<b>0</b>	<b>17,325,000</b>	<b>10,804,000</b>	<b>0</b>

**Future Fiscal Periods**

	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1 State Bldg Constr-State				
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 92000059

SubProject Title: Morning Star

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

SubProject Number: 92000059

SubProject Title: Morning Star

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 1,071 acres of Common School and State Forest Land located in Snohomish County within the Morning Star Natural Resource Conservation Area (NRCA). The receiving agency is DNR's Natural Area Program, and the property will be managed as fish and wildlife habitat, open space, recreation and natural area.

**Location**

City: Gold Bar

County: Snohomish

Legislative District: 012

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Operating Impacts**

No Operating Impact

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SubProject Number: 40000432

SubProject Title: Lake Spokane Campground

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

SubProject Number: 40000432

SubProject Title: Lake Spokane Campground

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 305 acres of Common School land located in Stevens County. The receiving agency is Washington State Parks and Recreation Commission, and the property will be managed as a State Park and open space.

**Location**

City: Spokane

County: Spokane

Legislative District: 007

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	0	0	0	0	0
<b>Future Fiscal Periods</b>						
		<b>2027-29</b>	<b>2029-31</b>	<b>2031-33</b>	<b>2033-35</b>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	0	0	0	0	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000596

SubProject Title: Blakely Island

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

SubProject Number: 40000596

SubProject Title: Blakely Island

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 184 acres of Common School land located in San Juan County. The receiving agency is San Juan County and will be managed for fish and wildlife habitat (shoreline protection) and open space.

**Location**

City: Anacortes

County: San Juan

Legislative District: 040

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Expenditures			2025-27 Fiscal Period	
		Estimated Total	Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	0	0	0	0	0
<b>Future Fiscal Periods</b>						
		<b>2027-29</b>	<b>2029-31</b>	<b>2031-33</b>	<b>2033-35</b>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	0	0	0	0	

**Operating Impacts**

No Operating Impact

SubProject Number: 40000434

SubProject Title: Moses Lake Dunes

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

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SubProject Number: 40000434

SubProject Title: Moses Lake Dunes

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 648 areas of Common School land located in Grant County. The receiving agency is Grant County and will be managed for recreation and open space.

**Location**

City: Moses Lake

County: Grant

Legislative District: 013

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Operating Impacts**

No Operating Impact

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SubProject Number: 40000435

SubProject Title: Rustlers Gulch

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

SubProject Number: 40000435

SubProject Title: Rustlers Gulch

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 40 acres of Common School land located in Pend Oreille County. The receiving agency is the Washington State Department of Fish and Wildlife and would be managed for habitat, open space, and recreation.

**Location**

City: Deer Park

County: Spokane

Legislative District: 012

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Operating Impacts**

No Operating Impact

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SubProject Number: 91000327

SubProject Title: Middle Fork Snoqualmie

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

SubProject Number: 91000327

SubProject Title: Middle Fork Snoqualmie

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 95 acres of State Forest land located in King County. Receiving agency is DNR's Natural Area Program and the property will be managed as fish and wildlife habitat, open space, recreation and natural area.

**Location**

City: North Bend

County: King

Legislative District: 012

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Operating Impacts**

No Operating Impact

SubProject Number: 91000325

SubProject Title: Stavis Creek

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

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SubProject Number: 91000325

SubProject Title: Stavis Creek

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 6 acres of Common School land located in Kitsap County. Receiving agency is DNR's Natural Area Program and the property will be managed as fish and wildlife habitat, open space, recreation and natural area.

**Location**

City: Bremerton

County: Kitsap

Legislative District: 035

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Operating Impacts**

No Operating Impact

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SubProject Number: 91000326

SubProject Title: Trout Lake

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

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SubProject Number: 91000326

SubProject Title: Trout Lake

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 60 acres of Normal School trust land. The receiving agency is DNR's Natural Area Program, and the property will be managed as fish and wildlife habitat, open space, recreation and natural area.

**Location**

City: White Salmon

County: Klickitat

Legislative District: 014

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Operating Impacts**

No Operating Impact

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SubProject Number: 91000324

SubProject Title: Hamma Hamma Balds

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:42PM

Project Number: 40000152

Project Title: Revitalizing Trust Land Transfers

**SubProjects**

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SubProject Number: 91000324

SubProject Title: Hamma Hamma Balds

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

Department of Natural Resources (DNR) requests the reappropriation of \$10,804,000 that was identified in Section 3027 of ESSB 5949, Chapter 375, Laws of 2024 to complete the transfer of state trust lands identified in Legislative Evaluation & Accountability Program (LEAP) Capital Document No. DNR-1-2024.

**Project Description**

Approximately 10 acres of State Forest lands in Mason County. The receiving agency is DNR's Natural Area Program, and the property will be managed as fish and wildlife habitat, open space, recreation and natural area.

**Location**

City: Shelton

County: Mason

Legislative District: 035

**Project Type**

Acquisition - Land

**Growth Management impacts**

None

New Facility: No

**Operating Impacts**No Operating Impact

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes, this reappropriation request funds for the permanent preservation of some of the last remaining examples of pre-European ecosystems to be included in DNR's Natural Areas Program and provides funding to transfer properties out of Trust status for conservation and recreation use.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

These lands will be conserved for their ecological and recreation value, some are the last and best examples of pre-European settlement ecosystems in Washington. Preserving these lands provide social, environmental, and cultural benefits to rural communities that rank high in health disparities while providing funding for DNR to acquire replacement trust assets which generate revenue for school construction and rural economic development.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Each of the properties to be transferred will be conserved for their ecological or recreational benefits and the majority are in areas identified on the OBC map. This funding will allow DNR to acquire productive trust assets which the Washington Supreme Court concludes is a benefit to "all the people": "generating revenue for the enumerated beneficiaries is advantageous to "all the people" of Washington because they stand to benefit from having stable and financially viable public systems of education and governance."

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.
4. Because all of the lands for which DNR is seeking reappropriation will remain in DNR management under its Natural Areas Program, Tribal access will be maintained under current levels.
5. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

DNR's Natural Areas Program conducts Tribal outreach during the process of setting or expanding boundaries for all DNR Natural Areas, which includes each parcel in this funding request. In addition, DNR performed Tribal outreach as part of the Trust Land Transfer Pilot Project, and multiple Tribal representatives served on the workgroup that helped determine the parcels that would receive funding through the pilot project. Tribal support is one of the criteria used to evaluate and rank proposals. Feedback was welcome at each step of the process.

6. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.
7. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:48PM

Project Number: 40000153

Project Title: Webster Nursery Seed Plant Replacement

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

This request is specifically to reappropriate a portion of the project's construction funds into the 2025-27 biennium to complete construction of the seed plant. The Department of Natural Resources (DNR) requires a built solution to sustain seed processing and storage at the Webster Forest Nursery to support tree nursery operations, reforestation efforts across the state, and provide a basis for expansion of tree production to support future reforestation requirements.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

This request is to reappropriate roughly one-third of the construction funds to complete construction of the seed plant. The project has undergone a protracted permitting process, and the construction delivery timeline now includes the first 45 days of the 2025-27 biennium.

The Department of Natural Resources (DNR) operates a seed processing plant at the Webster Forest Nursery. In 2006, the Seed Plant modernized seed processing equipment due to increases in demand and obsolescence of equipment. Available new equipment did not fit in the original 3600 square foot seed processing facility, constructed for the seed processing function in 1965. As a result, DNR entered into a lease agreement with an adjacent light industrial facility for the lease of 5000 square feet to support operation of the new equipment. The leased facility has subsequently undergone sale and the new owners will not extend use of the facility beyond the beginning of 2024.

A portion of the equipment necessary for seed processing still operates from the original building. The original seed plant building is at the end of its useful life cycle as an industrial plant and requires significant renovation to support ongoing operations. Minor renovations to the existing building offer the potential conversion to dry storage purposes.

DNR also operates a seed freezer at the Webster Forest Nursery that maintains the stock to support nursery production and the State's seed bank. The freezer building and freezer apparatus are well past the point of normal replacement and have been the focus of numerous minor but expensive, projects to extend the system life cycle over the past decade.

Operating the seed plant in two locations is not efficient, even if the two locations are as close as a quarter of a mile. Production time is lost in the movement of product between sites to complete processing, adding man-hours, additional processing steps due to the movement of material and increase overhead requirements. The pending loss of the leased property adds urgency to the need to improve efficiency.

This project addresses a requirement to improve efficiency and sustain operations by consolidating seed processing operations in a single facility at Webster Nursery. This project is a priority because DNR cannot afford to experience an interruption in the annual seed extraction process, with regard to nursery output, either to support major renovations of the original plant or due to loss of leased off-site space. This project seeks to improve current production efficiency by reducing overhead, transportation costs and lost man-hours incurred by a split based seed extraction process without interrupting production.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:48PM

Project Number: 40000153

Project Title: Webster Nursery Seed Plant Replacement

**Description****What will the request produce or construct? When will the project start and be completed?**

This project will result in the construction of a 15,000 square foot light industrial building to house the seed extraction process, processing equipment, and seed freezers to maintain the seed inventory at the Webster Forest Nursery. This request is to complete the construction phase of the project underway during the 2023-25 biennium.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

This reappropriation request is to avoid a partially delivered construction project.

This project results in construction of a new facility that houses the entire seed extraction process under a single roof at the Webster Nursery, with an increased capacity to store seed to support the extraction process. This project is a solution to two issues. This project will improve the efficiency of processing operations and will replace the loss of the leased processing space adjacent to the Nursery that DNR lost access to in 2023.

**What alternatives were explored? Why was the recommended alternative chosen?**

DNR reviewed the potential of leasing or purchasing a facility at a location other than Webster Nursery. This course of action is not cost effective. The seed plant is part of a larger nursery system of infrastructure, including a seed freezer facility, redundant power generation and a seed handling building that, for efficiency purposes, require co-location. The remainder of the infrastructure is in operable condition. Moving production to an off-site location would incur a requirement to add additional staff and would require significantly more cost to achieve sustainable operations and incur intermodal transportation costs and overhead costs otherwise saved by operations from the nursery site.

DNR reviewed expansion of the existing facility. This course of action presented several challenges, both of which involve increased cost. First, the existing building requires significant renovation and modernization to sustain continued plant operations. A major renovation would entail wholesale changes to facility structure, roof, electrical, plumbing, and heating and ventilating systems, asbestos and lead abatement and other modifications. Secondly, the site of the existing plant is not suitable for expanding the existing building footprint sufficiently to house the necessary equipment due to the proximity of other structures and utility runs in the immediate vicinity. The configuration of the site limits significant design opportunities and efficiencies that otherwise exist by constructing a new building. As a result, the cost of renovation and expansion exceeds that of building a separate structure. Thirdly, a renovation and expansion course of action would require the interruption of processing operations for one or two years.

DNR selected the design and construction of a new structure as the most efficient solution to gain efficiencies in plant production for the least overall cost.

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:48PM

Project Number: 40000153

Project Title: Webster Nursery Seed Plant Replacement

**Description**

**Which clientele would be impacted by the budget request?**

The direct beneficiary of this project is DNRs nursery. The project will improve seed processing and storage capacity in the seed plant which directly supplies products to the nursery for seedling production. The clientele ultimately benefiting from this project are the private and governmental customers of the DNR nursery.

**Does this project or program leverage non-state funding? If yes, how much by source?**

No

**Describe how this project supports the agency’s strategic master plan or would improve agency performance.**

This project supports Strategic Priority D, “Strengthen the Health and Resilience of Our Lands and Waters,” and Strategic Priority E, “Increase Public Engagement and Commitment to our Public Lands”, respectively by more effectively delivering seedling production and seedling availability to support reforestation efforts throughout the state.

**Does this request include funding for any IT-related cost?**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, by expanding the seedling production for reforestation efforts.

The Influential Outcome **directly** advanced by this proposal include:

1.4 Restore habitat and habitat-forming processes to support biological communities

The Strategies, Actions, and Key Opportunities **directly** advanced by this proposal include:

Strategy 4: Establish and implement science-based riparian protection, restoration, and management policies that result in a minimum ‘1 Site Potential Tree Height’ forested riparian area standard. (ID #11)

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:48PM

Project Number: 40000153

Project Title: Webster Nursery Seed Plant Replacement

## Description

*Key opportunity:* Establish a riparian plant propagation program at public and private nurseries to meet future riparian restoration needs

Strategy 25: Support natural resource sector jobs and production opportunities. (ID #165)

The proposal is aligned with and implements strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY – Low Summer Flows (3):** Protect and manage headwaters and upland forest to improve hydrologic function of watersheds.

Low Flow: 3.1 Prevent the conversion of forests and promote restoration of riparian areas.

**STRATEGY - Water Quality (2):** Control and prevent nonpoint source pollution that affects salmon.

WQ: 2.6 Communicate the need for nurseries to supply native trees in the numbers needed to support riparian plantings along Puget Sound streams to help filter pollutants.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project replaces conditioned and unconditioned space in three buildings equipped with older, less efficient HVAC systems built prior to requirements to insulate space to conserve energy use. This project eliminates a fourth building completely. The new structure, built to current code standards, will be more efficient in the use of energy and constructed to utilize electricity as the sole source of heat for the structure. As a result of these conditions, this project will reduce emissions compared to current building use and therefore contributes to meeting emission reduction goals associated with RCW 70A.45.050.

Clean Buildings performance standards in RCW 19.27A.210 do not apply to this project as this project contains less than the minimum gross, or conditioned square footage thresholds for inclusion in requirements. This project consists of slightly more than 15,000 gross square feet and contains less than 2500 square feet of conditioned space.

**How is your proposal impacting equity in the state?**

This project expands the capacity of DNRs seed production activity in support of reforestation efforts across the state including those areas at increased ecological risk due to recent and future wildfire activity.

**Is this project eligible for Direct Pay?**

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:48PM

Project Number: 40000153

Project Title: Webster Nursery Seed Plant Replacement

**Description**

No

Is there additional information you would like decision makers to know when evaluating this request?

No

If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.

N/A

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project.

Architect 2 (.04 FTE) \$11,600 for one month in FY2026.

**Location**

City: Tumwater

County: Thurston

Legislative District: 035

**Project Type**

New Facilities/Additions (Major Projects)

**Growth Management impacts**

None.

New Facility: Yes

**How does this fit in master plan**

This project produces a new facility that fits into the DNRs plan by sustaining seed plant operations to support the production of seedlings from Webster Nursery.

**Funding**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:48PM

Project Number: 40000153

Project Title: Webster Nursery Seed Plant Replacement

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	6,745,000		4,429,000	2,316,000	
	<b>Total</b>	<b>6,745,000</b>	<b>0</b>	<b>4,429,000</b>	<b>2,316,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

Building operating costs are estimated as a carry-forward increase amount of \$98,832 per year. These costs are reflected in the Operating package 9V.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.
2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.
3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.
4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.
5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

**STATE OF WASHINGTON**  
**AGENCY / INSTITUTION PROJECT COST SUMMARY**

*Updated June 2022*

Agency	Department of Natural Resources
Project Name	Webster Seed Plant Replacement
OFM Project Number	40000153

**Contact Information**

Name	Wayne Skill
Phone Number	360-902-1204
Email	wayne.skill@dnr.wa.gov

**Statistics**

Gross Square Feet	15,200	MACC per Gross Square Foot	\$310
Usable Square Feet		Escalated MACC per Gross Square Foot	\$337
Alt Gross Unit of Measure			
Space Efficiency	0.0%	A/E Fee Class	C
Construction Type	Industrial buildings with	A/E Fee Percentage	10.41%
Remodel		Projected Life of Asset (Years)	

**Additional Project Details**

Procurement Approach	DBB	Art Requirement Applies	No
Inflation Rate	4.90%	Higher Ed Institution	
Sales Tax Rate %	8.10%	Location Used for Tax Rate	Tumwater
Contingency Rate	5%		
Base Month (Estimate Date)	July-22	OFM UFI# (from FPMT, if available)	
Project Administered By	Agency		

**Schedule**

Predesign Start	July-21	Predesign End	June-22
Design Start	October-21	Design End	June-23
Construction Start	October-23	Construction End	January-25
Construction Duration	15 Months		

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**Project Cost Estimate**

Total Project	<b>\$6,557,099</b>	Total Project Escalated	<b>\$7,104,841</b>
		Rounded Escalated Total	<b>\$7,105,000</b>

**Cost Estimate Summary**

**Acquisition**

Acquisition Subtotal	\$53,000	Acquisition Subtotal Escalated	\$53,000
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**Consultant Services**

Predesign Services	\$2,948		
Design Phase Services	\$373,725		
Extra Services	\$80,000		
Other Services	\$189,504		
Design Services Contingency	\$32,309		
<b>Consultant Services Subtotal</b>	<b>\$678,486</b>	<b>Consultant Services Subtotal Escalated</b>	<b>\$701,221</b>

**Construction**

Maximum Allowable Construction Cost (MACC)	\$4,707,280	Maximum Allowable Construction Cost (MACC) Escalated	\$5,128,787
DBB Risk Contingencies	\$0		
DBB Management	\$0		
Owner Construction Contingency	\$235,364		\$257,512
Non-Taxable Items	\$0		\$0
Sales Tax	\$400,354	Sales Tax Escalated	\$436,290
<b>Construction Subtotal</b>	<b>\$5,342,998</b>	<b>Construction Subtotal Escalated</b>	<b>\$5,822,589</b>

**Equipment**

Equipment	\$2,000		
Sales Tax	\$162		
Non-Taxable Items	\$0		
<b>Equipment Subtotal</b>	<b>\$2,162</b>	<b>Equipment Subtotal Escalated</b>	<b>\$2,367</b>

**Artwork**

Artwork Subtotal	\$0	Artwork Subtotal Escalated	\$0
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**Agency Project Administration**

Agency Project Administration Subtotal	\$420,453		
DES Additional Services Subtotal	\$0		
Other Project Admin Costs	\$60,000		
<b>Project Administration Subtotal</b>	<b>\$480,453</b>	<b>Project Administration Subtotal Escalated</b>	<b>\$525,664</b>

**Other Costs**

Other Costs Subtotal	\$0	Other Costs Subtotal Escalated	\$0
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**Project Cost Estimate**

Total Project	<b>\$6,557,099</b>	Total Project Escalated	<b>\$7,104,841</b>
		Rounded Escalated Total	<b>\$7,105,000</b>

## Funding Summary

	Project Cost (Escalated)	Funded in Prior Biennia	New Approp Request 2023-2025	2025-2027	Out Years
<b>Acquisition</b>					
Acquisition Subtotal	\$53,000		\$53,000		\$0
<b>Consultant Services</b>					
Consultant Services Subtotal	\$701,221	\$220,000	\$341,792		\$139,429
<b>Construction</b>					
Construction Subtotal	\$5,822,589		\$5,822,589		\$0
<b>Equipment</b>					
Equipment Subtotal	\$2,367		\$2,367		\$0
<b>Artwork</b>					
Artwork Subtotal	\$0				\$0
<b>Agency Project Administration</b>					
Project Administration Subtotal	\$525,664		\$525,664		\$0
<b>Other Costs</b>					
Other Costs Subtotal	\$0				\$0

<b>Project Cost Estimate</b>					
Total Project	\$7,104,841	\$220,000	\$6,745,412	\$0	\$139,429
	\$7,105,000	\$220,000	\$6,745,000	\$0	\$139,000
Percentage requested as a new appropriation			95%		

**What is planned for the requested new appropriation? (Ex. Acquisition and design, phase 1 construction, etc.)**

Construction

*Insert Row Here*

**What has been completed or is underway with a previous appropriation?**

Pre-design and Design

*Insert Row Here*

**What is planned with a future appropriation?**

Nothing. Amount shown in Out Years - Consultant Services Line represent variance saving by utilizing Agency Staff Architect in place of an A&E firm during current

*Insert Row Here*

## Cost Estimate Details

Acquisition Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Purchase/Lease					
Appraisal and Closing					
Right of Way					
Demolition	\$53,000				
Pre-Site Development					
Other					
Insert Row Here					
<b>ACQUISITION TOTAL</b>	<b>\$53,000</b>		NA	<b>\$53,000</b>	

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## Cost Estimate Details

Consultant Services				
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
<b>1) Pre-Schematic Design Services</b>				
Programming/Site Analysis				
Environmental Analysis	\$2,948			
Predesign Study				
Other				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$2,948</b>	<b>1.0000</b>	<b>\$2,948</b>	Escalated to Design Start
<b>2) Construction Documents</b>				
<b>A/E Basic Design Services</b>	\$355,025			69% of A/E Basic Services
Other	\$0			
Permitting Costs	\$18,700			costs incur during const
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$373,725</b>	<b>1.0041</b>	<b>\$375,258</b>	Escalated to Mid-Design
<b>3) Extra Services</b>				
Civil Design (Above Basic Svcs)	\$0			
Geotechnical Investigation	\$0			
Commissioning				
Site Survey				
Testing				
LEED Services				
Voice/Data Consultant				
Value Engineering				
Constructability Review				
Environmental Mitigation (EIS)	\$80,000			cost incur at permitting
Landscape Consultant				
Other				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$80,000</b>	<b>1.0041</b>	<b>\$80,328</b>	Escalated to Mid-Design
<b>4) Other Services</b>				
<b>Bid/Construction/Closeout</b>	\$159,504			31% of A/E Basic Services
HVAC Balancing	\$30,000			
Staffing	\$0			
Other				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$189,504</b>	<b>1.0941</b>	<b>\$207,337</b>	Escalated to Mid-Const.
<b>5) Design Services Contingency</b>				
Design Services Contingency	\$32,309			
Other				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$32,309</b>	<b>1.0941</b>	<b>\$35,350</b>	Escalated to Mid-Const.
<b>CONSULTANT SERVICES TOTAL</b>				
	<b>\$678,486</b>		<b>\$701,221</b>	

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**Cost Estimate Details**

Construction Contracts				
Item	Base Amount	Escalation Factor	Escalated Cost	Notes
<b>1) Site Work</b>				
G10 - Site Preparation				
G20 - Site Improvements	\$292,000			
G30 - Site Mechanical Utilities				
G40 - Site Electrical Utilities				
G60 - Other Site Construction				
Other				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$292,000</b>	<b>1.0617</b>	<b>\$310,017</b>	
<b>2) Related Project Costs</b>				
Offsite Improvements				
City Utilities Relocation	\$20,000			
Parking Mitigation				
Stormwater Retention/Detention	\$250,000			
Septic Installation	\$100,000			
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$370,000</b>	<b>1.0617</b>	<b>\$392,829</b>	
<b>3) Facility Construction</b>				
A10 - Foundations	\$212,000			
A20 - Basement Construction				
B10 - Superstructure	\$350,000			
B20 - Exterior Closure	\$410,000			
B30 - Roofing	\$240,000			
C10 - Interior Construction	\$250,000			
C20 - Stairs				
C30 - Interior Finishes	\$204,000			
D10 - Conveying				
D20 - Plumbing Systems	\$272,000			
D30 - HVAC Systems	\$1,070,000			
D40 - Fire Protection Systems	\$150,000			
D50 - Electrical Systems	\$500,000			
F10 - Special Construction	\$100,000			
F20 - Selective Demolition	\$0			
General Conditions	\$287,280			
Other Direct Cost				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$4,045,280</b>	<b>1.0941</b>	<b>\$4,425,941</b>	
<b>4) Maximum Allowable Construction Cost</b>				
<b>MACC Sub TOTAL</b>	<b>\$4,707,280</b>		<b>\$5,128,787</b>	
	\$310		\$337 per GSF	
<div style="border: 1px solid black; width: 100px; height: 15px; margin: 0 auto;"></div> <p>This Section is Intentionally Left Blank</p>				
<b>7) Owner Construction Contingency</b>				
Allowance for Change Orders	\$235,364			
Other				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$235,364</b>	<b>1.0941</b>	<b>\$257,512</b>	
<b>8) Non-Taxable Items</b>				
Other				
Insert Row Here				
<b>Sub TOTAL</b>	<b>\$0</b>	<b>1.0941</b>	<b>\$0</b>	
<b>9) Sales Tax</b>				
<b>Sub TOTAL</b>	<b>\$400,354</b>		<b>\$436,290</b>	
<b>CONSTRUCTION CONTRACTS TOTAL</b>	<b>\$5,342,998</b>		<b>\$5,822,589</b>	

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## Cost Estimate Details

Equipment					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Equipment</b>					
E10 - Equipment					
E20 - Furnishings					
F10 - Special Construction					
Other					
Data Switch	\$2,000				
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$2,000</b>		<b>1.0941</b>	<b>\$2,189</b>	
<b>2) Non Taxable Items</b>					
Other					
Insert Row Here					
<b>Sub TOTAL</b>	<b>\$0</b>		<b>1.0941</b>	<b>\$0</b>	
<b>3) Sales Tax</b>					
<b>Sub TOTAL</b>	<b>\$162</b>			<b>\$178</b>	
<b>EQUIPMENT TOTAL</b>					
<b>EQUIPMENT TOTAL</b>	<b>\$2,162</b>			<b>\$2,367</b>	

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## Cost Estimate Details

Artwork					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Artwork</b>					
Project Artwork	\$0				0.5% of total project cost for new construction
Higher Ed Artwork	\$0				0.5% of total project cost for new and renewal construction
Other					
Insert Row Here					
<b>ARTWORK TOTAL</b>	<b>\$0</b>		<b>NA</b>	<b>\$0</b>	

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## Cost Estimate Details

Project Management					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
<b>1) Agency Project Management</b>					
Agency Project Management	\$420,453				
Additional Services	\$0				
Mech PM	\$15,000				
Elect PM	\$15,000				
Structural PM	\$15,000				
Civil PM	\$15,000				
Insert Row Here					
<i>Subtotal of Other</i>	<i>\$60,000</i>				
<b>PROJECT MANAGEMENT TOTAL</b>	<b>\$480,453</b>		<b>1.0941</b>	<b>\$525,664</b>	

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## Cost Estimate Details

Other Costs					
Item	Base Amount		Escalation Factor	Escalated Cost	Notes
Mitigation Costs					
Hazardous Material Remediation/Removal					
Historic and Archeological Mitigation					
Other					
Insert Row Here					
<b>OTHER COSTS TOTAL</b>	<b>\$0</b>		<b>1.0617</b>	<b>\$0</b>	

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**C-100(2022)**  
**Additional Notes**

**Tab A. Acquisition**

Project is on an established DNR owned and operated site - Webster Nursery.

No land acquisition associated with project; Demolition of existing 2064 SF wood frame building required.

*Insert Row Here*

**Tab B. Consultant Services**

*Insert Row Here*

**Tab C. Construction Contracts**

Pre-engineered steel frame building

*Insert Row Here*

**Tab D. Equipment**

*Insert Row Here*

**Tab E. Artwork**

Industrial building not open to public; limited access to employees (nursery staff only).

*Insert Row Here*

**Tab F. Project Management**

*Insert Row Here*

**Tab G. Other Costs**

*Insert Row Here*

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

**Description**

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

The Department of Natural Resource's (DNR) Forest Roads Program requests reappropriation of \$453,500 for the completion of the correction of fish barrier culvert projects originally appropriated in 2023-25. This request will complete the correction of the final three fish passage barriers from the approved project list to bring them up to salmon recovery and clean water standards on state grant lands and state forest lands. These projects will meet Road Maintenance Abandonment Plan (RMAP) and Federal Injunction requirements in US v WA Culvert Injunction

**Project Description**

*Identify the problem or opportunity addressed. Why is the request a priority?*

The Forest and Fish legislation (RCW 76.09) and the Forest Practices Habitat Conservation Plan obligates the state to maintain roads to Road Maintenance and Abandonment Plan (RMAP) standard (WAC 222-24-050). The Culvert Injunction obligates the state to repair all new barriers to salmon use in the Case Area within 6 years of identification and to conduct re-evaluation of passable culverts to verify passage and identify new barriers.

Over the past 25 years, the Department of Natural Resources (DNR) has repaired or removed over 1,635 fish barriers. These projects have been funded by a combination of the Access Road Revolving Account (ARRA), federal grants from the Federal Emergency Management Agency (FEMA), State Building Construction Account (SBCA/Jobs Bill), and as a contractual obligation of timber sales. With the ongoing 10% inspections, DNR is continuing to find some additional structures, that were passable in the original assessments completed in the early 2000s but have now become barriers to fish passage. This funding will allow DNR to meet our obligations.

**What will the request produce or construct? When will the project start and be completed?**

Project work is ongoing and estimated to end September 2026. Each project is relatively small and any project that has materials associated with it could be phased by purchasing culverts or bridges in one biennium and installing the structure in the second biennium. There is significant storage and handling costs associated with phasing projects and it is fiscally prudent to prioritize the project list and complete each project as funding allows. The reappropriation projects will correct 3 fish barrier culverts. Correction of fish barrier culverts across the state will open habitat to anadromous and resident fish populations. Funding these projects provides jobs to rural contractors where state gains in job growth are lacking.

**How would the request address the problem or opportunity? What would be the result of not taking action?**

The request will provide necessary funding to keep DNR compliant with the Culvert Injunction. Funding will allow the hiring of contractors to complete more projects than can be accomplished by DNR's heavy equipment crews and the hiring of consulting engineers when projects are outside of DNR's expertise.

The collection of the ARRA fees is not supplementing the account fast enough to meet immediate deadlines. We have cut the amount of maintenance on forest roads to cover basic needs and obligations in support of funding fish passage projects. Moving any more funds from maintenance would create more problems both short and long term, including more of the

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

## Description

same type of projects we are requesting to fix with this request.

Not acting would put the DNR at risk of being in violation of our obligations under the Culvert Injunction. Not acting will also damage the DNR's social license to operate with various stakeholders across Washington.

### What alternatives were explored? Why was the recommended alternative chosen?

Alternatives for all projects are explored at the early phases of sub project development. Culvert projects are limited to removal, full-span bridge, or stream simulation culvert design. Recommended alternatives were chosen as the best project that balances management needs, environmental condition, and cost.

### Which clientele would be impacted by the budget request?

The Washington State Department of Transportation (WSDOT), Parks, and the Washington Department of Fish and Wildlife (WDFW), along with the DNR, are party to the Culvert Injunction. DNR accomplishing goals is a benefit for all state agencies and our obligation under the Culvert Injunction. Local tribal entities will support the correction of injunction barriers and expect DNR to meet the requirements of the Culvert Injunction issued by Judge Martinez. Northwest Indian Fisheries Commission (NWIFC), and Depts. of Fish and Wildlife, Parks, and Transportation, would support the Culvert Injunction portion of the proposal. Local tribes, Forest Practices, and Dept. of Fish and Wildlife would also support the non-injunction portion of this proposal. Recreational users, and neighboring property owners with access rights across DNR-managed lands will see improved road drainage conditions.

This funding would allow the DNR to complete an additional 3 fish barrier projects.

### Does this project or program leverage non-state funding? If yes, how much by source?

No. Other funding sources such as ARRA, federal grants (FEMA), and timber sales will be used to accomplish other fish passage and road repair projects not identified on the attached list. Projects on the attached list that are not funded by SBCA will be either delayed or take the funding from ARRA, delaying those other projects and/or forcing reducing maintenance levels on DNR roads which will result in short- and long-term damage to Trust infrastructure and potential safety code violations.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project supports **DNR's Guiding Principles**. Providing fish passage and upgrading roads are ways that we support healthy ecosystems and properly manage our lands. Our fish passage program improves forest streams by making habitat available to aquatic species and by facilitating natural stream function. This benefits our management programs and the public by providing habitat for game fish and endangered fish species. Our project implementation process is based on

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

## Description

guidelines provided by the Department of Fish and Wildlife, the Forest Practices Board Manual, and work accomplished by our region and division engineering staff.

This project supports **Results Washington** as follows:

- **Goal 2 Prosperous Economy** by providing livable wage construction jobs to rural contractors where state gains in job growth are lacking. Many of these contractors are small business owners that live and work in the same communities. These projects are specifically for the betterment of forest roads to provide a safe, environmentally responsible, and reliable road infrastructure that supports multiple uses, but in particular, recreation and the forest economy. Forest roads are an asset to the forest economy.

- habitat statewide. These projects lower or prevent resource damage including; sediment delivery to streams, scour on roads and in streams, small scale landslides, improper water management, and remove fish habitat barriers. These projects keep our forest roads compliant with environmental protection laws while providing access for forestry jobs (construction, logging, science, and conservation) and outdoor recreation opportunities. Injunction culverts directly related to the health of pacific salmon with 10 corrections opening 2.5 miles of habitat identified.

- **Goal 5 Efficient, Effective and Accountable Government** by showing that DNR is providing responsible resource stewardship. We are accountable for being in compliance with the Culvert Lawsuit injunction and forest practice rules; managing to correct and prevent resource damage is in the best interest of the people of Washington.

This project supports **DNR's Guiding Principles**. Providing fish passage and upgrading roads are ways that we support healthy ecosystems and properly manage our lands. Our fish passage program improves forest streams by making habitat available to aquatic species and by facilitating natural stream function. This benefits our management programs and the public by providing habitat for game fish and endangered fish species. Our project implementation process is based on guidelines provided by the Department of Fish and Wildlife, the Forest Practices Board Manual, and work accomplished by our region and division engineering staff.

This project supports **DNR's Strategic Priorities** as follows:

- **Priority B Build Strong and Healthy Rural Communities**

Goal B.2: Partnerships that strengthen rural economies because over 90% of the requested funds will be used for construction contracting. The small size of our projects attracts the rural contractors that live and work in the local communities where the projects are located.

- **Priority D Strengthen the Health and Resilience of Our Lands and Waters.**

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

## Description

Goal D.1: Lands and waters that can remain productive and adapt to changing conditions, including climate change and a growing population.

o Strategy D.1.4: Expand efforts to use natural systems to buffer against floods, storm water, sea level rise, and droughts stemming from changing conditions by protecting the forest road infrastructure from sediment delivery and climate change, and contributing to natural stream function, including water availability. These improvements also protect against higher frequency and intensity of storms, shifting rain-on-snow areas, and fire damage.

Goal D.4: Restore ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.

o Strategy D.4.1: Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative upland and nearshore protection and restoration activities by actually restoring critical salmon habitat and improving the stream function in the upper watersheds to provide for better quality water feeding into that salmon habitat.

o Strategy D.4.3: Reduce contaminants from DNR-managed or regulated roads and other facilities from entering state waters and remove sources of toxic materials (e.g. creosote) from our waters by upgrading roads and stream crossings to Forest Practices and Clean Water Act standards, reducing or eliminating harmful sediment that enters state waters. Improvements to a stream's natural function means less stream scour and fewer road-crossing failures.

### · Watershed Resilience Action Plan

o Action 4: remove or repair barriers on fish-bearing streams.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda, through fish passage barrier inventory and removal, and conducting critical climate change research to assess current roaddrainage network conditions, best management practices (BMP) and lifecycles under predicted climate change regimes.

The Influential Outcomes **directly** advanced by this proposal include:

1.2 Protect agricultural lands and working forests from conversion

1.3 Restore natural flows, fish passage, flooding, and tidal inundation to freshwater and marine systems by removing

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

## Description

structural barriers or altering their management

1.4 Restore habitat and habitat-forming processes to support biological communities

4.3 Increase the resilience of the Puget Sound ecosystem and recovery efforts by adapting to changing climate and ocean conditions when conducting protection and restoration activities

The Strategies, Actions, and Key Opportunities *directly* advanced by this proposal include:

Strategy 2: Support the long-term viability and sustainability of agricultural lands and working forests to reduce pressure for conversion from the current use to a more developed use. (ID #4)

- *Key opportunity:* Improve regulations, policies, and plans that maintain a working lands base, particularly for those areas that are vulnerable to the effects of climate change.

Strategy 5: Increase the number and accelerate implementation of habitat acquisition and restoration projects as prioritized in salmon and watershed recovery plans. (ID #12)

- *Key opportunity:* Remove culverts and other barriers to connectivity to improve and maintain streamflow functions within floodplains and their associated estuaries

Strategy 5: Implement habitat protection and restoration projects that restore or maintain natural nutrient attenuation functions and sediment processes in watersheds, estuaries, and tidal wetlands (ID #24)

Strategy 6: Inventory and assess all fish passage barriers (culverts, dams, etc.). Prioritize, sequence, and implement fish passage barrier correction or removal in watersheds. (ID #152)

- *Key opportunity:* Fulfill the state's obligation to replace fish passage culverts

Strategy 12: Facilitate the increased use or performance of best management practices to reduce pollutants and the volume of runoff from agricultural lands and working forests. (ID #5)

Strategy 12: Facilitate the increased use or performance of best management practices, including increasing riparian restoration, to reduce stream temperatures (ID #196).

Strategy 20: Implement multi-benefit projects and programs that synergistically advance Puget Sound recovery goals and reduce greenhouse gas emissions, increase carbon sequestration in Puget Sound ecosystems, increase climate adaptation, and promote climate resilience. (ID #137)

- *Key opportunity:* Develop climate-resilient forest management practices (including commercial forestry) and reforestation approaches to reduce risks of drought and wildfire, as well as increase snowpack and low summer streamflow.

Strategy 25: Support natural resource sector jobs and production opportunities. (ID #165)

The proposal *directly* implements recommendations of the Orca Task Force (OTF), including:

OTF 1: Significantly increase investment in restoration and acquisition of habitat in areas where Chinook stocks most benefit Southern Resident orcas.

OTF 45: Mitigate the impact of a changing climate by accelerating and increasing action to increase the resiliency and vitality of salmon populations and the ecosystems on which they depend

The proposal is aligned with and implements strategy actions in the Puget Sound Salmon Recovery Plan Addendum, including:

**STRATEGY – Population Growth (6):** Protect and restore all remaining salmon habitat and optimize a net gain in ecosystem function and habitat productivity.

**STRATEGY – Low Summer Flows (3):** Protect and manage headwaters and upland forest to improve hydrologic function of watersheds.

Low Flow: 3.1 Prevent the conversion of forests and promote restoration of riparian areas.

**STRATEGY – Low Summer Flows (5):** Account for future water quantity demands due to a changing climate,

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

## Description

ecosystem conditions, and increased population.

**STRATEGY - Climate (1):** Protect and restore critical habitats and ecosystem functions.

Climate: 1.2 Restore and protect natural hydrologic processes to increase summer low flows and decrease winter peak flows (e.g., remove or limit shoreline armoring, reconnect and restore floodplains...

Climate: 1.4 Identify, protect and restore cold-water refugia (e.g., riparian areas, riffles, pools; remove fish passage barriers to expand access to spawning habitat).

Climate: 1.5 Implement science-based riparian protection, restoration, and management policies that achieve broad salmon recovery, full riparian function, and water quality objectives (e.g., WDFW's...

**STRATEGY - Climate (2):** Improve coordination among and between practitioners to incentivize and advance climate-informed salmon recovery goals.

Climate: 2.2.2 Remove and/or modify barriers such as culverts, tide gates, and floodgates on public and private land to ensure access to tributaries, reconnecting oxbows, and protecting pools to restore...

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

N/A

**How is your proposal impacting equity in the state?**

Heal Act Healthy Environment for All (HEAL) Act promoted the use of the Washington Tracking Network (WTN) created by the Washington Department of Health is a tool used to evaluate the public health for communities across Washington. These may include social vulnerability to hazards such as household which includes the percentage of single parents, housing, socioeconomic factors like percentage of population living in poverty, percent unemployment. Many of the fish barrier culverts on the list are located near communities that are experiencing medium to high vulnerability to social hazards. These communities have high unemployment, high transportation costs, low number of people graduating from high school, medium percentage living in poverty and medium percentage of unemployed. Replacement of these culverts provides opportunity for employment for skilled labor, provides opportunities for recreation and access to the benefits of brush gathering communities and other groups. This activity ties to ESSB 5141 by addressing Social Vulnerability to Hazards, specifically poverty and unemployment through gathering wild edibles and brush for floral arrangements. Furthermore, the many recreationists use DNR roads and culverts to reach hiking trails and campgrounds on public lands. In addition, they have the opportunity to use forest lands for family picnics, fishing and relaxing. The roads and culverts are also used by mountain bikers, bicyclists, motorbikes, and all-terrain vehicles which promotes health.

**Is this project eligible for Direct Pay?**

No

**Is there additional information you would like decision makers to know when evaluating this request?**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

**Description**

DNR Forest Roads program has shown historical success in completing projects. Over 90% of past funding went directly to construction of projects supporting the rural contractors that work and live in the small communities where these projects are located. Funding of our request will provide 7 direct jobs and 12.5 indirect jobs, according to Josh Bivens with Economic Policy Institute (01/23/2019)

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

N/A

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

0.075 FTE Civil Engineer 3 (1.5 staff months) to accomplish site surveys, permitting, specifications and construction management.

0.075 FTE Civil Engineer 4 (1.5 staff months) to accomplish site surveys, final design, specifications and construction management.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Infrastructure (Major Projects)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	750,000		296,000	454,000	
	<b>Total</b>	<b>750,000</b>	<b>0</b>	<b>296,000</b>	<b>454,000</b>	<b>0</b>

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

**Funding**

		Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000553

SubProject Title: KC-0100

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

## SubProjects

SubProject Number: 40000553

SubProject Title: KC-0100

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

The Department of Natural Resource's (DNR) Forest Roads Program requests reappropriation of \$453,500 for the completion of the correction of fish barrier culvert projects originally appropriated in 2023-25. This request will complete the correction of the final three fish passage barriers from the approved project list to bring them up to salmon recovery and clean water standards on state grant lands and state forest lands. These projects will meet Road Maintenance Abandonment Plan (RMAP) and Federal Injunction requirements in US v WA Culvert Injunction

### Project Description

The culvert was determined to be a barrier to fish passage through the 10% per year culvert inspections. The project would remove this barrier to fish passage and approximately .75 miles of road behind the structure which would allow the stream to segment to stabilize and be restored. It is estimated that a replacement structure may be needed in approximately 40 years.

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

The Department of Natural Resource's (DNR) Forest Roads Program requests reappropriation of \$453,500 for the completion of the correction of fish barrier culvert projects originally appropriated in 2023-25. This request will complete the correction of the final three fish passage barriers from the approved project list to bring them up to salmon recovery and clean water standards on state grant lands and state forest lands. These projects will meet Road Maintenance Abandonment Plan (RMAP) and Federal Injunction requirements in US v WA Culvert Injunction

### Project Description

Project is an existing undersized culvert on a fish stream acting as a barrier to fish passage. Road is USFS controlled road and access approximately 3000 acres. The road also could provide a bypass to an outdated bridge that was load rated and found to be unsatisfactory. This would increase the DNR acreage by an additional 300 acres and thousands of acres of USFS and private timber company land. The road provides access for fire protection and walk-in recreation as the road is gated year-round approximately 1 mile from the crossing.

### Location

City: Elma

City: Unincorporated

County: Grays Harbor

County: Pend Oreille

Legislative District: 035

Legislative District: 098

### Project Type

Infrastructure (Major Projects)

Infrastructure (Major Projects)

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:41PM

Project Number: 40000155

Project Title: Correction of Fish Barrier Culverts

**SubProjects**

SubProject Number: 40000553

SubProject Title: KC-0100

Growth Management impacts

N/A

New Facility: No

Growth Management impacts

N/A

New Facility: No

Operating Impacts

No Operating Impact

No Operating Impact

SubProject Number: 40000359

SubProject Title: D-2600 Fish Barrier

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

The Department of Natural Resource's (DNR) Forest Roads Program requests reappropriation of \$453,500 for the completion of the correction of fish barrier culvert projects originally appropriated in 2023-25. This request will complete the correction of the final three fish passage barriers from the approved project list to bring them up to salmon recovery and clean water standards on state grant lands and state forest lands. These projects will meet Road Maintenance Abandonment Plan (RMAP) and Federal Injunction requirements in US v WA Culvert Injunction

**Project Description**

This culvert on the FR-D-2600 road is a barrier to fish passage, has scour problems at the outlet, and needs to be larger for debris passage. Reappropriating the previously approved \$300k in capital funds will fund removal of the culvert, restoration of the site, and construction of a new road around the site that avoids this crossing.

**Location**

City: Forks

County: Clallam

Legislative District: 024

**Project Type**

Infrastructure (Major Projects)

**OFM**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 2:41PM

**Project Number:** 40000155

**Project Title:** Correction of Fish Barrier Culverts

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**SubProjects**

**SubProject Number:** 40000359

**SubProject Title:** D-2600 Fish Barrier

**Growth Management impacts**

N/A

**New Facility:** No

**Operating Impacts**

**No Operating Impact**

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## HEAL Act Requirements

### (ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW [70A.02](#)) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW [70A.02.080](#), beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW [70A.02.110](#).

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW [70A.02.010\(12\)](#) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW [34.05.328](#).
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW [70A.02.060](#).

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

DNR's proposal to replace fish barrier structures would continue to provide consistent access to the recreating public and access to tribe's usual and accustomed areas. The direct health benefit is additional roads to utilize as access for exercise, but decades of research have shown "forest bathing" as a way of helping to reduce stress, improve attention, boost immunity and lift moods (Susan Abookire, 2020, assistant professor, Harvard Medical School).

If this request was not funded, many of these structures would be removed instead of replaced, reducing the amount of road network that is available for usage by the public.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Two of the three remaining projects, equating to 80% of the remaining funding are located in an OBC area.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Providing funding to complete barrier replacement projects will continue to provide access to Tribes' Usual and Accustomed areas for their traditional practices, and barrier replacements in anadromous streams would provide additional habitat for spawning fish, leading to a productive future fisheries harvest by the tribes.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

DNR meets with the Tribes on an annual basis to provide updates to the Culvert Injunction. This is at a time when a newly discovered barrier is presented from recent inspections, and

often the first opportunity for DNR to receive input. DNR engineers will evaluate options and alternatives and provide interested Tribes a draft of the proposal to obtain their input.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not part of agency request legislation.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not part of agency request legislation.



# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:01PM

Project Number: 40000163

Project Title: Eatonville Work Center and Fire Station

## Description

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

This request is to reappropriate funds for use in the 2025-27 biennium to complete the land acquisition and predesign of a site for future development as a work center and fire station in the Eatonville area. This project is to conduct a pre-design and acquisition to satisfy requirements to relocate all activity from the Mineral Work Center to the Eatonville area and accommodate two fire engines with crew currently operating from employee residences. The current site the Department of Natural Resources (DNR) leases in Mineral is now for sale by the Morton School District and DNR must identify and acquire a spatial solution to meet requirements currently unmet at the current location and those that will occur at loss of the lease at Mineral.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

DNR leases its Mineral Work Center from the Morton School District. The Morton School District has put the property up for sale as of July of 2022. DNR anticipates a requirement to vacate the site upon sale of the property.

DNR does not have an interest in acquiring the current Mineral site. The site does not have effective data or cell phone communications capabilities and estimates conducted twice in the past two years have both resulted in projected costs of more than one million dollars to extend improved data service to the site. The work center building is at the end-of-life cycle, requires repairs and the well on the site is problematic for long-term sustained use. The Mineral site is isolated, and not secure. The site has had numerous break-ins and vehicles cannot stay at the site overnight unattended.

The Mineral site does not support the basing of fire engines or crew. As a result, DNR currently operates two engines and eight seasonal personnel from employee's residences in Eatonville. This condition incurs a liability that is not sustainable due to the size and weight of the fire engines and the lack of security at personal residences. The basing solution for the fire engines has worked as a temporary measure but is wholly dependent of seasonal personnel continuing with DNR, that reside in the Eatonville area that also have a residential condition that allows parking of the fire engines.

DNR requires a solution that relocates all activity out of the Mineral Work Center and accommodates two fire engines and seasonal fire crew in the vicinity of Eatonville which is central to the work areas and commute area. This request is to conduct a pre-design and acquisition of space to meet these requirements.

#### What will the request produce or construct? When will the project start and be completed?

This request will result in a pre-design and acquisition of property to relocate the DNR's activities from Mineral and residences in Eatonville to an undetermined site in Eatonville. The first phase will occur during the 2023-25 Biennium.

The second phase of the project is entirely dependent on the findings arrived at during the first phase. We anticipate one of two potential outcomes to emerge from the first phase.

The first potential outcome is acquisition of suitable space that does not require additional modification. In this eventuality, there will be no second phase to this project and the project will culminate during the 2023-25 Biennium.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:01PM

Project Number: 40000163

Project Title: Eatonville Work Center and Fire Station

## Description

The second potential outcome is the acquisition of a site that requires additional modification to meet the requirements to base personnel and fire resources at the site. The pre-design of the first phase will define the cost and scope of such requirements and the second phase of this project will occur during the 2025-27 Biennium.

### How would the request address the problem or opportunity? What would be the result of not taking action?

The end state of this project is to ultimately solve a basing problem for 19 DNR positions including eight fire crew. Specifically, this request is to conduct a pre-design in conjunction with a potential acquisition of built space and property to support relocation of activities to Eatonville from the present leased site outside of Mineral.

The result of not undertaking this project is to continue to base fire engines from employee addresses in the vicinity of Eatonville. This course of action involves liabilities inherent to the size and weight of fire engines and the lack of security afforded the equipment in such situations. Secondly, failure to pursue this project will eliminate DNR's ability to sustain basing of permanent positions in the Eatonville area.

### What alternatives were explored? Why was the recommended alternative chosen?

DNR has explored both lease and build to suit options through the Department of Enterprise Services (DES). DES was unable to identify any suitable lease solutions in Eatonville and received no responses following a solicitation for proposals to provide a build to suit lease solution.

DNR has explored development (built) on multiple DNR owned parcels in the vicinity of Eatonville during the current and previous biennia. This effort failed because of land use restrictions and barriers to potential permitting of the future development in Pierce County.

### Which clientele would be impacted by the budget request?

The primary beneficiaries of this project are the agency employees servicing this portion of the state. The indirect beneficiaries of this project are the users of public lands in the area, and private landowners that will continue to receive expanded fire suppression response efforts.

Specifically, this project affects 19 Department of Natural Resources positions including 8 seasonal fire personnel.

### Does this project or program leverage non-state funding? If yes, how much by source?

This project does not leverage non-state funding.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project addresses DNR's Strategic Plan in the following ways. This project supports Priority One, "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by significantly improving the working conditions for personnel operating in the area and will support continued fire suppression response efforts. This project supports Priority Two, "Build Strong and Healthy Rural Communities," specifically that of strengthening partnerships with local stakeholders to address community economic development issues. This project supports Priority Three, "Enhance Forest Health and Wildfire Management" and Priority Four, "Strengthen the Health and Resilience of Our Lands and Waters" respectively by more effectively positioning fire resources in position to affect positive outcomes and with the means to act effectively.

### Does this request include funding for any IT-related cost?

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:01PM

Project Number: 40000163

Project Title: Eatonville Work Center and Fire Station

**Description**

This project does not include any IT-related costs.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This project is not related to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

The end state solution sought by this project is below the minimum square footage for inclusion of Tier II reporting requirements under the Clean Buildings Act.

This project will reduce daily commutes of nine employees by an average of 36 miles per employee each day. This pre-design process will take full consideration of opportunities to reduce energy cost and use.

**How is your proposal impacting equity in the state?**

This project relates directly to Section 2, (4) (a) and 2 (5) of the Heal Act (prevent or reduce existing environmental harms or associated risks that contribute significantly to cumulative environmental health impacts) by reducing industrial hazards posed by work conducted at the existing sub-standard Department of Natural Resources site. This pre-design will determine a relocation solution via acquisition that will eliminate the liability associated with basing a fire engine at employee residences.

**Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay.

**Is there additional information you would like decision makers to know when evaluating this request?**

This is a request for reappropriation of funds.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This project is not linked to the Governor's Salmon Strategy.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

0.08 FY - Construction Project Coordinator 3 – For land acquisition and predesign of a site for future development.

**Location**

City: Eatonville

County: Pierce

Legislative District: 002

**Project Type**

New Facilities/Additions (Major Projects)

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:01PM

Project Number: 40000163

Project Title: Eatonville Work Center and Fire Station

**Description**

Growth Management impacts  
N/A

New Facility: Yes

**How does this fit in master plan**

This project will result in a new facility upon completion. This project fits into the DNR's planning efforts by providing a work center and fire station in the greater Eatonville area that will support the DNR's operations into the future.

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	880,000		10,000	870,000	
	<b>Total</b>	<b>880,000</b>	<b>0</b>	<b>10,000</b>	<b>870,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 40000376

Project Title: Forestry Riparian Easement Program from Operating

## Description

Starting Fiscal Year: 2023

Project Class: Program

Agency Priority: 99

### Project Summary

The Forestry Riparian Easement Program (FREP) provides financial support to qualifying family forest landowners, which helps maintain their economic viability and reduces the risk of conversion of forest land to other uses. This is a budget re-appropriation request of \$1,241,000 from the current biennium's capital allotment in the Salmon Recovery Account. This request is related to Puget Sound Action Agenda Implementation and implementing the Governor's Salmon Strategy.

### Project Description

#### ***Identify the problem or opportunity addressed. Why is the request a priority?***

The Legislature created FREP in 2001 to compensate eligible small forest landowners for the disproportionate financial impacts of the expanded riparian protections brought about by the Forests and Fish law and rules. As a result of Senate Bill 5667 FREP is now designed to pay small forest landowners for 90% of the value of required leave trees in riparian areas and associated unstable slope buffers from which they are prohibited from harvesting timber. The landowner continues to own the property and retains full access. Landowners cannot cut or remove the acquired timber during the easement period.

This \$1.24 million reappropriation, along with a State Building Construction Account reappropriation, and a \$4.9 million budget request, would provide for:

- a. Estimated increase in easement value due to SB5667.
- b. Estimated 50% increase (25 to 37) in applications received due to SB5667.
- c. Increased costs for conducting timber cruises to help evaluate timber for each application, an additional .33 FTE of a Forest Timber Cruiser 2 position.

The program's funding is used for two main purposes: 1) valuation of easements and 2) compensation for easements. By law, not more than 50% of the allocated funds can be spent on valuing the timber.

#### **What will the request produce or construct? When will the project start and be completed?**

Forty-year easements will continue to be purchased to compensate small forest landowners for expanded riparian protections starting in July 2025 and ending June 2027. There will be an estimated 70 easement applications in the queue purchased between this reappropriation request and the request for new funding. Due to the field work, timber cruising, escrow and title involvement, and landowner interactions, this is a consistent workflow not conducive to phasing.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The legislature established the FREP to help offset the diminishing economic viability of the small forest landowners caused by the disproportionate economic impacts of increased riparian buffer regulatory requirements.

Retaining small forest landowners on working forestlands benefits the citizens of Washington by:

- Aiding in the restoration of threatened and endangered fish stocks;
- Cleaning-up and restoring Puget Sound;
- Providing financial support for family forest landowners, which will help maintain their economic viability, and reduce the risks of conversion of forest lands; and
- Providing jobs related to the purchasing of conservation easements and hiring forestry consultants.

To not fund FREP would curtail an on-going statewide conservation easement program designed solely for small forest landowners. It would put the state at risk of not fulfilling a core commitment of the Forests and Fish Report and the legislation that followed, as well as a commitment made in the Forest Practices Habitat Conservation Plan. Defunding would reduce support for the economic viability of small forest landowners and create a greater potential for conversion of this vital riparian

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 40000376

Project Title: Forestry Riparian Easement Program from Operating

## Description

forestland to uses other than working forestland. Conversion of working forestland to other uses jeopardizes compliance with the Clean Water Act and Puget Sound recovery efforts.

### What alternatives were explored? Why was the recommended alternative chosen?

No other alternatives were explored. The FREP program increased forester capacity and streamlined processes resulting in eliminating the backlog of unfunded easements waiting to be purchased in the 23-25 biennium. The program will need \$10.5 million total funding to purchase current and future applications during the 25-27 biennium. This signals to the small forest landowner community, including SB5667 passing, a recognition that the state is successfully meeting its commitment to them through this program.

### Which clientele would be impacted by the budget request?

FREP is strongly supported by the Washington Farm Forestry Association, the Washington Tree Farm Program, Washington Dept. of Fish and Wildlife, Washington Dept. of Ecology, Washington Forest Protection Association, the Conservation Caucus, tribes, local government entities and many of the family forest landowners across the state.

### Does this project or program leverage non-state funding? If yes, how much by source?

Non-state funding is not available for use in this program. This program has historically been funded by a capital State Building Construction Account appropriation. The program does not have a dedicated funding source or matching funds.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

The FREP Program supports the 2022 - 2025 Agency Strategic Plan priorities by helping to fulfill:

- B2. Increase Work with Tribal, Local, State, and Federal Governments
  - o B 2.1 Partner with tribes, federal, state, and local partners to prioritize and implement forest health treatments, such as mechanical treatments and prescribed fire, in landscapes with the highest need and relative risk, in line with the 20-Year Forest Health Strategic Plan (Eastern Washington).
- B3. Tell the story of public lands and the wide-ranging effects of DNR's work on behalf of Washington's communities.
  - o B 3.1 Publish public awareness and safety documents, brochures, and forms in multiple languages.
  - o B 3.2 Make DNR's scientific expertise and body of research more readily available for the public.
  - o B 3.4 Engage and educate the public about the environmental, social, and economic benefits of DNR lands, including DNR's trust mandate.
- D.4 Ensure ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity
  - o D 4.1 Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.

### Does this request include funding for any IT-related cost?

No

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

FREP contributes to the 2022-2026 Action Agenda for Puget Sound strategies directly through outcome

Tier 1. Protect and restore habitat and habitat forming processes;

- 1.1 Protect habitat and habitat-forming processes from conversion and fragmentation

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 40000376

Project Title: Forestry Riparian Easement Program from Operating

## Description

- o 1.1.1 Ecologically important lands (including beaches, estuaries, forests and wetlands, streams and floodplains) protected from development
  - o 1.1.2 Natural marine, estuarine, and freshwater shorelines (those not armored) protected to prevent future armoring and development
  - o 1.1.3 Future fragmentation of rivers, floodplains, and estuaries by structural barriers.
- FREP contributes to these outcomes through the preservation of riparian habitat by acquiring easements protecting riparian areas from development, armoring, and fragmentation.

### How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?

FREP contributes to carbon sequestration by maintaining the riparian forests within the conservation easement areas for the life of the 40-year easement.

### How is your proposal impacting equity in the state?

The FREP, as part of the Small Forest Landowner Office, assists small forest landowners by offsetting disproportionate financial impacts incurred by the implementation of expanded riparian zone protections brought about by the Forests and Fish law and rules. FREP was originally designed to pay small forest landowners for 50-89% of the value of required leave trees in riparian areas and associated unstable slope buffers from which they are prohibited from harvesting timber. However, in 2024 the Legislature passed Senate Bill 5667 establishing a reimbursement rate of 90% for all qualifying landowners. The landowner continues to own the property and retains full access. The small forest landowner community consists of more than 218,000 individual owners across the state with a wide variety of ownership characteristics and objectives.

### Is this project eligible for Direct Pay?

No

### Is there additional information you would like decision makers to know when evaluating this request?

This program is eligible for funding from the Climate Commitment Act (Natural Climate Solutions Account (NCSA)).

### If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action

The Washington Governor's Salmon Strategy is a comprehensive plan aimed at recovering salmon populations across the state. The strategy, updated in 2021, includes several key actions:

- Protect and restore vital salmon habitat.
- Invest in clean water infrastructure for both salmon and people.
- Correct fish passage barriers to restore salmon access to their historical habitats.
- Build climate resiliency to support salmon recovery.
- Align harvest, hatcheries, and hydropower operations with salmon recovery goals.
- Address predation and food web issues affecting salmon.
- Enhance commitments and coordination across various agencies and programs.
- Strengthen science, monitoring, and accountability efforts'

The Forestry Riparian Easement Program fulfills these key actions by protecting and restoring vital salmon habitat and

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 40000376

Project Title: Forestry Riparian Easement Program from Operating

**Description**

investing in clean water infrastructure for both salmon and people.

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Program (Minor Works)

**Growth Management impacts**

This program will help landowners retain their working forests and in turn help local government entities fulfill their requirements under the GMA to maintain land in forestry.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
06A-1	Salmon Recovery Acct-State	5,000,000	3,759,000		1,241,000	
	<b>Total</b>	<b>5,000,000</b>	<b>3,759,000</b>	<b>0</b>	<b>1,241,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
06A-1	Salmon Recovery Acct-State	0	0	0	0	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This funding addresses the harm resulting from the imminent loss and impairment of ecosystem functions on the identified parcels. The funding will prevent and reduce existing harms as a result of ecosystem function degradation and loss that contribute to cumulative environmental health impacts for overburdened communities and vulnerable populations. This request responds to identified priorities of communities in preserving vital open spaces.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

100% because it benefits statewide and impacts the Action Agenda for Puget Sound, Climate Resilience, and Strategic Plans.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

No impact to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:45PM

Project Number: 40000405

Project Title: State-Owned Lands Carbon Sequestration

## Description

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

Reappropriation request to continue guiding a work group through a collaborative process to develop recommendations for changes to the Department of Natural Resources (DNR)'s management of forested state trust lands, with a professional facilitator. Recommendations will be made in the context of the following: increase carbon sequestration and storage; conserve and manage older, structurally complex forest; and support trust beneficiaries, the timber industry, and rural communities. This project helps address the "build climate resilience" section of the Governor's Salmon Strategy, which includes a goal to "Increase carbon sequestration by planting trees, preserving forests....and other carbon storage opportunities to absorb existing high levels of carbon in the atmosphere and prevent more carbon release."

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

The effects of climate change are being experienced now and will worsen as carbon emissions continue to rise. With this project, DNR and a work group will identify ways to increase carbon sequestration and storage on forested state trust lands, which is an example of a "natural climate solution" for mitigating climate change impacts. As part of this project, DNR has contracted with various consultants who will determine how forest management changes on state trust lands could affect the economies of small, rural, timber-dependent communities.

#### What will the request produce or construct? When will the project start and be completed?

The project will produce a set of recommendations for changes to DNR's forest management practices on state trust lands located west of the Cascade Crest. Consultants hired through a competitive process are modeling each potential change to determine how well it meets project objectives, and the results will inform the final selection of recommendations. The project began in September 2023 with the establishment of the work group and will continue through fiscal year 2025 with development of the management approaches, modeling, preparation of draft and final consultant reports, and drafting of progress reports to the Washington State Legislature. This project has been progressing on an aggressive timeline. However, given the complexities of the modeling, the significance this project could have in terms of future forest management, and the possible impacts on trust beneficiaries and the people of Washington, it is necessary to complete some key tasks after the close of the 2023-2025 biennium. The following is a summary of the funding requested and how it will be used.

1. \$24,000 for the meeting facilitation contractor to facilitate two additional meetings of the work group. These meetings will be used to finalize the recommendations and answer questions about the final model results. These meetings will also be needed to discuss the life cycle analysis.
2. \$20,000 to complete a life cycle analysis on the management recommendations, which involves estimating carbon emissions from activities such as logging, transport, and milling logs into timber or other products, as well as estimating emissions from decay of all products that are made from harvested wood, from paper pulp through lumber. Although not required by the proviso, this analysis has been requested by work group members. DNR will contract with a university to begin this work using existing proviso funds in fiscal year 2025 but will need additional funding for the contractor to complete it during the next biennium.
3. \$40,000 (\$20,000 each) to the existing carbon and economic modeling contractors to discuss model results and answer work group questions and coordinate with the contractor performing the life cycle analysis.
4. \$291,000 in staff time and related expenses to assist with items 1 through 3, write the final legislative report, present recommendations to the Board of Natural Resources, manage all four contracts, review deliverables, conduct outreach to stakeholders, and other related tasks.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:45PM

Project Number: 40000405

Project Title: State-Owned Lands Carbon Sequestration

**Description****How would the request address the problem or opportunity? What would be the result of not taking action?**

Reappropriation would enable DNR and the work group to identify ways to increase carbon sequestration and storage on forested state trust lands while also supporting trust beneficiaries and small, rural, timber-dependent communities in western Washington. If DNR does not complete this project, a key opportunity will be missed to help mitigate climate change. Many communities in Washington are experiencing impacts associated with a warming climate, such as summer heat waves, longer summer droughts, and higher risks of wildfire and smoke pollution.

**What alternatives were explored? Why was the recommended alternative chosen?**

This project entails development of a set of forest management recommendations in collaboration with a work group. No alternatives to this work were explored because the budget proviso was specific on how the funding should be used.

**Which clientele would be impacted by the budget request?**

The project will not directly impact any communities because it only involves developing recommendations in cooperation with a work group. Any potential impacts to trust beneficiaries or rural communities (positive or negative) would happen in the future, if the recommendations are adopted and implemented.

**Does this project or program leverage non-state funding? If yes, how much by source?**

This project does not leverage non-state funding.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project supports Goal D.1.2 of DNR's 2022-25 Strategic Plan, Implement DNR's Plan for Climate Resilience. The Plan for Climate Resilience includes a goal to increase carbon sequestration in forests and harvested wood products.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

This project does not fund IT-related costs or the continuation of a project that is, or will be, under OCIO oversight.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This project is not linked to the Puget Sound Action Agenda.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

This project involves developing recommendations for how DNR could increase carbon sequestration and storage in forests and harvested wood products on state trust lands, while also supporting rural economies, trust beneficiaries, and the timber industry. Although the project will take carbon emissions into account, this project is not directly tied to the State's greenhouse gas reduction goals. If the recommendations are adopted and implemented, they could help to reduce carbon pollution through increased sequestration.

**How is your proposal impacting equity in the state?**

This project will result in a list of recommended changes to forest management that are designed to increase carbon sequestration in forests and harvested wood products while also supporting rural economies, trust beneficiaries, and the timber industry. If the recommendations are adopted and implemented after this project has been concluded, these changes could affect communities across western Washington, including small, rural, timber-dependent communities. As part of this project, Evergreen Economics, a consultant hired through a competitive process, will examine possible direct and indirect

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:45PM

Project Number: 40000405

Project Title: State-Owned Lands Carbon Sequestration

**Description**

impacts on employment, payroll, and economic output by industry (for example, lumber manufacture) for each management recommendation. Until the initial report is delivered in March 2025, it is not possible to estimate how any of these communities could be impacted by the proposed recommendations.

**Is this project eligible for Direct Pay?**

This project is not eligible for Direct Pay.

**Is there additional information you would like decision makers to know when evaluating this request?**

Having the time to fully utilize the funding in this proviso will enable DNR to complete this extremely consequential project and realize the benefits of the State's investment. It will also enable DNR to complete the value-added life cycle analysis. It is hard to underestimate the importance of this, or any other climate mitigation project, in the face of the real and increasing dangers of climate change.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

This project is not directly linked to the Governor's Salmon Strategy. However, it helps address the "build climate resilience" section of the strategy, which includes a goal to "Increase carbon sequestration by planting trees, preserving forests....and other carbon storage opportunities to absorb existing high levels of carbon in the atmosphere and prevent more carbon release."

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

This project was not funded prior to the 2021-23 biennium.

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

Environmental Planner 4: 3 staff months; prepare legislative report and coordinate reviews with DNR staff and work group, assist with planning work group meetings, review and/or create meeting materials, attend work group meetings, post materials to DNR's external website, coordinate with contractors, review contract deliverables.

Environmental Planner 3: 3 staff months; review meeting materials and legislative report, attend work group meetings, serve as contract manager for all four contracts, review contract deliverables.

WMS Band 2 (two staff): 1 staff month each; attend work group meetings, serve as subject matter experts, review deliverables and the legislative report, answer contractor questions.

Natural Resource Scientist 4 (two staff): 1 staff month each; attend work group meetings, serve as subject matter experts, review deliverables and the legislative report, answer contractor questions.

IT Project manager: 1 staff month; provide data to contractors, answer contractor questions, provide technical review of all contract deliverables, review legislative report, attend work group meetings as needed to answer technical questions.

Admin Assistant DNR (two staff): 3 staff months each; present at work group meetings, present to the Board of Natural Resources, conduct outreach to stakeholders, review legislative report and contract deliverables, coordinate with Division Managers on possible linkages with other major DNR planning projects.

WMS Band 4 Division Manager (two staff): 1.5 staff months each; coordinate collection of data from technical staff and work with Admin Assistant listed above to coordinate this project with other major DNR planning projects.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:45PM

Project Number: 40000405

Project Title: State-Owned Lands Carbon Sequestration

**Description**

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Special Programs

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	83,000,000		82,625,000	375,000	
	<b>Total</b>	<b>83,000,000</b>	<b>0</b>	<b>82,625,000</b>	<b>375,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 91000318

SubProject Title: Stakeholder Facilitation Contract, Collaboration, and Research

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:45PM

Project Number: 40000405

Project Title: State-Owned Lands Carbon Sequestration

**SubProjects**

SubProject Number: 91000318

SubProject Title: Stakeholder Facilitation Contract, Collaboration, and Research

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

**Project Summary**

Reappropriation request to continue guiding a work group through a collaborative process to develop recommendations for changes to the Department of Natural Resources (DNR)'s management of forested state trust lands, with a professional facilitator. Recommendations will be made in the context of the following: increase carbon sequestration and storage; conserve and manage older, structurally complex forest; and support trust beneficiaries, the timber industry, and rural communities. This project helps address the "build climate resilience" section of the Governor's Salmon Strategy, which includes a goal to "Increase carbon sequestration by planting trees, preserving forests...and other carbon storage opportunities to absorb existing high levels of carbon in the atmosphere and prevent more carbon release."

**Project Description**

The project will produce a set of recommendations for changes to DNR's forest management practices on state trust lands located west of the Cascade Crest. Consultants hired through a competitive process are modeling each potential change to determine how well it meets project objectives, and the results will inform the final selection of recommendations. The project began in September 2023 with the establishment of the work group and will continue through fiscal year 2025 with development of the management approaches, modeling, preparation of draft and final consultant reports, and drafting of progress reports to the Washington State Legislature. This project has been progressing on an aggressive timeline. However, given the complexities of the modeling, the significance this project could have in terms of future forest management, and the possible impacts on trust beneficiaries and the people of Washington, it is necessary to complete some key tasks after the close of the 2023-2025 biennium. The following is a summary of the funding requested and how it will be used.

1. \$24,000 for the meeting facilitation contractor to facilitate two additional meetings of the work group. These meetings will be used to finalize the recommendations and answer questions about the final model results. These meetings will also be needed to discuss the life cycle analysis.
2. \$20,000 to complete a life cycle analysis on the management recommendations, which involves estimating carbon emissions from activities such as logging, transport, and milling logs into timber or other products, as well as estimating emissions from decay of all products that are made from harvested wood, from paper pulp through lumber. Although not required by the proviso, this analysis has been requested by work group members. DNR will contract with a university to begin this work using existing proviso funds in fiscal year 2025 but will need additional funding for the contractor to complete it during the next biennium.
3. \$40,000 (\$20,000 each) to the existing carbon and economic modeling contractors to discuss model results and answer work group questions and coordinate with the contractor performing the life cycle analysis.
4. \$291,000 in staff time and related expenses to assist with items 1 through 3, write the final legislative report, present recommendations to the Board of Natural Resources, manage all four contracts, review deliverables, conduct outreach to stakeholders, and other related tasks.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

**Version:** 27 2025-27 DNR Capital Submittal

**Report Number:** CBS002

**Date Run:** 9/10/2024 3:45PM

**Project Number:** 40000405

**Project Title:** State-Owned Lands Carbon Sequestration

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**SubProjects**

**Project Type**

**SubProject Number:** 91000318

**SubProject Title:** Stakeholder Facilitation Contract, Collaboration, and Research

**Project Type**

Special Programs

**Growth Management impacts**

n/a

**New Facility:** No

**Operating Impacts**

**No Operating Impact**

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No. This project involves developing recommendations for potential forest management changes in collaboration with a work group. Because this project only involves developing recommendations, it will not alter DNR's forest management practices as they are implemented now, and therefore will not reduce, mitigate, or eliminate environmental harm. For that reason, this project is not a significant agency action under RCW 70A.02.060. If adopted and implemented, the proposed management changes may reduce or mitigate an environmental harm (carbon pollution), but those effects would occur in the future, well beyond the timeframe for this project, and would be analyzed for potential environmental harm through separate planning processes.

### If you answer YES to any of the above questions, please complete these additional questions.

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

n/a

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

n/a

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

n/a

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

n/a

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under [RCW 70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

n/a

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

n/a

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000409

Project Title: Port Angeles Fire and Seasonal Employee Housing

## Description

Starting Fiscal Year: 2025

Project Class: Program

Agency Priority: 99

### Project Summary

This request reappropriates a portion of the design funds into the 2025-27 biennium in order to complete the project design and pursue construction permits. This project will deliver a 4500 square foot building to house seasonal fire personnel (billets) and the Wildland Fire, Forest Resiliency and Forest Regulations programs at Port Angeles. The project will also demonstrate the viability of cross laminated timber as a locally sourced, environmentally friendly, alternative building material important to the economic future of the State of Washington. This project addresses two distinct issues for the Department of Natural Resources (DNR) at the Port Angeles site. DNR requires billeting space (housing and hygiene) for seasonal fire personnel in order to recruit and retain personnel to work in the area during fire season. DNR requires administrative and training space to accommodate program growth and increased training and planning loads respective of the Wildland Fire, Forest Resiliency and Forest Regulations programs.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

DNR requires additional space at our Port Angeles site to accommodate seasonal fire personnel and permanent personnel that are part of the Wildland Fire, Forest Resiliency and Forest Regulations programs.

There are very few rentals available and the cost for the limited housing options is often too expensive based on the wages seasonal employees earn, which impacts DNR's recruitment and retention to fill these positions. It is not uncommon for candidates that have been offered and accepted positions to later rescind their acceptance when they are unable to secure affordable, accessible, or appropriate housing within a reasonable distance from their duty station. The availability of seasonal housing is also a safety concern as we see seasonal employees using their vehicles or campgrounds for shelter during at least part of their assignment because they cannot find housing. There are concerns around the appropriateness, safety, and health for these seasonal staff.

This project presents an opportunity to demonstrate cross laminated timber as an alternative building material that has environmental benefits due to comparatively low greenhouse gas emission creation, its manufacture and locally sourced availability.

This project is positioned to capitalize on recently completed storm water mitigation work and ongoing project work to connect the department's Port Angeles site to the city sewer system that will allow for accelerated design and permitting processes. DNR has completed storm water mitigation for the Port Angeles site.

DNR proposes leveraging the site improvements to pilot an office/residential building using the latest sustainable technology (mass/cross laminated timber). This building will not only assist with solving a housing availability issue in this region but also be an example of using sustainable building products.

#### What will the request produce or construct? When will the project start and be completed?

This request reappropriates a portion of the design funds into the 2025-27 biennium in order to complete the project design and pursue construction permits.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000409

Project Title: Port Angeles Fire and Seasonal Employee Housing

## Description

This project will deliver a 4500 square foot building utilizing cross laminated timber products at the existing DNR compound in Port Angeles. The scope of the project includes:

- Six individual occupancy (unisex) billeting rooms for seasonal fire crew, served by two unisex latrine/shower rooms.
- Training room to support 25 personnel.
- Administrative space for 16 personnel.

This project consists of a design phase and a construction phase. This request specifically addresses the design phase that would take place in fiscal year 2025. The construction phase would follow during the 2025-27 biennium.

### How would the request address the problem or opportunity? What would be the result of not taking action?

This request extends the design timeline such that product and permit delivery from the current phase will align with the subsequent request for construction funds in 2026.

This request is to support the design of a project that will result in the construction of a building at the department's Port Angeles site, utilizing cross laminated timber as the primary structural component. Key elements of the design scope include living space for seasonal firefighting personnel, administrative workspace for permanent and seasonal personnel and training space to support classroom and hands-on instruction.

This project will address seasonal fire personnel housing availability in the Olympic Region, in the Port Angeles area to improve recruitment and retention. This project will provide the necessary workspace for the Wildland Fire, Forest Resiliency and Forest Regulations programs. As an additional design criteria, this project will serve as a pilot in the use of cross laminated timber construction for public building use as a demonstration of the viability of the material as an environmentally preferable alternative to more greenhouse gas intensive construction types.

The result of not proceeding with the design currently is to delay meeting the work environment requirements of several key departmental programs that service the greater Port Angeles area and constrain the DNR's ability to hire and retain personnel.

### What alternatives were explored? Why was the recommended alternative chosen?

The purpose of this project is to create an addition of built space at an existing Department of Natural Resources owned compound. The department investigated several alternatives including the use of mobile structures and off-site leased or constructed solutions.

The department discounted the use of mobile structures due to the short life cycles of mobile solutions, (trailer based) the high cost to maintain such structures and the high emission potential associated with both manufacture and operation of such structures. The department's program requirements at the location will long outlive the life cycle of a mobile structure.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000409

Project Title: Port Angeles Fire and Seasonal Employee Housing

**Description**

The department discounted the potential of an off-site lease or construction for several reasons. The programs that will occupy space in the project rely on administrative and service support from other programs and infrastructure that exist at the Port Angeles site including that of vehicle storage, equipment, and equipment storage. The programs that will occupy space in the project are enduring in nature.

**Which clientele would be impacted by the budget request?**

The primary beneficiaries of this project are the agency employees servicing this portion of the state. The indirect beneficiaries of this project are the users of public lands in the area, and private landowners that will continue to receive expanded fire suppression response efforts.

Specifically, this project directly affects the working environment of 16 Department of Natural Resources positions including living quarters for six of those positions. Indirectly, this project affects another 60 positions by providing space to support employee training.

**Does this project or program leverage non-state funding? If yes, how much by source?**

No

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project addresses DNR's Strategic Plan in the following ways. Supports the strategic priority of "Make DNR a Great Place to Work and Serve Washington's Lands and Communities," by improving the working conditions for personnel operating in the Port Angeles area and meeting basic housing necessities for the department's seasonal personnel. This project supports strategic priority of "Invest in Washington's People, Lands and Communities" specifically that of strengthening partnerships with local stakeholders to address community economic development issues and promoting the growth of the cross laminated timber products industry. This project supports the strategic priority of "Protect our Lands and Waters" by more effectively positioning fire and forestry resources in position to affect positive outcomes and with the means to act effectively.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

No

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

The projected square footage of this project is less than 5000 square feet and therefore will not be substantial enough to require reporting and performance requirements associated with Tier I or Tier II buildings under the Clean Buildings Act.

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000409

Project Title: Port Angeles Fire and Seasonal Employee Housing

**Description**

This project will utilize all electric HVAC systems in design. The design of this project will incorporate features to make the end state building net-zero capable.

The secondary design priority for this project, in addition to meeting program spatial needs, is to promote the use of cross laminated timber projects as a construction method in public structures.

**How is your proposal impacting equity in the state?**

The Port Angeles pilot is focused on providing housing options for the department's seasonal staff. These positions typically do not pay enough to afford higher rent in a low-availability, highly competitive, rental market. For example, the average seasonal firefighter makes \$21 per hour. According to the National Low Income Housing Institute, the average renter must make almost \$27 per hour to afford a two-bedroom unit in Washington State. The rental market in many rural and remote locations offers very few options and competes with the higher paying tourist market for short term rentals.

**Is this project eligible for Direct Pay?**

No.

**Is there additional information you would like decision makers to know when evaluating this request?**

The Commissioner of Public Lands has determined that this project include the use of cross laminated timber products as an integrated value-added component of the project design to promote emission friendly construction materials and the growth of the cross laminated timber production industry in the State of Washington. This project serves as a public pilot project utilizing cross laminated timber in a small-scale project.

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.**

No

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

Construction Project Coordinator 3 (.08 FTE) \$23,100 for two months in FY 2026.

**Location**

City: Port Angeles

County: Clallam

Legislative District: 024

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:04PM

Project Number: 40000409

Project Title: Port Angeles Fire and Seasonal Employee Housing

**Description**

**Project Type**

New Facilities/Additions (Major Projects)

**Growth Management impacts**

There are no growth management impacts as this site is within the urban growth boundaries for the city and county.

**New Facility:** Yes

**How does this fit in master plan**

This is a new facility on an existing Department of Natural Resources compound that expands the capacity of the existing site.

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	488,000		244,000	244,000	
	<b>Total</b>	<b>488,000</b>	<b>0</b>	<b>244,000</b>	<b>244,000</b>	<b>0</b>
			<b>Future Fiscal Periods</b>			
			<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1	State Bldg Constr-State					
	<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

**No Operating Impact**

**Narrative**

This project does not create operating cost effects during design or construction. This project will result in additional operating costs estimated at \$43,920 per year beginning in FY28 based on current OFM service cost estimation tables.

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

No.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

N/A.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

N/A.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:26PM

Project Number: 40000411

Project Title: Drought Resilience Infrastructure Investments

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

The Department of Natural Resources (DNR) received funding for a water rights portfolio audit and is asking for reappropriation to finish contracting for the project and give the contractor adequate time to complete the audit work. This ensures the final product will provide the data and analysis necessary to support the future work of the Water Resources program. The DNR received funding for infrastructure improvements in the Odessa area and is asking for reappropriation. The infrastructure request is tied to work being completed by the East Columbia Basin Irrigation District and others on the engineering design and build out for the pipeline affecting DNR lands.

### Project Description

#### ***Identify the problem or opportunity addressed. Why is the request a priority?***

DNR requested \$500,000 for a water rights portfolio audit to create a framework that addresses emerging issues related to drought, validates our water rights, and opens opportunities for new developments by clarifying the capacity of our water rights. Benefits to completing the audit include providing potential additional water rights in critical rural communities (supporting the Agency's EJ Initiatives), identification of new areas where DNR water could be used, bolstering local economies, and generating additional revenue for the trust beneficiaries.

The \$250,000 Odessa funding received will allow the DNR to continue to irrigate approximately 3800 acres in these rural farming communities where declining aquifers are quickly becoming inaccessible. The DNR will be able to participate in the design, engineering and infrastructure costs for on-farm infrastructure improvements to tie into the Odessa lateral lines. The funding would also contribute to the engineering start up and construction costs for the remainder of the unfunded portion of the \$400 million project costs (9 pump stations and lateral lines). By actively contributing, the DNR will receive a steady supply of water for irrigating highly productive trust lands.

#### **What will the request produce or construct? When will the project start and be completed?**

The water rights audit will give the DNR a clear understanding of water rights capacity to use for the benefit of the trust and all of Washington State. The DNR is in the contracting phase of hiring a consultant to complete the work. Based on the complexity of the project, the DNR does not anticipate that the contractor will be finished before December of 2025- June 30, 2026. The Odessa project funding will give the DNR the ability to participate in the ground water replacement program, to continue irrigating productive and lucrative farmland, and support small communities. The ECBID is making progress on the design and engineering of the laterals and the DNR expects enough of ECBID's work to be completed for potential early on-farm construction by early spring of 2026.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

The water portfolio audit will identify water rights that are valid and ones that could have validity issues. This allows the DNR to address issues that will allow full use of the water rights and maximum flexibility in use of the water. If the DNR does not take any action, its water rights will continue to be managed, as in the past, with limited ability to adjust management practices, further eroding the water rights portfolio and bringing potential harm to the public interest.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:26PM

Project Number: 40000411

Project Title: Drought Resilience Infrastructure Investments

## Description

The solution identified for the Odessa subarea is to reduce the reliance on groundwater due to substantially declining aquifers in the area. Reappropriating the funds will allow the DNR to continue participating in the construction of on-farm improvements for its 3,800 acres of farmland in the Odessa area. If the DNR is unable to participate in this program due to lack of funding, it will continue to play a part in the declining levels within the aquifer. This means its lessees will continue to struggle with successfully pumping well water from the declining aquifers in order to continue growing crops and maintain their livelihood.

### What alternatives were explored? Why was the recommended alternative chosen?

DNR staff have known for quite some time that a more thorough review of our water rights portfolio was necessary to reduce risk factors associated with water claims, susceptibility of interruption due to drought, irrigation authorized by water rights vs. irrigation districts, and stock water rights. Due to increasing concerns about drought and the implications to the DNR across all of its asset classes, the DNR hired Aspect Consulting who completed a Drought Mitigation Study in June of 2023. The study identified 9 priority recommendations across the agency, one of which was the need for a water rights portfolio audit to provide more clarity on the validity of the water resource asset, more insight and flexibility in leasing water to gain revenue for DNR's trust beneficiaries and to ensure that the DNR is following its mandate of using its water resources for the public good.

The Odessa Ground Water Replacement Program has proceeded based on an approved EIS completed in 2012 as the identified specific alternative chosen to solve the declining aquifer problem.

### Which clientele would be impacted by the budget request?

The water rights portfolio audit would impact citizens across the state. The Odessa portion of the funding request would specifically impact the farming communities within the Odessa subarea and citizens of the state, country and world who rely on agricultural products and commodities produced within the subarea.

### Does this project or program leverage non-state funding? If yes, how much by source?

The water rights portfolio audit would be a onetime ask from the state legislature. The larger Odessa project is funded by a mix of federal and state appropriated dollars.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This proposal aligns with DNR's 2022-2025 Strategic Plan.

**C.1.1 - Make new investments that strengthen the asset portfolio and increase returns to the beneficiaries.** Both the

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:26PM

Project Number: 40000411

Project Title: Drought Resilience Infrastructure Investments

## Description

water rights portfolio audit and the Odessa infrastructure project are direct investments in our water resource asset. The audit will provide critical information for our water resource program to strengthen the performance of our water rights by identifying validity issues and using water rights in a broader capacity. The Odessa project will provide a more sustainable and reliable source of water to DNR and its lessees reducing risk to crops from the declining aquifer.

**C.1.2 - Ensure public lands provide environmental, social, and economic good.** Water impacts every single person across the State and DNR's ability to identify vulnerabilities in its water rights gives the opportunity to strengthen the asset and resource to position DNR's use of its water consistent with its strategic plan. In addition, participation in the Odessa project is an opportunity to protect valuable farmland with a more viable water source in order to continue to provide a sustainable food supply and boost local, rural economies.

**C.1.3 - Build internal capacity for growing revenue by modernizing tools and systems, expand technical expertise through training, and create new lines of business that leverage assets managed by the Department.** Modernizing agriculture infrastructure will reduce water loss and increase stable water supply to lessees growing crops; The water rights portfolio audit will provide a baseline for DNR to capture risk and identify strategies to utilize DNR's water resources to their full capacity. By establishing this baseline DNR will be able to expand its support to communities across the state and help ensure sustainable food and fiber production.

**D.1.2 - Implement DNR's Plan for Climate Resilience and address climate risks through policies and practices.** DNR's 2020 Climate Resiliency Plan highlights a number of priorities for which this proposal aligns with: 1) Upgrading infrastructure to reduce risk or damage or failure during climate-related impacts, 2) Strengthening resilience through climate-informed design on infrastructure, 3) Maximize the use of existing water rights to support growers and local communities

**D.4.1 - Restore and protect high-priority habitats and water quality that support salmon and other aquatic species through collaborative uplands and nearshore protection and restoration activities.**

This proposal improves an agency key performance measure which is generating non-tax revenue that is provided to support school construction, university buildings and state institutions derived from lease management of state uplands. Sustainable income production for trust beneficiaries to meet that performance is critical. In order to create sustainable income, the agency needs to be able to efficiently manage its assets for long-term management for generations to come. This Drought Resilience Planning proposal would directly align with this key performance measure by:

- Identifying and analyzing all of DNR's water rights for validity to ensure proper use of water and reduce risk of asset loss.
- Generating a more reliable and sustainable water source in the Odessa subarea reducing risk of interruption to farmer's on DNR leased land.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:26PM

Project Number: 40000411

Project Title: Drought Resilience Infrastructure Investments

**Description**

If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

N/A

How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?

Both the water rights portfolio audit and the Odessa infrastructure project are addressing water use efficiencies that play a role in reducing loss of water in water rights or farming practices. The audit specifically will be able to identify loss of use and potential efficiency savings through recommendations such as water metering and on-farm infrastructure upgrades to minimize water loss.

How is your proposal impacting equity in the state?

A majority of DNR's water rights are located east of the Cascades. Apart from a few large cities (Spokane, Tri-cities, Moses Lake and Yakima), small cities or towns are spread across the eastern side of the state. These small towns produce a significant portion of the agricultural crops grown in the State of Washington, including the Odessa subarea. These small rural areas rely on agriculture crops as their livelihood and many of those agricultural crops need water. In addition, many municipalities have identified the need for additional water and lack water rights to expand their urban areas. DNR's ability to more efficiently manage its water and protect its water rights will allow private and public entities to potentially have access to additional water resources during times of drought. This helps bolster local economies and supports the Agency's Environmental Justice Initiatives in and around these rural and disadvantaged areas.

Is this project eligible for Direct Pay?

No.

Is there additional information you would like decision makers to know when evaluating this request?

N/A

If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:26PM

Project Number: 40000411

Project Title: Drought Resilience Infrastructure Investments

**Description**

N/A

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

Both of these capital requests will be contracted out and will not require any additional FTEs.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Project Management

**Growth Management impacts**

The water rights portfolio audit may lead to identifying and validating waters rights that would then allow DNR to lease water to municipalities to meet anticipated growth in their population centers.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	250,000			250,000	
26D-1	Natural Clim Solu Ac-State	500,000			500,000	
28M-1	Land Bank Account-State	20,000,000		20,000,000		
<b>Total</b>		<b>20,750,000</b>	<b>0</b>	<b>20,000,000</b>	<b>750,000</b>	<b>0</b>

		Future Fiscal Periods			
		2027-29	2029-31	2031-33	2033-35
057-1	State Bldg Constr-State				
26D-1	Natural Clim Solu Ac-State				
28M-1	Land Bank Account-State				
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:26PM

Project Number: 40000411

Project Title: Drought Resilience Infrastructure Investments

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 40000422

SubProject Title: Water Rights Portfolio Audit

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

The Department of Natural Resources (DNR) received funding for a water rights portfolio audit and is asking for reappropriation to finish contracting for the project and give the contractor adequate time to complete the audit work. This ensures the final product will provide the data and analysis necessary to support the future work of the Water Resources program. The DNR received funding for infrastructure improvements in the Odessa area and is asking for reappropriation. The infrastructure request is tied to work being completed by the East Columbia Basin Irrigation District and others on the engineering design and build out for the pipeline affecting DNR lands.

**Project Description**

DNR requested \$500,000 for a water rights portfolio audit to create a framework that addresses emerging issues related to drought, validates our water rights, and opens up opportunities for new developments by clarifying the capacity of our water rights. The water portfolio audit will identify water rights that are valid and ones that could have validity issues allowing DNR to address issues that will allow full use of the water rights and maximum flexibility in use of the water.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Project Management

**Growth Management impacts**

N/A

New Facility: No

**Operating Impacts**

No Operating Impact

SubProject Number: 40000412

SubProject Title: Odessa Pipeline

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:26PM

Project Number: 40000411

Project Title: Drought Resilience Infrastructure Investments

**SubProjects**

SubProject Number: 40000412

SubProject Title: Odessa Pipeline

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

**Project Summary**

The Department of Natural Resources (DNR) received funding for a water rights portfolio audit and is asking for reappropriation to finish contracting for the project and give the contractor adequate time to complete the audit work. This ensures the final product will provide the data and analysis necessary to support the future work of the Water Resources program. The DNR received funding for infrastructure improvements in the Odessa area and is asking for reappropriation. The infrastructure request is tied to work being completed by the East Columbia Basin Irrigation District and others on the engineering design and build out for the pipeline affecting DNR lands.

**Project Description**

The Odessa funding received will allow DNR to continue to irrigate approximately 3800 acres in rural farming communities with declining aquifers that are quickly becoming inaccessible. The solution identified for the Odessa subarea is to reduce the reliance on groundwater by participating in the development of on-farm improvements on DNR land in the Odessa area.

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Project Management

**Growth Management impacts**

N/A

New Facility: No

**Operating Impacts**

No Operating Impact



### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

The impact of drought across Washington is most apparent in small communities, or those with limited resources. DNR's dedication to natural resource management and protection includes water, which has been impacted more frequently by drought. Our proposal to add funding for a portfolio audit of our water resources and Odessa infrastructure improvements will lead to improved and consistent water availability across the state.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

50%

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

None.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Tribes have not been consulted as there are no known impacts at this time.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**

**Capital Project Name:**  
**Project #:**

Drought Resilience Planning -  
Water Portfolio Audit and Odessa  
Groundwater Infrastructure  
Program

\$ 750,000

- Project Types
- 1: Health, safety & code req
  - 2: Facility preservation
  - 3: Infrastructure preservation
  - 4: Program

Sub Project Title <span style="color: red;">Listed in Priority Order</span>	Region	Nearest City	Lat/Long **	Leg Dist	Project Type	Estimated Total \$	Notes
Water Rights Portfolio Audit	Statewide	Statewide	Statewide		program	500,000	
Odessa Groundwater Infrastruct	SE Region	Odessa	47.333/-118.687	9	infrastructure	250,000	
<b>Total</b>						<b>\$ 750,000</b>	

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:40PM

Project Number: 40000413

Project Title: Recreational Target Shooting Pilot Sites

## Description

Starting Fiscal Year: 2025

Project Class: Program

Agency Priority: 99

### Project Summary

The Department of Natural Resources (DNR) does not have expertise in managing target shooting, yet target shooting is increasing on DNR-managed lands. The agency allows target shooting as a dispersed activity, however responsible shooters have few safe options that meet all current WACs. These factors result in concentrated shooting in DNR rock pits and trails, streams, and private property, putting lives at risk. To begin effectively managing target shooting, the first step is to develop two sites for piloting designated shooting ranges, which are in the Northeast and Olympic Regions.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

In the 2024 supplemental session, DNR successfully secured \$1.8M in capital funding to develop two pilot target shooting ranges. This re-appropriation request for \$1.6M is required to complete the project so the agency can begin actively managing recreational target shooting, which is increasingly happening closer to residential areas and developed recreation sites and trails. Target shooting is currently managed as a dispersed activity, but as visitation to DNR lands increases and rural residential development grows, DNR must take a more active approach.

The development of the Bulldog and Olympic Ranges will result in a safe shooting option for residents in Spokane, Stevens, Clallam, and Jefferson Counties, where current access is limited. It will also provide the DNR with an opportunity to develop a process for public outreach, permitting, site development, and leasing shooting range management, with the goal of replicating this model in other parts of the state where active target shooting management is also urgently needed. This funding will be coupled with operating funding that is in-hand for FY25 and continues in the 25-27 biennium, which will support community outreach, AAG consultation, and the implementation of best management practices for lead management.

Implementation of this project requires hiring new staff, which is currently underway, but slowed progress on development of the site. We are confident work will begin in Fall 2024.

#### What will the request produce or construct? When will the project start and be completed?

This request will produce two designated shooting ranges—one in Spokane County and one in either Clallam or Jefferson County. The sites will provide a more welcoming experience than dispersed shooting, with restrooms, covered shooting, parking, and clear signage. The project will begin in 2024 and is expected to be completed by June 2027.

#### How would the request address the problem or opportunity? What would be the result of not taking action?

While only addressing two pilot sites, the intention with this request is to begin to 1) provide safe shooting alternatives for the target shooting community and 2) use the pilot locations to develop a process for public outreach, permitting, site development, lead management, and third-party management for future designated ranges on DNR lands.

Safe target shooters have increasingly fewer options for places to practice their hobby that meet all WAC requirements, and neighbors and other recreationists have expressed concern and fear about unmanaged shooting and the potential for personal injury, property damage, and fire starts. The result of not approving this re-appropriation for the 25-27 biennium will be to allow these challenges to continue without a clear management approach for addressing them.

#### What alternatives were explored? Why was the recommended alternative chosen?

The alternative to investing in a designated shooting range is to continue to allow dispersed shooting as the Department has, and to close sites when they become too dangerous to stay open. One example of this is the Boggs Pit site – a popular

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:40PM

Project Number: 40000413

Project Title: Recreational Target Shooting Pilot Sites

**Description**

shooting area in Stevens County – which was closed to public access in 2023 due to lead contamination and public safety issues. It is now listed on the Department of Ecology's Toxic Clean Up Site list. When sites are closed, it is often extremely challenging to keep them from being used, and the Department expends many resources fixing or replacing damaged gates and personnel time monitoring illegal use.

After decades utilizing this model, DNR would like the opportunity to try directing use to areas where we can provide safer alternatives.

**Which clientele would be impacted by the budget request?**

This request would provide a target shooting opportunities in Spokane County and the Olympic Peninsula and would likely serve Spokane, Stevens, Clallam, and Jefferson County residents. More broadly, this pilot range development will create a process for site development that DNR hopes to replicate in future locations statewide.

**Does this project or program leverage non-state funding? If yes, how much by source?**

Not currently.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

Unmanaged target shooting has several negative impacts on Department operations. In addition to public safety issues, concentrated shooting in DNR-managed rock pits, used for forest management activities, sometimes results in dangerous levels of lead contamination, which must be addressed and mitigated. For example, rocks from the pits are used in road construction and maintenance, which has the potential to disperse lead across the landscape. Therefore, contaminated pits cannot be used until cleaned up. This impacts state funding, Trust Beneficiary revenue, and has negative impacts on the environment.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

No.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

NA

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

NA

**How is your proposal impacting equity in the state?**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:40PM

Project Number: 40000413

Project Title: Recreational Target Shooting Pilot Sites

**Description**

This proposal will provide a safe target shooting option for residents on the Olympic Peninsula and in northeastern Washington. Robust community engagement will happen alongside site development plans to ensure that the Department is not exacerbating environmental harms, but rather mitigating them.

Is this project eligible for Direct Pay?

No.

Is there additional information you would like decision makers to know when evaluating this request?

No.

If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.

No.

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	900,000		100,000	800,000	
146-1	Firearms Range Acct-State	900,000		100,000	800,000	
<b>Total</b>		<b>1,800,000</b>	<b>0</b>	<b>200,000</b>	<b>1,600,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
146-1	Firearms Range Acct-State					

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:40PM

Project Number: 40000413

Project Title: Recreational Target Shooting Pilot Sites

**Funding**

Total	0	0	0	0
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**Operating Impacts**

No Operating Impact

**Narrative**

This project was originally funded alongside an operating request in the 2024 short session, which was titled "Designating Target Shooting on DNR-Managed Lands." The operating dollars fund new staff positions who will take the lead on site development, public outreach, and lead management, which will all be components of this project's success. Continuation of the operating funds are necessary to ensure the target shooting program continues after these pilot sites are developed.

**SubProjects**

SubProject Number: 40000421

SubProject Title: Olympic Region Target Shooting Range

Starting Fiscal Year: 2025

Project Class: Program

Agency Priority: 99

**Project Summary**

The Department of Natural Resources (DNR) does not have expertise in managing target shooting, yet target shooting is increasing on DNR-managed lands. The agency allows target shooting as a dispersed activity, however responsible shooters have few safe options that meet all current WACs. These factors result in concentrated shooting in DNR rock pits and trails, streams, and private property, putting lives at risk. To begin effectively managing target shooting, the first step is to develop two sites for piloting designated shooting ranges, which are in the Northeast and Olympic Regions.

**Project Description**

A&E costs for site analysis, design development, permitting, lead remediation, site construction, and improvements to designate one target shooting range in either Clallam or Jefferson County.

**Location**

City: Statewide

County: Statewide

Legislative District: 024

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:40PM

Project Number: 40000413

Project Title: Recreational Target Shooting Pilot Sites

**SubProjects**

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SubProject Number: 40000420

SubProject Title: Bulldog Target Shooting Range

Starting Fiscal Year: 2025

Project Class: Program

Agency Priority: 99

**Project Summary**

DNR does not have expertise in managing target shooting, yet target shooting is increasing on DNR-managed lands. The agency allows target shooting as a dispersed activity, however responsible shooters have few safe options that meet all current WACs. These factors result in concentrated shooting in DNR rock pits and accumulating lead pollution. The agency struggles to manage unsafe shooting near roads, trails, streams, and private property, putting lives at risk. To begin effectively managing target shooting, the first step is to develop two sites for piloting designated shooting ranges, which are in the Northeast and Olympic Regions.

**Project Description**

A&E costs for site analysis, design development, permitting, lead remediation, site construction, and improvements to designate one target shooting range in Spokane County.

**Location**

City: Deer Park

County: Spokane

Legislative District: 007

**Project Type**

Health, Safety and Code Requirements (Minor Works)

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This reappropriation request will fund the development of two designated target shooting ranges. The probable environmental benefits of these projects include reduced dispersed shooting in some areas, which is intended to reduce lead pollution and resource damage, and to improve public safety in DNR's Northeast Region and Olympic Regions. The potential environmental harm is increased noise from concentrated shooting activities at designated ranges. DNR intends to include overburdened and vulnerable communities in the outreach and community engagement work that will ultimately select sites. We also anticipate a robust public engagement process as sites are developed.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Per the Overburdened Communities of Washington State map, the two general locations identified for designated target shooting range development (Stevens County and either Clallam or Jefferson County) are in areas with significant overburdened populations. All funding from this request would be used to develop safer recreational target shooting opportunities that reduce environmental impacts.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

These projects are intended to reduce natural and cultural resource impacts as well as to improve public safety, both of which should be beneficial to Tribes. The two general locations

selected are likely to be of interest to Tribes with reservations and/or reserved rights in Northeast WA, and on the Olympic Peninsula. All Tribal nations will be consulted as these projects develop.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

DNR has been engaging with Tribes about Recreation Management both on a 1x1 basis, and as a member of the State-Interagency Recreation Impacts Initiative since spring of 2023. In those spaces, there has been significant two-way communication about the concerns of tribes and the need for robust and transparent notification about recreation projects to Tribal concerns can be taken into account at the beginning of a project.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

NA

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

NA

## Capital Sub-Projects 2025-27 Budget Request

**Total Request**  
**\$ 1,600,000**

**Capital Project Name:**  
**Project #:**

Recreational Target Shooting Pilot sites  
40000413

- Project Types
- 1: Health, safety & code req
  - 2: Facility preservation
  - 3: Infrastructure preservation
  - 4: Program

Sub Project Title Listed in Priority Order	Region	Nearest City	Lat/Long *	Leg Dist	Project Type	Estimated Total \$**	Notes
Bulldog Target Shooting Range	NE	Deer Park	48.102489, -117.641153	7	1	800,000	A&E costs for site analysis, design development, permitting, lead remediation and site construction and improvements to designate 1 target shooting range in Spokane County.
Olympic Region Target Shooting Range	OLY	TBD	TBD	24	1	800,000	A&E costs for site analysis, design development, permitting, lead remediation and site improvements to designate 1 target shooting range in either Clallam or Jefferson County
<b>Total</b>						<b>\$ 1,600,000</b>	

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:14PM

Project Number: 40000424

Project Title: YMCA Camp Colman Investments

## Description

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

In the 2024 Department of Natural Resources (DNR) Supplemental Budget, the Legislature provided \$3,670,000 to address erosion-related impacts at Camp Colman related to the removal of a tide gate and restoration of fish passage at Whiteman Cove. Camp Colman, run by the YMCA, provides outdoor access and environmental education to youth with a focus on Black, Indigenous, and Youth of Color. The appropriation would fund the design and construction of two cabins plus expanded septic system, and design and construction of ADA-compliant trails, and road improvements to allow for emergency service access. DNR, on behalf of YMCA, is requesting reappropriation of \$3,400,000.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

This request will reappropriate of \$3,400,000 to plan, design, and permit infrastructure and facilities at the YMCA-run Camp Colman.

Camp Colman has operated at the Whiteman Cove site since 1912, with the YMCA of Greater Seattle taking over management of the camp in 2000. YMCA programming at Camp Colman delivers outdoor access and environmental programs to over 2,500 children, teens, and families annually. In alignment with the YMCA's mission, the Camp places emphasis on providing access to outdoor spaces for Black, Indigenous, and People of Color (BIPOC) youth that traditionally face barriers to outdoor access. The work of the YMCA is additionally focused on ensuring culturally affirming and restorative practices at the Camp to ensure retention of BIPOC youth in education and recreational programs.

Whiteman Cove was created by the Washington Department of Fisheries in 1961, when a roadway berm closed the natural connection between the estuary and Case Inlet (on Puget Sound), creating a lagoon that the YMCA has used for boating and swimming activities for their campers. The tide gate creating the lagoon prevents passage of fish between bodies of water on the Key Peninsula and Case Inlet. Under the 2013 federal court ruling, *United States v Washington*, the State of Washington has an obligation under treaties with 21 tribes to protect and preserve tribal fishing rights. The obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures" (*United States v. Washington 2013*). The ruling required that fish passage at Whiteman Cove is re-established, so DNR is removing the tide gate to restore fish passage in accordance with this ruling.

As a result of the tide gate removal, Whiteman Cove will be reconnected to oceanographic influence from Case Inlet, affecting some infrastructure, facilities, and programming at Camp Colman. Risk of erosion due will require relocation or reconstruction of several youth cabins and a septic pump station. A consultant report outlining priority actions for the Camp (See figure 1. on attachment) was provided to the legislature in 2021, including an initial analysis of permitting pathways and design needs. Within the report, consultants identified potential development opportunities for the retooling and adaption of Camp Colman to the Whiteman Cove restoration.

The funds provided in the 2024 Supplemental Budget will continue the work outlined in the attached document.

#### What will the request produce or construct? When will the project start and be completed?

This \$3,400,000 reappropriation request will continue work previously funded by the legislature to plan, design, and permit infrastructure and facilities at Camp Colman. The 2024 Supplemental Budget appropriation was provided for DNR to contract

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:14PM

Project Number: 40000424

Project Title: YMCA Camp Colman Investments

## Description

with the YMCA of greater Seattle for the design and construction of two cabins; and the design and construction of ADA-compliant trails, and road improvements to allow for emergency service access, and an expanded septic system that serves the two cabins. The request will fund contracting expenses related to continued planning, design, permitting, and construction.

### How would the request address the problem or opportunity? What would be the result of not taking action?

The request will allow Camp Colman to continue to serve youth and families from across Washington, with an emphasis on providing outdoor access and environmental education to BIPOC youth. The reappropriation will allow the YMCA to continue making progress toward preservation of the Camp by continuing the planning, design, and permitting of the actions described above. The original funding request capitalized on the opportunity to promote the co-benefits of habitat restoration by demonstrating a successful private-public partnership between DNR and the YMCA. Successful removal of the fish passage barriers will uphold Tribal Treaty Rights, while simultaneous preservation of the Camp allows the public to recognize the value of environmental education. Without these actions, key facilities and infrastructure of the Camp could be impacted.

### What alternatives were explored? Why was the recommended alternative chosen?

DNR and the YMCA incorporated additional scope in the 2024 Supplemental Budget request including a new aquatics center, marine center, amphitheater, and dock. Only the components of the request directly related to infrastructure threatened by erosion were funded. Reappropriation is necessary to ensure continued camp operation and camper safety.

### Which clientele would be impacted by the budget request

This request directly supports the YMCA of Greater Seattle and its associated communities, most notably BIPOC youth who gain outdoor access and environmental education through the camp. Preservation of Camp Colman ensures the facility can continue to serve the 2500+ participants who use the camp annually to learn about natural resources and the outdoors. Continuation of services by Camp Colman is important for DNR's continuing commitment to environmental justice by ensuring equitable access for kids of color in culturally affirming settings.

### Does this project or program leverage non-state funding? If yes, how much by source?

The YMCA is contributing \$750,000 to cabin relocations and hopes to engage additional funding sources throughout the project.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

This request aligns with the agency mission to promote environmental justice, equitable outdoor access, and environmental education.

### Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.

Not applicable.

### If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda by continuing and promoting equitable access to opportunities for outdoor recreation and stewardship in concert with promotion of Tribal Treaty Rights.

The Influential Outcome directly advanced by this proposal is:

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:14PM

Project Number: 40000424

Project Title: YMCA Camp Colman Investments

**Description**

5.6 Ensure that the health of the human population of Puget Sound is improved in ecosystem conditions and vulnerable populations and underserved communities do not experience inequitable health outcomes

The Strategies, Actions, and Key Opportunities directly advanced by this proposal include:

Strategy 11: Effectively manage and control fecal pollution and disease-causing bacteria and viruses from small onsite sewage systems (OSS) and larger onsite sewage systems (LOSS). (ID #40)

Key opportunity: Ensure landowners have access to and are eligible for incentives, loans and other funding sources for OSS maintenance and upgrades.

Strategy 21: Increase access to and visibility of mental health connections to a healthy natural environment (ID # 158)

Key opportunity: Manage and preserve natural areas for stress reduction, motivation, and long-term place attachments

Key opportunity: Increase Park and open space access, especially for marine shorelines, for all people and communities

Strategy 22: Identify and fund removal of barriers resulting in the exclusion of people from participating in recreation and stewardship activities. (ID #160)

Key opportunity: Increase funding and support for community-based and local advocacy groups, in both urban and rural settings, that work directly with vulnerable populations and underserved communities

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Not applicable.

**How is your proposal impacting equity in the state?**

This proposal directly impacts equity across the state by allowing continuation of services at Camp Colman that serves BIPOC youth in a culturally affirming way. Preserving and improving facilities will allow Camp Colman to continue their mission to serve all youth. BIPOC youth see the largest gap in access to outdoor spaces in the United States. To overcome the barriers to access to Camp Colman's outdoor space, the YMCA provides a number of programs to assist participants in gaining access to the camp; offering subsidized pricing for all programs, offering financial assistance for those who need it, offering transportation to programs, as well as stocking commonly needed items at Camp Colman that people need for their outdoor experience; bedding, toiletries, flashlights, rain jackets, etc.

In addition to barriers to access, BIPOC youth are disproportionately suspended from educational programs, further impeding educational and outdoor access even if barriers to entry have been removed. Camp Colman has taken on these barriers and put into practice programs to not only lessen the number of BIPOC youth suspended from programs but create spaces where BIPOC youth experience belonging and connection while at Camp Colman. To overcome suspending a disproportionate number of BIPOC youth, Camp Colman has adopted restorative practices in all programs. Restorative practices consist of three pieces; community building, conflict resolution, and reflection. All programs have opportunities for participants to experience each of the three pieces. In practice, these steps are quite practical, participants participate in activities to help build community in their group; boating, traditional teambuilding, group games, etc. When conflict is experienced at Camp Colman, the parties are invited to participate in a conversation which focuses on what happened and how the parties can move forward positively together. At the end of the program day, participants are led through a reflection time to share with their group about the day and their experience. From 2021 to present Camp Colman has reduced the number BIPOC youth suspended from programs by 60% and reduced the overall suspensions by 40%, allowing more youth to have positive experiences in outdoor programs at Camp Colman.

**Is this project eligible for Direct Pay?**

Not applicable

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:14PM

Project Number: 40000424

Project Title: YMCA Camp Colman Investments

**Description**

**Is there additional information you would like decision makers to know when evaluating this request?**

This is one of two reappropriations request for 2025-27 and is the second request presented to the legislature in 2023-25 to fulfill preservation of Camp Colman. The YMCA of Greater Seattle anticipates additional forthcoming requests for other phases of the Camp Colman preservation project.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

Not applicable.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

Not applicable.

**Location**

City: Unincorporated

County: Pierce

Legislative District: 026

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	3,670,000		270,000	3,400,000	
	<b>Total</b>	<b>3,670,000</b>	<b>0</b>	<b>270,000</b>	<b>3,400,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

**Narrative**

N/A

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This budget request directly supports the Greater YMCA of Seattle and its associated communities, most notably BIPOC Youth who gain outdoor access and environmental education at Camp Colman. Preservation of Camp Colman ensures the facility can continue to serve the 2500+ participants who use the camp annually to learn about natural resources and the outdoors. Continuation of services by Camp Colman ensures equitable access for kids of color in culturally affirming settings.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Camp Coman is not located in an area defined in the OBC map as an overburdened community or vulnerable population; however, the funds do not only benefit those communities in the immediate vicinity. Camp Colman serves youth and families from across Washington, with an emphasis on providing outdoor access and environmental education to BIPOC youth.

Black, Indigenous, and People of Color (BIPOC) see the largest gap in access to outdoor spaces in the United States. To overcome the barriers to access to Camp Colman's outdoor space, the YMCA provides a number of programs to assist participants in gaining access to the camp; offering subsidized pricing for all programs, offering financial assistance for those who need it, offering transportation to programs, as well as stocking commonly needed items

at Camp Colman that people need for their outdoor experience; bedding, toiletries, flashlights, rain jackets, etc.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Under the 2013 federal court ruling, *United States v Washington*, the State of Washington has an obligation under treaties with 21 tribes to protect and preserve tribal fishing rights. The obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures" (United states v. Washington 2013). The ruling required that fish passage at Whiteman Cove is re-established, and DNR is removing the tide gate to restore fish passage in accordance with this ruling. As a result of the tide gate removal, Whiteman Cove will be reconnected to oceanographic influence from Case Inlet. Risk of erosion will require relocation or reconstruction of several youth cabins and a septic pump station. Successful removal of the fish passage barriers will uphold Tribal Treaty Rights, while simultaneous preservation of the Camp allows the public to recognize the value of environmental education.

The plan includes a future vision for Camp Colman centered around environmental education, experiential learning, Pacific Northwest history, salmon lifecycles, marine ecosystems, shellfish, climate change, and the Coast Salish People, Squaxin Island Tribes and other northwest indigenous cultures. The restoration of Whiteman Cove presents an incredible learning opportunity to be an endless source of adventure and inquiry for summer campers and guests year-round.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Community, Tribal, and regulatory input was considered during alternatives analysis for the Whiteman Cove estuary reconnection design. Impacts to Camp Colman and potential preservation actions were considered during the planning for Whiteman Cove restoration. Tribal outreach for the proposed actions will occur during the planning and design phase funded under this proposal.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not applicable.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.



December 13, 2021

Dear Members of the Washington Legislature,

Thank you for providing funding in the 2021-2023 Capital Budget for the YMCA of Greater Seattle to collaborate with the Squaxin Island Tribe and the Washington Department of Natural Resources in creating a plan to preserve and enhance the YMCA's Camp Colman while DNR moves forward with the restoration of the Whiteman Cove saltwater estuary.

*The Capital Budget provided (1) \$100,000 for DNR to contract with a third party facilitator for the purpose of collaborating with the YMCA on finding solutions for maintaining a high-quality camp experience while establishing a barrier-free passage for migrating fish species at Whiteman Cove, (2) \$500,000 for DNR to grant to the YMCA to retain expertise to scope, plan, and advance the future of the Camp Colman experience given the restoration of the Whiteman cove estuary and (3) \$300,000 for DNR to design the fish blockage removal and predesign enhancements for a new bridge and roadway across Whiteman Cove that are part of the fish blockage removal project and necessary as part of maintaining the route as access to the camp, taking into consideration the means to maintain continuous road access to Camp Colman for campers and camp staff without disruption, ensure the continuation, mitigation and innovation of Camp Colman's recreational, water safety, and environmental education programs in the saltwater estuary, and maintain the critical outdoor experiences for historically marginalized and underrepresented communities..*

*The Capital Budget further required that "the planning process should be inclusive of tribal input, with an open invitation for their participation, and must include department technical experts, participation from the departments of ecology and fish and wildlife, and any other resources needed. The plan should include a vision for how the cove can be returned to a fully functioning estuary, benefiting native flora and fauna, as well as serve as an environmental outdoor educational opportunity that will serve youth and families, especially those from historically marginalized and underrepresented communities, and include educational opportunities for youth and families to learn of native cultural heritage unique and specific to the natural and human history of the site. The plan must identify specific projects and estimated costs, given estuary restoration, for physical improvements for the camp, such as water access structures or swimming facilities, with recommendations for funding."*

*DNR, on behalf of the YMCA, was required to submit a report on these efforts to the fiscal committees of the Legislature by December 31, 2021.*

To meet the deadline established by the legislature, this preliminary report and the underlying study have been undertaken without the benefit of the design of the fish blockage removal and predesign enhancements for a new bridge and roadway across Whiteman Cove being completed. Additional planning and costs may be required depending on the nature of these final designs and enhancements.

The YMCA has been working with DNR, the Squaxin Island Tribe, Herrera Environmental Consultants, and community volunteers to study the impacts of the Whiteman Cove restoration project on Camp Colman and to identify costs associated with adapting the camp property and programs. Attached is the Executive Summary report of the preliminary findings of Herrera Environmental Consultants.

This report confirms that the restoration project will have significant impacts on the campsite and programs, in particular the water-based experiences. The report describes the investments that will be required to protect the integrity of the slopes, to relocate buildings and structures that will be compromised by the changing water levels, and to adapt the programs in the newly restored environment. The report estimates the cost of

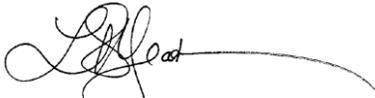
adapting the camp to be approximately \$15M. The Y plans to use the remaining funds from the 2021-2023 Capital Budget for additional studies and assessments necessary to fully understand the scope and needs of the project. (Reference Table 2 of Executive Summary).

This project has the potential to be a model for collaboration between parties in large-scale restoration projects. The YMCA's environmental education programs will be richer by the collaboration among DNR, the Squaxin Island Tribe, and the YMCA. This site will offer unique environmental education curricula that celebrates the history and culture of the original inhabitants of the land. Your investment in this project will yield results that are greater than the sum of their parts.

We thank you for helping us to participate in this important restoration project. With your continued support, we will ensure that generations of Washington youth continue to have opportunities to develop their fullest potential in spirit, mind, and body at Camp Colman.

For additional questions and information, please contact Gwen Ichinose-Bagley at [gbagley@seattleyymca.org](mailto:gbagley@seattleyymca.org).

In Community,

A handwritten signature in black ink, appearing to read 'Loria B. Yeadon', with a long horizontal flourish extending to the right.

Loria B. Yeadon, President & CEO  
YMCA of Greater Seattle

CC:

Alex Smith, Deputy Supervisor, Aquatic Resources, DNR

Kristen Swindoll, Assistant Division Manager, Aquatic Resources, DNR



**DEPARTMENT OF  
NATURAL RESOURCES**

**OFFICE OF THE COMMISSIONER OF PUBLIC  
LANDS**

1111 WASHINGTON ST SE MS  
47001  
OLYMPIA, WA 98504-7001

December 30th, 2021

The Honorable Bernard Dean  
Chief Clerk of the House  
338B Legislative Building  
Olympia, WA 98504

The Honorable Brad Hendrickson  
Secretary of the Senate  
412 Legislative Building  
Olympia, WA 98504

RE: Budget Proviso and Whiteman Cove Report on Progress

Dear Chief Clerk Dean and Secretary Hendrickson:

Please accept the enclosed report, submitted on behalf of Department of Natural Resources (DNR), as directed by the Legislature in the Sec. 3332 of the 2021-2023 Capital Budget (SHB 1080, Chapter 332, Laws of 2021). The capital budget provides an appropriation to DNR to grant funding to the YMCA of Greater Seattle (YMCA) and a requirement to submit a report to the legislature by December 31<sup>st</sup>, 2021 on how the funds have been spent. The report is attached.

The funds are for the YMCA to retain expertise to plan for the future of their Camp Colman on the Key Peninsula, given the expected physical changes resulting from the removal of the fish passage barrier on Whiteman Cove. Following the removal of the fish barrier, the cove will no longer function as a lagoon and instead will be a full functioning estuary, supporting fish habitat. This action to remove the fish barrier will also ensure DNR is brought into compliance with a federal court injunction related to tribal treaty rights.

The cove was created when a roadway berm closed the natural connection between the estuary and Case Inlet (on Puget Sound), over 50 years ago, creating a lagoon that the YMCA has used for boating and swimming activities for their campers. The YMCA camp facilities and educational programs will need to be adapted and redesigned when the barrier is removed. The budget proviso reads:

*(2) \$500,000 is provided solely for the department to grant to the YMCA of greater Seattle to retain expertise to scope, plan, and advance the future of the Camp Colman experience given the restoration of the Whiteman cove estuary. The planning process should be inclusive of tribal input, with an open invitation for their participation, and must include department technical experts, participation from the departments of ecology and fish and wildlife, and any other resources needed. The plan should include a vision for how the cove can be returned to a fully functioning estuary, benefiting native flora and fauna, as well as serve as an environmental outdoor educational opportunity that will serve youth and families, especially those from historically marginalized and underrepresented communities, and include educational*

*opportunities for youth and families to learn of native cultural heritage unique and specific to the natural and human history of the site. The plan must identify specific projects and estimated costs, given estuary restoration, for physical improvements for the camp, such as water access structures or swimming facilities, with recommendations for funding. The department, on behalf of the YMCA, must submit the plan in a report to the fiscal committees of the legislature by December 31, 2021.*

DNR entered into a contract with the YMCA for the fund transfer in July of 2021. The YMCA then contracted with a third party consultant to begin planning a new vision for how the estuary can work in tandem with a revised curriculum and environmental education opportunities. The report DNR is submitting today was developed by the YMCA and their consultants, and is an initial planning effort, with identification of the primary components of the YMCA's long term plan for Camp Colman. The YMCA spent \$95,000 of the \$500,000 appropriation to develop this plan and will spend the remaining resources in 2022-23 to complete their project proposal and preliminary design. DNR will continue to work with the YMCA in 2022-23 for continued planning and use of these funds to support that work. The YMCA report identifies additional funding needed to initiate their design work in 2022-23. Please see the attached report.

In the meantime, DNR has continued work on the design and permitting of the fish barrier removal work. The legislature appropriated \$300,000 to continue this work in 2021-23. After discussions this past summer and fall with the YMCA, DNR has concluded it is appropriate and necessary to also remove a second fish barrier located on the YMCA property that was installed by the Department of Fish and Wildlife in 1961. DNR also supports the request by the YMCA to regrade the road over the berm to function in conjunction with the road/bridge work proposed for state owned aquatic lands. As a result of these design changes, DNR is requesting an additional \$150,000 to complete the final design and permitting. Note that DNR received \$100,000 this biennium to facilitate meetings between DNR and the YMCA. \$80,000 of those funds will not be needed and we request they be re-appropriated to support the additional \$150,000 design work.

Finally, we wish to share that DNR will be requesting funds in 2023-25 for construction of the barrier removal, the new bridge and associated estuary restoration, at the same time the YMCA will be submitting their capital request for modifications to Camp Colman. We anticipate DNR will be requesting \$4.2M to \$5.0M, but that is an early estimate and subject to change as final design work and estimates are developed this winter. See table of estimates below.

5As noted in the attached report, the YMCA will be requesting \$7.7M to \$15.0M to implement the provisions of the attached report. Together, these funds will ensure the state removes the fish barrier and restores the lagoon to a fully functioning estuary, provides continued access to the YMCA camp via a new bridge with minimal disruption to the neighbors, and enables the YMCA to continue to provide important water safe recreational facilities for their campers and an outdoor educational experience that reflects the new changes in Whiteman Cove. For additional details on the YMCA's proposal, please see the attached executive summary and report.

Estimates for DNR construction for 2023-25

Item	2020 Estimate	Escalation to 2023 <sup>1</sup>	Escalation to 2024 <sup>2</sup>
Excavate Channel and Place Material On Site	\$360,000	\$523,710	\$549,896
Roadway Improvements	\$140,000	\$203,665	\$213,848
Bridge Superstructure and Foundations	\$1,240,000	\$1,803,890	\$1,894,085
Tide Gate Demolition x2	\$100,000	\$145,475	\$152,749
Elevate Roadway 3 feet	\$126,600	\$184,171	\$193,380
Utility Relocation	\$100,000	\$145,475	\$152,749
Planting	\$20,000	\$29,095	\$30,550
<i>Subtotal</i>	\$2,086,600	\$3,035,481	\$3,187,255
<i>Mobilization (10%)</i>	\$208,660	\$303,548	\$318,726
<b>Subtotal</b>	\$2,295,260	\$3,339,029	\$3,505,981
<b>Low (25% Contingency)</b>	\$2,869,075	<b>\$4,173,787</b>	<b>\$4,382,476</b>
<b>High (40% Contingency)</b>	\$3,213,364	<b>\$4,674,641</b>	<b>\$4,908,373</b>

Notes:

- 1) Assumes 15% escalation for years 2021 and 2022, 10% escalation for year 2023
- 2) Assumes an additional 5% escalation for year 2024

Should you have any questions, please contact me at 360-486-3469 or [Brian.Considine@dnr.wa.gov](mailto:Brian.Considine@dnr.wa.gov)

Sincerely,



Brian Considine  
 Legislative Director  
 Office of the Commissioner of Public Lands

Enclosure: Legislative Report – Camp Colman Conceptual Development Plan, Longbranch, Washington; YMCA of Greater Seattle Letter to Washington Department of Natural Resources.

cc: Members of the House Capital Budget Committee  
Members of the Senate Ways & Means Committee  
Members of the House Appropriations Committee  
Gwen Ichinose Bagley, Youth Development Officer; YMCA of Greater Seattle  
Alex Smith, Deputy Supervisor of Forest Resilience & Aquatics  
Ray Peters, Intergovernmental Tribal Liaison, Squaxin Island Tribe



December 17, 2021

Gwen Ichinose-Bagley  
Meredith Cambre  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, Washington 98104

Subject: Camp Colman Conceptual Development Plan, Longbranch, Washington

Dear Gwen Ichinose-Bagley and Meredith Cambre:

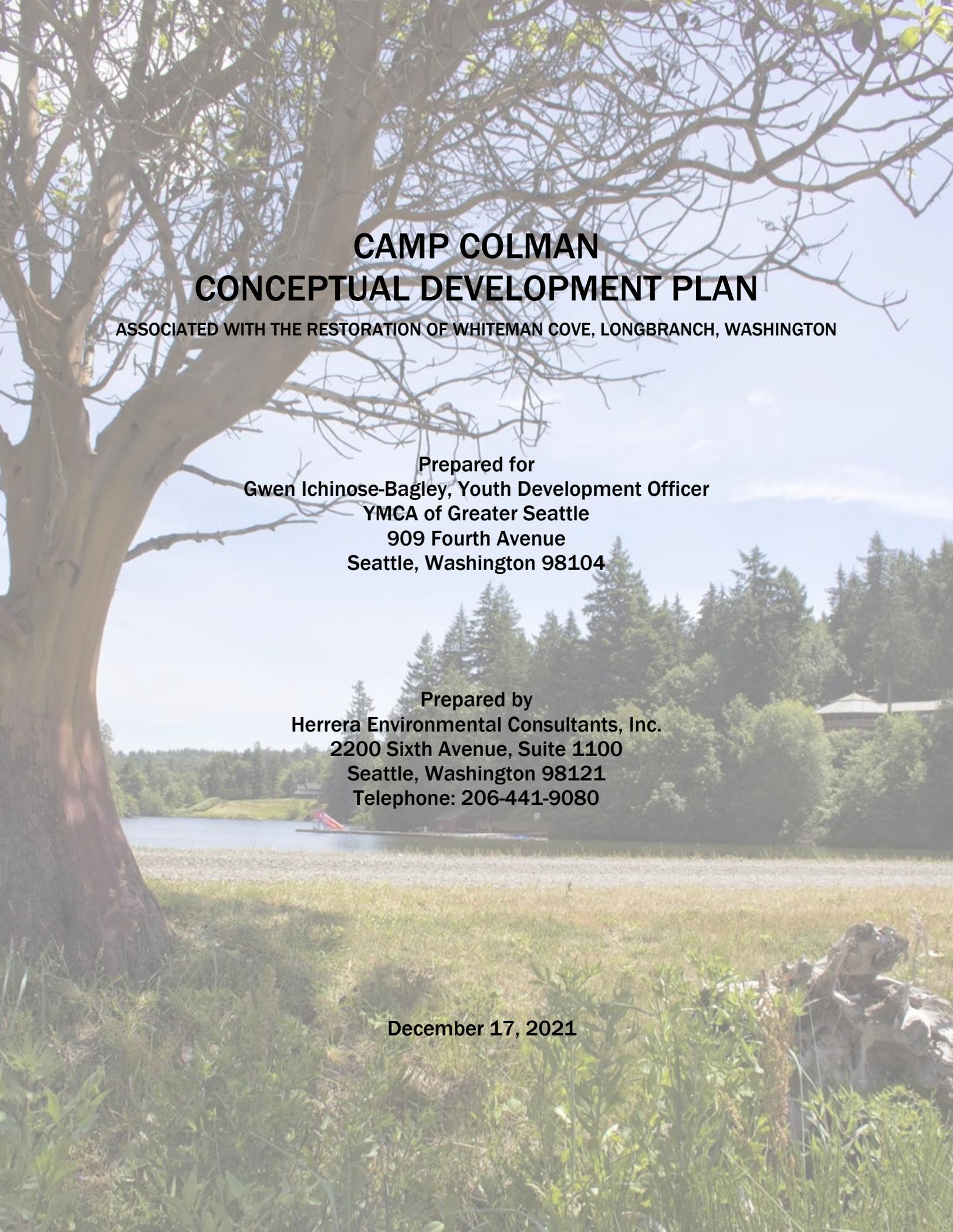
The Herrera team has evaluated a range of recommended actions for Camp Colman in response to the WDNR Restoration of Whiteman Cove. The recommended actions were identified based on our earlier assessment of risks to the Camp Colman property, meetings with YMCA staff, and the Needs Assessment provided by Kaleidoscope. Each opportunity was evaluated, described in concept, and includes additional supporting information relevant to your consideration and future planning for the Camp.

Sincerely,

Herrera Environmental Consultants, Inc.

Andrea MacLennan, MS  
Senior Coastal Geomorphologist





# **CAMP COLMAN CONCEPTUAL DEVELOPMENT PLAN**

**ASSOCIATED WITH THE RESTORATION OF WHITEMAN COVE, LONGBRANCH, WASHINGTON**

**Prepared for  
Gwen Ichinose-Bagley, Youth Development Officer  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, Washington 98104**

**Prepared by  
Herrera Environmental Consultants, Inc.  
2200 Sixth Avenue, Suite 1100  
Seattle, Washington 98121  
Telephone: 206-441-9080**

**December 17, 2021**

## EXECUTIVE SUMMARY

The Washington State Department of Natural Resources (WDNR) plans to conduct a large-scale restoration of the historical tidal channel that blocked tidal flow and fish passage between Case Inlet and Whiteman Cove. This restoration will enable the State of Washington to meet the needs of the 2013 federal court ruling *United States v Washington*, and the State of Washington's obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights, including tide gate removal and restoration. WDFW installed tide gates and impounded the Whiteman Cove lagoon to develop a fish hatchery in the 1960s. The tide channel was filled, and tide gates were installed on the road resulting in a fish-passage barrier and conversion of the Whiteman Cove tidal embayment to a high-water saline lake. The YMCA of Greater Seattle's (GS YMCA) Camp Colman is located along the southwest shore of Whiteman Cove, which hosts an extensive aquatics program featuring swimming, small boat use, and general waterplay on the warm-lake-like waters of Whiteman Cove as a central feature of the Camp's identity and recreational amenities for the last several decades.

The GS YMCA contracted Herrera Environmental Consultants, Inc. (Herrera) to evaluate how the restoration will impact camp properties, and the scope, scale, and approximate cost of measures to mitigate these impacts and enhance related opportunities. Restored tidal flushing within Whiteman Cove will result in lower water levels within the Cove (lower than the static high-water level) approximately 80 percent of the time (Figure ES-1). The other 20 percent of the time, water levels within Whiteman Cove will be higher, with effects on surrounding infrastructure, access, and natural processes.



**Figure ES-1. Gangway, Decking, and Access Stairs Will Need to be Rebuilt to Accommodate Restored Water Level.**

Several actions that are presented and described in this report were developed based on current project understanding and available information, and as such they vary in the level of detail of the underlying assumptions and thus the degree of accuracy of the costs. Some of the opportunities are more specific and are based on a well-defined approach, while others are based on some high-level assumptions that need a significant amount of additional study.

Risks to Camp Colman associated with the restoration were broadly categorized as risks from either flooding or erosion resulting from the restored tidal flow in Whiteman Cove. These risks are described in detail in the Task 2 Risk Report, provided in Appendix B. The initial impacts to Whiteman Cove include inundation and potential erosion of the coastal path that extends along the southwest shore of Whiteman Cove, the historical marine science center, and the aquatics program area. Eventually, the coastal road will be breached by waves, which could contribute additional erosion of the shoreline. Areas at risk of erosion within Whiteman Cove were identified by evaluating slope, geology, and site topography (Figure ES-2). Erosion hazard areas are primarily along the south face of the bluffs (within Whiteman Cove) where the slope gradient is highest, and along some areas of the spit. The most concerning areas at risk of erosion include the locations near cabins; the access stairway and ramp to the aquatics area; and the firepit area, which has a very steep drop off, the toe of which will be inundated with tidal waters following restoration.



**Figure ES-2. Existing Concrete Anchors Used to Secure the Lagoon Dock.**

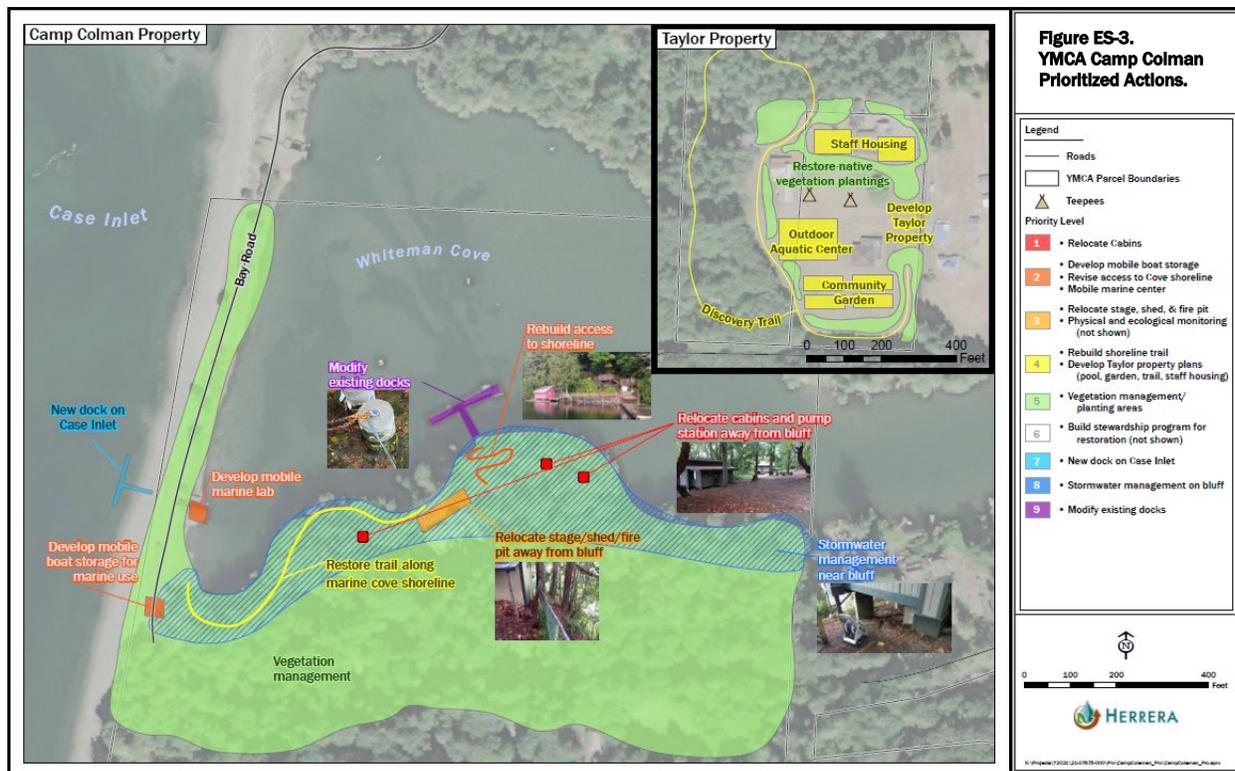
GS YMCA will need to outline a future vision for Camp Colman that is centered around environmental education and make several key decisions associated with revised camp programming to optimize this environmental education opportunity and a unique identity for Camp Colman. One of the key questions is, “How to reimagine the aquatics program, which has been at the heart of Camp Colman for decades and is central to the Camp’s identity?”

The Camp Colman master site plan should be updated to prioritize locations for new facilities and to further elucidate the new vision for Camp Colman. Other key decisions include:

1. Abandon or adopt aquatics program within Whiteman Cove lagoon,
2. Abandon or revise current access to Whiteman Cove lagoon,

3. Revise the aquatics program to be centered around the Case Inlet shoreline, and/or
4. Focus aquatics program on the Taylor property.

The list of development opportunities was evaluated and prioritized to guide the Greater Seattle YMCA through the complex decisions necessary to retool and adapt Camp Colman to the Whiteman Cove restoration (Figure ES-3). A qualitative scoring criteria was developed that considers mitigating erosion or flood risk, enhancement of camper experience, environmental educational opportunities, feasible costs, whether an opportunity will be possible to permit, and the degree to which the opportunity would add value to Camp investments. Each opportunity was evaluated and ranked. The list of priority actions is ranked from most important to less important actions for Camp Colman. Each action is fully described in the report and includes cost estimates that address permitting and construction.



**Figure ES-3. YMCA Camp Colman Prioritized Actions.**

Actions and investments should be preceded by a suite of recommended supporting investigations, which are also more fully described in the text. These supporting investigations will help in the development of more precise cost estimates and informed decision making for the GS YMCA and Camp Colman (Table ES-1).

<b>Table ES-1. Recommended Supporting Investigations and Cost Estimates.</b>	
<b>Recommended Supporting Investigations</b>	<b>Cost</b>
Stewardship Program Development Consultation	\$15,000
Geotechnical Assessments	\$50,000
Comprehensive Vegetation, Stormwater, and Trail Management Plan	\$90,000
Taylor Property Pre-Design Study	\$250,000
<b>Total</b>	<b>\$405,000</b>

The actions that were identified and described (in the report) address various types of needs for Camp Colman resulting from the WDNR Restoration. These actions range from revised shoreline access, to moving at-risk camp infrastructure, and reformatting general YMCA camp programming. The bulk of the costs are associated with adapting Camp Colman infrastructure to the changing conditions resulting from the restoration, including replacing the loss of the aquatics program (Table ES-2). The cost of reconfiguring camp access to the marine shoreline was also considerable. Mitigating risk and focused investment in YMCA programming were the least cost-intensive actions (Table ES-2). Fire Suppression (up to \$1,300,000) and Contingency Funds for potential compensatory mitigation that may be required to implement these actions (up to \$500,000) were also included as they represent large costs that will be required by the GS YMCA because of the WDNR restoration of Whiteman Cove.

<b>Table ES-2. Cost Estimates by Type of Action.</b>		
<b>Cost Type</b>	<b>Minimum</b>	<b>Maximum</b>
Mitigate Risk	\$460,000	\$1,670,000
Access	\$1,808,000	\$3,444,000
Infrastructure	\$4,984,000	\$9,175,000
YMCA	\$125,000	\$175,000
Contingency Funds	\$300,000	\$500,000

The current cost estimates (Table ES-3) reflect a general range based on Herrera’s existing understanding of the YMCA’s values and objectives and the Camp Colman properties. However, these costs are estimates; and their accuracy is variable, largely due to the clarity and finality of decisions and supporting information relevant to the action. These costs also do not account for all land use and permitting requirements that may be triggered by developments.

**Table ES-3. Costs and Types of Priority Actions Recommended for Camp Colman.**

Priority Actions	Type	Design + Permit + Build	
		Cost Low	Cost High
Relocate Cabins and Septic Pump Station	Mitigate Risk	\$400,000	\$1,500,000
Fire Suppression (required to meet fire code for relocation of cabins)	Infrastructure	\$1,000,000	\$1,300,000
Modify Shoreline Access to Whiteman Cove	Access	\$113,000	\$345,000
Remove Existing Boat House; Replace with Mobile Boat Storage	Infrastructure	\$38,000	\$75,000
Develop Mobile Marine Center and Truck	Infrastructure	\$195,000	\$220,000
Construct New Marine Education Center	Infrastructure	\$1,000,000	\$2,000,000
Relocate Firepit, Stage, and Storage Shed	Mitigate Risk	\$48,000	\$105,000
Develop and Implement Physical and Ecological Monitoring Program	YMCA	\$45,000	\$95,000
Rebuild Trail Along Whiteman Cove Shoreline	Access	\$87,000	\$309,000
Implement Plans for Taylor Property	Infrastructure	\$2,500,000	\$5,000,000
Vegetation Management	Mitigate Risk	\$12,000	\$65,000
Build Stewardship Program/Curriculum	YMCA	\$80,000	\$80,000
Stormwater Management	Infrastructure	\$143,000	\$240,000
Modify Existing Dock/Aquatics Program Center	Infrastructure	\$108,000	\$340,000
Construct New Dock on Case Inlet	Access	\$1,608,000	\$2,790,000
Contingency Funds <sup>a</sup>	Access	\$300,000	\$500,000
<b>Total</b>		<b>\$7,677,000</b>	<b>\$14,964,000<sup>b</sup></b>

<sup>a</sup> Funding needed to mitigate impacts derived from different actions.

<sup>b</sup> This cost estimate is in 2021 dollars.

In total, the cost of all actions will range from \$7,677,000 to \$14,964,000 (in 2021 dollars), not including the recommended supporting investigations. Additional funds will be required in the 2022–2023 supplemental budget prior to the restoration implementation, which is planned for summer of 2023.

Funding requests for the future have been escalated to reflect the use of 2021 dollars in the development of cost estimates. The escalation rate applied was 4 percent per year and was applied only to the data summaries in which the biennium requests are noted. For all funding requests we recommend requesting the upper end of the range since all actions are merely design concepts and additional unexpected costs will undoubtedly occur.

Based on this analysis, the coarse status of these actions, Camp Colman’s operating needs, the timeline of the WDNR restoration, and the quick timeline in which these estimates were requested, Herrera recommends that the GS YMCA request a total of \$1,406,080 from the 2022–2023 supplemental budget, and \$13,645,230 from the 2023–2025 biennium capital budget, to support the GS YMCA and Camp Colman adapting in response to the WDNR Whiteman Cove restoration (Table ES-4).

<b>Table ES-4. Cost Estimates and Timeline.</b>		
<b>Timelines</b>	<b>Actions</b>	<b>Cost</b>
Proviso/Current	Recommended Supporting Investigations: Stewardship Program Development; Geotechnical Assessments; Comprehensive Vegetation, Stormwater, and Trail Management Plan. Not to exceed the \$500,000 allotted within the Proviso.	\$405,000
Supplemental Budget 2022–2023	Fire Suppression	\$1,406,080
Needs for 2023–2025 Capital Budget	Relocate At Risk Cabins and Septic Pump, Remove Boat House and Replace with Trailer and Upland Boat Storage, Relocate Firepit, Stage and Shed, Modify Existing Dock/Aquatics Program, Implement Plans for Taylor Property, Build Stewardship Program/Curriculum, Modify Shoreline Access to Whiteman Cove, Develop Mobile Marine Center and Truck, Develop and Implement Physical and Ecological Monitoring Program, Rebuild Trail along Whiteman Cove Shoreline, Vegetation Management, Stormwater Management, Construct New Marine Education Center, Construct New Dock on Case Inlet, Contingency Funds	\$13,645,230

## INTRODUCTION

The YMCA of Greater Seattle contracted Herrera Environmental Consultants, Inc. (Herrera) to assess the YMCA Camp Colman properties at Whiteman Cove, located along the northeast shore of Case Inlet in Pierce County, Washington. The purpose of the study is to better understand the character of changes that may take place because of the Washington State Department of Natural Resources (WDNR) planned restoration of tidal flow into the embayment, how those changes will impact the camp properties, and the scope, scale, and approximate cost of measures to mitigate these impacts.

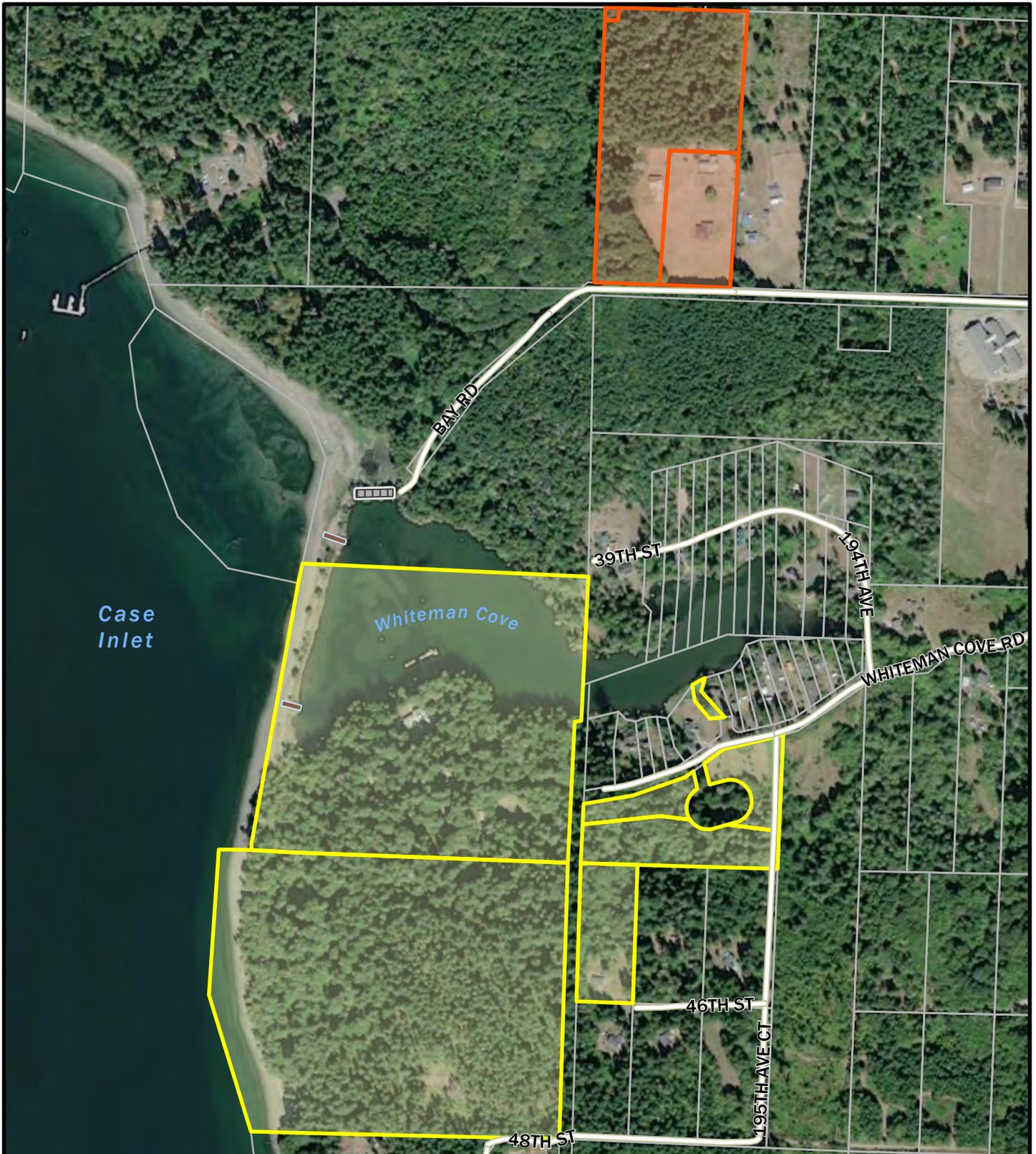
This study contains summary of relevant background conditions at the site, a review of the proposed tidal flow restoration project, a discussion of the risks associated with the landscape changes resulting from the restoration project, and a prioritized list of recommended opportunities for action and additional studies to refine the understanding of the risks and mitigation opportunities for Camp Colman.

The opportunities that are presented in this report were developed based on current project understanding and available information and as such they vary in the level of detail of the underlying assumptions and thus the degree of accuracy of the costs. In developing the opportunities Herrera has a bias for being more inclusive of possible required mitigation opportunities rather than limiting this study only to those that were well understood. Thus, some of the opportunities are more specific and are based on a well-defined approach, while others are based on some high-level assumptions that need a significant amount of additional study.

## BACKGROUND

YMCA Camp Colman is located along the south shore of Whiteman Cove, on northeast Case Inlet, in Pierce County, Washington (Figure 1). The WDNR plans to conduct a large-scale restoration of the historical tidal channel that once connected Case Inlet and Whiteman Cove, which was blocked in 1962. Bay Road now runs across the filled tidal channel, which provides the primary vehicular access to YMCA Camp Colman. Restoration of tidal flow will result in inherent changes to the Camp Colman property including areas of increased flooding and erosion, as well as unique opportunities for environmental education and stewardship.

Under the 2013 federal court ruling *United States v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at “dams, culverts, tide gates, dikes, and other instream structures” (*United States v. Washington* 2013). In accordance with the ruling, WDNR is seeking to remove the tide gate under state ownership at Whiteman Cove and restore fish passage between Whiteman Cove and Case Inlet (WDNR 2021).

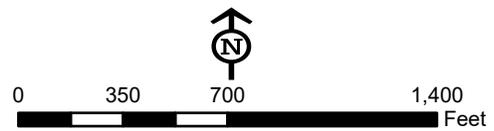


**Legend**

-  Roads
-  Proposed Bridge
-  Existing Tide Gates
-  Pierce County Tax Parcels
-  YMCA Camp Colman Properties
-  YMCA Camp Taylor Properties



**Figure 1. Whiteman Cove, Camp Colman, and Camp Taylor Vicinity Map.**



## CURRENT CAMP USE

Primary site uses at Camp Colman center around recreation and education in the existing Whiteman Cove saltwater lagoon. This includes swimming and watercraft use of the lagoon by various user groups (child/youth recreation, all-ages outdoor education, organizational retreat groups, etc.). It is anticipated that restored tidal flushing will result in a natural tidal regime Whiteman Cove, in which water levels are currently held near mean higher high water. As a result of the restoration, the available times and areas in which Whiteman Cove is accessible for recreation and education activities will be significantly reduced, which will require Camp Colman to reconfigure a central part of the Camp Colman camper experience and camp identity, the aquatics program. A needs assessment describing current uses, anticipated impacts, recommended actions, and opportunities for new program growth and site utilization is included in Appendix A.

## SUMMARY OF RISKS DUE TO WHITEMAN COVE RESTORATION

Risks to Camp Colman associated with the restoration were evaluated and broadly categorized as risks from either flooding or erosion resulting from the restored tidal flow in Whiteman Cove. These risks are described in detail in the Task 2 Risk Report, provided in Appendix B, and briefly summarized below.

### Areas at Risk of Flooding

The initial impacts to Whiteman Cove include inundation and potential erosion of the coastal path that extend along the southwest shore of Whiteman Cove, the historical marine science center, and the aquatics program area. Eventually the coastal road will be breached by waves, which could contribute additional erosion of the shoreline. Adding elevation to Bay Road is a key element of the bridge restoration design, which should occur along the full extent of the road to preserve access to Camp Colman.

### Areas at Risk of Erosion

Areas at risk of erosion within Whiteman Cove were identified by evaluating slope, geology, and site topography. Erosion hazard areas are primarily along the south face of the bluffs (within Whiteman Cove) where the slope gradient is highest, and along some areas of the spit. The most concerning areas at risk of erosion include the locations near cabins, the access stairway and ramp to the aquatics area, and the firepit area, which has a very steep drop off that will soon be inundated with tidal waters.

## CAMP COLMAN OPPORTUNITIES

Appendix A outlines a future vision for Camp Colman centered around environmental education, experiential learning, Pacific Northwest history, salmon lifecycles, marine ecosystems, shellfish, climate change, and the Coast Salish People, Squaxin Island Tribes and other (northwest) indigenous cultures. The restoration of Whiteman Cove presents an incredible learning opportunity to be an endless source of adventure and inquiry for summer campers and guests year-round including students and families.

The Greater Seattle YMCA can recreate Camp Colman's identity in alignment with this vision. YMCA leaders will need to answer the following questions to recreate the Camp's identity:

- How to reimagine the aquatics program, which has been at the heart of Camp Colman for decades?
- How to distinguish this YMCA summer camp?
- How to distinguish this Outdoor Educational Experience (OEE) from other OEE centers?
- How to appeal to retreat groups?

The Camp Colman master site plan should be updated to prioritize areas in which new facilities should be located and to further elucidate the new vision for Camp Colman.

Each of the new and revised camp developments described in this document will require additional analysis to identify exact locations and specifications relevant to the successful implementation of each project, such as capacity targets, which may have implications on the cost estimates included herein.

## KEY DECISION POINTS FOR YMCA

One of the most critical decisions that the YMCA must make is whether to continue their aquatics program on the Whiteman Cove shoreline, adapt the program to the Case Inlet shoreline, refocus swimming activities on new developments on the Taylor Property, or some combination of these three options. A pre-design study of the Taylor property should be conducted to fully understand the site's potential, necessary developments to support an aquatics program, and to establish accurate cost estimates to reach these goals.

The existing infrastructure associated with both shoreline access to Whiteman Cove lagoon and the aquatics program will no longer be functional in the restored conditions and should be salvaged prior to restoration implementation. Shoreline access to Whiteman Cove from within Camp Colman will need to be adapted to restored shoreline conditions both alongshore and

from the uplands to the shoreline. Access for campers and guests with disabilities could also be accommodated during this period.

There will be a time during which access to the lagoon should not be permitted by campers. During construction and through the first year or two following restoration, conditions will be changing and somewhat uncertain within the lagoon. The level of uncertainty could result in unexpected risks to campers. After a couple of winter seasons, physical conditions within the restored tidal channel and lagoon will reach a new dynamic equilibrium and exploring the lagoon shoreline will be safe again for campers. Camp Colman staff should be trained in how to read the tide charts for within the lagoon and waterward shoreline, predict when strong currents may occur in the tidal channel, and outline additional safety concerns in the restored tidal environment.

It will not be possible for the current aquatics program to resume within the Cove. However, a revised program could be developed that works with the restored conditions. The revised program would be inherently different and may not require docks and boat storage within the Cove. If docks are desired within the Cove they would need to be attached to piles and better anchored to the shoreline, to rise and fall with the fluctuating water levels.

Alternatively, the revised aquatics program could be centered around access to the Case Inlet shoreline. Investments could instead be focused on boat storage and access to the Case Inlet shoreline. Boats would need to be transported considerable distances across the tide flats to access the water during low tides (most frequent conditions during the day in the summer). A pier could facilitate access to the marine shoreline and perhaps boat storage, however permitting large new overwater structures in the current regulatory environment is far from simple and often takes years of preliminary assessments and permitting with considerable cost.

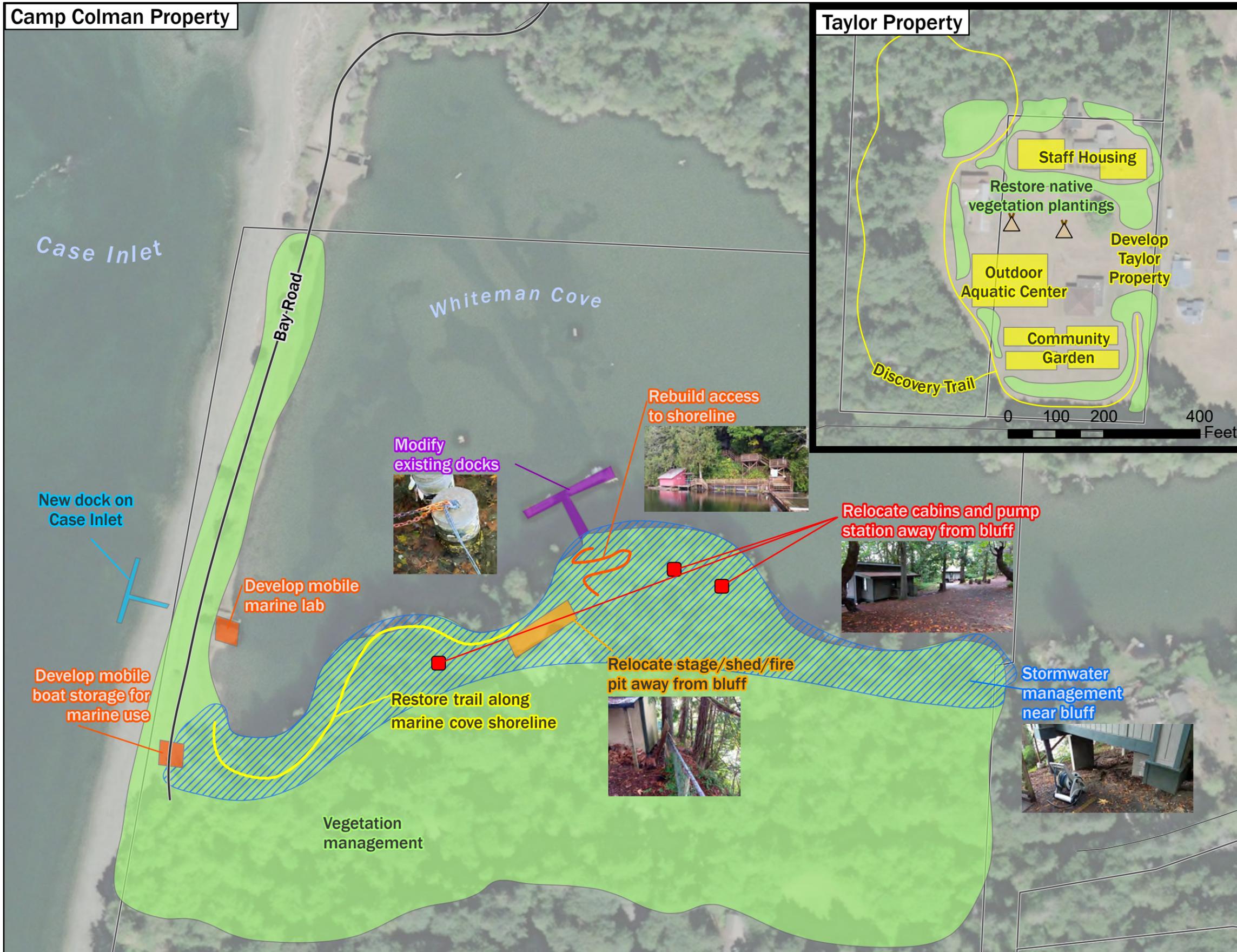
As described in the Needs Assessment (Appendix A), the potential pending development of the Taylor Property could include a large outdoor pool, which would provide the opportunity for campers to swim and other valuable camper experiences. An updated Camp Colman master plan could integrate the revised programs for Camp Colman and developments on the Taylor Property. Major changes to the camp necessary to mitigate risks from restoration will likely trigger the need for additional updated codes, most notably, fire suppression on the camp property, which will also need funding.

## CRITERIA FOR PRIORITIZING OPPORTUNITIES

The list of development opportunities described below were evaluated and prioritized to guide the Greater Seattle YMCA through the complex decisions necessary to retool and adapt Camp Colman to the Whiteman Cove restoration (Figure 2). This conceptual development plan aims to both harness the opportunities and mitigate the risks associated with the Whiteman Cove restoration. Qualitative scoring criteria was developed that takes into account mitigating erosion or flood risk, enhancement of camper experience, environmental educational opportunities, feasible costs, possible to permit and the degree to which the opportunity would add value to Camp investments. Each opportunity was evaluated for each criterion and scored across a gradient ranging from low-moderate-high or very high. Very high scores were limited to opportunities that mitigate potential risk to human life. Scores were assigned to each qualitative rank and summed to identify the highest-ranking opportunities.

**Camp Colman Property**

**Taylor Property**



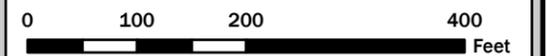
**Figure 2.**  
YMCA Camp Colman Prioritized Actions.

**Legend**

- Roads
- YMCA Parcel Boundaries
- ▲ Teepees

**Priority Level**

- 1** • Relocate Cabins
- 2** • Develop mobile boat storage  
• Revise access to Cove shoreline  
• Mobile marine center
- 3** • Relocate stage, shed, & fire pit  
• Physical and ecological monitoring (not shown)
- 4** • Rebuild shoreline trail  
• Develop Taylor property plans (pool, garden, trail, staff housing)
- 5** • Vegetation management/  
planting areas
- 6** • Build stewardship program for restoration (not shown)
- 7** • New dock on Case Inlet
- 8** • Stormwater management on bluff
- 9** • Modify existing docks



## PRIORITY ACTIONS

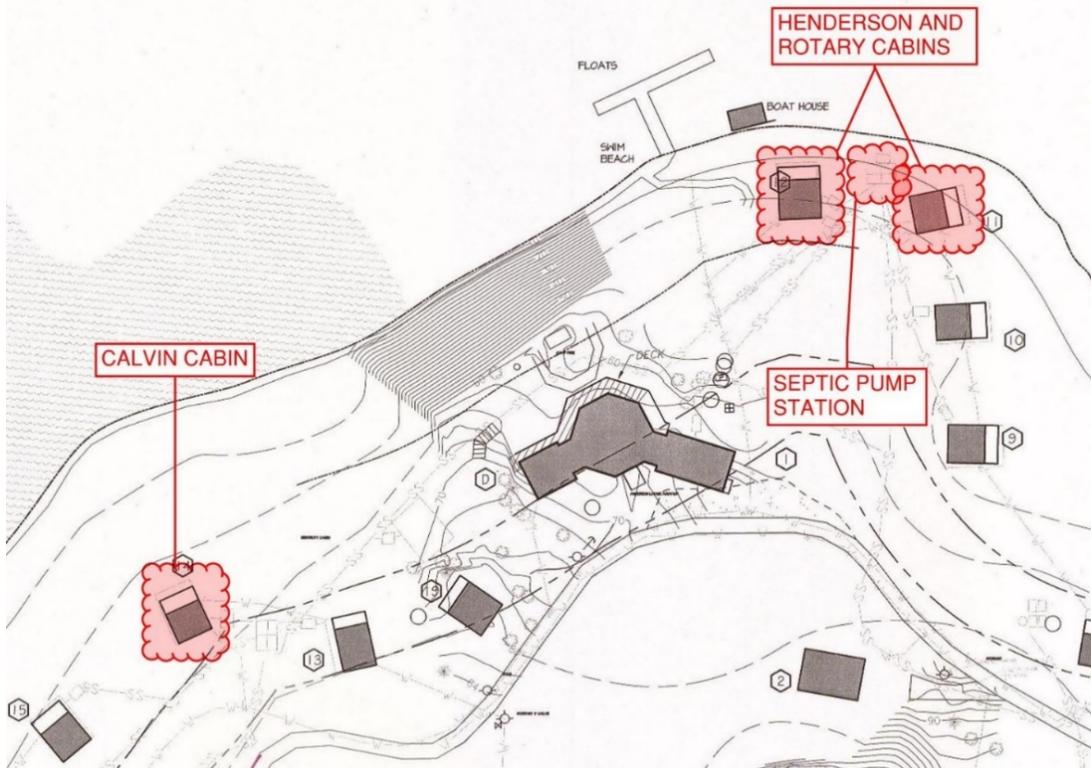
The list of priority actions outlined below are presented in ranked order from most important to less important actions for Camp Colman. Each action description includes a general description of the approach, need, critical elements for being a priority for the Greater Seattle YMCA, key considerations, necessary related actions, and permitting needs.

### Relocate Cabins and Septic Pump Station at Risk from Bank Erosion

Cabins and the onsite wastewater pump station that are near the bluff crest should be relocated farther landward to address the human health risk of bluff failure while the cabins are occupied (Figures 3 and 4). These structures should first be evaluated to determine if relocating is necessary or if structure demolition and rebuilding is a more appropriate option. Of primary concern is Henderson, Rotary, and Calvin cabins, which already exhibit signs of soil creep around them (e.g., tree bases bent toward the water). Relocation entails preparing a new location through clearing a pad, building a new foundation, providing utility connections, lifting the cabins off their foundations and transporting them to the new site, and demolishing the old foundation and utilities and restoring the former location. Moving a serviceable building is typically a more significant cost savings compared to new construction. Relocating the onsite wastewater pump station will also require relocating the associated plumbing and electrical to the new location and making sure its sufficiently downslope from the lowest cabin.

Currently, all three cabins are within a 300-foot walk of the main lodge, so maintaining the existing level of proximity to the heart of the camp would be vital to maintaining camper experience. The YMCA Camp Colman Needs Assessment indicated that locating cabins within 600 feet is ideal, although 1,200 feet may be acceptable (Kaleidoscope Inc. 2021, Appendix A). Given the density of cabins already within a short distance of the lodge, moving the cabins a short distance away from the bluff may be a good option, although an acceptable setback distance from the steep slope would have to be developed prior to deciding on a location.

The historical onsite wastewater design documents available from the Tacoma-Pierce County Health Department were reviewed. Based on these documents it appears that the camp buildings are served by at least three community drain field systems. Each of these systems typically consists of each cabin having its own 1,000-gallon, two-chamber septic tank that flows to a community pump station. The community pump station then pumps the wastewater up to a community drain field located upslope of the tennis courts. The community pump station for system "B" is located between Henderson and Rotary cabins and will need to be relocated to a location away from the bluff. Community pump station "B" serves at least Henderson, Rotary, Sleem, and Kiwanis cabins. There may be other cabins connected to this pump station. To ensure this pump station can continue to serve all the connected cabins, the grades will need to be checked and additional pumps added if necessary to ensure all the wastewater can be collected.



**Figure 3. Location of Three Cabins and Onsite Sewage Pump Station Identified for Relocation During the Risk Assessment.**



**Figure 4. Henderson and Rotary Cabins Near the Bluff Crest.**

While the risk of bluff failure will likely increase slowly over the years that follow restoration of Whiteman Cove restoration project, cabin and septic pump station relocation is critical to maintaining the safety of camp guests. We recommend this be given priority consideration and be completed within the next 3 to 5 years. Identifying an acceptable setback distance from the bluff will be an important first step to determining potential locations for relocation.

In addition to the onsite septic system components, various sections of the potable water and electrical system will need to be reviewed and services to the cabins to be cut, capped, and removed.

Future actions to assist with relocation include:

- Additional topographic survey and geotechnical analysis of the steep bluffs to identify a recommended setback distance and potential areas for relocation.
- Onsite wastewater design and permit application to relocate community onsite wastewater pump station "B" away from the bluff.
- Analysis of other existing utilities (water and power) which may need to be relocated out of the bluff zone and services to relocated cabins cut, capped, and removed.

The relocation of the cabins will require authorization from the County for regulatory compliance with its shoreline regulations and critical areas ordinance (Titles 18E and 18S of Pierce County Code [PCC]). The relocation of the cabins will likely receive a Determination of Non-Significance for SEPA review and a Shoreline Exemption for shoreline compliance. A SEPA Checklist will have to be prepared. Due to the lack of in-water construction associated with this action, it is anticipated that no permit reviews by WDFW for an HPA or the USACE for Section 401/404 compliance will be required. Should the project receive federal funding, a NEPA regulatory review will be required.

In addition to the above, building permits and onsite wastewater permits will be needed. The cost for permitting the relocation of the cabins will be moderate compared to the high costs for permitting in-water construction projects.

**Estimated Range of Costs: \$400,000 to \$1,500,000 for all three cabins, the pump station, and the associated utilities**

## Modify Shoreline Access to Whiteman Cove

The access stairway to the Whiteman Cove aquatics program area should be rebuilt to strengthen its footings and potentially repositioned to traverse a less steep area, as the bluff face is very steep and vulnerable to future erosion following restoration. The base of the access stairway will be inundated by tides regularly, and so should be removed (Figure 5). This would include the walkway to the boat storage building, which should also be replaced. Much of the

existing stairs decking appears to be in good condition and may be simply reset on new, deeper foundations. Modifying the shoreline access assumes that the existing dock and shoreline trail locations will continue to be used in the future.



**Figure 5. Gangway, Decking, and Access Stairs Will Need to be Rebuilt to Accommodate Restored Water Level.**

An improved foundation system for the stairway and decks will have to be designed to provide more stability. Some options for this include helical piles or small-diameter pin piles that can be driven in with portable machinery, an important factor on steep slopes. If helical or small pin piles are not an option, more complex solutions may need to be developed. Geotechnical investigations will be key in determining which method works best in the existing location or if a nearby alternative should be found.

With continued use of the existing dock, a pier should be included in the new access stairway design to access a dock subject to fluctuation water levels. The lowest deck in the stairway could be rebuilt for this purpose, extending farther toward the water on piles. A gangway would be attached to the pier with the other end on a dock secured to piles (see below).

Future actions to assist with relocation include:

- Additional topographic survey and geotechnical analysis around the existing stairway to determine anchoring methods

These proposed actions will require federal, state and Pierce County regulatory reviews and implementation of environmental protective measures according to the provisions of the National and State Environmental Policy Acts, the Clean Water and Coastal Zone Management Acts, Washington State Hydraulic Code, local shoreline and critical areas ordinances and other laws governing fish and wildlife habitats and cultural resources. The estimated permitting costs

for these actions are high due to the amount of documentation necessary for project reviews at multiple regulatory agencies.

**Estimated Range of Costs: \$113,000 to \$345,000**

## **Remove Existing Boat House; Replace with Mobile Boat Storage**

The existing boat house on the lagoon will be regularly flooded following restoration and should be moved. While the existing structure could be moved or a new building built, restoration provides an opportunity to reimagine the storage of the Camp's boats in a way that is more flexible for boating inside and outside the lagoon. A mobile storage wrack could be moved to the spit to access Case Inlet or to Camp Taylor for classes in the pool (Figure 6). The mobile storage could then be parked under cover during the off season.



**Figure 6. Example of Mobile Kayak Storage, Capable of Being Moved to Wherever the Boats will be Used.**

A mobile boat storage option could easily be parked anywhere on the camp, assuming at least one Camp Colman vehicle has a trailer hitch. Covered off-season storage could be built, or more simply, the boats could be parked and covered with tarps. Aside from demolition of the existing boat house, mobile storage options could be easily acquired and require very little planning and no permitting.

A typical trailer designed to carry about a dozen kayaks and canoes will cost between \$3,000 and \$5,000 each. Another \$2,000 would cover a simple open storage shed for parking the trailer during the off season. Total cost would therefore be approximately \$5,000 to \$7,000 per dozen boats. A more costly option, offered for comparison, is to build a new shed like that currently in use at the dock. The maximum size that does not require a permit in Pierce County is 200 square feet. The overall cost would likely be approximately \$20,000, whether built on site or prebuilt and customized for boat storage. A single shed could likely store approximately 24 boats.

This option presents low permitting needs and costs as in-water construction is avoided. Pierce County typically exempts structures of 200 square feet or less from permitting requirements, although shoreline and critical areas project reviews may be required when built within 200 feet of the OHWM or bluff face.

**Estimated Range of Costs: \$38,000 to \$75,000 for up to 24 boats**

## Develop a New Marine Education Center

The current marine education center, located on the spit on the east side of Bay Road, will likely be inundated following the restoration and particularly during high water and storm events. Any structure that would be located on the spit or adjacent to the Cove shoreline is vulnerable to implications of either the restoration, coastal flooding (as mapped by FEMA), sea level rise, and/or coastal erosion.

The proposed marine education center could be limited to a classroom-sized educational facility in which educational workshops and lessons could be hosted focused on marine ecosystems, nearshore restoration, and Indigenous Cultures in the Pacific Northwest. The estimated cost for a permanent facility would be approximately \$1,000,000 to \$2,000,000. Siting the structure may be complicated due to the current regulatory constraints on building in close proximity to the shoreline. The proposed structure could be sited in the uplands with an adequate setback distance, so as to feel immersed in the marine environment, but also adhere to current shoreline regulations. A pre-design study would be required to initiate the process, which would cost roughly \$250,000.

**Estimated Range of Costs: \$1,000,000 to \$2,000,000**

## Develop a Mobile Marine Center

The current regulatory environment makes constructing a permanent building in the shoreline jurisdiction highly constrained and costly. We recommend considering an innovative solution for a marine education center that could be a mobile structure that is sited along the marine shorelines during the summer months and relocated to higher within the Camp Colman uplands during winter months. Non-permanent, mobile features are not regulated in the same way as permanent structures.

The potential value for a mobile marine lab in the Puget Sound region is great. There are many different environmental educational organizations that may have interested in collaborating on the development of a unique mobile marine lab facility. Alternatively, it could be a valuable amenity/investment for multiple YMCA programs. We recommend conducting outreach to similarly minded organizations, such as the Seattle Aquarium and Puget Sound Partnership to explore the potential for partnerships in curriculum development and potential support.

Figure 7 shows some snapshots of [a similar mobile marine lab](#) concept developed by the Florida Fishing Association. Additional imagery is available on their website and Facebook account. They funded the marine lab through a local grant program; and the total cost shared below included the cost of the touch-tank, generator (not necessary for all applications), trailer conversion, 10 solar panels with batteries, a truck capable of towing the trailer, and a sand box.



**Figure 7. Examples of a Mobile Marine Lab Trailer (left) or Mobile Classroom Constructed from an [Adapted Storage Container](#) (right).**

**Estimated Range of Costs: \$195,000 to \$220,000**

## **Relocate Firepit, Stage, and Shed at Risk from Bluff Erosion**

The campfire ring, stage, and shed should be relocated to a location further landward from the bluff crest (Figure 8). Although the toe of bluff is currently not exposed to marine waters, it will be following restoration during high tides and high-water events. With the stage and shed located at the bluff crest with and foundation to help stabilize them, they are particularly vulnerable to landslides and slope instability.



**Figure 8. Shed at the Firepit, Very Close to the Edge of an Undermined Bluff.**

DRAFT Preliminary Report—Additional Assessments Needed

Examination of the bluff during the site assessment showed obvious signs of instability just below the fence in that location. The bluff is substantially undermined, with roots exposed up to 12 inches from the edge where the bluff has been slowly eroding out from under the trees.

The simplest approach to relocation is to identify and clear a nearby site and then move the two structures to the new location. Both could likely be attached to a wooden sled and dragged into position or loaded onto a flatbed using a winch. Much of the cost would be in clearing trees and the earthwork necessary to create tiers of seating around the stage.

Alternatively, a new stage and shed could be constructed and the old structures removed entirely. While new construction is a more expensive option, it does provide the opportunity to create a new camper experience as well as resetting the lifespan of the amenity.

Required permits will likely include a review of critical areas, a shoreline exemption, a land use – clearing and grading permit and a SEPA checklist.

**Estimated Range of Costs: \$48,000 to \$105,000**

## **Develop and Implement a Physical and Ecological Monitoring Program**

Having a clear baseline understanding of nearshore conditions prior to and following restoration will be an important element of documenting the impacts of the restoration as they occur. Regular monitoring provides useful data that can be used to answer questions about the past and future of site conditions and empowers site managers to make informed decisions. Annual topographic surveys can be used to document surface erosion, mass wasting, and document erosion rates over time.

An ecological monitoring plan could be developed and designed to be implemented by campers to document and learn about the ecological changes taking place as a result of the restoration. There are several [nearshore ecological monitoring](#) programs in the Puget Sound region that use standardized data collection for nearshore restoration monitoring, which could be used as a model for monitoring at Camp Colman. Standard protocols can be used to identify and document species in the lagoon and along the Case Inlet shore, changes in vegetation, slope stability, and the like.

Some monitoring should be conducted in the field by professionals. An important element of physical monitoring is having reference points with known elevations that could be marked by the Camp's local surveyor. Other specific locations should be identified from which regular photos should be taken. At least 5 years of physical monitoring should be conducted (and is supported by this cost estimate), as it often takes at least 5 years for a site to stabilize and species to return following restoration. Monitoring data should be analyzed and reported upon by a professional.

**Estimated Range of Costs: \$45,000 to \$95,000**

## Rebuild Trail Along Whiteman Cove Shoreline

Portions of the existing shoreline trail between the spit and the lagoon dock will be inundated during the first spring tide cycle following restoration. Over time, repeated tidal inundation will cause erosion, making the current trail unusable. The trail is highly constrained between the lagoon and the steep bluff for most of its length, making a new waterside location difficult. Most of the trail could be built up in place with a short retaining wall and gravel fill. Where the elevations are lowest, closer to the spit, an elevated walkway could be constructed on short piles at an elevation that keeps it above all but the highest winter tides.

While the trail will certainly be inundated relatively frequently after restoration, the erosion and loss of function will likely happen slowly over a period of several years. Before then, the existing trail will remain functional for most tide heights. During the busiest summer months, tides are generally low during the day, so inundation will occur during times of low usage. The YMCA therefore has time to adapt and plan a new trail following restoration. An elevated walkway would require geotechnical and archaeological investigations and may be difficult to secure permits where the path crosses existing wetlands.

A low-cost option for the trail would be to elevate where necessary and move the crossing point away from low wetland areas. This would avoid the need for an elevated boardwalk, a relatively costly option. However, providing a boardwalk presents many educational opportunities such as wildlife viewing platforms and close observation of sensitive wetland vegetation.

Due to the tidal inundation at the trail location and proposed pile installations to support a boardwalk or other trail access, permitting of this project action alternative will require federal, state and Pierce County environmental regulatory reviews for construction authorization. The cost associated with permitting a wetland boardwalk is anticipated to be high.

**Estimated Range of Costs: \$87,000 to \$309,000**

## Develop and Implement Plans for Taylor Property – New Aquatics Center

The Taylor Property has the potential to replace the existing aquatics program. It has land conducive to the development of an aquatics center, but the location has some challenges, with close neighbors, little privacy, and is a considerable distance from the main Camp Colman campus. Kaleidoscope recommended that if the aquatics program is relocated to the Taylor property, then the model would need to expand beyond just swimming to include additional recreational areas. Additional recreation at the site could include trails and gardens, as well as additional staff housing.

Very few plans and information has been developed on the development of the Taylor Property to date. Currently, there is very little information on the desired program for this potential facility and for the capacity of this site to support this program (i.e., utilities, access). A range of possible configurations for such a facility could be imagined ranging from a pool and restroom building to a more elaborate waterplay facility. Plans for the property should include a building for staff housing, gardens and vegetation planning, in addition to the aquatics center.

The following costs were developed for a range possibilities from a simple pool and restroom building to a more fully featured aquatics center building with a much larger pool for \$5,000,000. The final budget could easily exceed this amount depending on the YMCA's need and site constraints. To finalize the scope-scale development and costs, a pre-design study is required and is a top priority for early recommended supporting investigations. Aquatic centers can cost significantly more than the upper end of the presented range and can easily be in the \$10,000,000 to \$15,000,000 range, depending on whether it is outdoors or indoors, the size of the supporting facility (capacity), and other rooms/facilities that the development includes. The cost estimate included below is for a relatively simple outdoor pool with changing rooms and bathrooms, comparable to but slightly larger than the pool at YMCA Camp Orkila.

**Estimated Range of Costs: \$2,500,000 to \$5,000,000. See *Recommended Supporting Investigations*, below.**

## Vegetation Management

Enhancing native vegetation cover, particularly in areas at risk of erosion, will help to reduce erosion vulnerability along the bluff shoreline. Conifers should be planted landward of the bluff crest to provide additional water absorption and structure to bluff soils. As older, existing trees are eventually eroded from the bluff, planting these additional trees will ensure that trees are perpetually enhancing the stability of the bluff, particularly along steep shoreline areas. Over time, recruitment of large woody debris (LWD) from lower elevations of the bluff face will occur, with trees falling to the beach and bluff toe. Consider hiring an arborist to actively manage the ways in which trees erode from the bluff.

Nonnative English ivy (*Helix hedera*) and Himalayan blackberry (*Rubus armeniacas*) should be removed from trees and surrounding soils where possible. Ivy and blackberry can impair the growth and health of other native shrubs and trees, create a monoculture, and exclude the growth of other plant species that contribute to soil stability. This has already happened in some areas where invasive species are abundant, particularly along the bluff face waterward of the lodge.

It is likely that the removal of nonnative, invasive vegetation will be required as a mitigating component of many of the project's construction actions. Monitoring of the success of the removal of invasive vegetation and or the installation of native vegetation will likely be required as a permit mitigating condition for one or more of the proposed project components and therefore vegetation management actions should be coordinated with the permitting process

rather than voluntarily implemented prior to permit issue. The native plant installations and performance monitoring of vegetation management actions can be an excellent educational opportunity for campers to learn of the importance of native vegetation in environmentally sensitive areas.

**Estimated Range of Costs: \$12,000 to \$65,000. See *Recommended Supporting Investigations*, below.**

## Build Stewardship Program/Curriculum Focused on Restoration

New camp programming needs to be developed that is focused on the environmental education opportunities associated with the Whiteman Cove restoration. This programming would be central to a revised identity for Camp Colman and could be approached from various angles for different groups and markets. Partnership organizations could contribute to the new Camp programming and this unique opportunity for enhanced stewardship, experiential/applied learning of STEM in a living classroom. This professional would develop new curriculum for experiential environmental education and have the significant task of collaborating with educators to define learning goals and create teaching areas to align with those goals. A subject matter expert would be best suited to support Camp Colman in this endeavor.

The model could include:

- Creating a nearshore restoration demonstration site with a focus on:
  - Climate change adaptation, STEM
  - Coast Salish: Indigenous people of the Pacific Northwest
- Potential Partner Organizations: Pierce Conservation District, South Puget Sound Salmon Enhancement Group, Tribes (Squaxin Island, Nisqually, Puyallup), University of Washington, Puget Sound Partnership/Institute, Shore Friendly.

**Estimated Range of Costs: \$80,000**

## Stormwater Management

The combination of uncontrolled sheet flow and shallow concentrated stormwater flows, shallow groundwater, documented poor permeability of the underlying geology, and presence of soils that are vulnerable to erosion suggests that improved stormwater management is necessary to reduce erosion hazards, see Figure 9. Water from gutters, cleared areas, trails, and parking lots should not allowed to flow directly toward and down the bluff face but should be collected and conveyed to the toe of the bluff or dispersed in areas that will not exacerbate erosion hazards. dissipated in areas with low slopes and dense upland vegetation or tightlined directly to base of the bluff.



**Figure 9. Rills from Stormwater Flowing Down the Uplands to the Bluff Face.**

To implement proper stormwater management, first a plan will need to be developed. Next a system to convey stormwater flows in the core camp area to the toe of the bluff will need to be installed. Then other stormwater improvements will need to be implemented as per the plan that is developed.

**Estimated Range of Costs: \$75,000 for drainage and \$50,000 for additional, improvements across camp, \$23,000 – \$95,000 for permitting.**

**Total: \$143,000 to \$240,000**

## **Modify Existing Dock/Aquatics Program Center**

The current, fixed attachment of the dock to the shore does not allow for the rise and fall of tides expected after restoration. Under fluctuating water levels, the current cement anchors are insufficient for keeping the dock in place (Figure 10). Steel piles should be driven in, and the dock attached to them to allow it to rise and fall with the tide in the same position, particularly during storms. A new gangway will be required, secured to a deck or pier elevated above the highest tides to allow for vertical movement of the dock. Part of the existing shoreline access stairway could be rebuilt or repurposed for this function (see above).

Restoration of tidal fluctuation with Whiteman Cove will immediately impact the functionality of the existing dock, so adaptation of the dock should happen prior to or during restoration. The dock current appears functional and may be reused with little change other than how it is kept in place. Geotechnical investigations will be required to determine pile size, location, and depth. Permitting of pile-driving activities within marine environments can be done but will take time and usually require marine mammal monitoring during construction to prevent disturbance, particularly of whales.



**Figure 10. Existing Concrete Anchors Used to Secure the Lagoon Dock.**

The project component will require federal, State, and local permitting reviews for environmental regulatory compliance. The anticipated permitting costs are estimated to be high due to the proposed in-water construction and will require an extended duration for the permitting process. However, this adaptation of an existing shoreline use should be permissible.

**Estimated Range of Costs: \$108,000 to \$340,000**

## Construct New Dock on Case Inlet

An alternative to adapting the Whiteman Cove dock would be construction of a new dock on Case Inlet, similar to, but at a smaller scale than, the dock at Joemma State Park. The ideal location for such a dock would be near the base of the spit, in the vicinity of the bottom of the hill. This would provide closer access to deep water, which results in a shorter (and less costly) pier. A Case Inlet dock would provide access to the water considerably more frequently than the dock in Whiteman Cove, which would be frequently grounded during low tide.

A new 300-foot pier would be constructed, attached to the base of the spit by an abutment at approximately the current road elevation. This abutment would require a small amount of shoreline armoring, either a concrete or riprap wall, to provide protection from wave energy. The pier would be designed to provide 6 feet of clearance between rails, allowing people to pass when carrying boats to and from the dock. Support for the pier decking would be approximately 40 steel piles, driven in pairs with steel beams between.

Construction of a new docks will require grating to allow light penetration through slatted decking, typically made of fibrous composite material for extra traction. Dock pilings will be required to stabilize the structure along with a gangway to provide access at all tide levels.

A geotechnical analysis will be required early in the design process to inform the type, size, and location of support pilings, which are a significant portion of the overall cost. Other specialized design would include structural analysis of the pier and a wave energy analysis for the support pilings. Archaeological investigation will also be required for any work on the spit, including installation of the abutment and piles. A bathymetric survey of the tidelands within 400 ft of the shoreline will help inform the overall length required to maintain water access during low tides.

An important consideration when relocating a dock from a protected location such as Whiteman Cove to open water is the safety of swimmers and boaters. Attention must be paid to tide levels, particularly the anticipated change in tide and to a lesser extent current induced by tidal flow. At very low tides the gangway is likely to be quite steep, making hauling boats up and down challenging, particularly for children.

Construction of a marine dock will require federal, State, and local permitting reviews for environmental regulatory compliance. The anticipated permitting costs are estimated to be very high due to the proposed in-water construction and will require an extended permitting process. The current regulatory framework is not conducive to new dock construction, so engaging with tribes and permitting agencies early will be very important to judging the likelihood of acquiring permits.

**Estimated Range of Costs: \$1,608,000 to \$2,790,000**

## Permitting Review

Likely permitting requirements (Table 1) were established for each action. As actions are conceptual in status, it is important to be mindful that a formal permit review process is typically applied on more well-developed actions. As a result, there may be some changes to the permitting requirements as projects evolve and plans become more detailed.

**Table 1. Permitting Needs Associated with Recommended Actions.**

Camp Colman Actions	PERMITTING NEEDS															
	Pierce County						Washington Department of Fish and Wildlife	Washington State Department of Natural Resources	US Army Corps of Engineers <sup>a</sup>							Washington State Department of Ecology <sup>b</sup>
	Pierce County Building Permit	Critical Areas Review	Shoreline Compliance (Exemption or Substantial Development Permit) <sup>c</sup>	Geotechnical Assessment	Land Use (clearing and/or grading)	State Environmental Policy Act (SEPA) Compliance	Hydraulic Project Approval (HPA) <sup>a</sup>	WDNR Lease	CWA Section 404 Nationwide or Individual Authorization/Rivers and Harbors Act	Section 7 Endangered Species Act Compliance	Essential Fish Habitat (Magnuson Stevens-Fisheries Conservation Act Compliance)	Pre-Construction Forage Fish Survey	Marine Mammal Monitoring	Coastal Management Zone Certification	Section 106 National Historic Preservation Act Compliance	401 Water Quality Certification
Relocate Cabins and Septic Pump Station		X	Exemption	X	X	X										
Rebuild Trail Along Whiteman Cove Shoreline		X	Exemption	X	X	X		?								
Modify Existing Dock/Aquatics Program Center		X	Exemption or Substantial Development		X	X	X	X	X	X	X	X	X	X	X	X
Construct Pier on Case Inlet		X	Substantial Development		X	X	X	X	X	X	X	X	X	X	X	X
Remove Existing Boat House: Replace with Mobile Boat Storage		X	Exemption			X	?		?	?				?	?	
Modify Shoreline Access to Whiteman Cove		X	Exemption	X	X	X	X	?	X	x	X	X	X	X	X	X
Develop and Implement Physical and Ecological Monitoring Program																
Stormwater Management		X	Exemption	X	X	X										X
Vegetation Management		?	Exemption		?	?										
Relocate Firepit, Stage, and Storage Shed		X	Exemption		X	X										
Implement Plans for Taylor Property																
Build Stewardship Program/Curriculum																
Develop Mobile Marine Center		X (demolition only, may be exempt)	Exemption		X (demolition only)	X										

<sup>a</sup> Washington Department of Fish and Wildlife and US Army Corps of Engineers require a Joint Aquatic Resource Permit (JARPA) Application and Site Plans.

<sup>b</sup> Washington State Department of Ecology administers Section 401 Water Quality Certifications of the Clean Water Act for federal permitting compliance in Washington state.

<sup>c</sup> Pierce County shoreline permitting is required for all in-water construction and activities occurring 200 feet landward of the Ordinary High Water Mark (OHWM), unless exempted by the Revised Code of Washington.

All project activities proposed to occur within 200 feet of the Ordinary High Water Mark (OHWM) of Case Inlet and Whiteman Cove will require review and authorization according to Pierce County's shoreline regulations (Title 18S PCC). Pierce County will review the project components within its shoreline jurisdiction according to the criteria set forth in the Shoreline Master Program Guidelines for a Shoreline Exemption or Substantial Shoreline Development Permit as required by the State's Shoreline Management Act (RCW 90.58, WAC 173.27).

All project components proposed to occur in or near Pierce County's protected critical areas (wetlands, fish and wildlife habitat areas, floodplain and steep slopes and associated buffers/setbacks) will also be reviewed according to the compliance requirements of Title 18E – Development Regulations-Critical Areas of PCC.

All project components that will result in in-water construction (below the Ordinary High Water Mark of the Cove or Case Inlet) or potential changes in hydrologic regimes will also require approval from Washington Department of Fish and Wildlife (WDFW) for a Hydraulic Project Approval (HPA) permit. The WDNR's review of their aquatic lease requirements may also need to be completed.

Any and all proposed modifications to the existing dock and or installations of new dock components or changes in the hydrological regime below the High Tide Line (HTL) of Whiteman Cove or Case Inlet will require federal authorization by the US Army Corps of Engineers (USACE) for compliance with Sections 404 and 401 of the Clean Water Act and Section 10 of the Rivers and Harbor Act (Case Inlet). The repair, maintenance, and *in situ* replacement of the existing dock at Whiteman Cove may potentially be authorized by a nationwide permit. However, any expansion of the existing dock footprint or the installation of new dock components, such as relocating the aquatic activities at Case Inlet, will likely exceed the requirements for a Nationwide Permit, and therefore will require an individual project review with an obligatory public notice comment period. The timing for an Individual permit project review is typically 2 to 3 years; however, some docks or marina actions take considerably longer for permit approval.

Federal permit authorizations additionally require compliance with Section 7 of the Endangered Species Act (ESA), Section 106 of the National and Historic Preservation Act, the Coastal Management Act and the National Environmental Policy Act (NEPA). Protections to Essential Fish Habitat (EFH) as regulated by the Magnuson-Stevens Fisheries Conservation Act and compliance with the Marine Mammal Protection Act will also need to be reviewed as documented in a Biological Evaluation/Biological Assessment report prepared by the applicant for submittal to the USACE, NOAA Fisheries (National Marine Fisheries Service) and US Fish and Wildlife (USFWS). Pile driving associated with dock construction results in construction generated in-air and underwater noise that may affect fish, marine mammals and foraging seabirds unless mitigating measures are applied.

For NEPA compliance, the project may meet the criteria of a Categorical Exclusion. Otherwise, an Environmental Assessment supporting a Finding of No Significant Impact (FONSI) or a comprehensive Environmental impact Statement may be required for federal review by the federal \Lead Agency. Similar to NEPA, the State's Environmental Policy Act (SEPA) lead agency (mostly likely Pierce County) will determine if project-associated environmental impacts are non-significant or significant based on the initial submittal of a SEPA Checklist document.

All agency project reviews will require an analysis of the project's components to avoid, minimize and mitigate for environmental impacts. For those components of the project that result in unavoidable environmental impacts, a discussion regarding the necessity of a proposed action and proposed mitigating measures to minimize impacts will be required. For example, if a new dock was proposed for installation in Case Inlet, it is necessity for camp operations and rationale for the non-feasibility of using any existing public docks within the immediate vicinity of the site would need to be stated.

## RECOMMENDED SUPPORTING INVESTIGATIONS

### Stewardship Program Development Consultation

Creating a new program model requires alignment of the organization and facility's assets with the needs of the users to develop a program that is missionally vital and can be financially viable to operate. We would recommend a process that includes working with YMCA Camp Colman staff to assess current curriculum for relevance, visioning new learning models for summer camp, and outdoor educational experiences and retreat programming. The process would include gathering input from potential partners to expand resources as well as gathering input from current and potential constituent groups about the need for learning outcomes to be offered in this new and expanded program. Additionally, the process will include financial modeling to define annual expenses (such as staffing, supplies, site support) and the necessary income (guests in each program model) to support a viable program model.

The outcome of the consultation will include vision definition for a stewardship program aligned with partner and constituent needs as well as an initial operating financial model to identify levels of use necessary for long term financial health.

**Estimated Cost:       \$13,500**

### Geotechnical Assessment

Geotechnical investigations will be required for several of the above actions. Most of the geotechnical work will entail determining the bearing capacity for foundations (relocated cabins) and piles (dock, stairway, and boardwalk). Work to be done would likely first entail hand-dug pits with follow up of several drill holes in key areas. Subsurface investigations could also help increase certainty on bluff-crest setback distances for existing and future development of the camp.

A significant portion of the investigation costs will be in mobilization of equipment and reporting. Therefore, planning ahead and aggregating the geotechnical assessments into one larger investigation could provide an overall cost savings.

**Estimated Cost:       \$50,000**

### Comprehensive Vegetation, Stormwater, and Trail Management Plan for Camp Colman

This plan will 1) assess the character and extent of the vegetation on site that will affect the management of stormwater, the stability of the bluff, and the erosion risk, 2) the existing stormwater flow patterns, the bluff stability and erosion risks associated with stormwater and

the opportunities to address those risks, and 3) an assessment of the existing trail network, its condition and suitability for the intended use, and its landslide and erosion risk. For each of the three topics to be covered in the study, the site will be analyzed and a list of prioritized recommended improvements will be developed along with planning level costs.

**Estimated Cost:       \$75,000**

## **Taylor Property Pre-Design Study**

A pre-design study is needed to determine the scope, scale, and budget for the new aquatics facility on the Taylor Property. The scope of work for this study is expected to include the following:

1. Development of a business plan
2. Defining program elements and space allocation
3. Site analysis
4. Concept level siting and layout options (three)
5. Preliminary building designs for the new pool and locker room facility
6. Marketing product of at least three renderings
7. Utility study
8. Permitting requirement identification
9. Building and construction cost estimates
10. Construction timeline

**Estimated Range of Costs:   \$250,000**

## **SUMMARY OF COSTS AND TIMELINES**

The most immediate needs for funding and adaptation of Camp Colman to support the Whiteman Cove restoration consists of stewardship program development consultation, geotechnical assessments for identifying optimal locations for structure relocation, comprehensive planning for vegetation, stormwater and trails, and the Taylor Property pre-design study (Table 2). Each of these efforts would be prerequisites to larger adaptation of Camp Colman infrastructure and would provide key information relevant to future decision making and priorities of Camp needs.

<b>Recommended Supporting Investigations</b>	<b>Cost</b>
Stewardship Program Development Consultation	\$15,000
Geotechnical Assessments	\$50,000
Comprehensive Vegetation, Stormwater, and Trail Management Plan	\$90,000
Taylor Property Pre-Design Study	\$250,000
<b>Total</b>	<b>\$405,000</b>

The actions that were identified and described (above) address various types of needs for Camp Colman resulting from the WDNR Restoration. These actions range from revised shoreline access, to moving at-risk camp infrastructure and reformatting general YMCA camp programming. The bulk of the costs are associated with adapting Camp infrastructure to the changing conditions associated with the restoration, including replacing the loss of the aquatics program (Table 3). The cost of reconfiguring camp access to the marine shoreline was also considerable. Mitigating risk and focused investment in YMCA programming were the least cost-intensive actions (Table 3). Fire Suppression (up to \$1,300,000) and Contingency Funds for potential regulatory driven mitigation that may be required to implement these actions (up to \$500,000) were also included as they represent large costs that will be required by the GS YMCA because of the WDNR restoration of Whiteman Cove.

<b>Cost Type</b>	<b>Minimum</b>	<b>Maximum</b>
Mitigate Risk	\$460,000	\$1,670,000
Access	\$1,808,000	\$3,444,000
Infrastructure	\$4,984,000	\$9,175,000
YMCA	\$125,000	\$175,000
Contingency Funds	\$300,000	\$500,000

Not all actions may be required or are appealing to the YMCA of Greater Seattle. Some critical decisions may represent more of a fork in the road where the selection of a specific course of action may result in another action no longer being necessary.

Following completion of the recommended supporting investigations outlined above, several of the cost estimates presented below will be refined and increased in accuracy. The actions to mitigate risk should be implemented without delay.

The current cost estimates (Table 4) reflect a general range based on Herrera’s existing understanding of the YMCA’s values and objectives and the Camp Colman properties. However, these costs are estimates and their accuracy is variable, largely due to the clarity and finality of decisions and supporting information relevant to the action. These costs also do not account for all land use and permitting requirements that may be triggered by developments. However, fire suppression requirements will be triggered by moving and/or rebuilding structures on the property, the costs of which are substantial. Therefore, these costs are included below. In

addition, funding to support some regulatory driven mitigation associated with each of these actions has been included.

Priority Actions	Type	Design + Permit + Build	
		Cost Low	Cost High
Relocate Cabins and Septic Pump Station	Mitigate Risk	\$400,000	\$1,500,000
Fire Suppression (required to meet fire code for relocation of cabins)	Infrastructure	\$1,000,000	\$1,300,000
Modify Shoreline Access to Whiteman Cove	Access	\$113,000	\$345,000
Remove Existing Boat House; Replace with Mobile Boat Storage	Infrastructure	\$38,000	\$75,000
Develop Mobile Marine Center + Truck	Infrastructure	\$195,000	\$220,000
Construct New Marine Education Center	Infrastructure	\$1,000,000	\$2,000,000
Relocate Firepit, Stage, and Storage Shed	Mitigate Risk	\$48,000	\$105,000
Develop and Implement Physical and Ecological Monitoring Program	YMCA	\$45,000	\$95,000
Rebuild Trail Along Whiteman Cove Shoreline	Access	\$87,000	\$309,000
Implement Plans for Taylor Property	Infrastructure	\$2,500,000	\$5,000,000
Vegetation Management	Mitigate Risk	\$12,000	\$65,000
Build Stewardship Program/Curriculum	YMCA	\$80,000	\$80,000
Stormwater Management	Infrastructure	\$143,000	\$240,000
Modify Existing Dock/Aquatics Program Center	Infrastructure	\$108,000	\$340,000
Construct New Dock on Case Inlet	Access	\$1,608,000	\$2,790,000
Contingency Funds <sup>a</sup>	Access	\$300,000	\$500,000
<b>Total</b>		<b>\$7,677,000</b>	<b>\$14,964,000<sup>b</sup></b>

<sup>a</sup> Funding needed to mitigate impacts derived from different actions.

<sup>b</sup> This cost estimate is in 2021 dollars.

In total the cost of all actions will range from \$7,677,000 to \$14,964,000 (in 2021 dollars), not including the recommended supporting investigations. The recommended supporting investigations can be funded by the Proviso. Additional funds will be required in the 2022–2023 supplemental budget to support development of YMCA programs and infrastructure and to mitigate risk prior to the restoration implementation, which is planned for summer of 2023.

Funding requests for the future have been escalated to reflect the use of 2021 dollars in the development of cost estimates. The escalation rate applied was 4 percent per year and was applied only to these data summaries in which the biennium requests are noted. For all funding requests we recommend requesting the upper end of the range as all actions are merely design concepts, and additional unexpected costs will indubitably occur.

Based on this analysis, the coarse status of these actions, Camp Colman’s operating needs, the timeline of the WDNR restoration, and the quick timeline in which these estimates were requested, Herrera recommends that the GS YMCA requests a total of \$1,406,080 from the

2022–2023 supplemental budget, and \$13,645,230 from the 2023–2025 biennium capital budget, to support the GS YMCA and Camp Colman adapting in response to the WDNR Whiteman Cove restoration (Table 5).

<b>Table 5. Cost Estimates and Timeline.</b>		
<b>Timelines</b>	<b>Actions</b>	<b>Cost</b>
Proviso/Current	Recommended Supporting Investigations: Stewardship Program Development; Geotechnical Assessments; Comprehensive Vegetation, Stormwater, and Trail Management Plan. Not to exceed the \$500,000 allotted within the Proviso.	\$405,000
Supplemental Budget 2022–2023	Fire Suppression	\$1,406,080
Needs for 2023–2025 Capital Budget	Relocate At Risk Cabins and Septic Pump, Remove Boat House and Replace with Trailer and Upland Boat Storage, Relocate Firepit, Stage and Shed, Modify Existing Dock/Aquatics Program, Implement Plans for Taylor Property, Build Stewardship Program/Curriculum, Modify Shoreline Access to Whiteman Cove, Develop Mobile Marine Center and Truck, Develop and Implement Physical and Ecological Monitoring Program, Rebuild Trail along Whiteman Cove Shoreline, Vegetation Management, Stormwater Management, Construct New Marine Education Center, Construct New Dock on Case Inlet, Contingency Funds	\$13,645,230

## REFERENCES

Anchor QEA. 2015. Draft Preliminary Design Report Whiteman Cove Estuary Restoration. Anchor QEA, LLC, Bellingham, Washington.

Anchor QEA. 2020. Whiteman Cove Project Hydraulic Assessment. Anchor QEA, LLC, Bellingham, Washington.

WDNR. 2020. Whiteman Cove Project Feasibility Report, prepared for Washington State Department of Natural Resources by Anchor QEA, Blue Coast Engineering, and KPFF. Washington State Department of Natural Resources, Olympia, Washington.

# APPENDIX A

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## Kaleidoscope Needs Assessment

# YMCA Camp Colman Needs Assessment October 2021

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## Current Program and Operation

YMCA Camp Colman’s program is centered around the recreation, educational area and aesthetic of the enclosed saltwater lagoon. The identity and distinguishing character of the program, through marketing and branding has been the enclosed saltwater lagoon.

Three primary operating models comprise the YMCA’s program at Camp Colman: summer residential children and youth camps, outdoor environmental education (OEE) through the school year and retreat events for all ages including families, women’s groups, and parent/child events through the year.

With the re-creation of the current lagoon area, the impact on program will be significant.

	Current Use	Shifting with Project	Opportunities	Questions
Summer Camp	Swim, boating, kayaking, paddle board, water play (inflatables), program/teaching areas	Water activities will be limited to times of high tide and/or a very reduced area that retains sufficient water.	Expand program and teaching areas including environmental study, history of area	How to re-create daily water activity areas including area for swimming AND boating?
OEE	Boating, kayaking, paddleboard, education areas	Water activities will be limited to times of high tide and/or a very reduced area that retains sufficient water.	Expand education areas including new marine center, add program related to native populations, salmon recovery, etc.	Short term school groups (2-3 days) may not have access for use of boats, paddleboard.
Retreat	Boating, kayaking, paddle board, program/teaching areas	Water activities will be limited to times of high tide and/or a very reduced area that retains sufficient water.	Expand program and teaching areas including environmental study, history of area	How to re-create water activity areas for boating, especially during short term retreats (2-3 days)?

Other implications to the operating model may include the loss of key facilities on the property including guest cabins and a group campfire area. Replacing the number of bed capacity of lost guest cabins will be necessary as each operating model currently utilizes the space for guests. The group campfire area will be a key space to re-define as this setting is an integral part of evening program for all models, summer camp, OEE groups and retreat events.

As Camp Colman reviews and plans for each operating model, it is key to:

- Maintain full capacity of the summer camp program (the signature program and main income driver);
- Continue to develop retreat programs;
- Expand program quality and define the unique opportunities of OEE at Camp Colman.



# YMCA Camp Colman

## Needs Assessment

### October 2021

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The consultant's perspective is that the summer camp program is at most risk with the re-creation of the lagoon as play and adventure are key to building community, discovering self and teaching values of camp. Short term retreats can more easily adjust to the opportunities the site affords. OEE will have great opportunity to expand curriculum and create a unique model for schools.

#### Site Review - Program Perspective

Anderson Lodge (main lodge and dining hall) is the central core of all programs and is center to the layout of Camp Colman. Cabin villages for guests are built in relation to Anderson Lodge within short walking distance. The lagoon provides the expanded view from Anderson Lodge and the water front program area. Other program areas, such as adventure and an initiatives course are further from the core of the property. This classic layout provides guests easy access to the dining hall three times a day for meals. Kaleidoscope advises camps and planners to locate youth lodging within 900'-1,200' radius of dining, less in relation to terrain. Adult guests prefer lodging within 600' radius of the core. Common program areas are typically within the 1,200' radius with destination program areas beyond this distance.

#### Future Program Needs

For Camp Colman to continue offering the operating models key to their mission and identity, these areas need to be developed:

- Waterfront (with dock) to provide for boating, kayaking, paddleboard
- Pool for swimming, a daily activity for all guests in summer
- Marine Center for teaching to expand OEE quality and curriculum
- Relocated cabins
- Relocated group campfire area

#### **Future Site Development – Mitigation of Changing Landscape**

##### Waterfront

It is imperative that the re-shaping of the lagoon provide a waterfront for activity such as boats, kayaks, paddleboards. This area has been a primary activity for summer camp each day. With 200 campers in weeklong sessions, water access is a part of the daily rotation of camper groups so that each camper can experience the waterfront multiple times per week.

##### Pool / Aquatic Center

Daily swimming is a main summer camp activity for all campers. Locating a site for a pool is challenging on the Camp Colman property. For a swim period to be a part of the daily activity schedule, it needs to be located in close proximity to the core of camp. Locating a flat and open area in the core may not be possible without relocating other structures, creating a flat area and removal of vegetation. Areas to consider for development may include the garden area and the playfield. Both areas have challenges including close neighbors and current use. A potential area for development of a pool is the Camp Taylor property recently acquired by the YMCA. While this area is conducive for a pool, the location is challenging as it is a significant distance for campers. The program model would need to shift to create a destination area where camper groups could spend 3-4 hours with multiple recreation areas including a pool. Transportation (bus, bikes, secured hayride) will be necessary.



# YMCA Camp Colman

## Needs Assessment

### October 2021

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#### Marine Center

Close access to the water will allow for a unique and complimentary education center to expand curriculum and share the story of why this project is imperative to the ecology of the area.

#### Relocated Cabins and Group Campfire Ring

The property has limits to available land for new facilities, but cabins can be designed to work with the landscape and topography. Further study can define the best location for relocated cabins and new cabins that were proposed in a previous planning project by Camp Colman.

The group campfire area will be more challenging as it needs to be located within the core in a setting that captures the beauty and views of the location.

#### **FUTURE VISION**

The potential for Camp Colman to be an education center that provides teaching about the history of the area, the Squaxin Island Tribe, salmon lifecycle and marine ecosystems, and Northwest culture is significant with the re-created lagoon. Each of the three primary operating models will benefit from this opportunity to expand curriculum in each setting. The impact of recreation, especially for summer children and youth camp is a crucial concern. Camp Colman leaders will need to recreate the identity defining these questions:

- How to distinguish in YMCA summer camps in the Association?
- How to distinguish among OEE centers?
- How to appeal to retreat groups?

#### **Recommended Next Steps**

With the determination of the outcome of re-creating the lagoon, Camp Colman needs to update the master site plan to locate the displaced facilities and recreation functions, including:

- Waterfront
- Pool (and accompanying recreation areas, if remote from core)
- Marine center
- Relocated cabins
- Relocated group campfire area

The master site plan needs to review all current property use, potential areas to develop, define the scope of development to quantify necessary capacity of each facility or area, create initial concepts and elevations for primary initiatives and create an opinion of probable costs to identify development costs for each project in the updated plan.



# APPENDIX B

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## Task 2 Risk Report



October 27, 2021

Gwen Ichinose-Bagley  
Meredith Cambre  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, WA 98104

Subject: Risks to Camp Colman from Whiteman Cove Restoration, Longbranch, Washington

Dear Gwen Ichinose-Bagley and Meredith Cambre:

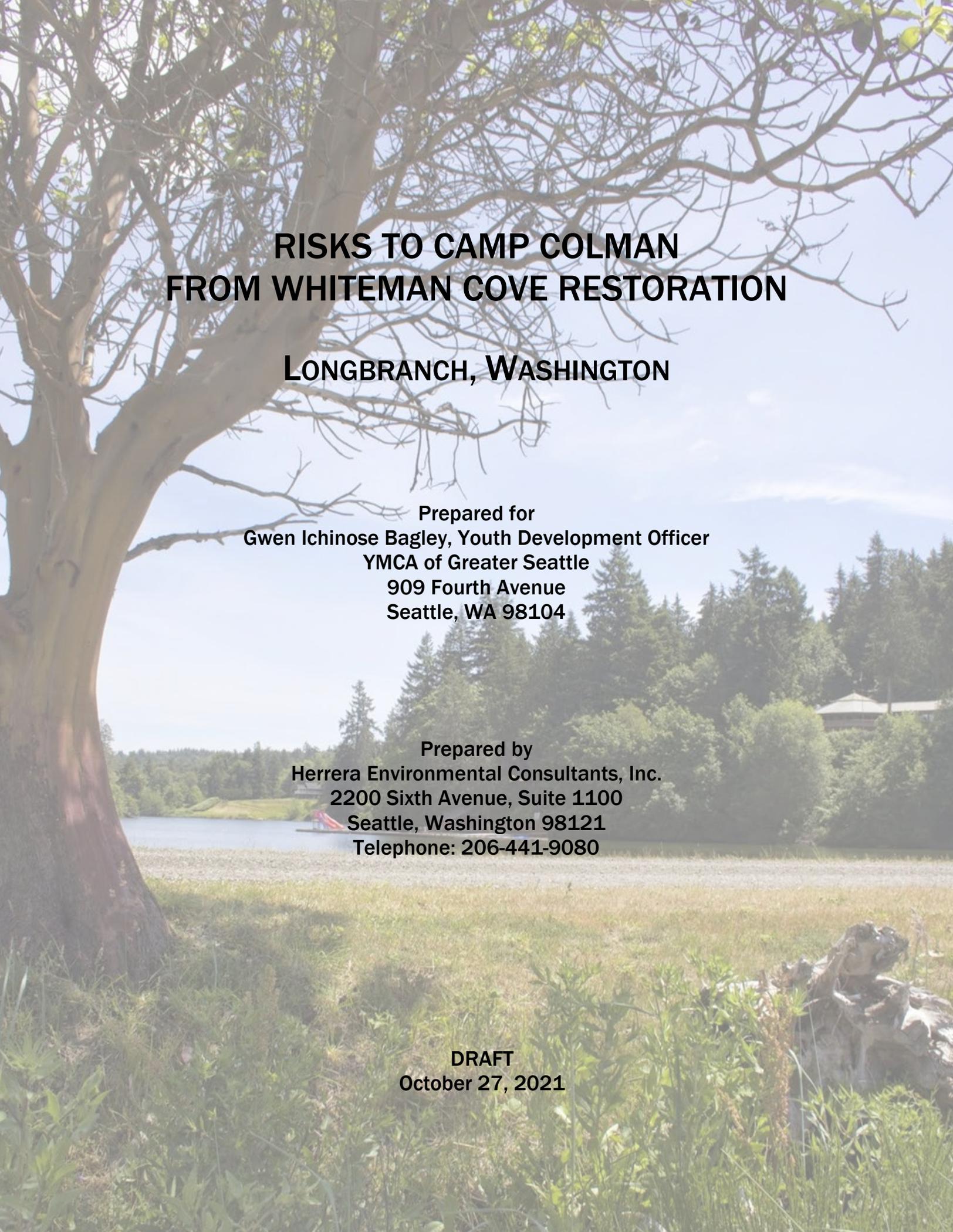
The Herrera team reviewed relevant background information on the DNR Restoration of Whiteman Cove and visited the site to better understand baseline conditions at Camp Colman. Based on this early assessment of the site and our current understanding of the DNR restoration, we have compiled the following review of potential risks to the Camp Colman property and camp facilities. This Task 2 report will form the foundation for the Task 3 Conceptual Development Plan.

Sincerely,

Herrera Environmental Consultants, Inc.

Andrea MacLennan, MS Senior  
Coastal Geomorphologist





# **RISKS TO CAMP COLMAN FROM WHITEMAN COVE RESTORATION**

## **LONGBRANCH, WASHINGTON**

**Prepared for  
Gwen Ichinose Bagley, Youth Development Officer  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, WA 98104**

**Prepared by  
Herrera Environmental Consultants, Inc.  
2200 Sixth Avenue, Suite 1100  
Seattle, Washington 98121  
Telephone: 206-441-9080**

**DRAFT  
October 27, 2021**

## OBJECTIVES

YMCA Camp Colman is located along the south shore of Whiteman Cove, on northeast Case Inlet, in Pierce County, Washington (Figure 1). The Washington Department of Natural Resources plans to conduct a large-scale restoration of the tidal channel that flows into Whiteman Cove, which was blocked in 1962. Restoration of tidal flow will result in inherent changes to the Camp Colman property including areas of increased flooding and erosion, as well as unique opportunities for environmental education and stewardship.

The objectives of this study are to evaluate site conditions, document likely changes to nearshore conditions on the YMCA Properties, identify potential risks to camp infrastructure, and outline opportunities for the Camp's waterfront programs.

This report consists of a summary of relevant background conditions at the site, followed by a summary of likely impacts to the Camp Colman property, and recommendations for Camp Colman infrastructure that will likely be affected following the DNR restoration. These recommendations and results will be then integrated to develop an alternatives analysis to guide the selection of a preferred design concept to address the ongoing combined issues of stormwater management and bluff recession.

## BACKGROUND

The subject property, YMCA Camp Colman, is located along the south shore of Whiteman Cove, on northeast Case Inlet in Pierce County, Washington. In its current state, Whiteman Cove is separated from Case Inlet by a filled historical tidal channel, on top of which runs Bay Road (Figure 1). This road provides the primary vehicular access to YMCA Camp Colman. Limited hydrologic exchange between Whiteman Cove and Case Inlet occurs through two large, gated culverts underneath Bay Road.

Under the 2013 federal court ruling *U.S. v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures" (United States v. Washington, 2013). In accordance with the ruling, DNR is seeking to remove the tide gate under state ownership at Whiteman Cove and restore fish passage between Whiteman Cove and Case Inlet (DNR, 2021).

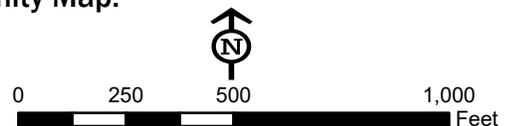


**Legend**

-  YMCA Parcels
-  Pierce County Tax Parcels
-  Roads



**Figure 1.**  
**Whiteman Cove and Camp Colman**  
**Vicinity Map.**



A preliminary restoration feasibility study requested by DNR in 2015 found that restoration of fish passage would require a tide channel greater than 40 feet wide to ensure that water velocities did not limit fish movement between Whiteman Cove and Case Inlet (Anchor QEA, 2015). This minimum size limitation informed the 2020 hydrologic assessment of the site, which evaluated four alternative fish passage restoration designs (Anchor QEA, Blue Coast Engineering, KPFF, 2020). Each alternative would restore fish passage while maintaining or rerouting vehicular access to Camp Colman. These alternatives included:

- Option 1: A new gated control structure at the current location of the DNR control structure, with improvements to access to Camp Colman
- Option 2: New weir control structure at historical opening to the north, with improvements to access to Camp Colman
- Option 3: Open channel at historical opening to the north; construct a bridge over the new opening to maintain vehicle access to Camp Colman
- Option 4: Open channel at historical opening to the north; construct a new road along existing, undeveloped county right-of-way from south into Camp Colman

The 2020 hydrologic assessment and feasibility report were provided to stakeholders, including local Tribal governments, YMCA Camp Colman representatives, and private property owners, for feedback on proposed alternatives and associated costs and impacts. Based on this feedback, DNR selected Option 3 as the preferred alternative for restoration (DNR, 2021).

## Historical Conditions

Prior to the 1960's, Whiteman Cove functioned as a tidally-influenced barrier estuarine lagoon with a tidal channel connecting the lagoon (Whiteman Cove) to Case Inlet (Figure 2). This tide channel was closed off in 1962 by the Washington Department of Fisheries in order to create a saltwater lake (also described as a "perched brackish water lagoon") suitable for rearing juvenile salmon (DNR, 2021; Figure 3). An intermittent freshwater stream outlets to Whiteman Cove's eastern extent, contributing to brackish conditions in the lagoon (Anchor QEA, Blue Coast Engineering, KPFF, 2020).

With the 1962 conversion to a fishery site, tidal exchange at Whiteman Cove was redirected to two large, gated culverts along the barrier (spit), allowing for restricted water flow in and out of the embayment. The historic tidal channel was filled and paved over, and currently provides vehicular access to YMCA Camp Colman. Use of Whiteman Cove as a managed fishery site was discontinued in the 1970s, but the road and associated tide gate infrastructure were left in place at the site (DNR, 2021).

In current conditions, minimal tidal exchange occurs between Whiteman Cove and Case Inlet, and the potential for fish passage into Whiteman Cove is relatively low (Figure 4). A 2012 WDFW

survey found that the northern gated culvert was completely impassable. The passage utility of the southern culvert is unknown but was found to be at least somewhat obstructed in a 2000 field survey by Pierce Conservation District (Anchor QEA, Blue Coast Engineering, KPFF, 2020).



**Figure 2. 1955 Aerial Image, Whiteman Cove (USGS).**



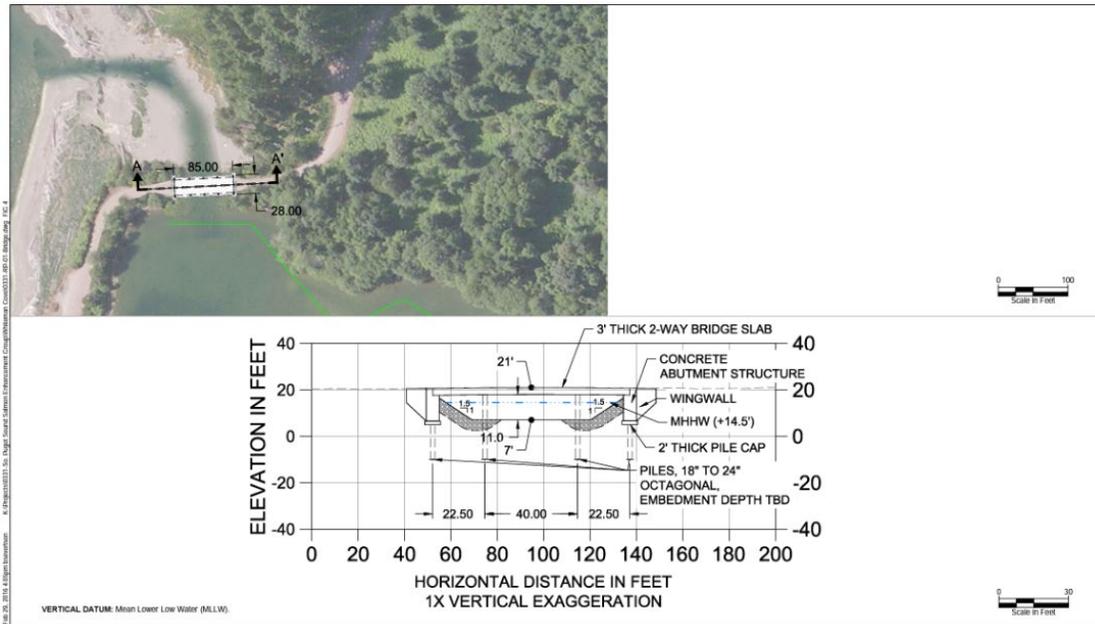
**Figure 3. 1961 Aerial Photo, Whiteman Cove (Pacific Aerial Surveys)**



**Figure 4. 2019 Aerial Photo, Whiteman Cove (Pierce County).**

## Summary of Changes Resulting from Restoration

DNR has been working with a consultant team lead by Anchor QEA on preliminary studies and engineering designs for the restored tidal flushing in Whiteman Cove. Of the proposed restoration options, Option 3, consisting of an open channel with a bridge to maintain current access to Camp Colman, was selected to meet the needs of the injunction to restore fish passage to and from Whiteman Cove (Figure 5).



**Figure 5. Draft Conceptual Design, Option 3 (AnchorQEA 2015).**

The selected design alternative, Option 3, would restore regular tidal inundation to Whiteman Cove in the vicinity of the historical tidal channel. This would be accomplished through removal of a portion of the fill across the historical tidal channel and the associated gated culverts (on DNR-owned land). A 100-foot (single/multi-span) bridge would be constructed over the reopened channel (Anchor QEA, 2015).

Per design details in the 2020 hydraulic assessment and feasibility report by Anchor QEA and others, the restored tidal channel design will have a natural (sand and gravel) bottom and will be aligned due north from Whiteman Cove. The channel would be designed at the elevation of the historical channel, thought to be about 3 feet NAVD88 (+7 feet mean lower low water (MLLW)). The elevation of the bottom of the channel (thalweg) would be allowed to fluctuate but is expected to remain stable within a range of a several feet over the long term. The channel will gradually curl to the northwest and connect with Case Inlet at a bed elevation of approximately +2 feet NAVD88 (+6 feet MLLW; Anchor QEA, Blue Coast Engineering, KPFF, 2020).

The restored inlet would measure approximately 550 feet long with a bed slope of 0.002. At its maximum, the restored channel would measure approximately 85 feet in width at the mean higher high water (MHHW) elevation (+10.4 feet NAVD88) and approximately 62 feet wide at

the thalweg (+3 feet NAVD88). The channel side slopes would be set to a slope of 1.5H (horizontal):1V (vertical). This option would also include a bridge and abutments along the existing alignment of the access road. The bridge design would entail adequate freeboard above extreme water levels. As such, the bridge deck is not expected to affect the hydraulics of the inlet (Anchor QEA, 2020).

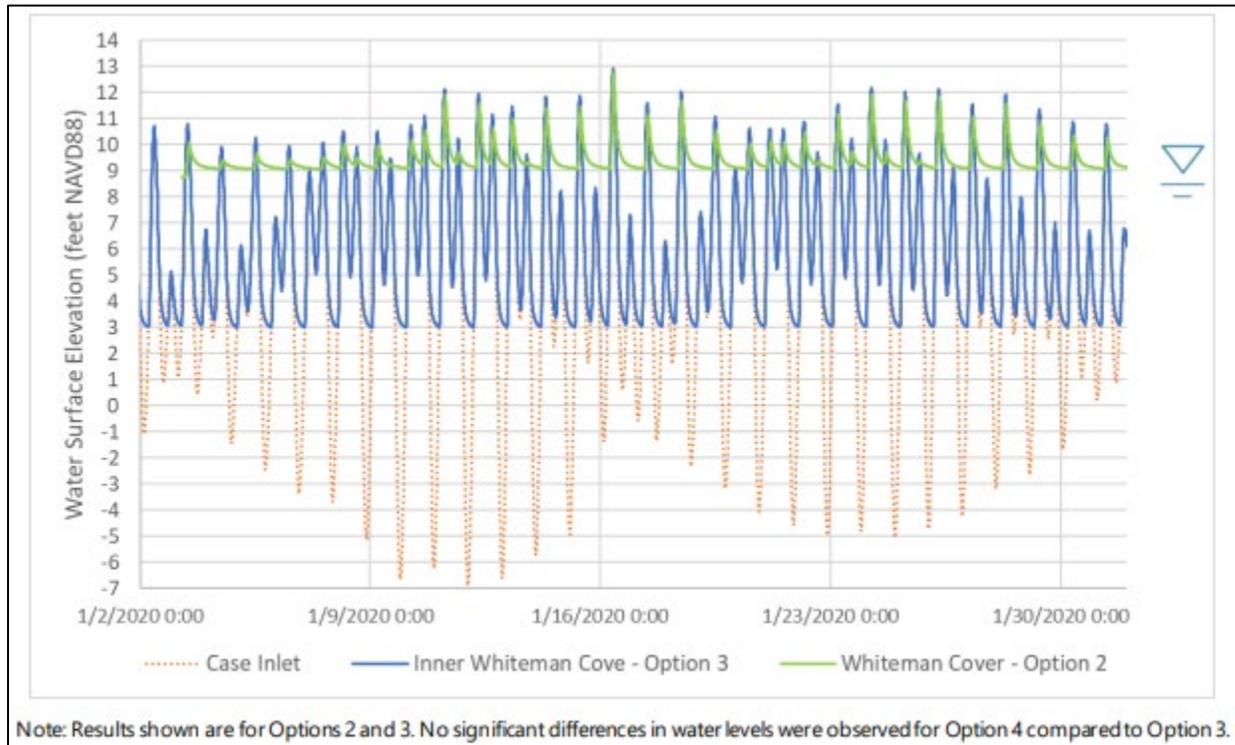
Restored water levels in the lagoon would be synchronized with Case Inlet, except when tides are below the elevation of the bottom of the channel. Although the proposed restored tidal channel would be considerably smaller than the width of the historical opening (which was between 100 and 120 feet wide; Anchor QEA 2020), results of 2D model simulations show that tidal exchange will be similar to historical conditions (Anchor QEA, 2020).

As a result of the proposed restoration approach, full inundation and drying of Whiteman Cove will be restored over the tidal cycle. Currently water surface elevations (WSE) in the Cove currently range from 13 feet MLLW (+9 feet NAVD88) to 14.5 feet MLLW (+10.5 feet NAVD88) but remain relatively constant at +13 feet MLLW (or 8.9 feet NAVD88; Table 1; Figure 6; Anchor QEA 2020). Following restoration, WSE within the Cove will be lower than the current water level elevation roughly 85 percent of the time, and higher than current water levels between 5 percent and 20 percent of the time over the course of a year (Anchor QEA, 2020).

During low tides in Case Inlet, the water level in the cove will drop approximately 6 feet below the current water level. This will result in most of the cove going dry at tides lower than 7 feet MLLW (+3 feet NAVD88). The tide is expected to be lower than this value about 30 percent of the time over the year (Anchor QEA, 2020). Increases in WSE from current conditions will primarily occur during high tides. However, as a result of the restored tidal flushing, the inner shoreline of Whiteman Cove will be more vulnerable to high water events, including storm surges caused by low pressure systems in the region as well as sea level rise. The effective 100-year Federal Emergency Management Agency (FEMA) flood elevation in Whiteman Cove is currently 17.1 feet MLLW (+13 feet NAVD88). Sea level rise projections for 2050 will likely contribute an additional 0.7 feet of water surface elevation, and considerably more between 2050 and 2100 (Miller, et al., 2020).

**Table 1. Water Surface Elevations at Whiteman Cove (AnchorQEA 2020).**

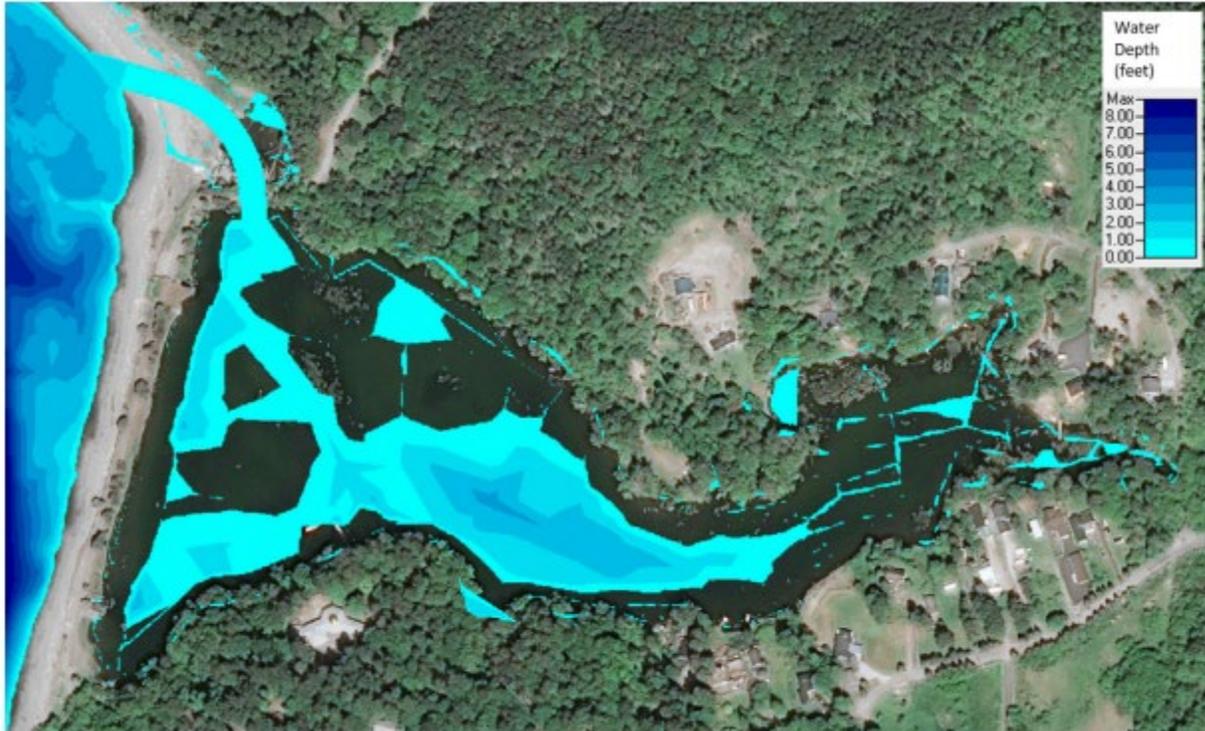
<b>Tidal Datum</b>	<b>Elevations Relative to MLLW (feet)</b>	<b>Elevation NAVD88 (feet)</b>
Current water level in Whiteman Cove	14.1	10
MHHW	14.5	10.4
Highest Astronomical Tide (HAT)	16.5	12.4
FEMA 100-year flood elevation	17.3	13
Mean higher high water (MHHW)	14.5	10.4
MHHW + SLR by 2050 (0.7 foot)	15.2	11.1
HAT + SLR by 2050 (0.7 foot)	17.2	13.1
FEMA 100-year elevation without wave run-up + SLR by 2050 (0.7 foot)	18	13.9



**Figure 6. Predicted Water Surface Elevations in Whiteman Cove and Case Inlet (Anchor QEA, 2020).**

The decrease in WSE at Whiteman Cove will have implications on the usability of the lagoon for swimming and boating. Additionally, the natural processes and decay of organic material is likely to contribute to sulfur-like odors during low tides in the lagoon. When low tides in Case Inlet drop below the proposed thalweg (lowest elevation in the restored tidal channel; 7 feet MLLW, +3 feet NAVD88) most of the lagoon shore will be dry with some ponding in areas below the thalweg elevation. Water levels are expected to be lower than 7 feet MLLW about 35 percent of the time over a typical year (Anchor QEA 2020). Figure 7 shows the areas in which there will likely be ponded water, based on the existing restoration design and recent bathymetric mapping.

Although more limited in frequency, there will also be regular times during which the WSE in Whiteman Cove is higher than the current elevation of +13 feet MLLW (8.9 feet NAVD 88). Anchor QEA’s hydraulic modeling outputs showed that heightened WSE could range from a few inches to up to three (or more)h higher in Whiteman Cove, primarily during higher-high tides. Less frequently, but still regularly (several days per month), water surface elevations will exceed 13 feet twice per day (Anchor QEA, 2020).



**Figure 7. Water Depth During Low Tide Conditions, Based on Modeling Results (from Anchor QEA 2020; Appendix A).**

The additional WSE will result in flooding of areas that are not currently subjected to salt water, which will be discussed further below (see *Areas at Risk of Flooding*). The additional areas flooded with salt water will result in a broader band of salt marsh vegetation within the Cove, likely within the elevations of 9 to 11 feet NAVD88 (13.1 to 17.1 feet MLLW). Expanded saltwater inundation will also result in changes to riparian vegetation along the shoreline, such as die-back of less salt tolerant upland vegetation that have grown in since the tide channel was filled, including trees along the shoreline of the Cove.

The added WSE will also affect the stability of the bluff along the south shore of the Cove, where Camp Colman is currently centered. Reintroducing tidal waters to the bluff toe will result in natural coastal bluff recession processes, which demonstrate a dynamic equilibrium between the water level, the toe of the bluff and the bluff crest. Water table elevations and bluff geology can also contribute to bluff erosion rates. As WSE increases against the toe of the bluff, the saturated bluff toe will erode and become undermined, which will drive landward adjustment up the bluff face and recession eventual recession of the bluff crest.

Bluff geology on the Camp Colman property is largely a product of the last period of glaciation, the Vashon Stade of the Fraser Glaciation, which ended roughly 14,000 years ago. Locally, glacial till is mapped overlying advance outwash sands (Powell, 2018). Glacial till is described as an unsorted and highly compacted mixture of clay, silt, sand and gravel deposited directly by glacier ice (Logan et al. 2003). Beneath the glacial till, glacial outwash sands were mapped and described as sand and gravel and lacustrine clay, silt and sand of northern source, deposited

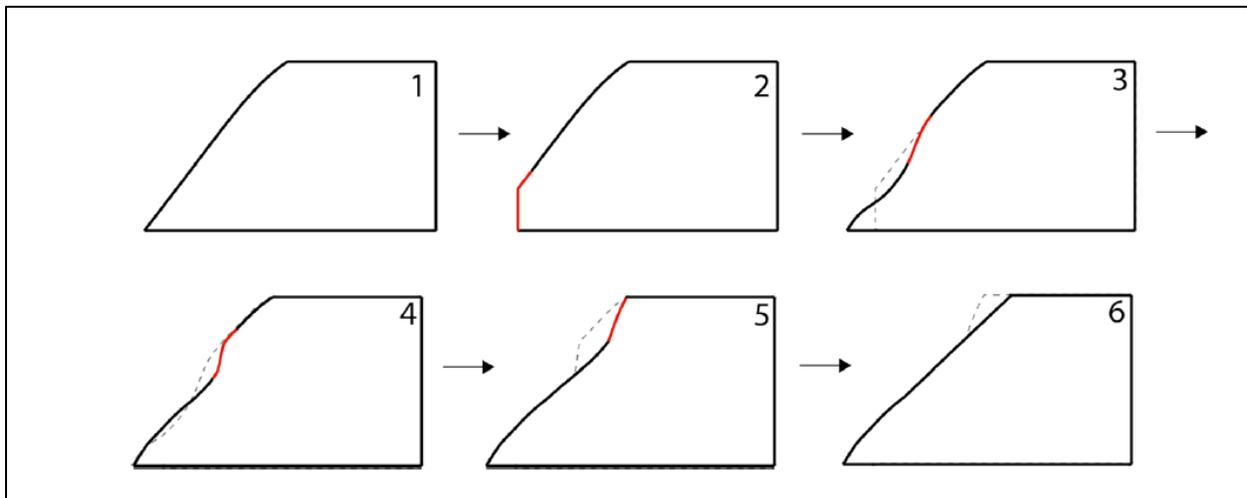
during glacial advance, generally permeable with low cohesivity relative to overlying and underlying sediments and subject to deep-seated sliding (Logan et al. 2003). Further east, including the Taylor property, surface geology is mapped as lacustrine clayey and fine sandy silt (Logan et al. 2003).

Landslide deposits have also been mapped in the area by Pierce County and DNR. Pierce County mapped much of the Camp Colman uplands as being within potential landslide hazard areas due to the bluff geology and slope (Pierce County PLS, 2018). Coring data showed that water was perched due to the poorly draining glacial till, in which ponded water can often be observed at the surface following periods of heavy rain. Soils mapped near the Whiteman Cove shoreline consist of surface soils from the Kitsap-Indianola complex, at 45- to-70-degree slopes. These soils are listed as a severe erosion hazard. The corresponding geologic unit for these soils is glaciolacustrine deposits. Farther south, soils are sandier and are considered only a moderate erosion hazard (Powell, 2018).

Previous studies have been conducted of bluffs with similar glacial geology along the shores of Lake Michigan, which has incurred dramatic changes in water surface elevations (Krueger, 2019). Higher bluff slope angles were found to result in a greater percentage of the bluff face being unstable, though all bluffs showed spatial and temporal variability in response to mechanisms that triggered erosion events (such as heavy precipitation events; Krueger, 2019). In addition, shallow bluff failures (less than 3 feet in depth) occurred as a series of events instead of as one mass movement (Krueger, 2019). Bluffs comprised of less cohesive sandy bluff sediment exhibited more failures relative to those comprised of till-like units. Pore water pressure and water table elevation also contributed to unstable bluff surfaces (Krueger, 2019).

The pace at which this process of erosion will occur is uncertain. Krueger et al. (2019) found that the average time between water level increase and erosion events was approximately 5 years, resulting in landslide propagation up the bluff face at an average rate of approximately 6 to 14 feet per year (Figure 8). The bluffs within the Cove at Camp Colman are likely to adjust at a significantly slower pace due to the lack of wave energy within the Cove to transport landslide colluvium eastward, which temporarily buffers the toe of the slope from additional erosion. The bluff-derived sediment deposited on the lagoon beach will eventually erode, however, and this cycle of bluff recession will resume, as it does on all coastal slopes. This natural coastal bluff erosion process will persist over time due to additional WSE adjustments associated with sea level rise.

Landslides occur almost every year in the Puget Sound region during the wet season, which typically lasts from October through April. Previous research has documented a known precipitation threshold for when landslides are most likely to occur in the region. Shallow landslides most commonly occur during and following approximately 3 days of very heavy precipitation, longer periods (15 to 32 days) of substantial rainfall or some combination of the two (Scheevel et al. 2017). Coastal bluffs landslide susceptibility is greater when high water events coincide with periods of heavy precipitation. Therefore landslide activity is most likely to occur on the Camp Colman bluffs during heavy rains at Camp Colman over the 5 to 10 years that follow restoration at Whiteman Cove and more gradually in the years that follow that.



**Figure 8. Stages of Bluff Recession from the Toe Up the Bluff Face Resulting from Rise in Water Level from (Krueger, 2019)**

## DATA GAPS & UNCERTAINTIES

There are several data gaps and uncertainties associated with the implications of the Whiteman Cove restoration on the Camp Colman property. Accurate, recent site topographic mapping is critical to both understanding bluff geometry and identifying precise elevations within the buffer where most change is likely to occur – primarily from the beach to the uplands. Understanding the current shape of the bluff profile and its natural angle of repose will aid in the interpretation of how the bluff will respond to the heightened water levels as well as the likely pace of bluff crest recession, which has obvious implications on the safety of Camp Colman buildings and infrastructure. Although very informative, LIDAR data is of coarse resolution and is not optimal in areas where there is very dense forested vegetation.

Additional specifications and model outputs associated with the restoration design are also relevant to forecasting changes that may occur on the Camp Colman properties. Specific design details, such as the restored channel geometry and changes to lagoon bathymetry, will have implications on water surface elevations within the restored lagoon. Currently, it is uncertain whether additional dredging or filling in the lagoon basin will be conducted to recreate historical conditions.

Background bluff recession rates within the lagoon are also uncertain. Background bluff recession rates are long-term erosion rates from the time prior to the closure of the tidal channel and the relatively static water surface elevations within the lagoon. There is no known data on bluff recession rates within the lagoon, though they are likely to be similar to other coastal bluffs in southern Puget Sound with minimal wave exposure, similar upland geology, and similar tidal range. The expected rate of bluff retreat for these conditions would likely range from 0.05 to 0.20 feet per year (CGS, 2018).

Future rates of sea level rise will also contribute to both flooding and erosion hazards at Camp Colman. Although best available science (Miller, et al., 2018) exist for sea level rise projections in the Puget Sound region, there is considerable uncertainty with respect to the timelines in which sea level rise will occur, particularly beyond 2050, when their impacts to bluff stability will be most profound.

## CURRENT CAMP USE

Primary site uses at Camp Colman center around recreation and education in the existing Whiteman Cove saltwater lagoon. This includes swimming and watercraft use of the lagoon by various user groups (child/youth recreation, all-ages outdoor education, organizational retreat groups, etc.). It is anticipated that restored tidal cycles and lower average water levels in Whiteman Cove will reduce the times and areas in which water is accessible for recreation and education activities. A needs assessment describing current uses, anticipated impacts, recommended actions, and opportunities for new program growth and site utilization is included in Appendix A (Oates, 2021).

## AREAS AT RISK DUE TO WHITEMAN COVE RESTORATION

Risks to Camp Colman associated with the restoration were broadly categorized as risks from either flooding or erosion resulting from the restored tidal flow in Whiteman Cove. These risks are both described in the following sections as well as spatially in Figures 9 and 10.

### Areas At Risk of Flooding

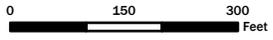
Risk associated with flooding were identified by elevation using the Pierce County LIDAR data (2011), slope data and water surface elevation data. We recommend that these areas be re-evaluated following acquisition of additional, more-current topographic survey data. The risk of flooding will increase over time at Camp Colman, but the most dramatic changes will likely occur within a few years following restoration of tidal flushing and then continually due to additional water level contributed from SLR.

The initial impacts to Whiteman Cove include inundation and potential erosion of the coastal path that extend along the southwest shore of Whiteman Cove, the historical marine science center, and the aquatics program area. Eventually the coastal road will be breached by waves, which could contribute additional erosion of the shoreline (Figure 9).



Figure 9. Areas at Risk of Flooding Following Whiteman Cove Fish Passage Restoration.

- Legend**
- Flood Hazard Areas
  - Roads
  - YMCA Parcels
  - Pierce County Tax Parcels

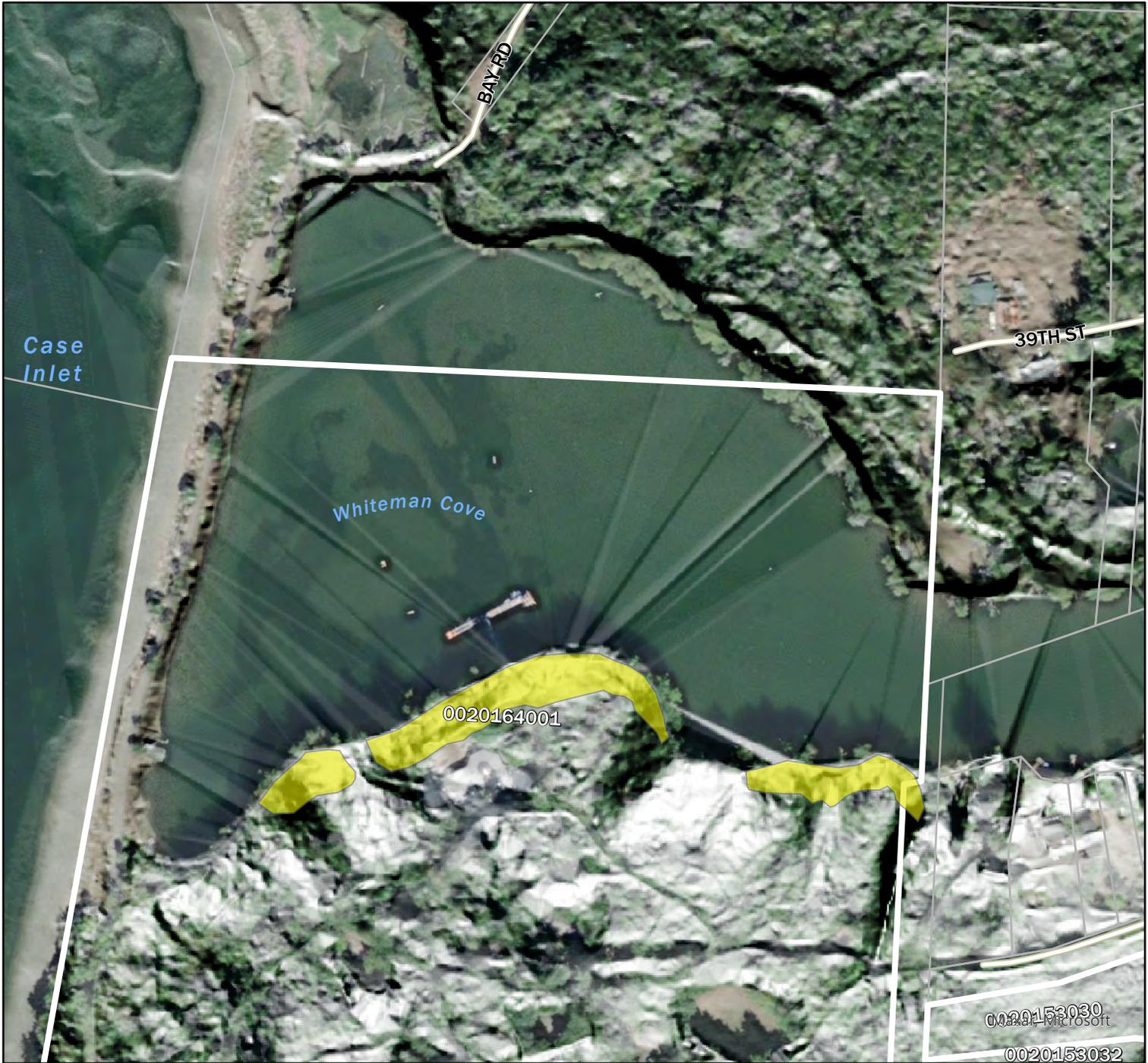
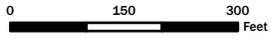


Figure 10. Areas at Risk of Erosion Following Whiteman Cove Fish Passage Restoration.

- Legend**
- Erosion Hazard Areas
  - Roads
  - YMCA Parcels
  - Pierce County Tax Parcels

## Areas at Risk of Erosion

Areas at risk of erosion within Whiteman Cove are shown in Figure 10. These areas of heightened erosion risk will increase over time and were identified by evaluating slope, geology, and site topography. These areas should be re-evaluated if and when updated site topography data is available. Erosion hazard areas are primarily along the south face of the bluffs where the slope gradient is highest, and along some areas of the spit (Figure 10). The most concerning areas at risk of erosion include the locations near cabins, the access stairway and ramp to the aquatics area, and the firepit area, which has a very steep drop-off that will soon be inundated with tidal waters.

## RECOMMENDATIONS

These recommendations are based on mapped risk areas associated with the restoration of Whiteman Cove. Each recommendation considers potential risk to campers in an uncertain, changing environment.

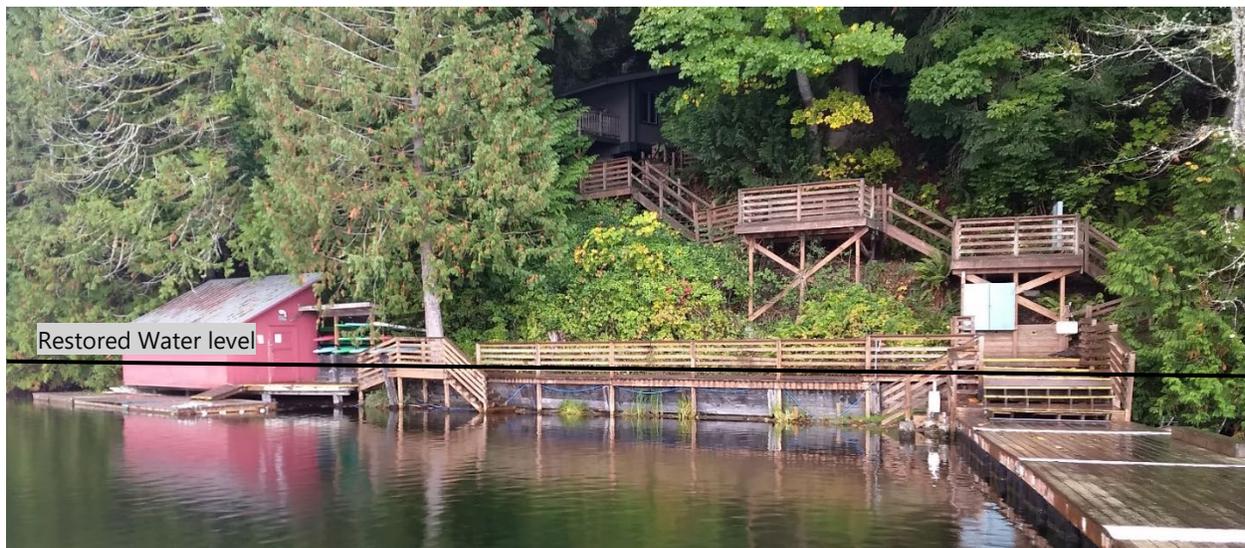
### Modify Existing Dock/Aquatics Program Center

The current cement anchors are insufficient for the restored tidal environment (Figure 11). These anchors should be replaced with piles that will allow the dock and other overwater structures to rise and fall with the tide and be secured in the same position, particularly during storms. The current, fixed attachment of the dock to the shore does not allow for the rise and fall of tides expected after restoration.



**Figure 11. Existing Cement Anchors for Docks in Whiteman Cove.**

A new gangway will be required, secured to a deck or pier elevated above the highest tides to allow for vertical movement of the dock (Figure 12). Part of the existing decking along the access stairs could be repurposed for attaching the gangway. The access stairway to the aquatics program area should be rebuilt with its footings set at a higher elevation, and potentially repositioned to traverse a less steep area, as the bluff face is very steep and vulnerable to future erosion following restoration. The boat house located at the toe of the bluff should also be either relocated or an additional suitable location for storage should be constructed near the shoreline. Alternatively, although likely at a higher cost, a floating storage structure could be incorporated into the dock.



**Figure 12. Gangway, Decking, and Access Stairs Will Need To Be Rebuilt to Accommodate Restored Water Level.**

## Monitor

Having a clear baseline understanding of nearshore conditions prior to and immediately following restoration will be an important element of documenting impacts of the restoration as they occur. Regular monitoring provides useful data that can be used to answer questions about the past and future of site conditions and empowers site managers to make sound decisions. Annual topographic surveys can be used to document surface erosion and document erosion rates over time.

Additional ecological monitoring could be conducted to document the changes and benefits of restoration, including presence of marine species (Figure 11, note crab), birds, fish, marine riparian areas (shoreline vegetation), and large woody debris presence. Some monitoring should be conducted in the field by professionals, but there is considerable opportunity to expand this opportunity to the camper community. An important element of any survey is having regular references points from which to collect photos and other measurements.

## Stormwater Management

The combination of shallow groundwater at the site, documented poor permeability of the underlying geology, and presence of soils that are vulnerable to erosion suggests that improved stormwater management could benefit erosion hazard areas. Water from gutters and parking lots should not be allowed to flow directly down the bluff face but should be captured and dissipated in areas with low slopes and dense upland vegetation or tightlined directly to base of the bluff (Figure 13). Additional data on the existing topography and drainage infrastructure will be required for design of a stormwater management system.



**Figure 13. Rills from stormwater Flowing Down the Uplands to the Bluff Face.**

## Vegetation Management

Enhancing native vegetation cover, particularly in areas at risk of erosion, will help to reduce erosion vulnerability along the bluff shoreline. Conifers should be planted landward of the bluff crest to provide additional water absorption and structure to bluff soils. As older, existing trees are eventually eroded from the bluff, planting these additional trees will ensure that trees are perpetually enhancing the stability of the bluff, particularly along steep shoreline areas. Over time, recruitment of large woody debris (LWD) from lower elevations of the bluff face will occur, with trees falling to the beach and bluff toe. Consider hiring an arborist to actively manage the ways in which trees erode from the bluff.

Non-native English ivy (*Helix hedera*) and Himalayan blackberry (*Rubus armeniacas*) should be removed from trees and surrounding soils where possible. Ivy and blackberry can impair the growth and health of other native shrubs and trees, create a monoculture, and exclude the growth of other plant species that contribute to soil stability. This has already happened in some

areas where invasive species are abundant, particularly along the bluff face waterward of the lodge.

## Relocating Camp Infrastructure

Cabins that are near the bluff crest should be relocated farther landward (Figures 14 and 15). Of primary concern is Henderson and Rotary cabins, which already exhibit signs of soil creep around them (e.g., tree bases bent toward the water). Additional topographic survey of the steep bluffs will help identify a recommended setback distance and potential areas for relocation.

Similarly, the campfire ring and shed should be relocated to a location away from the bluff crest (Figure 15). Examination of the bluff showed obvious signs of instability just below the fence in that location, with roots exposed up to 12 inches from the edge where the bluff has been slowly eroding out from under the trees.



**Figure 14. Henderson and Rotary Cabins in Close Proximity to the Bluff Crest.**



**Figure 15. Close Proximity of Storage Shed to Bluff Crest.**

## Next Steps

This report represents the first deliverable and presents Herrera’s assessment of existing conditions and the potential risks associated with Whiteman Cove Restoration. The next report will focus on providing a conceptual development plan that focuses on adapting to the risks and opportunities associated with restoration of tidal flow within Whiteman Cove. Opportunity areas will be ranked with relevant supporting information compiled on project costs, permitting requirements, and YMCA cultural values. Design concepts, cost estimates, and permitting recommendations will be developed for the highest-ranking opportunities.

## REFERENCES

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# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 2:21PM

Project Number: 92000039

Project Title: Camp Colman Cabin Preservation and Upgrades

## Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 99

### Project Summary

In the 2022 Department of Natural Resources (DNR) Supplemental Budget, the Legislature provided \$1,400,000 for cabin preservation and system upgrades at Camp Colman. Camp Colman, run by the YMCA, provides outdoor access and environmental education to youth with a focus on Black, Indigenous, and Youth of Color (BIPOC). DNR, on behalf of YMCA, is requesting reappropriation of \$700,000.

### Project Description

#### Identify the problem or opportunity addressed. Why is the request a priority?

This request will reappropriate \$700,000 for cabin preservation and system upgrades at the YMCA-run Camp Colman. Camp Colman has operated at the Whiteman Cove site since 1912, with the YMCA of Greater Seattle taking over management of the camp in 2000. YMCA programming at Camp Colman delivers outdoor access and environmental programs to over 2,500 children, teens, and families annually. In alignment with the YMCA's mission, the Camp places emphasis on providing access to outdoor spaces for Black, Indigenous, and People of Color (BIPOC) youth that traditionally face barriers to outdoor access. The work of the YMCA is additionally focused on ensuring culturally affirming and restorative practices at the Camp to ensure retention of BIPOC youth in education and recreational programs. Whiteman Cove was created by Washington Department of Fisheries in 1961, when a roadway berm closed the natural connection between the estuary and Case Inlet (on Puget Sound), creating a lagoon that the YMCA has used for boating and swimming activities for their campers. The tide gate creating the lagoon prevents passage of fish between bodies of water on the Key Peninsula and Case Inlet. Under the 2013 federal court ruling, *United States v Washington*, the State of Washington has an obligation under treaties with 21 tribes to protect and preserve tribal fishing rights. The obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures" (*United States v. Washington* 2013). The ruling required that fish passage at Whiteman Cove is re-established, so DNR is removing the tide gate to restore fish passage in accordance with this ruling.

As a result of the tide gate removal, Whiteman Cove will be reconnected to oceanographic influence from Case Inlet, affecting some infrastructure, facilities, and programming at Camp Colman. The risk of erosion will require relocation or reconstruction of several youth cabins and a septic pump station. A consultant report outlining priority actions for the Camp ([link to report in attachments](#)) was provided to the legislature in 2021, including an initial analysis of permitting pathways and design needs. Within the report, consultants identified potential development opportunities for the retooling and adaption of Camp Colman to the Whiteman Cove restoration.

#### What will the request produce or construct? When will the project start and be completed?

This \$700,000 reappropriation request will continue work previously funded by the legislature for cabin preservation and system upgrades, such as the associated electrical and water treatment systems. The reappropriated \$700,000 reflects the timing of long-term lead items (water storage tanks, etc). Work is projected to be completed later in 2025.

#### How would the request address the problem or opportunity? What would be the result of not taking action?

The request will allow Camp Colman to continue to serve youth and families from across Washington, with an emphasis on providing outdoor access and environmental education to BIPOC youth. The reappropriation will allow the YMCA to continue making progress toward preservation of the Camp by continuing the actions described above. The original funding request capitalized on the opportunity to promote the co-benefits of habitat restoration by demonstrating a successful private-public partnership between DNR and the YMCA. Successful removal of the fish passage barriers will uphold Tribal Treaty Rights, while simultaneous preservation of the Camp allows the public to recognize the value of environmental education. Without

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

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Project Title: Camp Colman Cabin Preservation and Upgrades

**Description**

these actions, key facilities and infrastructure of the Camp could be impacted.

**What alternatives were explored? Why was the recommended alternative chosen?**

The cabin preservation and system upgrades work funded by the Legislature in the 2022 Supplement Budget is underway. The reappropriated \$700,000 reflects the timing of long-term lead items (water storage tanks, etc). Work is projected to be completed later in 2025. Reappropriation is necessary to ensure continued camp operation and camper safety.

**Which clientele would be impacted by the budget request?**

This request directly supports the YMCA of Greater Seattle and its associated communities, most notably BIPOC youth who gain outdoor access and environmental education through the camp. Preservation of Camp Colman ensures the facility can continue to serve the 2500+ participants who use the camp annually to learn about natural resources and the outdoors. Continuation of services by Camp Colman is important for DNR's continuing commitment to environmental justice by ensuring equitable access for kids of color in culturally affirming settings.

**Does this project or program leverage non-state funding? If yes, how much by source?**

The YMCA is contributing \$750,000 to cabin relocations and hopes to engage additional funding sources throughout the project.

**Describe how this project supports the agency's strategic master plan or would improve agency performance.**

This project aligns with the agency mission to promote environmental justice, equitable outdoor access, and environmental education.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

Not applicable.

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

This proposal is directly aligned with multiple Influential Outcomes, Strategies, Actions, and Key Opportunities in the 2022-2026 Puget Sound Partnership Action Agenda by continuing and promoting equitable access to opportunities for outdoor recreation and stewardship in concert with promotion of Tribal Treaty Rights.

The Influential Outcome directly advanced by this proposal is:

5.6 Ensure that the health of the human population of Puget Sound is improved in ecosystem conditions and vulnerable populations and underserved communities do not experience inequitable health outcomes

The Strategies, Actions, and Key Opportunities directly advanced by this proposal include:

Strategy 11: Effectively manage and control fecal pollution and disease-causing bacteria and viruses from small onsite sewage systems (OSS) and larger onsite sewage systems (LOSS). (ID #40)

Key opportunity: Ensure landowners have access to and are eligible for incentives, loans and other funding sources for OSS maintenance and upgrades.

Strategy 21: Increase access to and visibility of mental health connections to a healthy natural environment (ID # 158)

Key opportunity: Manage and preserve natural areas for stress reduction, motivation, and long-term place attachments

**490 - Department of Natural Resources  
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Key opportunity: Increase Park and open space access, especially for marine shorelines, for all people and communities Strategy 22: Identify and fund removal of barriers resulting in the exclusion of people from participating in recreation and stewardship activities. (ID #160)

Key opportunity: Increase funding and support for community-based and local advocacy groups, in both urban and rural settings, that work directly with vulnerable populations and underserved communities

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

Not applicable.

**How is your proposal impacting equity in the state?**

This proposal directly impacts equity across the state by allowing continuation of services at Camp Colman that serves BIPOC youth in a culturally affirming way. Preserving and improving facilities will allow Camp Colman to continue their mission to serve all youth. BIPOC see the largest gap in access to outdoor spaces in the United States. To overcome the barriers to access to Camp Colman's outdoor space, the YMCA provides a number of programs to assist participants in gaining access to the camp; offering subsidized pricing for all programs, offering financial assistance for those who need it, offering transportation to programs, as well as stocking commonly needed items at Camp Colman that people need for their outdoor experience; bedding, toiletries, flashlights, rain jackets, etc.

In addition to barriers to access, BIPOC youth are disproportionately suspended from educational programs, further impeding educational and outdoor access even if barriers to entry have been removed. Camp Colman has taken on these barriers and put into practice programs to not only lessen the number of BIPOC youth suspended from programs, but create spaces where BIPOC youth experience belonging and connection while at Camp Colman. To overcome suspending a disproportionate number of BIPOC youth, Camp Colman has adopted restorative practices in all programs. Restorative practices consist of three pieces: community building, conflict resolution, and reflection. All programs have opportunities for participants to experience each of the three pieces. In practice, these steps are quite practical, participants participate in activities to help build community in their group; boating, traditional teambuilding, group games, etc. When conflict is experienced at Camp Colman, the parties are invited to participate in a conversation which focuses on what happened and how the parties can move forward positively together. At the end of the program day, participants are led through a reflection time to share with their group about the day and their experience. From 2021 to present Camp Colman has reduced the number BIPOC youth suspended from programs by 60% and reduced the overall suspensions by 40%, allowing more youth to have positive experiences in outdoor programs at Camp Colman.

**Is this project eligible for Direct Pay?**

Not applicable

**Is there additional information you would like decision makers to know when evaluating this request?**

This is one of two reappropriations request for 2025-27 and was the first request presented to the legislature in 2022 to fulfill preservation of Camp Colman. The YMCA of Greater Seattle anticipates additional forthcoming requests for other phases of the Camp Colman preservation project.

490 - Department of Natural Resources  
**Capital Project Request**

2025-27 Biennium

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Project Title: Camp Colman Cabin Preservation and Upgrades

**Description**

If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action

Not applicable.

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

This project was not funded prior to the 2021-23 biennium. This project was funded in the 2022 supplemental budget. This is the second reappropriation request.

**Location**

City: Unincorporated

County: Pierce

Legislative District: 026

**Project Type**

Infrastructure Preservation (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	1,400,000		700,000	700,000	
	<b>Total</b>	<b>1,400,000</b>	<b>0</b>	<b>700,000</b>	<b>700,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

This budget request directly supports the Greater YMCA of Seattle and its associated communities, most notably BIPOC Youth who gain outdoor access and environmental education at Camp Colman. Preservation of Camp Colman ensures the facility can continue to serve the 2500+ participants who use the camp annually to learn about natural resources and the outdoors. Continuation of services by Camp Colman ensures equitable access for kids of color in culturally affirming settings.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Camp Coman is not located in an area defined in the OBC map as an overburdened community or vulnerable population; however, the funds do not only benefit those communities in the immediate vicinity. Camp Colman serves youth and families from across Washington, with an emphasis on providing outdoor access and environmental education to BIPOC youth.

Black, Indigenous, and People of Color (BIPOC) see the largest gap in access to outdoor spaces in the United States. To overcome the barriers to access to Camp Colman's outdoor space, the YMCA provides a number of programs to assist participants in gaining access to the camp; offering subsidized pricing for all programs, offering financial assistance for those who need it, offering transportation to programs, as well as stocking commonly needed items

at Camp Colman that people need for their outdoor experience; bedding, toiletries, flashlights, rain jackets, etc.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Under the 2013 federal court ruling, *United States v Washington*, the State of Washington has an obligation under treaties with 21 tribes to protect and preserve tribal fishing rights. The obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures" (United states v. Washington 2013). The ruling required that fish passage at Whiteman Cove is re-established, and DNR is removing the tide gate to restore fish passage in accordance with this ruling. As a result of the tide gate removal, Whiteman Cove will be reconnected to oceanographic influence from Case Inlet. Risk of erosion will require relocation or reconstruction of several youth cabins and a septic pump station. Successful removal of the fish passage barriers will uphold Tribal Treaty Rights, while simultaneous preservation of the Camp allows the public to recognize the value of environmental education.

The plan includes a future vision for Camp Colman centered around environmental education, experiential learning, Pacific Northwest history, salmon lifecycles, marine ecosystems, shellfish, climate change, and the Coast Salish People, Squaxin Island Tribes and other northwest indigenous cultures. The restoration of Whiteman Cove presents an incredible learning opportunity to be an endless source of adventure and inquiry for summer campers and guests year-round.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

Community, Tribal, and regulatory input was considered during alternatives analysis for the Whiteman Cove estuary reconnection design. Impacts to Camp Colman and potential preservation actions were considered during the planning for Whiteman Cove restoration. Tribal outreach for the proposed actions will occur during the planning and design phase funded under this proposal.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

Not applicable.

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

Not applicable.



December 13, 2021

Dear Members of the Washington Legislature,

Thank you for providing funding in the 2021-2023 Capital Budget for the YMCA of Greater Seattle to collaborate with the Squaxin Island Tribe and the Washington Department of Natural Resources in creating a plan to preserve and enhance the YMCA's Camp Colman while DNR moves forward with the restoration of the Whiteman Cove saltwater estuary.

*The Capital Budget provided (1) \$100,000 for DNR to contract with a third party facilitator for the purpose of collaborating with the YMCA on finding solutions for maintaining a high-quality camp experience while establishing a barrier-free passage for migrating fish species at Whiteman Cove, (2) \$500,000 for DNR to grant to the YMCA to retain expertise to scope, plan, and advance the future of the Camp Colman experience given the restoration of the Whiteman cove estuary and (3) \$300,000 for DNR to design the fish blockage removal and predesign enhancements for a new bridge and roadway across Whiteman Cove that are part of the fish blockage removal project and necessary as part of maintaining the route as access to the camp, taking into consideration the means to maintain continuous road access to Camp Colman for campers and camp staff without disruption, ensure the continuation, mitigation and innovation of Camp Colman's recreational, water safety, and environmental education programs in the saltwater estuary, and maintain the critical outdoor experiences for historically marginalized and underrepresented communities..*

*The Capital Budget further required that "the planning process should be inclusive of tribal input, with an open invitation for their participation, and must include department technical experts, participation from the departments of ecology and fish and wildlife, and any other resources needed. The plan should include a vision for how the cove can be returned to a fully functioning estuary, benefiting native flora and fauna, as well as serve as an environmental outdoor educational opportunity that will serve youth and families, especially those from historically marginalized and underrepresented communities, and include educational opportunities for youth and families to learn of native cultural heritage unique and specific to the natural and human history of the site. The plan must identify specific projects and estimated costs, given estuary restoration, for physical improvements for the camp, such as water access structures or swimming facilities, with recommendations for funding."*

*DNR, on behalf of the YMCA, was required to submit a report on these efforts to the fiscal committees of the Legislature by December 31, 2021.*

To meet the deadline established by the legislature, this preliminary report and the underlying study have been undertaken without the benefit of the design of the fish blockage removal and predesign enhancements for a new bridge and roadway across Whiteman Cove being completed. Additional planning and costs may be required depending on the nature of these final designs and enhancements.

The YMCA has been working with DNR, the Squaxin Island Tribe, Herrera Environmental Consultants, and community volunteers to study the impacts of the Whiteman Cove restoration project on Camp Colman and to identify costs associated with adapting the camp property and programs. Attached is the Executive Summary report of the preliminary findings of Herrera Environmental Consultants.

This report confirms that the restoration project will have significant impacts on the campsite and programs, in particular the water-based experiences. The report describes the investments that will be required to protect the integrity of the slopes, to relocate buildings and structures that will be compromised by the changing water levels, and to adapt the programs in the newly restored environment. The report estimates the cost of

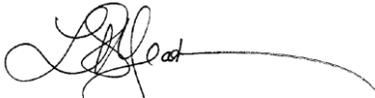
adapting the camp to be approximately \$15M. The Y plans to use the remaining funds from the 2021-2023 Capital Budget for additional studies and assessments necessary to fully understand the scope and needs of the project. (Reference Table 2 of Executive Summary).

This project has the potential to be a model for collaboration between parties in large-scale restoration projects. The YMCA's environmental education programs will be richer by the collaboration among DNR, the Squaxin Island Tribe, and the YMCA. This site will offer unique environmental education curricula that celebrates the history and culture of the original inhabitants of the land. Your investment in this project will yield results that are greater than the sum of their parts.

We thank you for helping us to participate in this important restoration project. With your continued support, we will ensure that generations of Washington youth continue to have opportunities to develop their fullest potential in spirit, mind, and body at Camp Colman.

For additional questions and information, please contact Gwen Ichinose-Bagley at [gbagley@seattleyymca.org](mailto:gbagley@seattleyymca.org).

In Community,

A handwritten signature in black ink, appearing to read 'Loria B. Yeadon', with a long horizontal flourish extending to the right.

Loria B. Yeadon, President & CEO  
YMCA of Greater Seattle

CC:

Alex Smith, Deputy Supervisor, Aquatic Resources, DNR

Kristen Swindoll, Assistant Division Manager, Aquatic Resources, DNR



**DEPARTMENT OF  
NATURAL RESOURCES**

**OFFICE OF THE COMMISSIONER OF PUBLIC  
LANDS**

1111 WASHINGTON ST SE MS  
47001  
OLYMPIA, WA 98504-7001

December 30th, 2021

The Honorable Bernard Dean  
Chief Clerk of the House  
338B Legislative Building  
Olympia, WA 98504

The Honorable Brad Hendrickson  
Secretary of the Senate  
412 Legislative Building  
Olympia, WA 98504

RE: Budget Proviso and Whiteman Cove Report on Progress

Dear Chief Clerk Dean and Secretary Hendrickson:

Please accept the enclosed report, submitted on behalf of Department of Natural Resources (DNR), as directed by the Legislature in the Sec. 3332 of the 2021-2023 Capital Budget (SHB 1080, Chapter 332, Laws of 2021). The capital budget provides an appropriation to DNR to grant funding to the YMCA of Greater Seattle (YMCA) and a requirement to submit a report to the legislature by December 31<sup>st</sup>, 2021 on how the funds have been spent. The report is attached.

The funds are for the YMCA to retain expertise to plan for the future of their Camp Colman on the Key Peninsula, given the expected physical changes resulting from the removal of the fish passage barrier on Whiteman Cove. Following the removal of the fish barrier, the cove will no longer function as a lagoon and instead will be a full functioning estuary, supporting fish habitat. This action to remove the fish barrier will also ensure DNR is brought into compliance with a federal court injunction related to tribal treaty rights.

The cove was created when a roadway berm closed the natural connection between the estuary and Case Inlet (on Puget Sound), over 50 years ago, creating a lagoon that the YMCA has used for boating and swimming activities for their campers. The YMCA camp facilities and educational programs will need to be adapted and redesigned when the barrier is removed. The budget proviso reads:

*(2) \$500,000 is provided solely for the department to grant to the YMCA of greater Seattle to retain expertise to scope, plan, and advance the future of the Camp Colman experience given the restoration of the Whiteman cove estuary. The planning process should be inclusive of tribal input, with an open invitation for their participation, and must include department technical experts, participation from the departments of ecology and fish and wildlife, and any other resources needed. The plan should include a vision for how the cove can be returned to a fully functioning estuary, benefiting native flora and fauna, as well as serve as an environmental outdoor educational opportunity that will serve youth and families, especially those from historically marginalized and underrepresented communities, and include educational*

*opportunities for youth and families to learn of native cultural heritage unique and specific to the natural and human history of the site. The plan must identify specific projects and estimated costs, given estuary restoration, for physical improvements for the camp, such as water access structures or swimming facilities, with recommendations for funding. The department, on behalf of the YMCA, must submit the plan in a report to the fiscal committees of the legislature by December 31, 2021.*

DNR entered into a contract with the YMCA for the fund transfer in July of 2021. The YMCA then contracted with a third party consultant to begin planning a new vision for how the estuary can work in tandem with a revised curriculum and environmental education opportunities. The report DNR is submitting today was developed by the YMCA and their consultants, and is an initial planning effort, with identification of the primary components of the YMCA's long term plan for Camp Colman. The YMCA spent \$95,000 of the \$500,000 appropriation to develop this plan and will spend the remaining resources in 2022-23 to complete their project proposal and preliminary design. DNR will continue to work with the YMCA in 2022-23 for continued planning and use of these funds to support that work. The YMCA report identifies additional funding needed to initiate their design work in 2022-23. Please see the attached report.

In the meantime, DNR has continued work on the design and permitting of the fish barrier removal work. The legislature appropriated \$300,000 to continue this work in 2021-23. After discussions this past summer and fall with the YMCA, DNR has concluded it is appropriate and necessary to also remove a second fish barrier located on the YMCA property that was installed by the Department of Fish and Wildlife in 1961. DNR also supports the request by the YMCA to regrade the road over the berm to function in conjunction with the road/bridge work proposed for state owned aquatic lands. As a result of these design changes, DNR is requesting an additional \$150,000 to complete the final design and permitting. Note that DNR received \$100,000 this biennium to facilitate meetings between DNR and the YMCA. \$80,000 of those funds will not be needed and we request they be re-appropriated to support the additional \$150,000 design work.

Finally, we wish to share that DNR will be requesting funds in 2023-25 for construction of the barrier removal, the new bridge and associated estuary restoration, at the same time the YMCA will be submitting their capital request for modifications to Camp Colman. We anticipate DNR will be requesting \$4.2M to \$5.0M, but that is an early estimate and subject to change as final design work and estimates are developed this winter. See table of estimates below.

5As noted in the attached report, the YMCA will be requesting \$7.7M to \$15.0M to implement the provisions of the attached report. Together, these funds will ensure the state removes the fish barrier and restores the lagoon to a fully functioning estuary, provides continued access to the YMCA camp via a new bridge with minimal disruption to the neighbors, and enables the YMCA to continue to provide important water safe recreational facilities for their campers and an outdoor educational experience that reflects the new changes in Whiteman Cove. For additional details on the YMCA's proposal, please see the attached executive summary and report.

Estimates for DNR construction for 2023-25

Item	2020 Estimate	Escalation to 2023 <sup>1</sup>	Escalation to 2024 <sup>2</sup>
Excavate Channel and Place Material On Site	\$360,000	\$523,710	\$549,896
Roadway Improvements	\$140,000	\$203,665	\$213,848
Bridge Superstructure and Foundations	\$1,240,000	\$1,803,890	\$1,894,085
Tide Gate Demolition x2	\$100,000	\$145,475	\$152,749
Elevate Roadway 3 feet	\$126,600	\$184,171	\$193,380
Utility Relocation	\$100,000	\$145,475	\$152,749
Planting	\$20,000	\$29,095	\$30,550
<i>Subtotal</i>	\$2,086,600	\$3,035,481	\$3,187,255
<i>Mobilization (10%)</i>	\$208,660	\$303,548	\$318,726
<b>Subtotal</b>	\$2,295,260	\$3,339,029	\$3,505,981
<b>Low (25% Contingency)</b>	\$2,869,075	<b>\$4,173,787</b>	<b>\$4,382,476</b>
<b>High (40% Contingency)</b>	\$3,213,364	<b>\$4,674,641</b>	<b>\$4,908,373</b>

Notes:

- 1) Assumes 15% escalation for years 2021 and 2022, 10% escalation for year 2023
- 2) Assumes an additional 5% escalation for year 2024

Should you have any questions, please contact me at 360-486-3469 or [Brian.Considine@dnr.wa.gov](mailto:Brian.Considine@dnr.wa.gov)

Sincerely,



Brian Considine  
 Legislative Director  
 Office of the Commissioner of Public Lands

Enclosure: Legislative Report – Camp Colman Conceptual Development Plan, Longbranch, Washington; YMCA of Greater Seattle Letter to Washington Department of Natural Resources.

cc: Members of the House Capital Budget Committee  
Members of the Senate Ways & Means Committee  
Members of the House Appropriations Committee  
Gwen Ichinose Bagley, Youth Development Officer; YMCA of Greater Seattle  
Alex Smith, Deputy Supervisor of Forest Resilience & Aquatics  
Ray Peters, Intergovernmental Tribal Liaison, Squaxin Island Tribe



December 17, 2021

Gwen Ichinose-Bagley  
Meredith Cambre  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, Washington 98104

Subject: Camp Colman Conceptual Development Plan, Longbranch, Washington

Dear Gwen Ichinose-Bagley and Meredith Cambre:

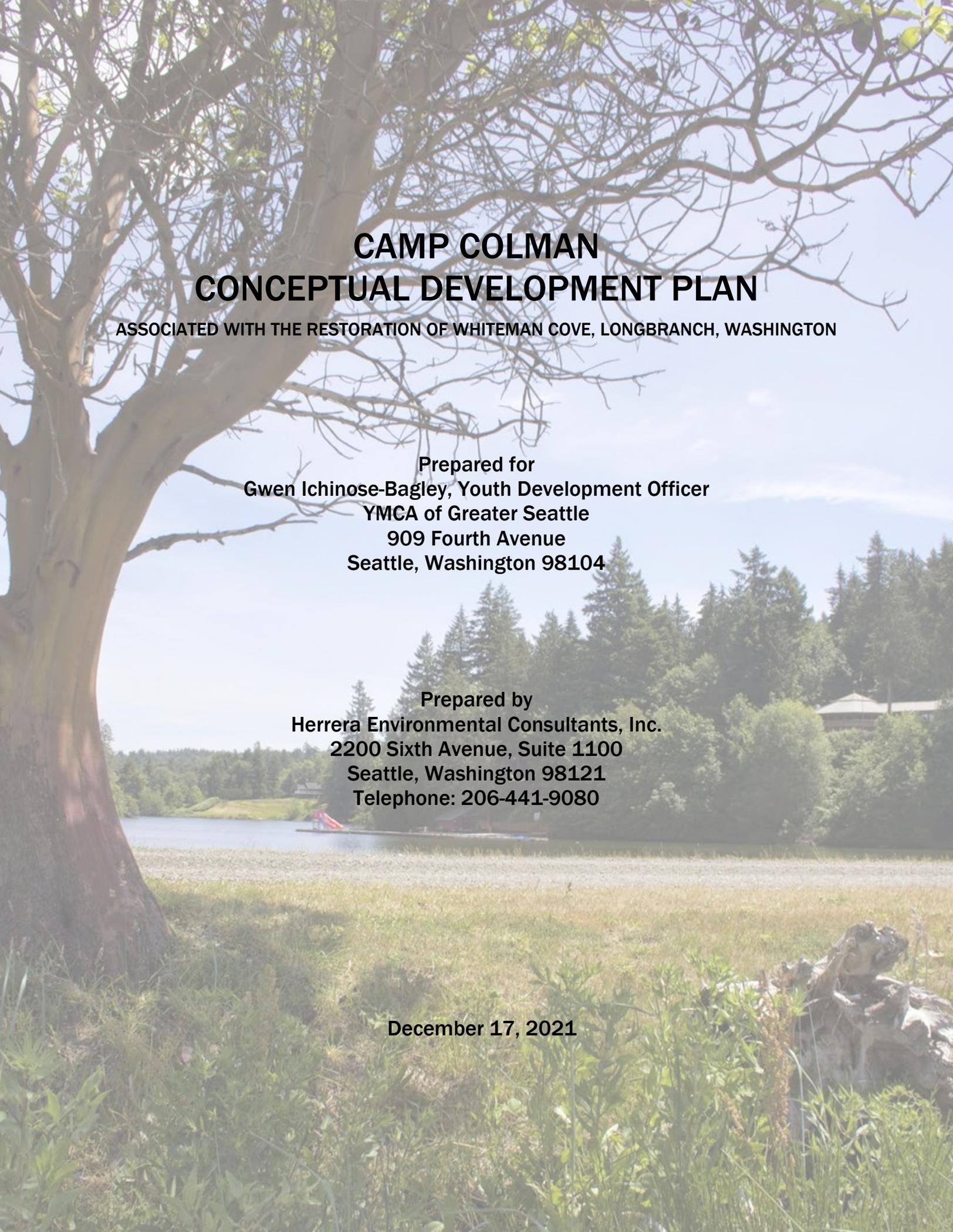
The Herrera team has evaluated a range of recommended actions for Camp Colman in response to the WDNR Restoration of Whiteman Cove. The recommended actions were identified based on our earlier assessment of risks to the Camp Colman property, meetings with YMCA staff, and the Needs Assessment provided by Kaleidoscope. Each opportunity was evaluated, described in concept, and includes additional supporting information relevant to your consideration and future planning for the Camp.

Sincerely,

Herrera Environmental Consultants, Inc.

Andrea MacLennan, MS  
Senior Coastal Geomorphologist





# **CAMP COLMAN CONCEPTUAL DEVELOPMENT PLAN**

**ASSOCIATED WITH THE RESTORATION OF WHITEMAN COVE, LONGBRANCH, WASHINGTON**

**Prepared for  
Gwen Ichinose-Bagley, Youth Development Officer  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, Washington 98104**

**Prepared by  
Herrera Environmental Consultants, Inc.  
2200 Sixth Avenue, Suite 1100  
Seattle, Washington 98121  
Telephone: 206-441-9080**

**December 17, 2021**

## EXECUTIVE SUMMARY

The Washington State Department of Natural Resources (WDNR) plans to conduct a large-scale restoration of the historical tidal channel that blocked tidal flow and fish passage between Case Inlet and Whiteman Cove. This restoration will enable the State of Washington to meet the needs of the 2013 federal court ruling *United States v Washington*, and the State of Washington's obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights, including tide gate removal and restoration. WDFW installed tide gates and impounded the Whiteman Cove lagoon to develop a fish hatchery in the 1960s. The tide channel was filled, and tide gates were installed on the road resulting in a fish-passage barrier and conversion of the Whiteman Cove tidal embayment to a high-water saline lake. The YMCA of Greater Seattle's (GS YMCA) Camp Colman is located along the southwest shore of Whiteman Cove, which hosts an extensive aquatics program featuring swimming, small boat use, and general waterplay on the warm-lake-like waters of Whiteman Cove as a central feature of the Camp's identity and recreational amenities for the last several decades.

The GS YMCA contracted Herrera Environmental Consultants, Inc. (Herrera) to evaluate how the restoration will impact camp properties, and the scope, scale, and approximate cost of measures to mitigate these impacts and enhance related opportunities. Restored tidal flushing within Whiteman Cove will result in lower water levels within the Cove (lower than the static high-water level) approximately 80 percent of the time (Figure ES-1). The other 20 percent of the time, water levels within Whiteman Cove will be higher, with effects on surrounding infrastructure, access, and natural processes.



**Figure ES-1. Gangway, Decking, and Access Stairs Will Need to be Rebuilt to Accommodate Restored Water Level.**

Several actions that are presented and described in this report were developed based on current project understanding and available information, and as such they vary in the level of detail of the underlying assumptions and thus the degree of accuracy of the costs. Some of the opportunities are more specific and are based on a well-defined approach, while others are based on some high-level assumptions that need a significant amount of additional study.

Risks to Camp Colman associated with the restoration were broadly categorized as risks from either flooding or erosion resulting from the restored tidal flow in Whiteman Cove. These risks are described in detail in the Task 2 Risk Report, provided in Appendix B. The initial impacts to Whiteman Cove include inundation and potential erosion of the coastal path that extends along the southwest shore of Whiteman Cove, the historical marine science center, and the aquatics program area. Eventually, the coastal road will be breached by waves, which could contribute additional erosion of the shoreline. Areas at risk of erosion within Whiteman Cove were identified by evaluating slope, geology, and site topography (Figure ES-2). Erosion hazard areas are primarily along the south face of the bluffs (within Whiteman Cove) where the slope gradient is highest, and along some areas of the spit. The most concerning areas at risk of erosion include the locations near cabins; the access stairway and ramp to the aquatics area; and the firepit area, which has a very steep drop off, the toe of which will be inundated with tidal waters following restoration.



**Figure ES-2. Existing Concrete Anchors Used to Secure the Lagoon Dock.**

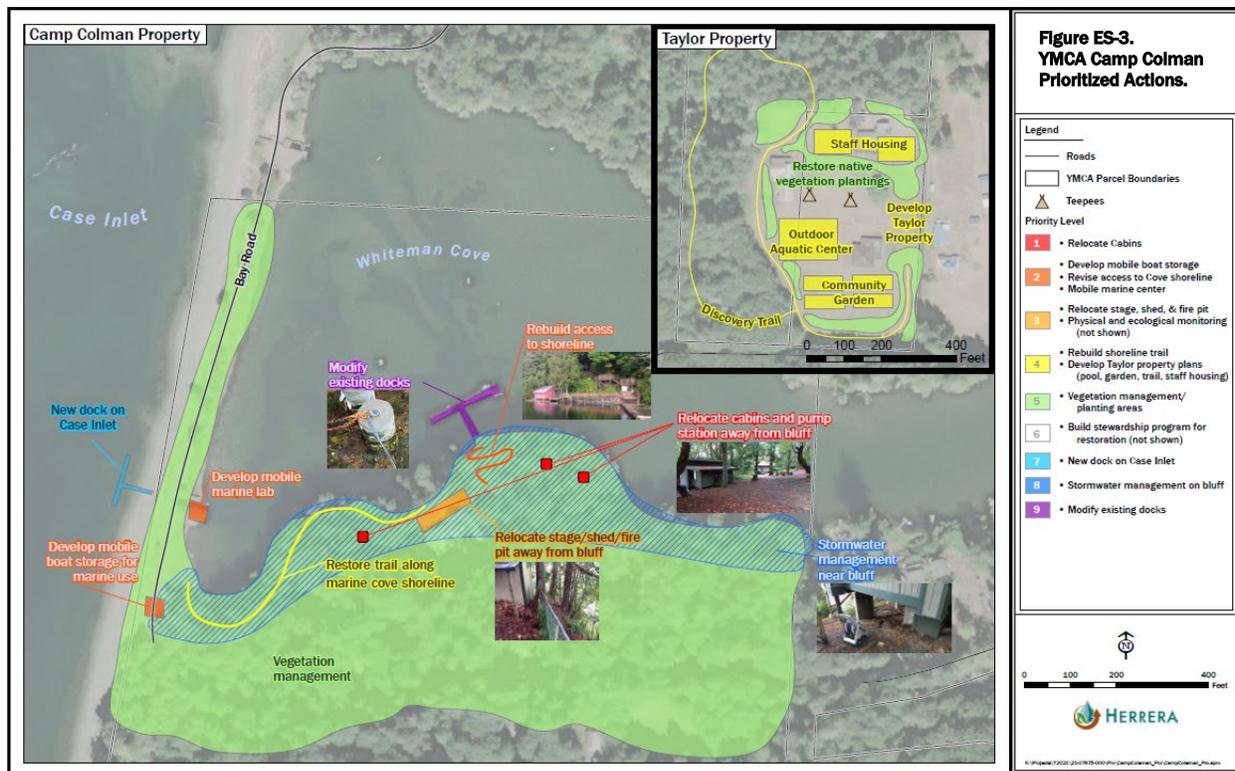
GS YMCA will need to outline a future vision for Camp Colman that is centered around environmental education and make several key decisions associated with revised camp programming to optimize this environmental education opportunity and a unique identity for Camp Colman. One of the key questions is, “How to reimagine the aquatics program, which has been at the heart of Camp Colman for decades and is central to the Camp’s identity?”

The Camp Colman master site plan should be updated to prioritize locations for new facilities and to further elucidate the new vision for Camp Colman. Other key decisions include:

1. Abandon or adopt aquatics program within Whiteman Cove lagoon,
2. Abandon or revise current access to Whiteman Cove lagoon,

3. Revise the aquatics program to be centered around the Case Inlet shoreline, and/or
4. Focus aquatics program on the Taylor property.

The list of development opportunities was evaluated and prioritized to guide the Greater Seattle YMCA through the complex decisions necessary to retool and adapt Camp Colman to the Whiteman Cove restoration (Figure ES-3). A qualitative scoring criteria was developed that considers mitigating erosion or flood risk, enhancement of camper experience, environmental educational opportunities, feasible costs, whether an opportunity will be possible to permit, and the degree to which the opportunity would add value to Camp investments. Each opportunity was evaluated and ranked. The list of priority actions is ranked from most important to less important actions for Camp Colman. Each action is fully described in the report and includes cost estimates that address permitting and construction.



**Figure ES-3. YMCA Camp Colman Prioritized Actions.**

Actions and investments should be preceded by a suite of recommended supporting investigations, which are also more fully described in the text. These supporting investigations will help in the development of more precise cost estimates and informed decision making for the GS YMCA and Camp Colman (Table ES-1).

<b>Table ES-1. Recommended Supporting Investigations and Cost Estimates.</b>	
<b>Recommended Supporting Investigations</b>	<b>Cost</b>
Stewardship Program Development Consultation	\$15,000
Geotechnical Assessments	\$50,000
Comprehensive Vegetation, Stormwater, and Trail Management Plan	\$90,000
Taylor Property Pre-Design Study	\$250,000
<b>Total</b>	<b>\$405,000</b>

The actions that were identified and described (in the report) address various types of needs for Camp Colman resulting from the WDNR Restoration. These actions range from revised shoreline access, to moving at-risk camp infrastructure, and reformatting general YMCA camp programming. The bulk of the costs are associated with adapting Camp Colman infrastructure to the changing conditions resulting from the restoration, including replacing the loss of the aquatics program (Table ES-2). The cost of reconfiguring camp access to the marine shoreline was also considerable. Mitigating risk and focused investment in YMCA programming were the least cost-intensive actions (Table ES-2). Fire Suppression (up to \$1,300,000) and Contingency Funds for potential compensatory mitigation that may be required to implement these actions (up to \$500,000) were also included as they represent large costs that will be required by the GS YMCA because of the WDNR restoration of Whiteman Cove.

<b>Table ES-2. Cost Estimates by Type of Action.</b>		
<b>Cost Type</b>	<b>Minimum</b>	<b>Maximum</b>
Mitigate Risk	\$460,000	\$1,670,000
Access	\$1,808,000	\$3,444,000
Infrastructure	\$4,984,000	\$9,175,000
YMCA	\$125,000	\$175,000
Contingency Funds	\$300,000	\$500,000

The current cost estimates (Table ES-3) reflect a general range based on Herrera’s existing understanding of the YMCA’s values and objectives and the Camp Colman properties. However, these costs are estimates; and their accuracy is variable, largely due to the clarity and finality of decisions and supporting information relevant to the action. These costs also do not account for all land use and permitting requirements that may be triggered by developments.

**Table ES-3. Costs and Types of Priority Actions Recommended for Camp Colman.**

Priority Actions	Type	Design + Permit + Build	
		Cost Low	Cost High
Relocate Cabins and Septic Pump Station	Mitigate Risk	\$400,000	\$1,500,000
Fire Suppression (required to meet fire code for relocation of cabins)	Infrastructure	\$1,000,000	\$1,300,000
Modify Shoreline Access to Whiteman Cove	Access	\$113,000	\$345,000
Remove Existing Boat House; Replace with Mobile Boat Storage	Infrastructure	\$38,000	\$75,000
Develop Mobile Marine Center and Truck	Infrastructure	\$195,000	\$220,000
Construct New Marine Education Center	Infrastructure	\$1,000,000	\$2,000,000
Relocate Firepit, Stage, and Storage Shed	Mitigate Risk	\$48,000	\$105,000
Develop and Implement Physical and Ecological Monitoring Program	YMCA	\$45,000	\$95,000
Rebuild Trail Along Whiteman Cove Shoreline	Access	\$87,000	\$309,000
Implement Plans for Taylor Property	Infrastructure	\$2,500,000	\$5,000,000
Vegetation Management	Mitigate Risk	\$12,000	\$65,000
Build Stewardship Program/Curriculum	YMCA	\$80,000	\$80,000
Stormwater Management	Infrastructure	\$143,000	\$240,000
Modify Existing Dock/Aquatics Program Center	Infrastructure	\$108,000	\$340,000
Construct New Dock on Case Inlet	Access	\$1,608,000	\$2,790,000
Contingency Funds <sup>a</sup>	Access	\$300,000	\$500,000
<b>Total</b>		<b>\$7,677,000</b>	<b>\$14,964,000<sup>b</sup></b>

<sup>a</sup> Funding needed to mitigate impacts derived from different actions.

<sup>b</sup> This cost estimate is in 2021 dollars.

In total, the cost of all actions will range from \$7,677,000 to \$14,964,000 (in 2021 dollars), not including the recommended supporting investigations. Additional funds will be required in the 2022–2023 supplemental budget prior to the restoration implementation, which is planned for summer of 2023.

Funding requests for the future have been escalated to reflect the use of 2021 dollars in the development of cost estimates. The escalation rate applied was 4 percent per year and was applied only to the data summaries in which the biennium requests are noted. For all funding requests we recommend requesting the upper end of the range since all actions are merely design concepts and additional unexpected costs will undoubtedly occur.

Based on this analysis, the coarse status of these actions, Camp Colman’s operating needs, the timeline of the WDNR restoration, and the quick timeline in which these estimates were requested, Herrera recommends that the GS YMCA request a total of \$1,406,080 from the 2022–2023 supplemental budget, and \$13,645,230 from the 2023–2025 biennium capital budget, to support the GS YMCA and Camp Colman adapting in response to the WDNR Whiteman Cove restoration (Table ES-4).

<b>Table ES-4. Cost Estimates and Timeline.</b>		
<b>Timelines</b>	<b>Actions</b>	<b>Cost</b>
Proviso/Current	Recommended Supporting Investigations: Stewardship Program Development; Geotechnical Assessments; Comprehensive Vegetation, Stormwater, and Trail Management Plan. Not to exceed the \$500,000 allotted within the Proviso.	\$405,000
Supplemental Budget 2022–2023	Fire Suppression	\$1,406,080
Needs for 2023–2025 Capital Budget	Relocate At Risk Cabins and Septic Pump, Remove Boat House and Replace with Trailer and Upland Boat Storage, Relocate Firepit, Stage and Shed, Modify Existing Dock/Aquatics Program, Implement Plans for Taylor Property, Build Stewardship Program/Curriculum, Modify Shoreline Access to Whiteman Cove, Develop Mobile Marine Center and Truck, Develop and Implement Physical and Ecological Monitoring Program, Rebuild Trail along Whiteman Cove Shoreline, Vegetation Management, Stormwater Management, Construct New Marine Education Center, Construct New Dock on Case Inlet, Contingency Funds	\$13,645,230

## INTRODUCTION

The YMCA of Greater Seattle contracted Herrera Environmental Consultants, Inc. (Herrera) to assess the YMCA Camp Colman properties at Whiteman Cove, located along the northeast shore of Case Inlet in Pierce County, Washington. The purpose of the study is to better understand the character of changes that may take place because of the Washington State Department of Natural Resources (WDNR) planned restoration of tidal flow into the embayment, how those changes will impact the camp properties, and the scope, scale, and approximate cost of measures to mitigate these impacts.

This study contains summary of relevant background conditions at the site, a review of the proposed tidal flow restoration project, a discussion of the risks associated with the landscape changes resulting from the restoration project, and a prioritized list of recommended opportunities for action and additional studies to refine the understanding of the risks and mitigation opportunities for Camp Colman.

The opportunities that are presented in this report were developed based on current project understanding and available information and as such they vary in the level of detail of the underlying assumptions and thus the degree of accuracy of the costs. In developing the opportunities Herrera has a bias for being more inclusive of possible required mitigation opportunities rather than limiting this study only to those that were well understood. Thus, some of the opportunities are more specific and are based on a well-defined approach, while others are based on some high-level assumptions that need a significant amount of additional study.

## BACKGROUND

YMCA Camp Colman is located along the south shore of Whiteman Cove, on northeast Case Inlet, in Pierce County, Washington (Figure 1). The WDNR plans to conduct a large-scale restoration of the historical tidal channel that once connected Case Inlet and Whiteman Cove, which was blocked in 1962. Bay Road now runs across the filled tidal channel, which provides the primary vehicular access to YMCA Camp Colman. Restoration of tidal flow will result in inherent changes to the Camp Colman property including areas of increased flooding and erosion, as well as unique opportunities for environmental education and stewardship.

Under the 2013 federal court ruling *United States v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at “dams, culverts, tide gates, dikes, and other instream structures” (*United States v. Washington* 2013). In accordance with the ruling, WDNR is seeking to remove the tide gate under state ownership at Whiteman Cove and restore fish passage between Whiteman Cove and Case Inlet (WDNR 2021).

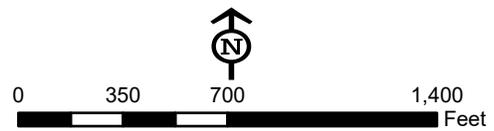


**Legend**

-  Roads
-  Proposed Bridge
-  Existing Tide Gates
-  Pierce County Tax Parcels
-  YMCA Camp Colman Properties
-  YMCA Camp Taylor Properties



**Figure 1. Whiteman Cove, Camp Colman, and Camp Taylor Vicinity Map.**



## CURRENT CAMP USE

Primary site uses at Camp Colman center around recreation and education in the existing Whiteman Cove saltwater lagoon. This includes swimming and watercraft use of the lagoon by various user groups (child/youth recreation, all-ages outdoor education, organizational retreat groups, etc.). It is anticipated that restored tidal flushing will result in a natural tidal regime Whiteman Cove, in which water levels are currently held near mean higher high water. As a result of the restoration, the available times and areas in which Whiteman Cove is accessible for recreation and education activities will be significantly reduced, which will require Camp Colman to reconfigure a central part of the Camp Colman camper experience and camp identity, the aquatics program. A needs assessment describing current uses, anticipated impacts, recommended actions, and opportunities for new program growth and site utilization is included in Appendix A.

## SUMMARY OF RISKS DUE TO WHITEMAN COVE RESTORATION

Risks to Camp Colman associated with the restoration were evaluated and broadly categorized as risks from either flooding or erosion resulting from the restored tidal flow in Whiteman Cove. These risks are described in detail in the Task 2 Risk Report, provided in Appendix B, and briefly summarized below.

### Areas at Risk of Flooding

The initial impacts to Whiteman Cove include inundation and potential erosion of the coastal path that extend along the southwest shore of Whiteman Cove, the historical marine science center, and the aquatics program area. Eventually the coastal road will be breached by waves, which could contribute additional erosion of the shoreline. Adding elevation to Bay Road is a key element of the bridge restoration design, which should occur along the full extent of the road to preserve access to Camp Colman.

### Areas at Risk of Erosion

Areas at risk of erosion within Whiteman Cove were identified by evaluating slope, geology, and site topography. Erosion hazard areas are primarily along the south face of the bluffs (within Whiteman Cove) where the slope gradient is highest, and along some areas of the spit. The most concerning areas at risk of erosion include the locations near cabins, the access stairway and ramp to the aquatics area, and the firepit area, which has a very steep drop off that will soon be inundated with tidal waters.

## CAMP COLMAN OPPORTUNITIES

Appendix A outlines a future vision for Camp Colman centered around environmental education, experiential learning, Pacific Northwest history, salmon lifecycles, marine ecosystems, shellfish, climate change, and the Coast Salish People, Squaxin Island Tribes and other (northwest) indigenous cultures. The restoration of Whiteman Cove presents an incredible learning opportunity to be an endless source of adventure and inquiry for summer campers and guests year-round including students and families.

The Greater Seattle YMCA can recreate Camp Colman's identity in alignment with this vision. YMCA leaders will need to answer the following questions to recreate the Camp's identity:

- How to reimagine the aquatics program, which has been at the heart of Camp Colman for decades?
- How to distinguish this YMCA summer camp?
- How to distinguish this Outdoor Educational Experience (OEE) from other OEE centers?
- How to appeal to retreat groups?

The Camp Colman master site plan should be updated to prioritize areas in which new facilities should be located and to further elucidate the new vision for Camp Colman.

Each of the new and revised camp developments described in this document will require additional analysis to identify exact locations and specifications relevant to the successful implementation of each project, such as capacity targets, which may have implications on the cost estimates included herein.

## KEY DECISION POINTS FOR YMCA

One of the most critical decisions that the YMCA must make is whether to continue their aquatics program on the Whiteman Cove shoreline, adapt the program to the Case Inlet shoreline, refocus swimming activities on new developments on the Taylor Property, or some combination of these three options. A pre-design study of the Taylor property should be conducted to fully understand the site's potential, necessary developments to support an aquatics program, and to establish accurate cost estimates to reach these goals.

The existing infrastructure associated with both shoreline access to Whiteman Cove lagoon and the aquatics program will no longer be functional in the restored conditions and should be salvaged prior to restoration implementation. Shoreline access to Whiteman Cove from within Camp Colman will need to be adapted to restored shoreline conditions both alongshore and

from the uplands to the shoreline. Access for campers and guests with disabilities could also be accommodated during this period.

There will be a time during which access to the lagoon should not be permitted by campers. During construction and through the first year or two following restoration, conditions will be changing and somewhat uncertain within the lagoon. The level of uncertainty could result in unexpected risks to campers. After a couple of winter seasons, physical conditions within the restored tidal channel and lagoon will reach a new dynamic equilibrium and exploring the lagoon shoreline will be safe again for campers. Camp Colman staff should be trained in how to read the tide charts for within the lagoon and waterward shoreline, predict when strong currents may occur in the tidal channel, and outline additional safety concerns in the restored tidal environment.

It will not be possible for the current aquatics program to resume within the Cove. However, a revised program could be developed that works with the restored conditions. The revised program would be inherently different and may not require docks and boat storage within the Cove. If docks are desired within the Cove they would need to be attached to piles and better anchored to the shoreline, to rise and fall with the fluctuating water levels.

Alternatively, the revised aquatics program could be centered around access to the Case Inlet shoreline. Investments could instead be focused on boat storage and access to the Case Inlet shoreline. Boats would need to be transported considerable distances across the tide flats to access the water during low tides (most frequent conditions during the day in the summer). A pier could facilitate access to the marine shoreline and perhaps boat storage, however permitting large new overwater structures in the current regulatory environment is far from simple and often takes years of preliminary assessments and permitting with considerable cost.

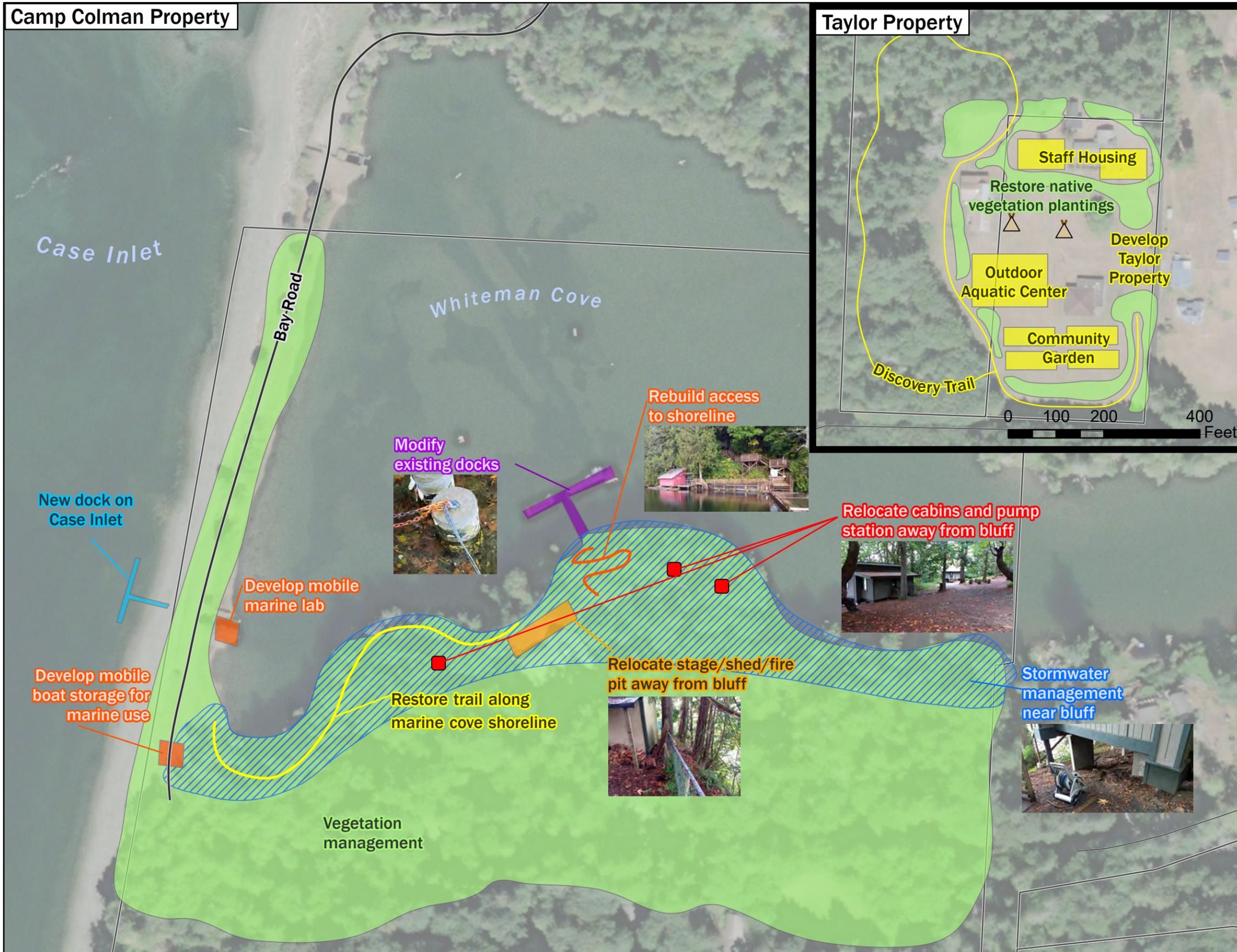
As described in the Needs Assessment (Appendix A), the potential pending development of the Taylor Property could include a large outdoor pool, which would provide the opportunity for campers to swim and other valuable camper experiences. An updated Camp Colman master plan could integrate the revised programs for Camp Colman and developments on the Taylor Property. Major changes to the camp necessary to mitigate risks from restoration will likely trigger the need for additional updated codes, most notably, fire suppression on the camp property, which will also need funding.

## CRITERIA FOR PRIORITIZING OPPORTUNITIES

The list of development opportunities described below were evaluated and prioritized to guide the Greater Seattle YMCA through the complex decisions necessary to retool and adapt Camp Colman to the Whiteman Cove restoration (Figure 2). This conceptual development plan aims to both harness the opportunities and mitigate the risks associated with the Whiteman Cove restoration. Qualitative scoring criteria was developed that takes into account mitigating erosion or flood risk, enhancement of camper experience, environmental educational opportunities, feasible costs, possible to permit and the degree to which the opportunity would add value to Camp investments. Each opportunity was evaluated for each criterion and scored across a gradient ranging from low-moderate-high or very high. Very high scores were limited to opportunities that mitigate potential risk to human life. Scores were assigned to each qualitative rank and summed to identify the highest-ranking opportunities.

**Camp Colman Property**

**Taylor Property**



**Figure 2.**  
YMCA Camp Colman Prioritized Actions.

**Legend**

- Roads
- YMCA Parcel Boundaries
- ▲ Teepees

**Priority Level**

- 1** • Relocate Cabins
- 2** • Develop mobile boat storage  
• Revise access to Cove shoreline  
• Mobile marine center
- 3** • Relocate stage, shed, & fire pit  
• Physical and ecological monitoring (not shown)
- 4** • Rebuild shoreline trail  
• Develop Taylor property plans (pool, garden, trail, staff housing)
- 5** • Vegetation management/  
planting areas
- 6** • Build stewardship program for restoration (not shown)
- 7** • New dock on Case Inlet
- 8** • Stormwater management on bluff
- 9** • Modify existing docks



## PRIORITY ACTIONS

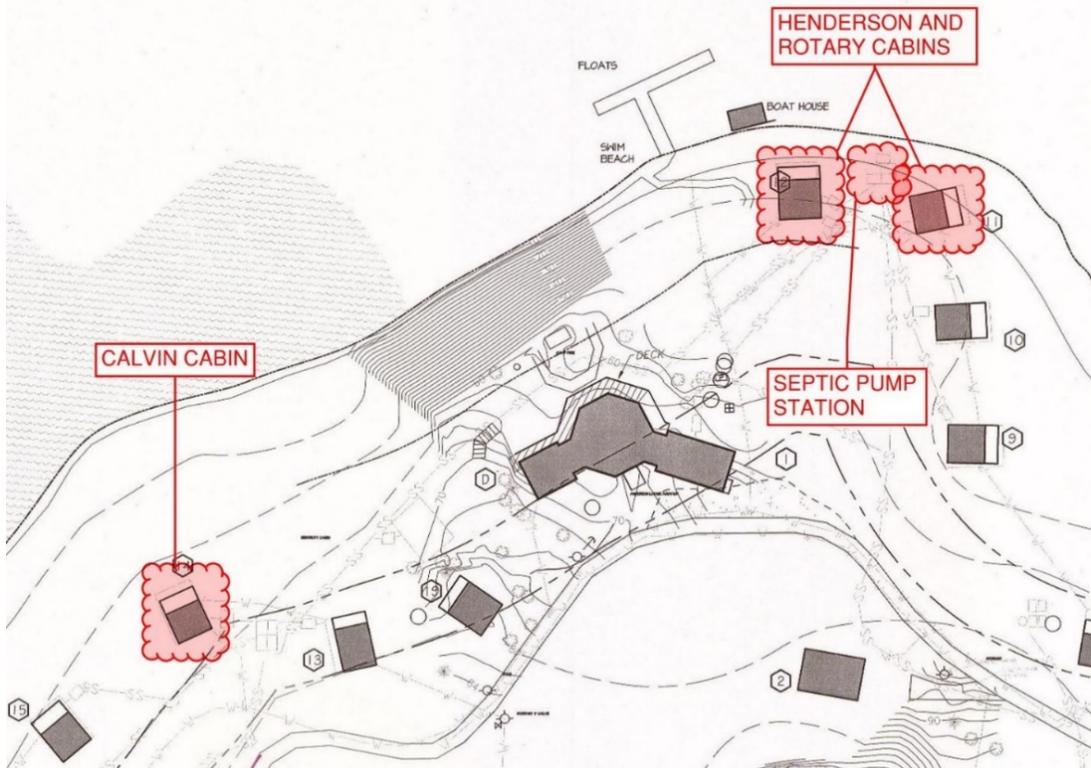
The list of priority actions outlined below are presented in ranked order from most important to less important actions for Camp Colman. Each action description includes a general description of the approach, need, critical elements for being a priority for the Greater Seattle YMCA, key considerations, necessary related actions, and permitting needs.

### Relocate Cabins and Septic Pump Station at Risk from Bank Erosion

Cabins and the onsite wastewater pump station that are near the bluff crest should be relocated farther landward to address the human health risk of bluff failure while the cabins are occupied (Figures 3 and 4). These structures should first be evaluated to determine if relocating is necessary or if structure demolition and rebuilding is a more appropriate option. Of primary concern is Henderson, Rotary, and Calvin cabins, which already exhibit signs of soil creep around them (e.g., tree bases bent toward the water). Relocation entails preparing a new location through clearing a pad, building a new foundation, providing utility connections, lifting the cabins off their foundations and transporting them to the new site, and demolishing the old foundation and utilities and restoring the former location. Moving a serviceable building is typically a more significant cost savings compared to new construction. Relocating the onsite wastewater pump station will also require relocating the associated plumbing and electrical to the new location and making sure its sufficiently downslope from the lowest cabin.

Currently, all three cabins are within a 300-foot walk of the main lodge, so maintaining the existing level of proximity to the heart of the camp would be vital to maintaining camper experience. The YMCA Camp Colman Needs Assessment indicated that locating cabins within 600 feet is ideal, although 1,200 feet may be acceptable (Kaleidoscope Inc. 2021, Appendix A). Given the density of cabins already within a short distance of the lodge, moving the cabins a short distance away from the bluff may be a good option, although an acceptable setback distance from the steep slope would have to be developed prior to deciding on a location.

The historical onsite wastewater design documents available from the Tacoma-Pierce County Health Department were reviewed. Based on these documents it appears that the camp buildings are served by at least three community drain field systems. Each of these systems typically consists of each cabin having its own 1,000-gallon, two-chamber septic tank that flows to a community pump station. The community pump station then pumps the wastewater up to a community drain field located upslope of the tennis courts. The community pump station for system "B" is located between Henderson and Rotary cabins and will need to be relocated to a location away from the bluff. Community pump station "B" serves at least Henderson, Rotary, Sleem, and Kiwanis cabins. There may be other cabins connected to this pump station. To ensure this pump station can continue to serve all the connected cabins, the grades will need to be checked and additional pumps added if necessary to ensure all the wastewater can be collected.



**Figure 3. Location of Three Cabins and Onsite Sewage Pump Station Identified for Relocation During the Risk Assessment.**



**Figure 4. Henderson and Rotary Cabins Near the Bluff Crest.**

While the risk of bluff failure will likely increase slowly over the years that follow restoration of Whiteman Cove restoration project, cabin and septic pump station relocation is critical to maintaining the safety of camp guests. We recommend this be given priority consideration and be completed within the next 3 to 5 years. Identifying an acceptable setback distance from the bluff will be an important first step to determining potential locations for relocation.

In addition to the onsite septic system components, various sections of the potable water and electrical system will need to be reviewed and services to the cabins to be cut, capped, and removed.

Future actions to assist with relocation include:

- Additional topographic survey and geotechnical analysis of the steep bluffs to identify a recommended setback distance and potential areas for relocation.
- Onsite wastewater design and permit application to relocate community onsite wastewater pump station "B" away from the bluff.
- Analysis of other existing utilities (water and power) which may need to be relocated out of the bluff zone and services to relocated cabins cut, capped, and removed.

The relocation of the cabins will require authorization from the County for regulatory compliance with its shoreline regulations and critical areas ordinance (Titles 18E and 18S of Pierce County Code [PCC]). The relocation of the cabins will likely receive a Determination of Non-Significance for SEPA review and a Shoreline Exemption for shoreline compliance. A SEPA Checklist will have to be prepared. Due to the lack of in-water construction associated with this action, it is anticipated that no permit reviews by WDFW for an HPA or the USACE for Section 401/404 compliance will be required. Should the project receive federal funding, a NEPA regulatory review will be required.

In addition to the above, building permits and onsite wastewater permits will be needed. The cost for permitting the relocation of the cabins will be moderate compared to the high costs for permitting in-water construction projects.

**Estimated Range of Costs: \$400,000 to \$1,500,000 for all three cabins, the pump station, and the associated utilities**

## Modify Shoreline Access to Whiteman Cove

The access stairway to the Whiteman Cove aquatics program area should be rebuilt to strengthen its footings and potentially repositioned to traverse a less steep area, as the bluff face is very steep and vulnerable to future erosion following restoration. The base of the access stairway will be inundated by tides regularly, and so should be removed (Figure 5). This would include the walkway to the boat storage building, which should also be replaced. Much of the

existing stairs decking appears to be in good condition and may be simply reset on new, deeper foundations. Modifying the shoreline access assumes that the existing dock and shoreline trail locations will continue to be used in the future.



**Figure 5. Gangway, Decking, and Access Stairs Will Need to be Rebuilt to Accommodate Restored Water Level.**

An improved foundation system for the stairway and decks will have to be designed to provide more stability. Some options for this include helical piles or small-diameter pin piles that can be driven in with portable machinery, an important factor on steep slopes. If helical or small pin piles are not an option, more complex solutions may need to be developed. Geotechnical investigations will be key in determining which method works best in the existing location or if a nearby alternative should be found.

With continued use of the existing dock, a pier should be included in the new access stairway design to access a dock subject to fluctuation water levels. The lowest deck in the stairway could be rebuilt for this purpose, extending farther toward the water on piles. A gangway would be attached to the pier with the other end on a dock secured to piles (see below).

Future actions to assist with relocation include:

- Additional topographic survey and geotechnical analysis around the existing stairway to determine anchoring methods

These proposed actions will require federal, state and Pierce County regulatory reviews and implementation of environmental protective measures according to the provisions of the National and State Environmental Policy Acts, the Clean Water and Coastal Zone Management Acts, Washington State Hydraulic Code, local shoreline and critical areas ordinances and other laws governing fish and wildlife habitats and cultural resources. The estimated permitting costs

for these actions are high due to the amount of documentation necessary for project reviews at multiple regulatory agencies.

**Estimated Range of Costs: \$113,000 to \$345,000**

## **Remove Existing Boat House; Replace with Mobile Boat Storage**

The existing boat house on the lagoon will be regularly flooded following restoration and should be moved. While the existing structure could be moved or a new building built, restoration provides an opportunity to reimagine the storage of the Camp's boats in a way that is more flexible for boating inside and outside the lagoon. A mobile storage wrack could be moved to the spit to access Case Inlet or to Camp Taylor for classes in the pool (Figure 6). The mobile storage could then be parked under cover during the off season.



**Figure 6. Example of Mobile Kayak Storage, Capable of Being Moved to Wherever the Boats will be Used.**

A mobile boat storage option could easily be parked anywhere on the camp, assuming at least one Camp Colman vehicle has a trailer hitch. Covered off-season storage could be built, or more simply, the boats could be parked and covered with tarps. Aside from demolition of the existing boat house, mobile storage options could be easily acquired and require very little planning and no permitting.

A typical trailer designed to carry about a dozen kayaks and canoes will cost between \$3,000 and \$5,000 each. Another \$2,000 would cover a simple open storage shed for parking the trailer during the off season. Total cost would therefore be approximately \$5,000 to \$7,000 per dozen boats. A more costly option, offered for comparison, is to build a new shed like that currently in use at the dock. The maximum size that does not require a permit in Pierce County is 200 square feet. The overall cost would likely be approximately \$20,000, whether built on site or prebuilt and customized for boat storage. A single shed could likely store approximately 24 boats.

This option presents low permitting needs and costs as in-water construction is avoided. Pierce County typically exempts structures of 200 square feet or less from permitting requirements, although shoreline and critical areas project reviews may be required when built within 200 feet of the OHWM or bluff face.

**Estimated Range of Costs: \$38,000 to \$75,000 for up to 24 boats**

## Develop a New Marine Education Center

The current marine education center, located on the spit on the east side of Bay Road, will likely be inundated following the restoration and particularly during high water and storm events. Any structure that would be located on the spit or adjacent to the Cove shoreline is vulnerable to implications of either the restoration, coastal flooding (as mapped by FEMA), sea level rise, and/or coastal erosion.

The proposed marine education center could be limited to a classroom-sized educational facility in which educational workshops and lessons could be hosted focused on marine ecosystems, nearshore restoration, and Indigenous Cultures in the Pacific Northwest. The estimated cost for a permanent facility would be approximately \$1,000,000 to \$2,000,000. Siting the structure may be complicated due to the current regulatory constraints on building in close proximity to the shoreline. The proposed structure could be sited in the uplands with an adequate setback distance, so as to feel immersed in the marine environment, but also adhere to current shoreline regulations. A pre-design study would be required to initiate the process, which would cost roughly \$250,000.

**Estimated Range of Costs: \$1,000,000 to \$2,000,000**

## Develop a Mobile Marine Center

The current regulatory environment makes constructing a permanent building in the shoreline jurisdiction highly constrained and costly. We recommend considering an innovative solution for a marine education center that could be a mobile structure that is sited along the marine shorelines during the summer months and relocated to higher within the Camp Colman uplands during winter months. Non-permanent, mobile features are not regulated in the same way as permanent structures.

The potential value for a mobile marine lab in the Puget Sound region is great. There are many different environmental educational organizations that may have interested in collaborating on the development of a unique mobile marine lab facility. Alternatively, it could be a valuable amenity/investment for multiple YMCA programs. We recommend conducting outreach to similarly minded organizations, such as the Seattle Aquarium and Puget Sound Partnership to explore the potential for partnerships in curriculum development and potential support.

Figure 7 shows some snapshots of [a similar mobile marine lab](#) concept developed by the Florida Fishing Association. Additional imagery is available on their website and Facebook account. They funded the marine lab through a local grant program; and the total cost shared below included the cost of the touch-tank, generator (not necessary for all applications), trailer conversion, 10 solar panels with batteries, a truck capable of towing the trailer, and a sand box.



**Figure 7. Examples of a Mobile Marine Lab Trailer (left) or Mobile Classroom Constructed from an [Adapted Storage Container](#) (right).**

**Estimated Range of Costs: \$195,000 to \$220,000**

## **Relocate Firepit, Stage, and Shed at Risk from Bluff Erosion**

The campfire ring, stage, and shed should be relocated to a location further landward from the bluff crest (Figure 8). Although the toe of bluff is currently not exposed to marine waters, it will be following restoration during high tides and high-water events. With the stage and shed located at the bluff crest with and foundation to help stabilize them, they are particularly vulnerable to landslides and slope instability.



**Figure 8. Shed at the Firepit, Very Close to the Edge of an Undermined Bluff.**

DRAFT Preliminary Report—Additional Assessments Needed

Examination of the bluff during the site assessment showed obvious signs of instability just below the fence in that location. The bluff is substantially undermined, with roots exposed up to 12 inches from the edge where the bluff has been slowly eroding out from under the trees.

The simplest approach to relocation is to identify and clear a nearby site and then move the two structures to the new location. Both could likely be attached to a wooden sled and dragged into position or loaded onto a flatbed using a winch. Much of the cost would be in clearing trees and the earthwork necessary to create tiers of seating around the stage.

Alternatively, a new stage and shed could be constructed and the old structures removed entirely. While new construction is a more expensive option, it does provide the opportunity to create a new camper experience as well as resetting the lifespan of the amenity.

Required permits will likely include a review of critical areas, a shoreline exemption, a land use – clearing and grading permit and a SEPA checklist.

**Estimated Range of Costs: \$48,000 to \$105,000**

## **Develop and Implement a Physical and Ecological Monitoring Program**

Having a clear baseline understanding of nearshore conditions prior to and following restoration will be an important element of documenting the impacts of the restoration as they occur. Regular monitoring provides useful data that can be used to answer questions about the past and future of site conditions and empowers site managers to make informed decisions. Annual topographic surveys can be used to document surface erosion, mass wasting, and document erosion rates over time.

An ecological monitoring plan could be developed and designed to be implemented by campers to document and learn about the ecological changes taking place as a result of the restoration. There are several [nearshore ecological monitoring](#) programs in the Puget Sound region that use standardized data collection for nearshore restoration monitoring, which could be used as a model for monitoring at Camp Colman. Standard protocols can be used to identify and document species in the lagoon and along the Case Inlet shore, changes in vegetation, slope stability, and the like.

Some monitoring should be conducted in the field by professionals. An important element of physical monitoring is having reference points with known elevations that could be marked by the Camp's local surveyor. Other specific locations should be identified from which regular photos should be taken. At least 5 years of physical monitoring should be conducted (and is supported by this cost estimate), as it often takes at least 5 years for a site to stabilize and species to return following restoration. Monitoring data should be analyzed and reported upon by a professional.

**Estimated Range of Costs: \$45,000 to \$95,000**

## Rebuild Trail Along Whiteman Cove Shoreline

Portions of the existing shoreline trail between the spit and the lagoon dock will be inundated during the first spring tide cycle following restoration. Over time, repeated tidal inundation will cause erosion, making the current trail unusable. The trail is highly constrained between the lagoon and the steep bluff for most of its length, making a new waterside location difficult. Most of the trail could be built up in place with a short retaining wall and gravel fill. Where the elevations are lowest, closer to the spit, an elevated walkway could be constructed on short piles at an elevation that keeps it above all but the highest winter tides.

While the trail will certainly be inundated relatively frequently after restoration, the erosion and loss of function will likely happen slowly over a period of several years. Before then, the existing trail will remain functional for most tide heights. During the busiest summer months, tides are generally low during the day, so inundation will occur during times of low usage. The YMCA therefore has time to adapt and plan a new trail following restoration. An elevated walkway would require geotechnical and archaeological investigations and may be difficult to secure permits where the path crosses existing wetlands.

A low-cost option for the trail would be to elevate where necessary and move the crossing point away from low wetland areas. This would avoid the need for an elevated boardwalk, a relatively costly option. However, providing a boardwalk presents many educational opportunities such as wildlife viewing platforms and close observation of sensitive wetland vegetation.

Due to the tidal inundation at the trail location and proposed pile installations to support a boardwalk or other trail access, permitting of this project action alternative will require federal, state and Pierce County environmental regulatory reviews for construction authorization. The cost associated with permitting a wetland boardwalk is anticipated to be high.

**Estimated Range of Costs: \$87,000 to \$309,000**

## Develop and Implement Plans for Taylor Property – New Aquatics Center

The Taylor Property has the potential to replace the existing aquatics program. It has land conducive to the development of an aquatics center, but the location has some challenges, with close neighbors, little privacy, and is a considerable distance from the main Camp Colman campus. Kaleidoscope recommended that if the aquatics program is relocated to the Taylor property, then the model would need to expand beyond just swimming to include additional recreational areas. Additional recreation at the site could include trails and gardens, as well as additional staff housing.

Very few plans and information has been developed on the development of the Taylor Property to date. Currently, there is very little information on the desired program for this potential facility and for the capacity of this site to support this program (i.e., utilities, access). A range of possible configurations for such a facility could be imagined ranging from a pool and restroom building to a more elaborate waterplay facility. Plans for the property should include a building for staff housing, gardens and vegetation planning, in addition to the aquatics center.

The following costs were developed for a range possibilities from a simple pool and restroom building to a more fully featured aquatics center building with a much larger pool for \$5,000,000. The final budget could easily exceed this amount depending on the YMCA's need and site constraints. To finalize the scope-scale development and costs, a pre-design study is required and is a top priority for early recommended supporting investigations. Aquatic centers can cost significantly more than the upper end of the presented range and can easily be in the \$10,000,000 to \$15,000,000 range, depending on whether it is outdoors or indoors, the size of the supporting facility (capacity), and other rooms/facilities that the development includes. The cost estimate included below is for a relatively simple outdoor pool with changing rooms and bathrooms, comparable to but slightly larger than the pool at YMCA Camp Orkila.

**Estimated Range of Costs: \$2,500,000 to \$5,000,000. See *Recommended Supporting Investigations*, below.**

## Vegetation Management

Enhancing native vegetation cover, particularly in areas at risk of erosion, will help to reduce erosion vulnerability along the bluff shoreline. Conifers should be planted landward of the bluff crest to provide additional water absorption and structure to bluff soils. As older, existing trees are eventually eroded from the bluff, planting these additional trees will ensure that trees are perpetually enhancing the stability of the bluff, particularly along steep shoreline areas. Over time, recruitment of large woody debris (LWD) from lower elevations of the bluff face will occur, with trees falling to the beach and bluff toe. Consider hiring an arborist to actively manage the ways in which trees erode from the bluff.

Nonnative English ivy (*Helix hedera*) and Himalayan blackberry (*Rubus armeniacas*) should be removed from trees and surrounding soils where possible. Ivy and blackberry can impair the growth and health of other native shrubs and trees, create a monoculture, and exclude the growth of other plant species that contribute to soil stability. This has already happened in some areas where invasive species are abundant, particularly along the bluff face waterward of the lodge.

It is likely that the removal of nonnative, invasive vegetation will be required as a mitigating component of many of the project's construction actions. Monitoring of the success of the removal of invasive vegetation and or the installation of native vegetation will likely be required as a permit mitigating condition for one or more of the proposed project components and therefore vegetation management actions should be coordinated with the permitting process

rather than voluntarily implemented prior to permit issue. The native plant installations and performance monitoring of vegetation management actions can be an excellent educational opportunity for campers to learn of the importance of native vegetation in environmentally sensitive areas.

**Estimated Range of Costs: \$12,000 to \$65,000. See *Recommended Supporting Investigations*, below.**

## Build Stewardship Program/Curriculum Focused on Restoration

New camp programming needs to be developed that is focused on the environmental education opportunities associated with the Whiteman Cove restoration. This programming would be central to a revised identity for Camp Colman and could be approached from various angles for different groups and markets. Partnership organizations could contribute to the new Camp programming and this unique opportunity for enhanced stewardship, experiential/applied learning of STEM in a living classroom. This professional would develop new curriculum for experiential environmental education and have the significant task of collaborating with educators to define learning goals and create teaching areas to align with those goals. A subject matter expert would be best suited to support Camp Colman in this endeavor.

The model could include:

- Creating a nearshore restoration demonstration site with a focus on:
  - Climate change adaptation, STEM
  - Coast Salish: Indigenous people of the Pacific Northwest
- Potential Partner Organizations: Pierce Conservation District, South Puget Sound Salmon Enhancement Group, Tribes (Squaxin Island, Nisqually, Puyallup), University of Washington, Puget Sound Partnership/Institute, Shore Friendly.

**Estimated Range of Costs: \$80,000**

## Stormwater Management

The combination of uncontrolled sheet flow and shallow concentrated stormwater flows, shallow groundwater, documented poor permeability of the underlying geology, and presence of soils that are vulnerable to erosion suggests that improved stormwater management is necessary to reduce erosion hazards, see Figure 9. Water from gutters, cleared areas, trails, and parking lots should not allowed to flow directly toward and down the bluff face but should be collected and conveyed to the toe of the bluff or dispersed in areas that will not exacerbate erosion hazards. dissipated in areas with low slopes and dense upland vegetation or tightlined directly to base of the bluff.



**Figure 9. Rills from Stormwater Flowing Down the Uplands to the Bluff Face.**

To implement proper stormwater management, first a plan will need to be developed. Next a system to convey stormwater flows in the core camp area to the toe of the bluff will need to be installed. Then other stormwater improvements will need to be implemented as per the plan that is developed.

**Estimated Range of Costs: \$75,000 for drainage and \$50,000 for additional, improvements across camp, \$23,000 – \$95,000 for permitting.**

**Total: \$143,000 to \$240,000**

## **Modify Existing Dock/Aquatics Program Center**

The current, fixed attachment of the dock to the shore does not allow for the rise and fall of tides expected after restoration. Under fluctuating water levels, the current cement anchors are insufficient for keeping the dock in place (Figure 10). Steel piles should be driven in, and the dock attached to them to allow it to rise and fall with the tide in the same position, particularly during storms. A new gangway will be required, secured to a deck or pier elevated above the highest tides to allow for vertical movement of the dock. Part of the existing shoreline access stairway could be rebuilt or repurposed for this function (see above).

Restoration of tidal fluctuation with Whiteman Cove will immediately impact the functionality of the existing dock, so adaptation of the dock should happen prior to or during restoration. The dock current appears functional and may be reused with little change other than how it is kept in place. Geotechnical investigations will be required to determine pile size, location, and depth. Permitting of pile-driving activities within marine environments can be done but will take time and usually require marine mammal monitoring during construction to prevent disturbance, particularly of whales.



**Figure 10. Existing Concrete Anchors Used to Secure the Lagoon Dock.**

The project component will require federal, State, and local permitting reviews for environmental regulatory compliance. The anticipated permitting costs are estimated to be high due to the proposed in-water construction and will require an extended duration for the permitting process. However, this adaptation of an existing shoreline use should be permissible.

**Estimated Range of Costs: \$108,000 to \$340,000**

## Construct New Dock on Case Inlet

An alternative to adapting the Whiteman Cove dock would be construction of a new dock on Case Inlet, similar to, but at a smaller scale than, the dock at Joemma State Park. The ideal location for such a dock would be near the base of the spit, in the vicinity of the bottom of the hill. This would provide closer access to deep water, which results in a shorter (and less costly) pier. A Case Inlet dock would provide access to the water considerably more frequently than the dock in Whiteman Cove, which would be frequently grounded during low tide.

A new 300-foot pier would be constructed, attached to the base of the spit by an abutment at approximately the current road elevation. This abutment would require a small amount of shoreline armoring, either a concrete or riprap wall, to provide protection from wave energy. The pier would be designed to provide 6 feet of clearance between rails, allowing people to pass when carrying boats to and from the dock. Support for the pier decking would be approximately 40 steel piles, driven in pairs with steel beams between.

Construction of a new docks will require grating to allow light penetration through slatted decking, typically made of fibrous composite material for extra traction. Dock pilings will be required to stabilize the structure along with a gangway to provide access at all tide levels.

A geotechnical analysis will be required early in the design process to inform the type, size, and location of support pilings, which are a significant portion of the overall cost. Other specialized design would include structural analysis of the pier and a wave energy analysis for the support pilings. Archaeological investigation will also be required for any work on the spit, including installation of the abutment and piles. A bathymetric survey of the tidelands within 400 ft of the shoreline will help inform the overall length required to maintain water access during low tides.

An important consideration when relocating a dock from a protected location such as Whiteman Cove to open water is the safety of swimmers and boaters. Attention must be paid to tide levels, particularly the anticipated change in tide and to a lesser extent current induced by tidal flow. At very low tides the gangway is likely to be quite steep, making hauling boats up and down challenging, particularly for children.

Construction of a marine dock will require federal, State, and local permitting reviews for environmental regulatory compliance. The anticipated permitting costs are estimated to be very high due to the proposed in-water construction and will require an extended permitting process. The current regulatory framework is not conducive to new dock construction, so engaging with tribes and permitting agencies early will be very important to judging the likelihood of acquiring permits.

**Estimated Range of Costs: \$1,608,000 to \$2,790,000**

## Permitting Review

Likely permitting requirements (Table 1) were established for each action. As actions are conceptual in status, it is important to be mindful that a formal permit review process is typically applied on more well-developed actions. As a result, there may be some changes to the permitting requirements as projects evolve and plans become more detailed.

**Table 1. Permitting Needs Associated with Recommended Actions.**

Camp Colman Actions	PERMITTING NEEDS															
	Pierce County						Washington Department of Fish and Wildlife	Washington State Department of Natural Resources	US Army Corps of Engineers <sup>a</sup>							Washington State Department of Ecology <sup>b</sup>
	Pierce County Building Permit	Critical Areas Review	Shoreline Compliance (Exemption or Substantial Development Permit) <sup>c</sup>	Geotechnical Assessment	Land Use (clearing and/or grading)	State Environmental Policy Act (SEPA) Compliance	Hydraulic Project Approval (HPA) <sup>a</sup>	WDNR Lease	CWA Section 404 Nationwide or Individual Authorization/Rivers and Harbors Act	Section 7 Endangered Species Act Compliance	Essential Fish Habitat (Magnuson Stevens-Fisheries Conservation Act Compliance)	Pre-Construction Forage Fish Survey	Marine Mammal Monitoring	Coastal Management Zone Certification	Section 106 National Historic Preservation Act Compliance	401 Water Quality Certification
Relocate Cabins and Septic Pump Station		X	Exemption	X	X	X										
Rebuild Trail Along Whiteman Cove Shoreline		X	Exemption	X	X	X		?								
Modify Existing Dock/Aquatics Program Center		X	Exemption or Substantial Development		X	X	X	X	X	X	X	X	X	X	X	X
Construct Pier on Case Inlet		X	Substantial Development		X	X	X	X	X	X	X	X	X	X	X	X
Remove Existing Boat House: Replace with Mobile Boat Storage		X	Exemption			X	?		?	?				?	?	
Modify Shoreline Access to Whiteman Cove		X	Exemption	X	X	X	X	?	X	x	X	X	X	X	X	X
Develop and Implement Physical and Ecological Monitoring Program																
Stormwater Management		X	Exemption	X	X	X										X
Vegetation Management		?	Exemption		?	?										
Relocate Firepit, Stage, and Storage Shed		X	Exemption		X	X										
Implement Plans for Taylor Property																
Build Stewardship Program/Curriculum																
Develop Mobile Marine Center		X (demolition only, may be exempt)	Exemption		X (demolition only)	X										

<sup>a</sup> Washington Department of Fish and Wildlife and US Army Corps of Engineers require a Joint Aquatic Resource Permit (JARPA) Application and Site Plans.

<sup>b</sup> Washington State Department of Ecology administers Section 401 Water Quality Certifications of the Clean Water Act for federal permitting compliance in Washington state.

<sup>c</sup> Pierce County shoreline permitting is required for all in-water construction and activities occurring 200 feet landward of the Ordinary High Water Mark (OHWM), unless exempted by the Revised Code of Washington.

All project activities proposed to occur within 200 feet of the Ordinary High Water Mark (OHWM) of Case Inlet and Whiteman Cove will require review and authorization according to Pierce County's shoreline regulations (Title 18S PCC). Pierce County will review the project components within its shoreline jurisdiction according to the criteria set forth in the Shoreline Master Program Guidelines for a Shoreline Exemption or Substantial Shoreline Development Permit as required by the State's Shoreline Management Act (RCW 90.58, WAC 173.27).

All project components proposed to occur in or near Pierce County's protected critical areas (wetlands, fish and wildlife habitat areas, floodplain and steep slopes and associated buffers/setbacks) will also be reviewed according to the compliance requirements of Title 18E – Development Regulations-Critical Areas of PCC.

All project components that will result in in-water construction (below the Ordinary High Water Mark of the Cove or Case Inlet) or potential changes in hydrologic regimes will also require approval from Washington Department of Fish and Wildlife (WDFW) for a Hydraulic Project Approval (HPA) permit. The WDNR's review of their aquatic lease requirements may also need to be completed.

Any and all proposed modifications to the existing dock and or installations of new dock components or changes in the hydrological regime below the High Tide Line (HTL) of Whiteman Cove or Case Inlet will require federal authorization by the US Army Corps of Engineers (USACE) for compliance with Sections 404 and 401 of the Clean Water Act and Section 10 of the Rivers and Harbor Act (Case Inlet). The repair, maintenance, and *in situ* replacement of the existing dock at Whiteman Cove may potentially be authorized by a nationwide permit. However, any expansion of the existing dock footprint or the installation of new dock components, such as relocating the aquatic activities at Case Inlet, will likely exceed the requirements for a Nationwide Permit, and therefore will require an individual project review with an obligatory public notice comment period. The timing for an Individual permit project review is typically 2 to 3 years; however, some docks or marina actions take considerably longer for permit approval.

Federal permit authorizations additionally require compliance with Section 7 of the Endangered Species Act (ESA), Section 106 of the National and Historic Preservation Act, the Coastal Management Act and the National Environmental Policy Act (NEPA). Protections to Essential Fish Habitat (EFH) as regulated by the Magnuson-Stevens Fisheries Conservation Act and compliance with the Marine Mammal Protection Act will also need to be reviewed as documented in a Biological Evaluation/Biological Assessment report prepared by the applicant for submittal to the USACE, NOAA Fisheries (National Marine Fisheries Service) and US Fish and Wildlife (USFWS). Pile driving associated with dock construction results in construction generated in-air and underwater noise that may affect fish, marine mammals and foraging seabirds unless mitigating measures are applied.

For NEPA compliance, the project may meet the criteria of a Categorical Exclusion. Otherwise, an Environmental Assessment supporting a Finding of No Significant Impact (FONSI) or a comprehensive Environmental impact Statement may be required for federal review by the federal \Lead Agency. Similar to NEPA, the State's Environmental Policy Act (SEPA) lead agency (mostly likely Pierce County) will determine if project-associated environmental impacts are non-significant or significant based on the initial submittal of a SEPA Checklist document.

All agency project reviews will require an analysis of the project's components to avoid, minimize and mitigate for environmental impacts. For those components of the project that result in unavoidable environmental impacts, a discussion regarding the necessity of a proposed action and proposed mitigating measures to minimize impacts will be required. For example, if a new dock was proposed for installation in Case Inlet, it is necessity for camp operations and rationale for the non-feasibility of using any existing public docks within the immediate vicinity of the site would need to be stated.

## RECOMMENDED SUPPORTING INVESTIGATIONS

### Stewardship Program Development Consultation

Creating a new program model requires alignment of the organization and facility's assets with the needs of the users to develop a program that is missionally vital and can be financially viable to operate. We would recommend a process that includes working with YMCA Camp Colman staff to assess current curriculum for relevance, visioning new learning models for summer camp, and outdoor educational experiences and retreat programming. The process would include gathering input from potential partners to expand resources as well as gathering input from current and potential constituent groups about the need for learning outcomes to be offered in this new and expanded program. Additionally, the process will include financial modeling to define annual expenses (such as staffing, supplies, site support) and the necessary income (guests in each program model) to support a viable program model.

The outcome of the consultation will include vision definition for a stewardship program aligned with partner and constituent needs as well as an initial operating financial model to identify levels of use necessary for long term financial health.

**Estimated Cost:        \$13,500**

### Geotechnical Assessment

Geotechnical investigations will be required for several of the above actions. Most of the geotechnical work will entail determining the bearing capacity for foundations (relocated cabins) and piles (dock, stairway, and boardwalk). Work to be done would likely first entail hand-dug pits with follow up of several drill holes in key areas. Subsurface investigations could also help increase certainty on bluff-crest setback distances for existing and future development of the camp.

A significant portion of the investigation costs will be in mobilization of equipment and reporting. Therefore, planning ahead and aggregating the geotechnical assessments into one larger investigation could provide an overall cost savings.

**Estimated Cost:        \$50,000**

### Comprehensive Vegetation, Stormwater, and Trail Management Plan for Camp Colman

This plan will 1) assess the character and extent of the vegetation on site that will affect the management of stormwater, the stability of the bluff, and the erosion risk, 2) the existing stormwater flow patterns, the bluff stability and erosion risks associated with stormwater and

the opportunities to address those risks, and 3) an assessment of the existing trail network, its condition and suitability for the intended use, and its landslide and erosion risk. For each of the three topics to be covered in the study, the site will be analyzed and a list of prioritized recommended improvements will be developed along with planning level costs.

**Estimated Cost:       \$75,000**

## **Taylor Property Pre-Design Study**

A pre-design study is needed to determine the scope, scale, and budget for the new aquatics facility on the Taylor Property. The scope of work for this study is expected to include the following:

1. Development of a business plan
2. Defining program elements and space allocation
3. Site analysis
4. Concept level siting and layout options (three)
5. Preliminary building designs for the new pool and locker room facility
6. Marketing product of at least three renderings
7. Utility study
8. Permitting requirement identification
9. Building and construction cost estimates
10. Construction timeline

**Estimated Range of Costs:   \$250,000**

## **SUMMARY OF COSTS AND TIMELINES**

The most immediate needs for funding and adaptation of Camp Colman to support the Whiteman Cove restoration consists of stewardship program development consultation, geotechnical assessments for identifying optimal locations for structure relocation, comprehensive planning for vegetation, stormwater and trails, and the Taylor Property pre-design study (Table 2). Each of these efforts would be prerequisites to larger adaptation of Camp Colman infrastructure and would provide key information relevant to future decision making and priorities of Camp needs.

<b>Recommended Supporting Investigations</b>	<b>Cost</b>
Stewardship Program Development Consultation	\$15,000
Geotechnical Assessments	\$50,000
Comprehensive Vegetation, Stormwater, and Trail Management Plan	\$90,000
Taylor Property Pre-Design Study	\$250,000
<b>Total</b>	<b>\$405,000</b>

The actions that were identified and described (above) address various types of needs for Camp Colman resulting from the WDNR Restoration. These actions range from revised shoreline access, to moving at-risk camp infrastructure and reformatting general YMCA camp programming. The bulk of the costs are associated with adapting Camp infrastructure to the changing conditions associated with the restoration, including replacing the loss of the aquatics program (Table 3). The cost of reconfiguring camp access to the marine shoreline was also considerable. Mitigating risk and focused investment in YMCA programming were the least cost-intensive actions (Table 3). Fire Suppression (up to \$1,300,000) and Contingency Funds for potential regulatory driven mitigation that may be required to implement these actions (up to \$500,000) were also included as they represent large costs that will be required by the GS YMCA because of the WDNR restoration of Whiteman Cove.

<b>Cost Type</b>	<b>Minimum</b>	<b>Maximum</b>
Mitigate Risk	\$460,000	\$1,670,000
Access	\$1,808,000	\$3,444,000
Infrastructure	\$4,984,000	\$9,175,000
YMCA	\$125,000	\$175,000
Contingency Funds	\$300,000	\$500,000

Not all actions may be required or are appealing to the YMCA of Greater Seattle. Some critical decisions may represent more of a fork in the road where the selection of a specific course of action may result in another action no longer being necessary.

Following completion of the recommended supporting investigations outlined above, several of the cost estimates presented below will be refined and increased in accuracy. The actions to mitigate risk should be implemented without delay.

The current cost estimates (Table 4) reflect a general range based on Herrera’s existing understanding of the YMCA’s values and objectives and the Camp Colman properties. However, these costs are estimates and their accuracy is variable, largely due to the clarity and finality of decisions and supporting information relevant to the action. These costs also do not account for all land use and permitting requirements that may be triggered by developments. However, fire suppression requirements will be triggered by moving and/or rebuilding structures on the property, the costs of which are substantial. Therefore, these costs are included below. In

addition, funding to support some regulatory driven mitigation associated with each of these actions has been included.

Priority Actions	Type	Design + Permit + Build	
		Cost Low	Cost High
Relocate Cabins and Septic Pump Station	Mitigate Risk	\$400,000	\$1,500,000
Fire Suppression (required to meet fire code for relocation of cabins)	Infrastructure	\$1,000,000	\$1,300,000
Modify Shoreline Access to Whiteman Cove	Access	\$113,000	\$345,000
Remove Existing Boat House; Replace with Mobile Boat Storage	Infrastructure	\$38,000	\$75,000
Develop Mobile Marine Center + Truck	Infrastructure	\$195,000	\$220,000
Construct New Marine Education Center	Infrastructure	\$1,000,000	\$2,000,000
Relocate Firepit, Stage, and Storage Shed	Mitigate Risk	\$48,000	\$105,000
Develop and Implement Physical and Ecological Monitoring Program	YMCA	\$45,000	\$95,000
Rebuild Trail Along Whiteman Cove Shoreline	Access	\$87,000	\$309,000
Implement Plans for Taylor Property	Infrastructure	\$2,500,000	\$5,000,000
Vegetation Management	Mitigate Risk	\$12,000	\$65,000
Build Stewardship Program/Curriculum	YMCA	\$80,000	\$80,000
Stormwater Management	Infrastructure	\$143,000	\$240,000
Modify Existing Dock/Aquatics Program Center	Infrastructure	\$108,000	\$340,000
Construct New Dock on Case Inlet	Access	\$1,608,000	\$2,790,000
Contingency Funds <sup>a</sup>	Access	\$300,000	\$500,000
<b>Total</b>		<b>\$7,677,000</b>	<b>\$14,964,000<sup>b</sup></b>

<sup>a</sup> Funding needed to mitigate impacts derived from different actions.

<sup>b</sup> This cost estimate is in 2021 dollars.

In total the cost of all actions will range from \$7,677,000 to \$14,964,000 (in 2021 dollars), not including the recommended supporting investigations. The recommended supporting investigations can be funded by the Proviso. Additional funds will be required in the 2022–2023 supplemental budget to support development of YMCA programs and infrastructure and to mitigate risk prior to the restoration implementation, which is planned for summer of 2023.

Funding requests for the future have been escalated to reflect the use of 2021 dollars in the development of cost estimates. The escalation rate applied was 4 percent per year and was applied only to these data summaries in which the biennium requests are noted. For all funding requests we recommend requesting the upper end of the range as all actions are merely design concepts, and additional unexpected costs will indubitably occur.

Based on this analysis, the coarse status of these actions, Camp Colman’s operating needs, the timeline of the WDNR restoration, and the quick timeline in which these estimates were requested, Herrera recommends that the GS YMCA requests a total of \$1,406,080 from the

2022–2023 supplemental budget, and \$13,645,230 from the 2023–2025 biennium capital budget, to support the GS YMCA and Camp Colman adapting in response to the WDNR Whiteman Cove restoration (Table 5).

<b>Table 5. Cost Estimates and Timeline.</b>		
<b>Timelines</b>	<b>Actions</b>	<b>Cost</b>
Proviso/Current	Recommended Supporting Investigations: Stewardship Program Development; Geotechnical Assessments; Comprehensive Vegetation, Stormwater, and Trail Management Plan. Not to exceed the \$500,000 allotted within the Proviso.	\$405,000
Supplemental Budget 2022–2023	Fire Suppression	\$1,406,080
Needs for 2023–2025 Capital Budget	Relocate At Risk Cabins and Septic Pump, Remove Boat House and Replace with Trailer and Upland Boat Storage, Relocate Firepit, Stage and Shed, Modify Existing Dock/Aquatics Program, Implement Plans for Taylor Property, Build Stewardship Program/Curriculum, Modify Shoreline Access to Whiteman Cove, Develop Mobile Marine Center and Truck, Develop and Implement Physical and Ecological Monitoring Program, Rebuild Trail along Whiteman Cove Shoreline, Vegetation Management, Stormwater Management, Construct New Marine Education Center, Construct New Dock on Case Inlet, Contingency Funds	\$13,645,230

## REFERENCES

Anchor QEA. 2015. Draft Preliminary Design Report Whiteman Cove Estuary Restoration. Anchor QEA, LLC, Bellingham, Washington.

Anchor QEA. 2020. Whiteman Cove Project Hydraulic Assessment. Anchor QEA, LLC, Bellingham, Washington.

WDNR. 2020. Whiteman Cove Project Feasibility Report, prepared for Washington State Department of Natural Resources by Anchor QEA, Blue Coast Engineering, and KPFF. Washington State Department of Natural Resources, Olympia, Washington.

# APPENDIX A

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## Kaleidoscope Needs Assessment

# YMCA Camp Colman

## Needs Assessment

### October 2021

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#### Current Program and Operation

YMCA Camp Colman’s program is centered around the recreation, educational area and aesthetic of the enclosed saltwater lagoon. The identity and distinguishing character of the program, through marketing and branding has been the enclosed saltwater lagoon.

Three primary operating models comprise the YMCA’s program at Camp Colman: summer residential children and youth camps, outdoor environmental education (OEE) through the school year and retreat events for all ages including families, women’s groups, and parent/child events through the year.

With the re-creation of the current lagoon area, the impact on program will be significant.

	Current Use	Shifting with Project	Opportunities	Questions
Summer Camp	Swim, boating, kayaking, paddle board, water play (inflatables), program/teaching areas	Water activities will be limited to times of high tide and/or a very reduced area that retains sufficient water.	Expand program and teaching areas including environmental study, history of area	How to re-create daily water activity areas including area for swimming AND boating?
OEE	Boating, kayaking, paddleboard, education areas	Water activities will be limited to times of high tide and/or a very reduced area that retains sufficient water.	Expand education areas including new marine center, add program related to native populations, salmon recovery, etc.	Short term school groups (2-3 days) may not have access for use of boats, paddleboard.
Retreat	Boating, kayaking, paddle board, program/teaching areas	Water activities will be limited to times of high tide and/or a very reduced area that retains sufficient water.	Expand program and teaching areas including environmental study, history of area	How to re-create water activity areas for boating, especially during short term retreats (2-3 days)?

Other implications to the operating model may include the loss of key facilities on the property including guest cabins and a group campfire area. Replacing the number of bed capacity of lost guest cabins will be necessary as each operating model currently utilizes the space for guests. The group campfire area will be a key space to re-define as this setting is an integral part of evening program for all models, summer camp, OEE groups and retreat events.

As Camp Colman reviews and plans for each operating model, it is key to:

- Maintain full capacity of the summer camp program (the signature program and main income driver);
- Continue to develop retreat programs;
- Expand program quality and define the unique opportunities of OEE at Camp Colman.



# YMCA Camp Colman

## Needs Assessment

### October 2021

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The consultant's perspective is that the summer camp program is at most risk with the re-creation of the lagoon as play and adventure are key to building community, discovering self and teaching values of camp. Short term retreats can more easily adjust to the opportunities the site affords. OEE will have great opportunity to expand curriculum and create a unique model for schools.

#### Site Review - Program Perspective

Anderson Lodge (main lodge and dining hall) is the central core of all programs and is center to the layout of Camp Colman. Cabin villages for guests are built in relation to Anderson Lodge within short walking distance. The lagoon provides the expanded view from Anderson Lodge and the water front program area. Other program areas, such as adventure and an initiatives course are further from the core of the property. This classic layout provides guests easy access to the dining hall three times a day for meals. Kaleidoscope advises camps and planners to locate youth lodging within 900'-1,200' radius of dining, less in relation to terrain. Adult guests prefer lodging within 600' radius of the core. Common program areas are typically within the 1,200' radius with destination program areas beyond this distance.

#### Future Program Needs

For Camp Colman to continue offering the operating models key to their mission and identity, these areas need to be developed:

- Waterfront (with dock) to provide for boating, kayaking, paddleboard
- Pool for swimming, a daily activity for all guests in summer
- Marine Center for teaching to expand OEE quality and curriculum
- Relocated cabins
- Relocated group campfire area

#### **Future Site Development – Mitigation of Changing Landscape**

##### Waterfront

It is imperative that the re-shaping of the lagoon provide a waterfront for activity such as boats, kayaks, paddleboards. This area has been a primary activity for summer camp each day. With 200 campers in weeklong sessions, water access is a part of the daily rotation of camper groups so that each camper can experience the waterfront multiple times per week.

##### Pool / Aquatic Center

Daily swimming is a main summer camp activity for all campers. Locating a site for a pool is challenging on the Camp Colman property. For a swim period to be a part of the daily activity schedule, it needs to be located in close proximity to the core of camp. Locating a flat and open area in the core may not be possible without relocating other structures, creating a flat area and removal of vegetation. Areas to consider for development may include the garden area and the playfield. Both areas have challenges including close neighbors and current use. A potential area for development of a pool is the Camp Taylor property recently acquired by the YMCA. While this area is conducive for a pool, the location is challenging as it is a significant distance for campers. The program model would need to shift to create a destination area where camper groups could spend 3-4 hours with multiple recreation areas including a pool. Transportation (bus, bikes, secured hayride) will be necessary.



# YMCA Camp Colman

## Needs Assessment

### October 2021

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#### Marine Center

Close access to the water will allow for a unique and complimentary education center to expand curriculum and share the story of why this project is imperative to the ecology of the area.

#### Relocated Cabins and Group Campfire Ring

The property has limits to available land for new facilities, but cabins can be designed to work with the landscape and topography. Further study can define the best location for relocated cabins and new cabins that were proposed in a previous planning project by Camp Colman.

The group campfire area will be more challenging as it needs to be located within the core in a setting that captures the beauty and views of the location.

#### **FUTURE VISION**

The potential for Camp Colman to be an education center that provides teaching about the history of the area, the Squaxin Island Tribe, salmon lifecycle and marine ecosystems, and Northwest culture is significant with the re-created lagoon. Each of the three primary operating models will benefit from this opportunity to expand curriculum in each setting. The impact of recreation, especially for summer children and youth camp is a crucial concern. Camp Colman leaders will need to recreate the identity defining these questions:

- How to distinguish in YMCA summer camps in the Association?
- How to distinguish among OEE centers?
- How to appeal to retreat groups?

#### **Recommended Next Steps**

With the determination of the outcome of re-creating the lagoon, Camp Colman needs to update the master site plan to locate the displaced facilities and recreation functions, including:

- Waterfront
- Pool (and accompanying recreation areas, if remote from core)
- Marine center
- Relocated cabins
- Relocated group campfire area

The master site plan needs to review all current property use, potential areas to develop, define the scope of development to quantify necessary capacity of each facility or area, create initial concepts and elevations for primary initiatives and create an opinion of probable costs to identify development costs for each project in the updated plan.



# APPENDIX B

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## Task 2 Risk Report



October 27, 2021

Gwen Ichinose-Bagley  
Meredith Cambre  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, WA 98104

Subject: Risks to Camp Colman from Whiteman Cove Restoration, Longbranch, Washington

Dear Gwen Ichinose-Bagley and Meredith Cambre:

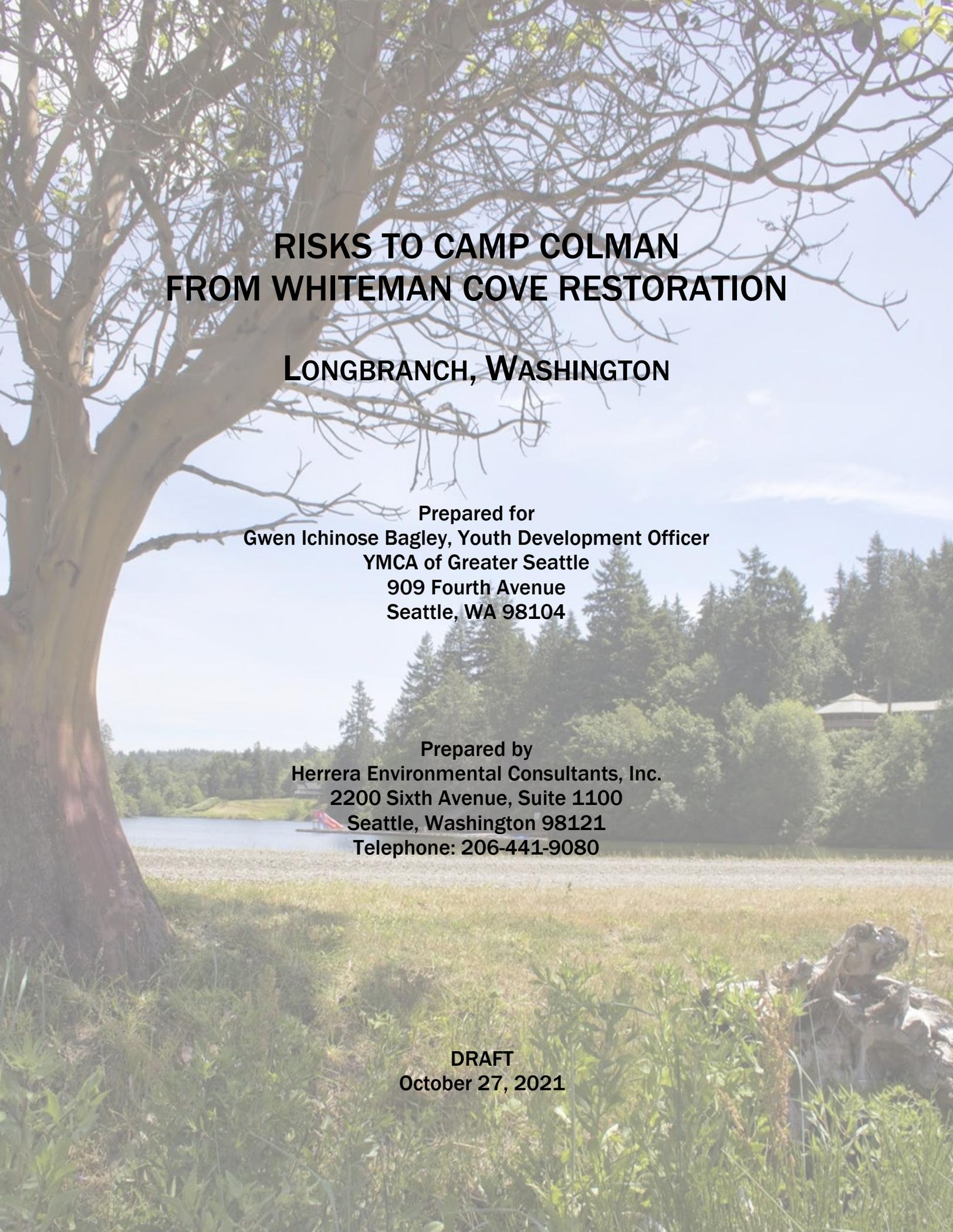
The Herrera team reviewed relevant background information on the DNR Restoration of Whiteman Cove and visited the site to better understand baseline conditions at Camp Colman. Based on this early assessment of the site and our current understanding of the DNR restoration, we have compiled the following review of potential risks to the Camp Colman property and camp facilities. This Task 2 report will form the foundation for the Task 3 Conceptual Development Plan.

Sincerely,

Herrera Environmental Consultants, Inc.

Andrea MacLennan, MS Senior  
Coastal Geomorphologist





# **RISKS TO CAMP COLMAN FROM WHITEMAN COVE RESTORATION**

## **LONGBRANCH, WASHINGTON**

**Prepared for  
Gwen Ichinose Bagley, Youth Development Officer  
YMCA of Greater Seattle  
909 Fourth Avenue  
Seattle, WA 98104**

**Prepared by  
Herrera Environmental Consultants, Inc.  
2200 Sixth Avenue, Suite 1100  
Seattle, Washington 98121  
Telephone: 206-441-9080**

**DRAFT  
October 27, 2021**

## OBJECTIVES

YMCA Camp Colman is located along the south shore of Whiteman Cove, on northeast Case Inlet, in Pierce County, Washington (Figure 1). The Washington Department of Natural Resources plans to conduct a large-scale restoration of the tidal channel that flows into Whiteman Cove, which was blocked in 1962. Restoration of tidal flow will result in inherent changes to the Camp Colman property including areas of increased flooding and erosion, as well as unique opportunities for environmental education and stewardship.

The objectives of this study are to evaluate site conditions, document likely changes to nearshore conditions on the YMCA Properties, identify potential risks to camp infrastructure, and outline opportunities for the Camp's waterfront programs.

This report consists of a summary of relevant background conditions at the site, followed by a summary of likely impacts to the Camp Colman property, and recommendations for Camp Colman infrastructure that will likely be affected following the DNR restoration. These recommendations and results will be then integrated to develop an alternatives analysis to guide the selection of a preferred design concept to address the ongoing combined issues of stormwater management and bluff recession.

## BACKGROUND

The subject property, YMCA Camp Colman, is located along the south shore of Whiteman Cove, on northeast Case Inlet in Pierce County, Washington. In its current state, Whiteman Cove is separated from Case Inlet by a filled historical tidal channel, on top of which runs Bay Road (Figure 1). This road provides the primary vehicular access to YMCA Camp Colman. Limited hydrologic exchange between Whiteman Cove and Case Inlet occurs through two large, gated culverts underneath Bay Road.

Under the 2013 federal court ruling *U.S. v Washington*, the State of Washington has an obligation under treaty agreements with 21 tribes to protect and preserve tribal fishing rights. This obligation includes restoration of fish passage at "dams, culverts, tide gates, dikes, and other instream structures" (United States v. Washington, 2013). In accordance with the ruling, DNR is seeking to remove the tide gate under state ownership at Whiteman Cove and restore fish passage between Whiteman Cove and Case Inlet (DNR, 2021).

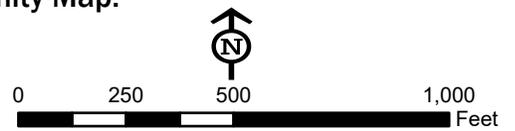


**Legend**

-  YMCA Parcels
-  Pierce County Tax Parcels
-  Roads



**Figure 1.**  
**Whiteman Cove and Camp Colman**  
**Vicinity Map.**



A preliminary restoration feasibility study requested by DNR in 2015 found that restoration of fish passage would require a tide channel greater than 40 feet wide to ensure that water velocities did not limit fish movement between Whiteman Cove and Case Inlet (Anchor QEA, 2015). This minimum size limitation informed the 2020 hydrologic assessment of the site, which evaluated four alternative fish passage restoration designs (Anchor QEA, Blue Coast Engineering, KPFF, 2020). Each alternative would restore fish passage while maintaining or rerouting vehicular access to Camp Colman. These alternatives included:

- Option 1: A new gated control structure at the current location of the DNR control structure, with improvements to access to Camp Colman
- Option 2: New weir control structure at historical opening to the north, with improvements to access to Camp Colman
- Option 3: Open channel at historical opening to the north; construct a bridge over the new opening to maintain vehicle access to Camp Colman
- Option 4: Open channel at historical opening to the north; construct a new road along existing, undeveloped county right-of-way from south into Camp Colman

The 2020 hydrologic assessment and feasibility report were provided to stakeholders, including local Tribal governments, YMCA Camp Colman representatives, and private property owners, for feedback on proposed alternatives and associated costs and impacts. Based on this feedback, DNR selected Option 3 as the preferred alternative for restoration (DNR, 2021).

## Historical Conditions

Prior to the 1960's, Whiteman Cove functioned as a tidally-influenced barrier estuarine lagoon with a tidal channel connecting the lagoon (Whiteman Cove) to Case Inlet (Figure 2). This tide channel was closed off in 1962 by the Washington Department of Fisheries in order to create a saltwater lake (also described as a "perched brackish water lagoon") suitable for rearing juvenile salmon (DNR, 2021; Figure 3). An intermittent freshwater stream outlets to Whiteman Cove's eastern extent, contributing to brackish conditions in the lagoon (Anchor QEA, Blue Coast Engineering, KPFF, 2020).

With the 1962 conversion to a fishery site, tidal exchange at Whiteman Cove was redirected to two large, gated culverts along the barrier (spit), allowing for restricted water flow in and out of the embayment. The historic tidal channel was filled and paved over, and currently provides vehicular access to YMCA Camp Colman. Use of Whiteman Cove as a managed fishery site was discontinued in the 1970s, but the road and associated tide gate infrastructure were left in place at the site (DNR, 2021).

In current conditions, minimal tidal exchange occurs between Whiteman Cove and Case Inlet, and the potential for fish passage into Whiteman Cove is relatively low (Figure 4). A 2012 WDFW

survey found that the northern gated culvert was completely impassable. The passage utility of the southern culvert is unknown but was found to be at least somewhat obstructed in a 2000 field survey by Pierce Conservation District (Anchor QEA, Blue Coast Engineering, KPFF, 2020).



**Figure 2. 1955 Aerial Image, Whiteman Cove (USGS).**



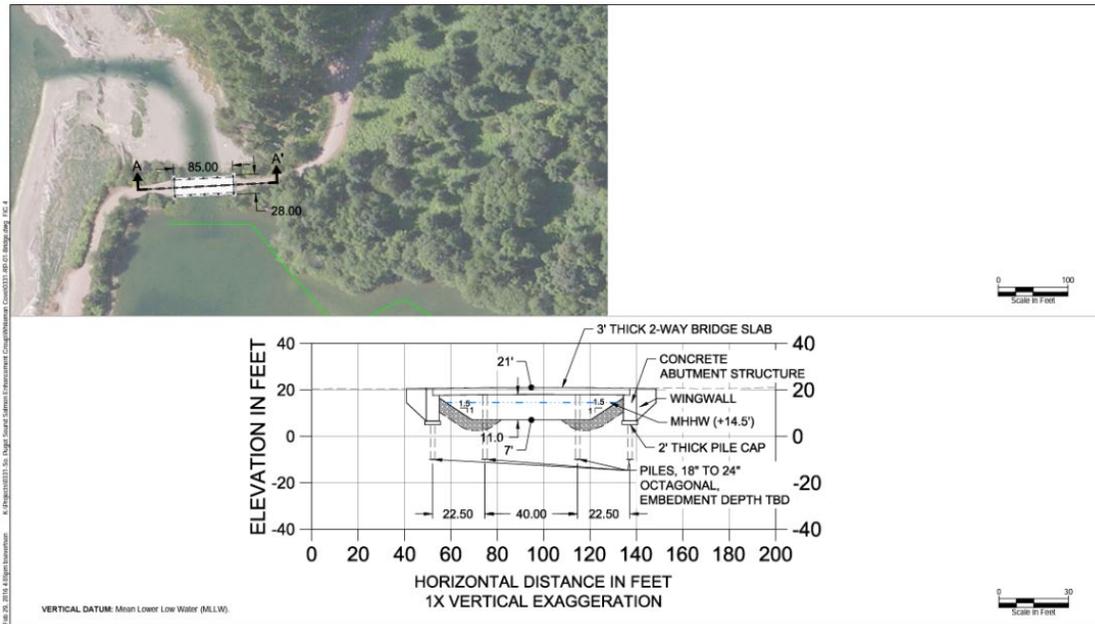
**Figure 3. 1961 Aerial Photo, Whiteman Cove (Pacific Aerial Surveys)**



**Figure 4. 2019 Aerial Photo, Whiteman Cove (Pierce County).**

## Summary of Changes Resulting from Restoration

DNR has been working with a consultant team lead by Anchor QEA on preliminary studies and engineering designs for the restored tidal flushing in Whiteman Cove. Of the proposed restoration options, Option 3, consisting of an open channel with a bridge to maintain current access to Camp Colman, was selected to meet the needs of the injunction to restore fish passage to and from Whiteman Cove (Figure 5).



**Figure 5. Draft Conceptual Design, Option 3 (AnchorQEA 2015).**

The selected design alternative, Option 3, would restore regular tidal inundation to Whiteman Cove in the vicinity of the historical tidal channel. This would be accomplished through removal of a portion of the fill across the historical tidal channel and the associated gated culverts (on DNR-owned land). A 100-foot (single/multi-span) bridge would be constructed over the reopened channel (Anchor QEA, 2015).

Per design details in the 2020 hydraulic assessment and feasibility report by Anchor QEA and others, the restored tidal channel design will have a natural (sand and gravel) bottom and will be aligned due north from Whiteman Cove. The channel would be designed at the elevation of the historical channel, thought to be about 3 feet NAVD88 (+7 feet mean lower low water (MLLW)). The elevation of the bottom of the channel (thalweg) would be allowed to fluctuate but is expected to remain stable within a range of a several feet over the long term. The channel will gradually curl to the northwest and connect with Case Inlet at a bed elevation of approximately +2 feet NAVD88 (+6 feet MLLW; Anchor QEA, Blue Coast Engineering, KPFF, 2020).

The restored inlet would measure approximately 550 feet long with a bed slope of 0.002. At its maximum, the restored channel would measure approximately 85 feet in width at the mean higher high water (MHHW) elevation (+10.4 feet NAVD88) and approximately 62 feet wide at

the thalweg (+3 feet NAVD88). The channel side slopes would be set to a slope of 1.5H (horizontal):1V (vertical). This option would also include a bridge and abutments along the existing alignment of the access road. The bridge design would entail adequate freeboard above extreme water levels. As such, the bridge deck is not expected to affect the hydraulics of the inlet (Anchor QEA, 2020).

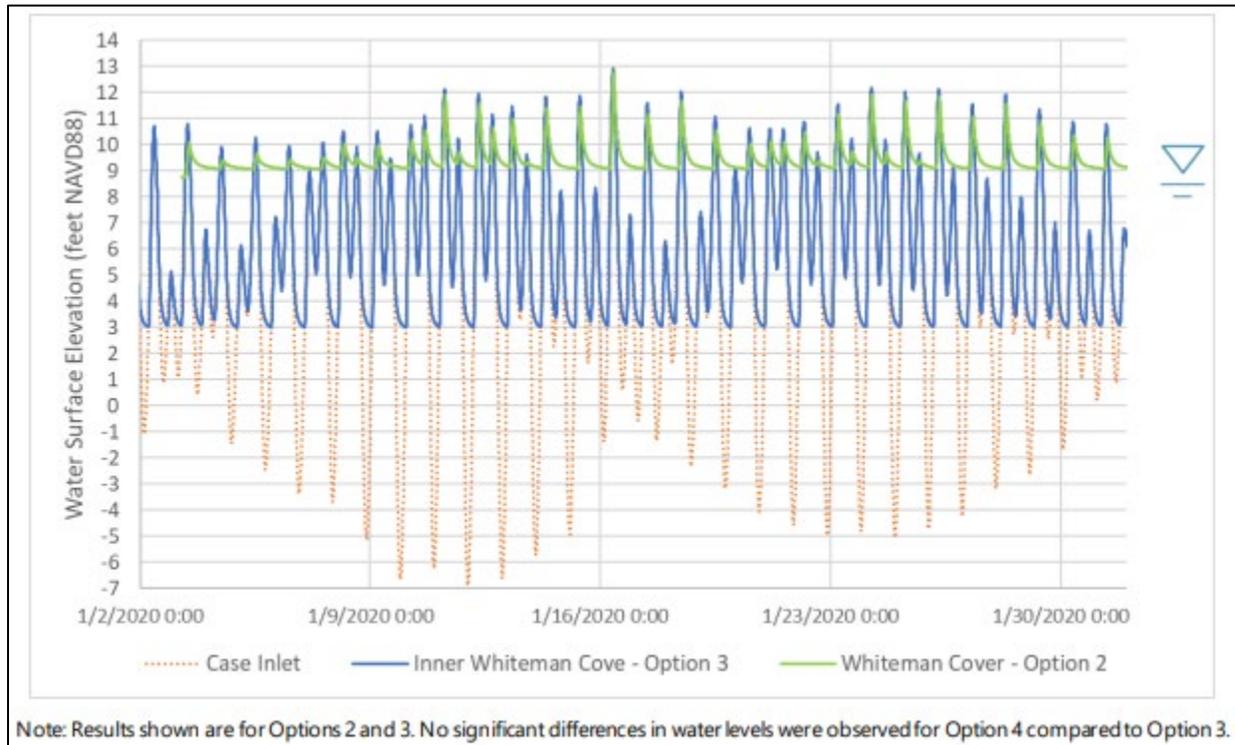
Restored water levels in the lagoon would be synchronized with Case Inlet, except when tides are below the elevation of the bottom of the channel. Although the proposed restored tidal channel would be considerably smaller than the width of the historical opening (which was between 100 and 120 feet wide; Anchor QEA 2020), results of 2D model simulations show that tidal exchange will be similar to historical conditions (Anchor QEA, 2020).

As a result of the proposed restoration approach, full inundation and drying of Whiteman Cove will be restored over the tidal cycle. Currently water surface elevations (WSE) in the Cove currently range from 13 feet MLLW (+9 feet NAVD88) to 14.5 feet MLLW (+10.5 feet NAVD88) but remain relatively constant at +13 feet MLLW (or 8.9 feet NAVD88; Table 1; Figure 6; Anchor QEA 2020). Following restoration, WSE within the Cove will be lower than the current water level elevation roughly 85 percent of the time, and higher than current water levels between 5 percent and 20 percent of the time over the course of a year (Anchor QEA, 2020).

During low tides in Case Inlet, the water level in the cove will drop approximately 6 feet below the current water level. This will result in most of the cove going dry at tides lower than 7 feet MLLW (+3 feet NAVD88). The tide is expected to be lower than this value about 30 percent of the time over the year (Anchor QEA, 2020). Increases in WSE from current conditions will primarily occur during high tides. However, as a result of the restored tidal flushing, the inner shoreline of Whiteman Cove will be more vulnerable to high water events, including storm surges caused by low pressure systems in the region as well as sea level rise. The effective 100-year Federal Emergency Management Agency (FEMA) flood elevation in Whiteman Cove is currently 17.1 feet MLLW (+13 feet NAVD88). Sea level rise projections for 2050 will likely contribute an additional 0.7 feet of water surface elevation, and considerably more between 2050 and 2100 (Miller, et al., 2020).

**Table 1. Water Surface Elevations at Whiteman Cove (AnchorQEA 2020).**

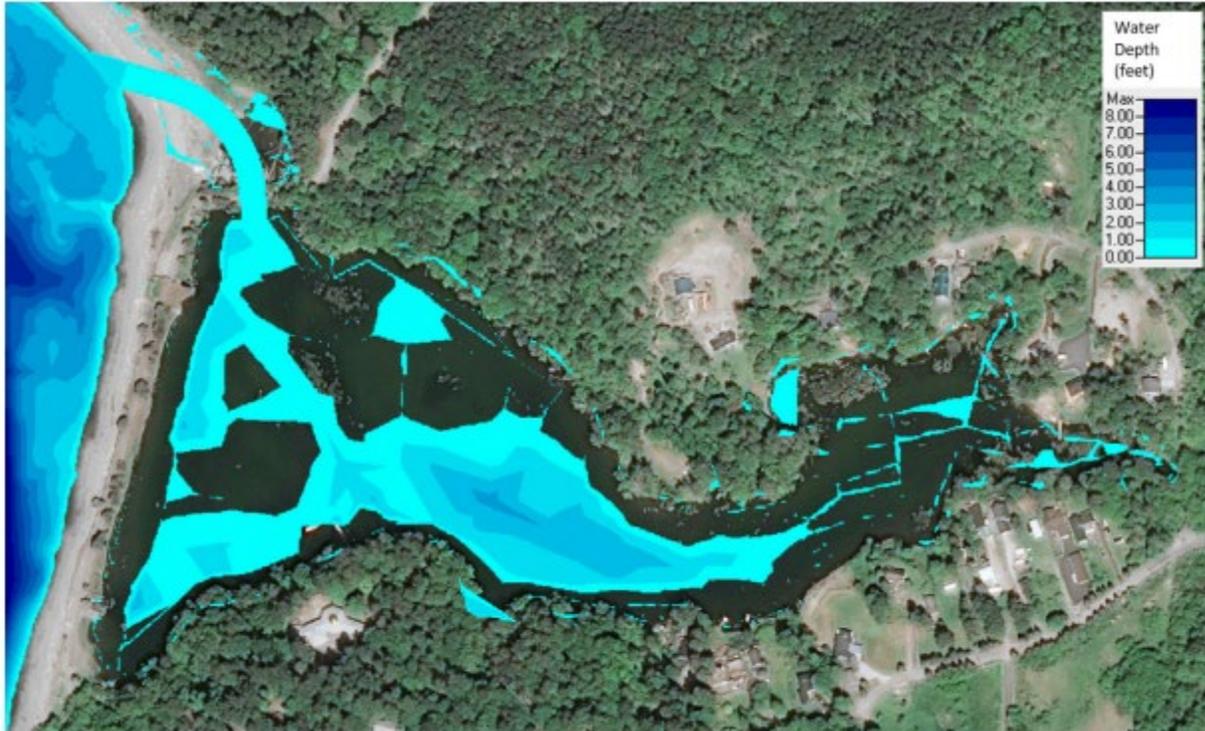
<b>Tidal Datum</b>	<b>Elevations Relative to MLLW (feet)</b>	<b>Elevation NAVD88 (feet)</b>
Current water level in Whiteman Cove	14.1	10
MHHW	14.5	10.4
Highest Astronomical Tide (HAT)	16.5	12.4
FEMA 100-year flood elevation	17.3	13
Mean higher high water (MHHW)	14.5	10.4
MHHW + SLR by 2050 (0.7 foot)	15.2	11.1
HAT + SLR by 2050 (0.7 foot)	17.2	13.1
FEMA 100-year elevation without wave run-up + SLR by 2050 (0.7 foot)	18	13.9



**Figure 6. Predicted Water Surface Elevations in Whiteman Cove and Case Inlet (Anchor QEA, 2020).**

The decrease in WSE at Whiteman Cove will have implications on the usability of the lagoon for swimming and boating. Additionally, the natural processes and decay of organic material is likely to contribute to sulfur-like odors during low tides in the lagoon. When low tides in Case Inlet drop below the proposed thalweg (lowest elevation in the restored tidal channel; 7 feet MLLW, +3 feet NAVD88) most of the lagoon shore will be dry with some ponding in areas below the thalweg elevation. Water levels are expected to be lower than 7 feet MLLW about 35 percent of the time over a typical year (Anchor QEA 2020). Figure 7 shows the areas in which there will likely be ponded water, based on the existing restoration design and recent bathymetric mapping.

Although more limited in frequency, there will also be regular times during which the WSE in Whiteman Cove is higher than the current elevation of +13 feet MLLW (8.9 feet NAVD 88). Anchor QEA’s hydraulic modeling outputs showed that heightened WSE could range from a few inches to up to three (or more)h higher in Whiteman Cove, primarily during higher-high tides. Less frequently, but still regularly (several days per month), water surface elevations will exceed 13 feet twice per day (Anchor QEA, 2020).



**Figure 7. Water Depth During Low Tide Conditions, Based on Modeling Results (from Anchor QEA 2020; Appendix A).**

The additional WSE will result in flooding of areas that are not currently subjected to salt water, which will be discussed further below (see *Areas at Risk of Flooding*). The additional areas flooded with salt water will result in a broader band of salt marsh vegetation within the Cove, likely within the elevations of 9 to 11 feet NAVD88 (13.1 to 17.1 feet MLLW). Expanded saltwater inundation will also result in changes to riparian vegetation along the shoreline, such as die-back of less salt tolerant upland vegetation that have grown in since the tide channel was filled, including trees along the shoreline of the Cove.

The added WSE will also affect the stability of the bluff along the south shore of the Cove, where Camp Colman is currently centered. Reintroducing tidal waters to the bluff toe will result in natural coastal bluff recession processes, which demonstrate a dynamic equilibrium between the water level, the toe of the bluff and the bluff crest. Water table elevations and bluff geology can also contribute to bluff erosion rates. As WSE increases against the toe of the bluff, the saturated bluff toe will erode and become undermined, which will drive landward adjustment up the bluff face and recession eventual recession of the bluff crest.

Bluff geology on the Camp Colman property is largely a product of the last period of glaciation, the Vashon Stade of the Fraser Glaciation, which ended roughly 14,000 years ago. Locally, glacial till is mapped overlying advance outwash sands (Powell, 2018). Glacial till is described as an unsorted and highly compacted mixture of clay, silt, sand and gravel deposited directly by glacier ice (Logan et al. 2003). Beneath the glacial till, glacial outwash sands were mapped and described as sand and gravel and lacustrine clay, silt and sand of northern source, deposited

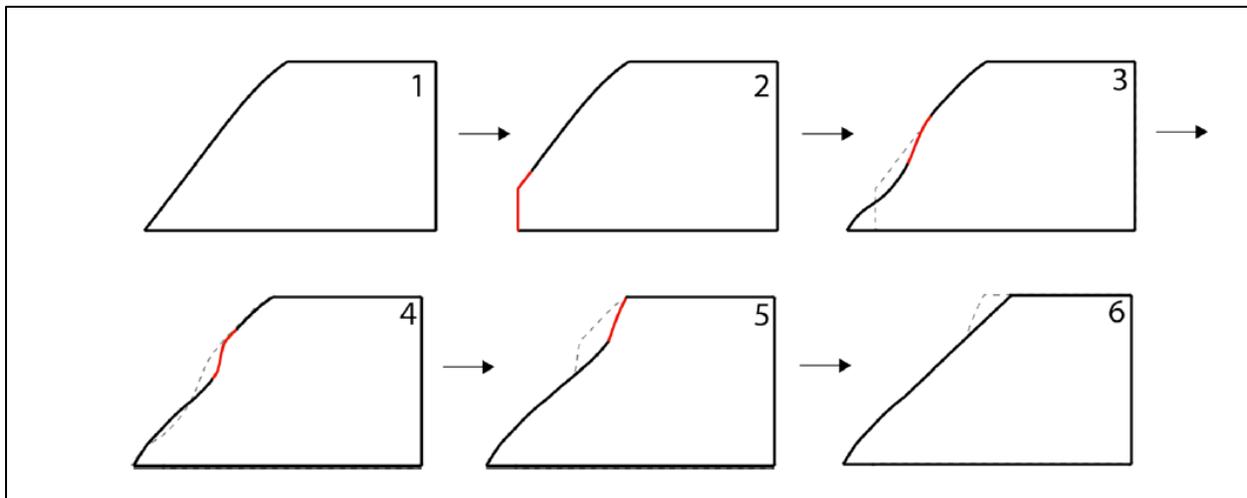
during glacial advance, generally permeable with low cohesivity relative to overlying and underlying sediments and subject to deep-seated sliding (Logan et al. 2003). Further east, including the Taylor property, surface geology is mapped as lacustrine clayey and fine sandy silt (Logan et al. 2003).

Landslide deposits have also been mapped in the area by Pierce County and DNR. Pierce County mapped much of the Camp Colman uplands as being within potential landslide hazard areas due to the bluff geology and slope (Pierce County PLS, 2018). Coring data showed that water was perched due to the poorly draining glacial till, in which ponded water can often be observed at the surface following periods of heavy rain. Soils mapped near the Whiteman Cove shoreline consist of surface soils from the Kitsap-Indianola complex, at 45- to-70-degree slopes. These soils are listed as a severe erosion hazard. The corresponding geologic unit for these soils is glaciolacustrine deposits. Farther south, soils are sandier and are considered only a moderate erosion hazard (Powell, 2018).

Previous studies have been conducted of bluffs with similar glacial geology along the shores of Lake Michigan, which has incurred dramatic changes in water surface elevations (Krueger, 2019). Higher bluff slope angles were found to result in a greater percentage of the bluff face being unstable, though all bluffs showed spatial and temporal variability in response to mechanisms that triggered erosion events (such as heavy precipitation events; Krueger, 2019). In addition, shallow bluff failures (less than 3 feet in depth) occurred as a series of events instead of as one mass movement (Krueger, 2019). Bluffs comprised of less cohesive sandy bluff sediment exhibited more failures relative to those comprised of till-like units. Pore water pressure and water table elevation also contributed to unstable bluff surfaces (Krueger, 2019).

The pace at which this process of erosion will occur is uncertain. Krueger et al. (2019) found that the average time between water level increase and erosion events was approximately 5 years, resulting in landslide propagation up the bluff face at an average rate of approximately 6 to 14 feet per year (Figure 8). The bluffs within the Cove at Camp Colman are likely to adjust at a significantly slower pace due to the lack of wave energy within the Cove to transport landslide colluvium eastward, which temporarily buffers the toe of the slope from additional erosion. The bluff-derived sediment deposited on the lagoon beach will eventually erode, however, and this cycle of bluff recession will resume, as it does on all coastal slopes. This natural coastal bluff erosion process will persist over time due to additional WSE adjustments associated with sea level rise.

Landslides occur almost every year in the Puget Sound region during the wet season, which typically lasts from October through April. Previous research has documented a known precipitation threshold for when landslides are most likely to occur in the region. Shallow landslides most commonly occur during and following approximately 3 days of very heavy precipitation, longer periods (15 to 32 days) of substantial rainfall or some combination of the two (Scheevel et al. 2017). Coastal bluffs landslide susceptibility is greater when high water events coincide with periods of heavy precipitation. Therefore landslide activity is most likely to occur on the Camp Colman bluffs during heavy rains at Camp Colman over the 5 to 10 years that follow restoration at Whiteman Cove and more gradually in the years that follow that.



**Figure 8. Stages of Bluff Recession from the Toe Up the Bluff Face Resulting from Rise in Water Level from (Krueger, 2019)**

## DATA GAPS & UNCERTAINTIES

There are several data gaps and uncertainties associated with the implications of the Whiteman Cove restoration on the Camp Colman property. Accurate, recent site topographic mapping is critical to both understanding bluff geometry and identifying precise elevations within the buffer where most change is likely to occur – primarily from the beach to the uplands. Understanding the current shape of the bluff profile and its natural angle of repose will aid in the interpretation of how the bluff will respond to the heightened water levels as well as the likely pace of bluff crest recession, which has obvious implications on the safety of Camp Colman buildings and infrastructure. Although very informative, LIDAR data is of coarse resolution and is not optimal in areas where there is very dense forested vegetation.

Additional specifications and model outputs associated with the restoration design are also relevant to forecasting changes that may occur on the Camp Colman properties. Specific design details, such as the restored channel geometry and changes to lagoon bathymetry, will have implications on water surface elevations within the restored lagoon. Currently, it is uncertain whether additional dredging or filling in the lagoon basin will be conducted to recreate historical conditions.

Background bluff recession rates within the lagoon are also uncertain. Background bluff recession rates are long-term erosion rates from the time prior to the closure of the tidal channel and the relatively static water surface elevations within the lagoon. There is no known data on bluff recession rates within the lagoon, though they are likely to be similar to other coastal bluffs in southern Puget Sound with minimal wave exposure, similar upland geology, and similar tidal range. The expected rate of bluff retreat for these conditions would likely range from 0.05 to 0.20 feet per year (CGS, 2018).

Future rates of sea level rise will also contribute to both flooding and erosion hazards at Camp Colman. Although best available science (Miller, et al., 2018) exist for sea level rise projections in the Puget Sound region, there is considerable uncertainty with respect to the timelines in which sea level rise will occur, particularly beyond 2050, when their impacts to bluff stability will be most profound.

## CURRENT CAMP USE

Primary site uses at Camp Colman center around recreation and education in the existing Whiteman Cove saltwater lagoon. This includes swimming and watercraft use of the lagoon by various user groups (child/youth recreation, all-ages outdoor education, organizational retreat groups, etc.). It is anticipated that restored tidal cycles and lower average water levels in Whiteman Cove will reduce the times and areas in which water is accessible for recreation and education activities. A needs assessment describing current uses, anticipated impacts, recommended actions, and opportunities for new program growth and site utilization is included in Appendix A (Oates, 2021).

## AREAS AT RISK DUE TO WHITEMAN COVE RESTORATION

Risks to Camp Colman associated with the restoration were broadly categorized as risks from either flooding or erosion resulting from the restored tidal flow in Whiteman Cove. These risks are both described in the following sections as well as spatially in Figures 9 and 10.

### Areas At Risk of Flooding

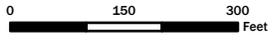
Risk associated with flooding were identified by elevation using the Pierce County LIDAR data (2011), slope data and water surface elevation data. We recommend that these areas be re-evaluated following acquisition of additional, more-current topographic survey data. The risk of flooding will increase over time at Camp Colman, but the most dramatic changes will likely occur within a few years following restoration of tidal flushing and then continually due to additional water level contributed from SLR.

The initial impacts to Whiteman Cove include inundation and potential erosion of the coastal path that extend along the southwest shore of Whiteman Cove, the historical marine science center, and the aquatics program area. Eventually the coastal road will be breached by waves, which could contribute additional erosion of the shoreline (Figure 9).



Figure 9. Areas at Risk of Flooding Following Whiteman Cove Fish Passage Restoration.

- Legend**
- Flood Hazard Areas
  - Roads
  - YMCA Parcels
  - Pierce County Tax Parcels

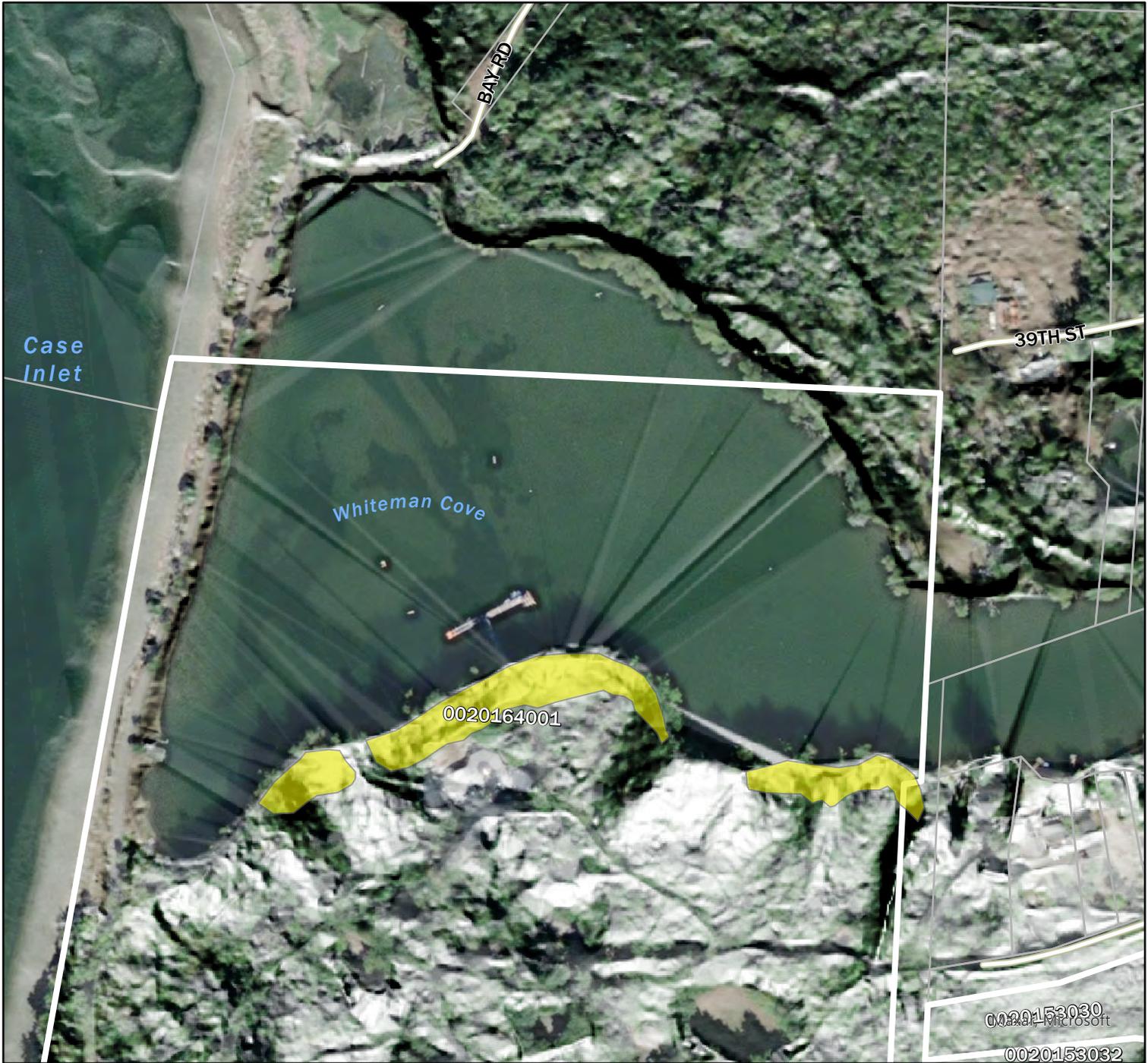
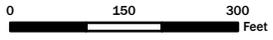


Figure 10. Areas at Risk of Erosion Following Whiteman Cove Fish Passage Restoration.

- Legend**
- Erosion Hazard Areas
  - Roads
  - YMCA Parcels
  - Pierce County Tax Parcels

## Areas at Risk of Erosion

Areas at risk of erosion within Whiteman Cove are shown in Figure 10. These areas of heightened erosion risk will increase over time and were identified by evaluating slope, geology, and site topography. These areas should be re-evaluated if and when updated site topography data is available. Erosion hazard areas are primarily along the south face of the bluffs where the slope gradient is highest, and along some areas of the spit (Figure 10). The most concerning areas at risk of erosion include the locations near cabins, the access stairway and ramp to the aquatics area, and the firepit area, which has a very steep drop-off that will soon be inundated with tidal waters.

## RECOMMENDATIONS

These recommendations are based on mapped risk areas associated with the restoration of Whiteman Cove. Each recommendation considers potential risk to campers in an uncertain, changing environment.

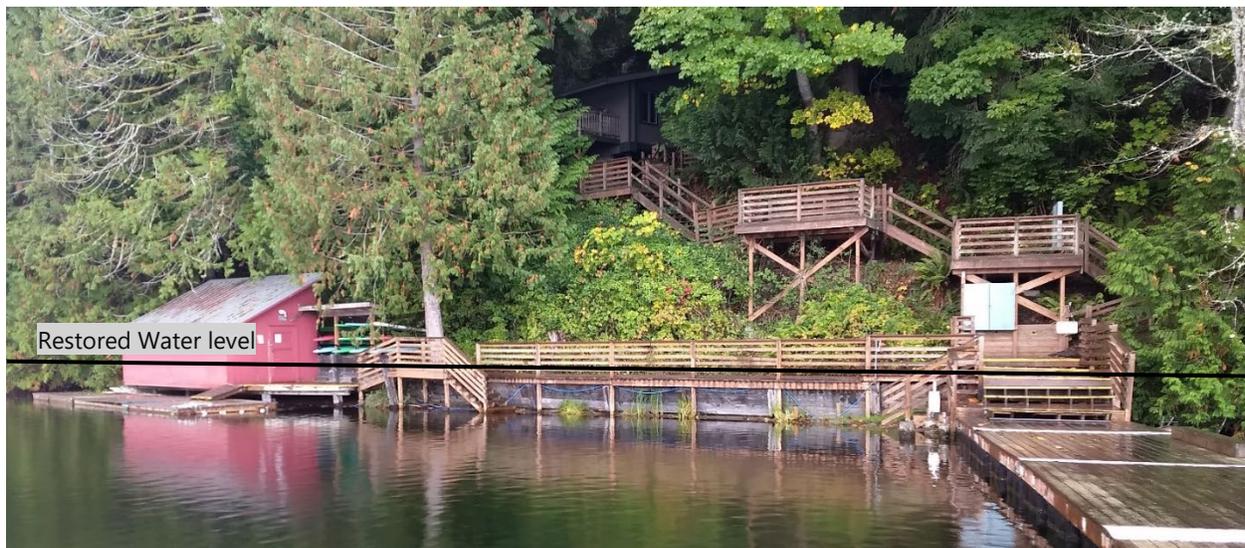
### Modify Existing Dock/Aquatics Program Center

The current cement anchors are insufficient for the restored tidal environment (Figure 11). These anchors should be replaced with piles that will allow the dock and other overwater structures to rise and fall with the tide and be secured in the same position, particularly during storms. The current, fixed attachment of the dock to the shore does not allow for the rise and fall of tides expected after restoration.



**Figure 11. Existing Cement Anchors for Docks in Whiteman Cove.**

A new gangway will be required, secured to a deck or pier elevated above the highest tides to allow for vertical movement of the dock (Figure 12). Part of the existing decking along the access stairs could be repurposed for attaching the gangway. The access stairway to the aquatics program area should be rebuilt with its footings set at a higher elevation, and potentially repositioned to traverse a less steep area, as the bluff face is very steep and vulnerable to future erosion following restoration. The boat house located at the toe of the bluff should also be either relocated or an additional suitable location for storage should be constructed near the shoreline. Alternatively, although likely at a higher cost, a floating storage structure could be incorporated into the dock.



**Figure 12. Gangway, Decking, and Access Stairs Will Need To Be Rebuilt to Accommodate Restored Water Level.**

## Monitor

Having a clear baseline understanding of nearshore conditions prior to and immediately following restoration will be an important element of documenting impacts of the restoration as they occur. Regular monitoring provides useful data that can be used to answer questions about the past and future of site conditions and empowers site managers to make sound decisions. Annual topographic surveys can be used to document surface erosion and document erosion rates over time.

Additional ecological monitoring could be conducted to document the changes and benefits of restoration, including presence of marine species (Figure 11, note crab), birds, fish, marine riparian areas (shoreline vegetation), and large woody debris presence. Some monitoring should be conducted in the field by professionals, but there is considerable opportunity to expand this opportunity to the camper community. An important element of any survey is having regular references points from which to collect photos and other measurements.

## Stormwater Management

The combination of shallow groundwater at the site, documented poor permeability of the underlying geology, and presence of soils that are vulnerable to erosion suggests that improved stormwater management could benefit erosion hazard areas. Water from gutters and parking lots should not be allowed to flow directly down the bluff face but should be captured and dissipated in areas with low slopes and dense upland vegetation or tightlined directly to base of the bluff (Figure 13). Additional data on the existing topography and drainage infrastructure will be required for design of a stormwater management system.



**Figure 13. Rills from stormwater Flowing Down the Uplands to the Bluff Face.**

## Vegetation Management

Enhancing native vegetation cover, particularly in areas at risk of erosion, will help to reduce erosion vulnerability along the bluff shoreline. Conifers should be planted landward of the bluff crest to provide additional water absorption and structure to bluff soils. As older, existing trees are eventually eroded from the bluff, planting these additional trees will ensure that trees are perpetually enhancing the stability of the bluff, particularly along steep shoreline areas. Over time, recruitment of large woody debris (LWD) from lower elevations of the bluff face will occur, with trees falling to the beach and bluff toe. Consider hiring an arborist to actively manage the ways in which trees erode from the bluff.

Non-native English ivy (*Helix hedera*) and Himalayan blackberry (*Rubus armeniacas*) should be removed from trees and surrounding soils where possible. Ivy and blackberry can impair the growth and health of other native shrubs and trees, create a monoculture, and exclude the growth of other plant species that contribute to soil stability. This has already happened in some

areas where invasive species are abundant, particularly along the bluff face waterward of the lodge.

## Relocating Camp Infrastructure

Cabins that are near the bluff crest should be relocated farther landward (Figures 14 and 15). Of primary concern is Henderson and Rotary cabins, which already exhibit signs of soil creep around them (e.g., tree bases bent toward the water). Additional topographic survey of the steep bluffs will help identify a recommended setback distance and potential areas for relocation.

Similarly, the campfire ring and shed should be relocated to a location away from the bluff crest (Figure 15). Examination of the bluff showed obvious signs of instability just below the fence in that location, with roots exposed up to 12 inches from the edge where the bluff has been slowly eroding out from under the trees.



**Figure 14. Henderson and Rotary Cabins in Close Proximity to the Bluff Crest.**



**Figure 15. Close Proximity of Storage Shed to Bluff Crest.**

## Next Steps

This report represents the first deliverable and presents Herrera’s assessment of existing conditions and the potential risks associated with Whiteman Cove Restoration. The next report will focus on providing a conceptual development plan that focuses on adapting to the risks and opportunities associated with restoration of tidal flow within Whiteman Cove. Opportunity areas will be ranked with relevant supporting information compiled on project costs, permitting requirements, and YMCA cultural values. Design concepts, cost estimates, and permitting recommendations will be developed for the highest-ranking opportunities.

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# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

## Description

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

This reappropriation request of \$8.156 million will allow the Department of Natural Resources (DNR) to continue the statewide Wildfire Reforestation work that began after the 2024 session. Healthy and resilient forests across Washington are critical for climate adaptation and mitigation. This funding will provide additional time to address wildfire reforestation efforts on DNR lands and administering a Wildfire Reforestation Grant Program for forest landowners.

### Project Description

**Identify the problem or opportunity addressed. Why is the request a priority?**

#### Wildfire Reforestation on DNR Lands:

The 2024 Legislature appropriated \$7.5 million in the capital budget to DNR specifically for post-wildfire reforestation on state trust lands. DNR staff were able to immediately capitalize on this fund source to implement several shovel-ready projects, however, the scope of remaining reforestation needs requires additional time to expend the remaining funds. This request is for a continuation of this funding, which will allow for continued evaluation, contract development, and implementation of post fire reforestation efforts.

This proposal requests \$6.48 million to reforest up to 10,000 acres of forest following wildfire – the proposal includes \$5.1 million for silvicultural services contracts/seedlings and \$1.4 million for DNR staff to facilitate implementation of the work in total (see Table 1 in "Post-fire Reforestation on DNR Table Sheet" Attachment). Specifically, this proposal requests continued funding from the Natural Climate Solutions Account as the planned work will improve forest health and resiliency in response to climate change (RCW 70A.65.270 [2.b.ii]).

#### Wildfire Reforestation Grants:

Severe fires have had, and are likely to continue to have, major impacts in eastern and western Washington, removing vast areas of forest. As our climate continues to warm, the urgency to re-establish forests before changing conditions make it impossible becomes more pronounced. The lack of natural reforestation following severe wildfires leads to prolonged loss of forest cover, reducing ecosystem resilience and biodiversity. Without intervention, these areas struggle to recover, furthering the negative environmental and economic impacts of wildfires. The need for more reforestation and seed collection infrastructure, a skilled workforce, and an adequate supply of dry conifer seedlings severely hampers post-fire reforestation efforts. Without these critical resources, restoring forest cover and building climate resilience after severe fires becomes a significant challenge. Strategic grant investments can boost the long-term seedling supply and enable timely, practical post-fire reforestation efforts statewide on affected acres.

The 2024 legislature took steps to address this issue with a Capital Appropriation, which included proviso language to inform the development of a Post-Fire Recovery Grant Program. A portion of this funding has been used to set up staffing, and parameters of qualification for the grant program. Followed by launching a Request for Application and direct outreach to landowners, with the intent of awarding over \$2 million in reforestation grants to support restoration on lands in Washington owned by tribes, nonprofit organizations, industrial and nonindustrial private forest landowners, local governments, and other state agencies.

Since the end of the 2024 legislative session, specific action performed to establish and administer the post-fire reforestation grant program include:

- DNR launched a request for proposals in early July 2024 to provide \$2,000,000 of financial assistance through competitive

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

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Date Run: 9/10/2024 3:20PM

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grants to fund post-fire reforestation efforts in Washington on non-DNR state, tribal, local, and privately owned land.

- In July 2024, DNR hired and onboarded staff to establish, administer, and manage this grant program as well as conduct direct outreach to landowners impacted by wildfires.
- DNR is utilizing existing Service Forestry cost-share agreements with an amended version for post-fire reforestation to facilitate direct cost-share grants to small forest landowners.
- DNR will administer a procurement process to identify a qualified vendor pool to provide post-fire reforestation services (i.e., site prep, planting, and site assessments) as a grant of technical assistance to state, local, tribal, and private landowners.
- DNR has contacted over 700 partners across the state and region to apprise them of the grant opportunity.

Awards will be made to grantees in the full amount appropriated to DNR by early fall 2024. Due to several factors, including the timing of the funding relative to the availability of seedlings, the natural production of seed, and the limited availability of planting crews, grantees will be challenged to fully expend their awarded funds by the current deadline of June 30, 2025. Because of limited nursery production, the grantees awarded dollars in 2025 may only be able to procure the appropriate seedlings at the desired quantity for planting in the spring and fall 2026 planting seasons, as seed production is highly variable and occurs in the fall. DNR anticipates funding grants to collect seeds in the fall of 2024, but these seed collection efforts will be limited to one season. Additionally, the limited planters on the state's eastern side, which has more burned acres than the west side, are generally tied to the seedling production schedule and have work programmed years in advance. The attached table (Figure 1. in "Wildfire Reforestation Grants Table Sheet" attachment) lays out the sequence of supply chain steps from reforestation from seed collection to planting to help put the funding timelines in context with the typical reforestation project timeline.

By the end of FY25, grantees will have initiated their awarded reforestation projects and expended a portion of the funding. However, it is anticipated that the full amount will not be utilized by this time, and DNR has estimated the value that may be unspent for re-appropriation. With the approval of this reappropriation, the work will continue until all awarded projects are completed and the funds are fully expended, with successful project completion occurring in the 2025-27 BN.

This request is for the reappropriation of \$1,677,00 for the FY25 Post-Wildfire Reforestation Grant program. Additional time to realize the outcomes of this funding will help ensure our grants are delivered in the most cost-effective manner and allow the communities that need it most (i.e., those underserved or recovering from a recent fire) to have the time to successfully implement the full scope of their awards. Upon approval of this re-appropriation request, DNR will encourage and work with grantees to accomplish their work as quickly as possible to facilitate timely reforestation while also extending the period of performance through June 2027 on all awards made and obligated through active contracts to allow adequate time for successful completion.

### What will the request produce or construct? When will the project start and be completed?

#### Wildfire Reforestation on DNR Lands:

This reappropriation will allow DNR to address this backlog and reforest burned areas that may otherwise regenerate much more slowly, with less resilient species, or may convert to a non-forested condition. Historically, DNR has been limited by available funds to fully reforest all fire-impacted acres.

After fire impacts state lands, DNR staff must evaluate and prioritize acreage for planting of trees. Funding generally goes to higher productivity stands that provide greater near-term gains through salvage harvest and improved seedling survival and growth post-planting. As a result, there is a backlog of potential sites in need of reforestation, many of which are lower productivity and have been identified as being likely difficult to regenerate naturally.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

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For example, recent DNR research shows (Liotta et al 2024\*) that lower elevation dry forest types that are impacted by high severity wildfire are the most unlikely to regenerate naturally. Unfortunately, those forest types are also the most difficult (and often most costly) lands to regenerate through planting because of short spring planting windows (due to intense summer drought), poor planted seedling survival (which requires additional planting efforts), climate influences, and low economic return for salvage. Internal analysis of fires from 2002 to 2021, utilizing findings from the above-mentioned research, indicates there may be currently over 8,000 acres of forested trust lands that are likely not naturally regenerating to acceptable densities after wildfire. Despite the mounting need, DNR was able to reforest nearly 12,000 acres in those same wildfire affected lands using standard funding mechanisms between 2001 and 2021.

DNR has the knowledge, skill, and ability to successfully reforest even in harsh post-fire conditions using proven silvicultural best management practices. This reappropriation will give DNR adequate funding and time to complete this task. \* Angela G. Liotta, Daniel C. Donato, Joshua S. Halofsky, Brian J. Harvey 2024. Patterns and drivers of post-fire tree regeneration across gradients of climate and burn severity in Eastern Washington. University of Washington, School of Environmental and Forest Sciences

### Wildfire Reforestation Grants:

This re-appropriation request seeks to extend the period of performance for grant funded projects that will begin in fall 2024, allowing them adequate time through June 2027 for successful completion. Working with partners funded by this grant, through ongoing granting efforts DNR will support:

- 800 acres planted and 167,000 seedlings, planted summarized in tree planting records documenting species, quantities, and locations.
- Procurement and installation of equipment and supplies purchased for nursery and seed infrastructure upgrades to foster and sustain future seedling supply.
- Three refrigerated storage facilities and one cone and seed processing facility.
- 1 Elle Pot production machine and additional stock type size trays.
- 5-10 refrigerated trailers for maintaining seedling inventory quality during planting.
- Seed collection and infrastructure for cone collection, processing, and storage.
- 10,000 bushels of conifer seed collected on state lands from priority need locations.
- 2 collections using non-tree climbing methods deployed.
- Establishment of a qualified vendor pool to provide post-fire reforestation services

### How would the request address the problem or opportunity? What would be the result of not taking action?

#### Wildfire Reforestation on DNR Lands:

This investment will work towards ensuring that Washington's forests: are resilient to drought, insects, disease, and invasive species; provide clean and cold water to support aquatic species and habitat; sequester more carbon; and support rural economic development including sustainable timber production. This proposal allows for the assessment and reforestation of past wildfire impacts and will allow DNR to react quickly to yearly wildfire impacts with seedling orders and contract development during the critical period just after a wildfire event. It is anticipated this funding will allow reforestation of between 8,000 and 10,000 acres. Specifically, this will allow for the purchase of seedlings, contracts for site preparation (including dead standing tree hazard mitigation), planting contracts, and post-planting vegetation control treatments to ensure seedling survival and growth.

Implementation of the scope of work will include the hiring of farm labor contractors registered with the Washington State Department of Agriculture via a competitive solicitation process. The rest of the funding will be used to fund DNR silviculturists and field foresters to identify site-specific treatment needs, develop prescriptions, and administer contracts.

As wildfire threats continue to increase across both eastern and western Washington, having a fund dedicated to post fire

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

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reforestation will allow DNR to quickly reforest after fire disturbance events. As wildfire frequency and extent increase, traditional funding mechanisms will be insufficient. This request will ensure DNR is able to work towards catching up with the need and be able to leverage internal processes for efficiencies while fulfilling the mission to manage, sustain, and protect the health and productivity of Washington's lands and waters to meet the needs of present and future generations.

The challenge is that due to limited seedling quantities and biological timeframes needed in reforestation (e.g. it takes 1.5 years from the time a seedling is ordered before it can be planted) the original appropriation could not be fully utilized within the 2023-25 biennium. Currently, DNR staff are actively identifying and preparing to order seedlings for the spring 2026 planting season. Not taking action means a percentage of those planned acres would be at risk of not being planted.

### Wildfire Reforestation Grants:

The program aims to not only fund direct reforestation, but also to boost the long-term supply of seedlings necessary for reforestation by investing in strategic grants. Funding will support reforestation initiatives across various land ownerships, including tribal, nonprofit, industrial, nonindustrial private, local, and state-owned lands (excluding DNR owned and managed lands). The funds will help establish and manage a grant program, procure qualified vendors for reforestation services, and amend cost-share agreements for small forest landowners. DNR will continue to develop a robust network of reforestation practitioners, and this program seeks to ensure broad participation and leverage local knowledge and resources.

Without action, prolonged loss of forest cover, reduced ecosystem resilience and biodiversity, increased environmental and economic impacts, and delayed recovery for affected communities would result, hindering efforts to rebuild and develop resilience against future fires. Additionally, a failure to reappropriate these funds could result in incomplete projects, fewer plantings, lower success rates in planted seedling survival rates, and a resulting far inferior impact on the landscape than the intent for the dollars invested.

With additional appropriations, future Post-Wildfire Restoration Grants will benefit from the work completed in 2024 to establish the program so that there is greater efficiency between the date the legislature appropriates the funds to when they can reach grantees for on-the-ground impact.

### What alternatives were explored? Why was the recommended alternative chosen?

#### Wildfire Reforestation on DNR Lands:

N/A

### Wildfire Reforestation Grants:

There is an additional separate capital request for new funds which would keep staff in place to continue this newly established grant program and provide support, the assumption is if funded, this re-appropriation would be entirely for pass-through funds for these grants. The only other alternative to this re-appropriation request will be to terminate all incomplete awarded grants on June 30, 2025 resulting in less positive impact for Washington to recover and reforest from previous wildfires.

### Which clientele would be impacted by the budget request

#### Wildfire Reforestation on DNR Lands:

- Intergovernmental

Governmental organizations who benefit from DNR trust lands management include: Washington State Association of Counties, individual counties, Washington State University, University of Washington, and the Office of Superintendent of Public Instruction. All would support this proposal, since it would improve the future ability of forested state trust lands to produce increased timber and revenue for trust beneficiaries, as well as healthier, more climate-adapted forests that provide economic, social, and ecological benefits for the citizens of Washington.

- Stakeholder

Land conservation organizations – Examples include The Nature Conservancy, Mountains to Sound Greenway, Forterra, Washington Association of Land Trusts, Conservation Northwest, and Washington Environmental Council. Though individual organizations might have differing responses to this proposal, in general they will be supportive, since the proposal only

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

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## Description

includes non-commercial treatments that will improve forest resilience and carbon sequestration.

The American Forest Resource Council will likely support this proposal since it would improve the future ability of forested state trust lands to produce increased timber and revenue for trust beneficiaries and the forest industry in general.

### Wildfire Reforestation Grants:

The budget request would impact tribes, nonprofit organizations, industrial and nonindustrial private forest landowners, local governments, and other state agencies involved in reforestation efforts. Additionally, it would benefit small forest landowners through cost-share agreements and broader community stakeholders engaged in collaborative reforestation projects. The funding would also support forestry businesses, tree planters, and nurseries, promoting economic development and creating job opportunities in these sectors, mostly located in the eastern part of WA state.

### Does this project or program leverage non-state funding? If yes, how much by source

#### Wildfire Reforestation on DNR Lands:

In 23-25, DNR obtained the \$7.5 million CCA post-fire reforestation appropriation described above, and a \$950,000 from United States Forest Service (USFS) grant for post-fire reforestation, though the latter grant was limited to areas burned in 2019-2021 and has been difficult to utilize. DNR has budgeted for standard reforestation and post wildfire reforestation efforts for decades. However, limited funding has historically limited post-fire reforestation efforts on the types of marginal sites associated with this proposal.

#### Wildfire Reforestation Grants:

These funds can act as match to currently pending federal requests for USDA Forest Service Disaster Relief and reforestation funding.

### Describe how this project supports the agency's strategic master plan or would improve agency performance.

#### Wildfire Reforestation on DNR Lands:

##### Governor's Results Washington

Though this proposal aligns well with most of the Results WA goals, it best contributes to Goal 4 – Healthy and Safe Communities, and Goal 5 - Effective, Efficient and Accountable Government. This proposal is about creating sustainable long-term revenue for local economies and state institutions, and about fulfilling DNR's responsibility to manage these assets in trust for the people of Washington.

##### DNR Strategic Plan

This proposal fulfills DNR's strategic priorities to Strengthen the Health and Resilience of Our Lands and Waters (Goal D), and Build Strong and Healthy Communities (Goal B). In particular, it links closely to:

Goal D1 – Lands and waters that can remain productive and adapt to changing conditions, including climate change and a growing population.

- D1.3 – Expand efforts to ensure sustainable food and fiber production
- D1.4 – Expand efforts to use natural systems

Goal D4 – Restored ecosystem health in areas such as water quality, fish and wildlife habitat, and biodiversity.

- D4.2 – Restore and protect high-priority habitats

Goal B1 – A property portfolio that is optimized to grow revenue from public lands for the trust beneficiaries, communities, and Washington State.

- B1.2 – Make new investments;

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

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Date Run: 9/10/2024 3:20PM

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- B1.3 – Increase DNR's ability to maximize its returns; and
- B1.4 – Build internal capacity for growing trust revenues.

### DNR's 2020 Plan for Climate Resilience

This proposal is well-aligned with the agency's climate plan strategies, which include exploring availability and implementing the use of climate resilient seed and species. Other efforts within DNR surrounding evaluation and improvement of the reforestation pipeline will be considered and utilized for this effort. Guidance within the plan will be followed to ensure climate informed reforestation is practiced. Effective reforestation will lead to promoting fully stocked forest conditions that sequester carbon now and into the future.

### DNR's 2020 Forest Action Plan

This proposal supports multiple Forest Action Plan strategies, including:

- Preparing the landscape for the anticipated effects of future drought.
- Restoring the landscape scale structure and pattern of forests to a more resilient state, including accelerating the development and connectedness of patches of mature forests.
- Addressing aquatic restoration needs and ensuring forests continue to provide clean and cold water.
- Supporting rural economic development including sustainable timber production.
- Increase the resistance and resilience of forests to insects and disease, and reducing the impacts of invasive species.

This proposal would provide more sustained Silviculture Program output in terms of acres of non-commercial forest treatments completed on state lands, which is tracked via Performance Measure FR-1989. This reappropriation request would provide sustained, ongoing funding for 8000-10,000 acres of total deliverable acres under FR-1989.

### Wildfire Reforestation Grants:

The 2024 legislature took steps to address the state's reforestation issue with a Capital Appropriation, which included proviso language to inform the development of a Post-Wildfire Recovery Grant Program that aligns with and contributes to the objectives outlined in the Governor's Results Washington goals, DNR Strategic Plan, the state's Forest Action Plan, and 20-Year Forest Health Strategic Plan: Eastern Washington.

### Governor's Results Washington goals:

- Goal 3: Sustainable Energy and Clean Environment: investments in post-fire reforestation directly relate to the Governors air quality objectives and metrics.
- Goal 4: Healthy and Safe Communities: post-fire reforestation has direct positive benefits in restoring forests near communities, thereby reducing the impacts of catastrophic wildfire and subsequent negative environmental impacts. Additionally, the utilization of criteria to inform equity and environmental justice when prioritizing the disbursement and application of implementation funding helps to narrow the health and economic disparity gap in Washington communities.

### 2022-2025 DNR Strategic Plan:

- A 4.6 – Develop methods for assessing the impacts of deliverables and outcomes on equity and environmental justice goals.
- B 2.1 – Partner with tribes, federal, state and local partners to prioritize and implement forest health treatments, such as post-fire reforestation, in landscapes with the highest need and relative risk, in line with the 20-Year Forest Health Strategic Plan: Eastern Washington

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

## Description

- B 2.4 – Collaborate and consult with Tribes to advance mutual priorities including climate resilience, salmon recovery, and renewable energy across the state
- B 4.2 – Support Fire-Adapted Communities and support or expand other programs for risk reduction from natural hazards.
- C 2.2 – Develop and support additional policies as needed to incentivize forest health treatments on non-federal lands and support sustainable forest management that addresses ecological, economic, and social aspects of forest health.
- C 4.1 – Implement the Wildland Fire Protection Strategy with an “all- lands, all-hands” approach to wildfire suppression and management.

### Forest Action Plan

Fulfill climate informed reforestation commitments made in the Memorandum of Understanding Pacific Coast Temperate Forests

20-Year Forest Health Strategic Plan: Eastern Washington

- Goal 1.1 – Prioritize forest health treatments in landscapes with the highest need and relative risk.
- Goal 2.4 – Reduce risk of conversion of forestland to non-forest uses.
- Goal 4.1 – Assess landowner objectives and build the capacity to plan and implement accelerated, cross-boundary management and restoration treatments.

**Does this request include funding for any IT-related cost? If yes, please complete IT addendum at the end of this DP Template.**

**Wildfire Reforestation on DNR Lands:**

No

**Wildfire Reforestation Grants:**

No

**If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

**Wildfire Reforestation on DNR Lands:**

This project is not linked to the PSP Action Agenda, however while most wildfire impacts occur in eastern Washington it is expected some of these funds would be available for wildfire impacts in western Washington. As such the State Trust Lands HCP, which guides forest management on state lands in western Washington, describes conservation strategies that support salmon recovery efforts. Specifically, the Riparian Conservation Strategy in the Olympic Experimental State Forest (OESF), and the Riparian Forest Restoration Strategy (RFRS) used in the other west side DNR planning units, provide guidance for the management of riparian areas to improve watershed protection, instream aquatic habitat for salmonids, and near stream habitat for other species. In the event that funds from this proposal are used for reforestation efforts following wildfire in western Washington, guidance from these conservation-based management plans will be integrated with post-fire reforestation objectives.

**Wildfire Reforestation Grants:**

This proposal is directly aligned with multiple strategies, actions, and key opportunities in the 2022-2026 Puget Sound Partnership Action Agenda by directly funding projects to increase reforestation efforts. This work will result in enhanced climate resilience from carbon storage and other ecosystem services (e.g., nutrient attenuation, water retention) provided by restored forest cover.

The Actions and Key Opportunities directly advanced by this proposal include:

Strategy 5: Increase the number and accelerate the implementation of habitat acquisition and restoration projects as

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

## Description

prioritized in salmon and watershed recovery plans (ID #12).

Strategy 5: Implement habitat protection and restoration projects that restore or maintain natural nutrient attenuation functions and sediment processes in watersheds, estuaries, and tidal wetlands (ID #24).

Strategy 12: Facilitate the increased use or performance of best management practices, including increasing riparian restoration, to reduce stream temperatures (ID #196).

Key opportunity: Increase shade and amount of vegetation.

Strategy 20: Implement multi-benefit projects and programs that synergistically advance Puget Sound recovery goals, reduce greenhouse gas emissions, increase carbon sequestration in Puget Sound ecosystems, increase climate adaptation, and promote climate resilience (ID #137).

Key opportunity: Develop climate-resilient forest management practices (including commercial forestry) and reforestation approaches to reduce risks of drought and wildfire, as well as increase snowpack and low summer streamflow.

**How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

### Wildfire Reforestation on DNR Lands:

This investment will work towards ensuring that Washington's forests: are resilient to drought, insects, disease, and invasive species; provide clean and cold water to support aquatic species and habitat; sequester more carbon; and support rural economic development including sustainable timber production. This proposal will create a vehicle to allow for the assessment and reforestation of past wildfire impacts and will allow DNR to react quickly to yearly wildfire impacts with seedling orders and contract development during the critical period just after a wildfire event. It is anticipated this funding will allow reforestation of between 8,000 and 10,000 acres. Specifically, this will allow for the purchase of seedlings, contracts for site preparation (including dead standing tree hazard mitigation), planting contracts, and post-planting vegetation control treatments to ensure seedling survival and growth.

### Wildfire Reforestation Grants:

N/A

### How is your proposal impacting equity in the state?

#### Wildfire Reforestation on DNR Lands:

This funding package will support the implementation of silvicultural treatments on over 8,000 acres of state managed forest land predominantly in eastern Washington. The treatments will include purchasing and planting tree seedlings, controlling competing vegetation, and hazard mitigation (e.g. clearing dead trees to create a safe workspace for planting crews). This package will serve local and rural communities in the near term by providing jobs and economic benefits. Silvicultural work is labor and worker intensive. This reappropriation will create numerous jobs for contract labor workers, many of whom would be considered economically at risk. Additionally, DNR implements the DES Diversity and Inclusion Guidelines for competitive solicitations – the result is that the vast majority of farm labor contacting firms hired to conduct this work are registered small-, veteran-, and/or minority- owned businesses from Washington State. Over the long-term, these forests will create more jobs in the woods for the workforce of the future in rural communities and will additionally generate increased revenue to support local communities directly.

This proposal broadly impacts equity, because climate change effects the most vulnerable and highly burdened communities quickly and most significantly. Therefore, it is imperative that DNR takes action to mitigate climate change to prevent the worst impacts to these communities. Reforestation is one of the most effective natural climate solutions, and therefore the work that is proposed represents an important contribution to climate change mitigation. Additionally, reforestation comes with

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

## Description

other benefits besides those associated with climate, including air and water quality improvements, local temperature reductions, recreation areas, and contributions to local economies through the wood products industry, particularly in underserved rural communities. Implementing this post wildfire reforestation strategy will result in communities across the full breadth of the state receiving these benefits.

This proposal also can specifically benefit certain communities. Communities that will experience more direct benefit from the implementation of the proposed actions will be those in close relative proximity to reforested areas, and those who are already engaged in the wood products industry (who may see greater economic security due to the increased timber supply). Rural communities, which may be economically disadvantaged, are likely to make up relatively larger portions of the populations receiving direct benefit.

DNR archeological staff regularly consult with Tribal Nations across the state on planned reforestation activities. Feedback from those interactions is always considered to ensure proposed treatments are not negatively impacting Tribal Nations. Post-wildfire reforestation considerations and challenges were recently discussed at the Board of Natural Resources (BNR) retreat in Northeast Region in June 2024. Managers from the Confederated Tribes of the Colville Reservation attended. These Tribal natural resources experts and BNR members agreed on the need to accelerate post-fire reforestation, and all expressed a level of urgency and concern around the challenges faced.

DNR's Silviculture program staff consult with farm labor contractors who perform forestry work in Washington to understand what barriers exist to their ability to compete for state contracts. The majority of these firms are registered small businesses in Washington and are often minority- and/or veteran- owned. Based on their feedback, DNR has modified its contracting practices in several ways to ensure these small business owners have opportunities to compete for and be awarded silviculture contracts. Examples include providing a diverse range of contract sizes and terms. Having some smaller contracts allows smaller businesses to compete; having some longer-term contracts allows small businesses to hire additional staff, since they know they will have sustained work.

Additionally, following implementation of new DES Diversity Requirements for state contracting in spring 2023, the Silviculture program did outreach to reforestation contractors to help them get registered as small- and/or veteran- owned businesses in the Washington Enterprise Business Solution (WEBS) so they could be awarded preferential points during the solicitation evaluation process. Nearly all of the contracting firms the DNR silviculture program hires are registered small- and/or veteran- owned businesses in Washington State.

The jobs created in the short-term and the expected economic benefits in the long-term will be primarily for rural communities, which tend to be more disadvantaged than urban areas (see OFM's OBC map, Figure 4 in attached sheet). As a result, there will be limited direct economic benefits to residents of urban communities. Urban populations will nonetheless benefit indirectly from ecological and recreational opportunities created and sustained by healthier forests on DNR-managed trust lands.

### Wildfire Reforestation Grants:

Integrating evaluations of equity are foundational to post-fire recovery reforestation planning and the applied treatment work for DNR. Specifically, in July of 2023 DNR released the Forest Resilience Division Environmental Justice Implementation Plan – complementing DNR's agency wide strategic action plan – and provides guidance to all programs within DNR, including post-fire reforestation. In addition to this work, the Post-Fire Recovery Program has been utilizing environmental

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

## Description

equity tools and data sources, such as Washington's Environmental Disparity Map, to inform prioritization of priority areas in which to focus implementation dollars. This work, paired with an increased emphasis on tribal and private lands engagement, and equalizing access to resources for private landowners, tribes, municipalities, and state agencies, makes this a unique proposal to leverage state resources in a smart and equitable manner.

Due to the fire dependent nature of eastern Washington's dry forests, the majority of these resources are focused east of the Cascades. However, programmatic improvements are also targeting post-fire reforestation needs in western Washington as well. Helping to restore forests in both wet and dry forests of Washington.

Establishing the needs identified in this plan was a community effort. DNR worked intentionally to bring together forest management practitioners across the state, federal, local, tribal, private and nonprofit sectors with the goal of elevating not just the agency's needs and priorities, but the holistic needs of partners statewide. The proposal is the direct product of input and planning efforts by partners and communities needs that had not originally risen high on the priority list for the agency but are clear bottlenecks and barriers to accelerating the pace and scale of post-fire reforestation, as well as the equitable access to reforestation resources and expertise.

As DNR works with partners to conduct post-fire reforestation projects, more targeted conversations must occur at the community level – ensuring all voices are heard and that social awareness and support for post-fire restoration activities continues to grow. This role – connecting to communities – is a critical responsibility of the proposed planning capacity identified in the decision package.

### Is this project eligible for Direct Pay

#### Wildfire Reforestation on DNR Lands:

No

#### Wildfire Reforestation Grants:

No

### Is there additional information you would like decision makers to know when evaluating this request?

#### Wildfire Reforestation on DNR Lands:

Since the start of the year 2000 till now, over 180,000 acres of forested DNR-managed lands have been impacted to one degree or another by wildfire. Due to variations each year in conditions and fire ignition sources, yearly acreage impacts vary. However, on average over 7,000 acres of DNR-managed lands have been impacted by fire annually since 2000. Not every acre requires reforestation, but every acre does require evaluation for proper silvicultural management going forward. Those evaluations are crucial in determining reforestation need. Up until this point, not every acre that has been evaluated has been replanted due to limited funding. This reappropriation will allow DNR to address this backlog and reforest burned areas that may otherwise regenerate much more slowly, with less resilient species, or may convert to a non-forested condition.

#### Wildfire Reforestation Grants:

This biennium the legislature funded DNR to develop internal expertise and to conduct two assessments: (1) a reforestation needs assessment including spatial analysis to map opportunity areas across the state, and (2) a reforestation pipeline assessment analyzing opportunities and barriers across all stages of the reforestation process. The grant awards made in the Post-Wildfire Reforestation Grant program allow us to build on this investment through partner organizations, agencies, and communities to address reforestation needs in place as well as contribute to Washington's reforestation pipeline.

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

## Description

**If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

### Wildfire Reforestation on DNR Lands:

The Governor's salmon strategy emphasizes the importance of restoring and maintaining healthy aquatic habitats, which are vital for the survival of salmon populations. These goals align with the reforestation efforts outlined in this decision package. By conducting silvicultural treatments such as tree planting of site appropriate species considering climate and seral complex and controlling invasive vegetation on 8,000-10,000 acres of forested lands the Silviculture Program will promote healthy and resilient forests on the landscape into the future. While there will be limited activities funded by this proposal that take place directly in riparian areas, the improved upland forest conditions this proposal would create would enhance landscape level forest health conditions, directly supporting the Governor's goal of creating clean and cold-water environments essential for salmon and other aquatic species.

### Wildfire Reforestation Grants:

The proposal directly implements recommendations of the Statewide Salmon Strategy (SSS):

SSS 1: Protect and restore vital salmon habitat. Seek opportunities to develop programs that support and promote the concepts and practices of ecosystems as natural infrastructure worthy of long-term capital planning and investments. Fully support forest and riparian programs that restore and protect habitat to support healthy, harvestable quantities of fish.  
SSS 4: Build climate resiliency. Increase carbon sequestration by planting trees, preserving forests, restoring estuaries and kelp forests, improving agricultural soil health, and other carbon storage opportunities to absorb existing high levels of carbon in the atmosphere and prevent more carbon.

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

### Wildfire Reforestation on DNR Lands:

N/A

### Wildfire Reforestation Grants:

N/A

**List all FTE including job classification, staff months, and work to be performed by each position for this project.**

### Wildfire Reforestation on DNR Lands:

This proposal requests \$1,124,600 in DNR staff-associated costs to implement the work. This work will be accomplished via services contracts serviced by WSDA-registered Farm Labor Contractors acquired via competitive solicitation process. DNR field staff are needed to conduct field surveys to identify treatment needs, develop prescriptions, and compile/administer contracts to accomplish the work.

Natural Resource Specialist 4 – 0.5 FTE - Incorporate additional post wildfire reforestation efforts into region operations. Prioritize geographies and assist NRS 3 staff.

Natural Resource Specialist 3 – 1.5 FTE - Supervise NRS 2 staff, identify site-specific treatment needs, develop prescriptions, and compile/administer contracts.

Natural Resource Specialist 2 – 3.5 FTE - Identify site-specific treatment needs, develop prescriptions, and administer contracts.

### Wildfire Reforestation Grants:

This re-appropriation request is only for project funding to grantees to extend their period of performance for work. No FTE costs are included.

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

**Description**

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Project Management

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
26D-1	Natural Clim Solu Ac-State	10,000,000		1,844,000	8,156,000	
	<b>Total</b>	<b>10,000,000</b>	<b>0</b>	<b>1,844,000</b>	<b>8,156,000</b>	<b>0</b>
			Future Fiscal Periods			
			2027-29	2029-31	2031-33	2033-35
26D-1	Natural Clim Solu Ac-State					
	<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

**SubProjects**

SubProject Number: 91000329

SubProject Title: Wildfire Reforestation Grants on Private Lands

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

## SubProjects

SubProject Number: 91000329

SubProject Title: Wildfire Reforestation Grants on Private Lands

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

This reappropriation request of \$8.156 million will allow the Department of Natural Resources to continue the statewide Wildfire Reforestation work that began after the 2024 session. Healthy and resilient forests across Washington are critical for climate adaptation and mitigation. This funding will provide additional time to address wildfire reforestation efforts on DNR lands and administering a Wildfire Reforestation Grant Program for forest landowners.

### Project Description

In 2024, the Legislature recognized the growing challenges to reforestation efforts and the need for targeted investments to ensure an adequate supply of seedlings and support for forest landowners to reinforce a timely and successful post wildfire restoration. \$2.5 million was appropriated for FY25 to establish and administer a Post-Wildfire Reforestation Grant Program. To maximize impact in the areas of greatest need, the awarded grants require additional time through re-appropriation of unspent grant funding to allow for work completion. This extended timeframe will accommodate planting work force limitations, seasonal delays including impacts of the 2024 wildfires, and supply issues with seedling stock.

Starting Fiscal Year: 2024

Project Class: Program

Agency Priority: 99

### Project Summary

This reappropriation request of \$8.156 million will allow the Department of Natural Resources to continue the statewide Wildfire Reforestation work that began after the 2024 session. Healthy and resilient forests across Washington are critical for climate adaptation and mitigation. This funding will provide additional time to address wildfire reforestation efforts on DNR lands and administering a Wildfire Reforestation Grant Program for forest landowners.

### Project Description

Healthy and resilient forests across Washington are critical for climate adaptation and mitigation. Each of Department of Natural Resources (DNR) approximately 2.4 million forested acres are at some risk of negative impacts from wildfire, but the severity of impacts is lessened in forests that are healthy, resilient, and planted with site-appropriate species. Resilience begins at the reforestation stage of stand development, with rapid assessment, planning, and strategic planting of seedlings. This request is for \$6.48 million to be reappropriated to address past, current, and future wildfire reforestation needs, consistent with strategies outlined in DNR's Plan for Climate Resilience (See Figure 1 in attached sheet) and Forest Action Plan (See Figure 2 in attached sheet).

### Location

City: Statewide

County: Statewide

Legislative District: 098

City: Statewide

County: Statewide

Legislative District: 098

490 - Department of Natural Resources  
Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:20PM

Project Number: 92000063

Project Title: Wildfire Reforestation Grants

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**SubProjects**

**Project Type**

SubProject Number: 91000329

SubProject Title: Wildfire Reforestation Grants on Private Lands

**Project Type**

Project Management

Project Management

**Growth Management impacts**

n/a

New Facility: No

**Growth Management impacts**

n/a

New Facility: No

**Operating Impacts**

No Operating Impact

No Operating Impact

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### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No – an environmental justice assessment was completed to establish this grant program in June 2024. This request simply proposes to make this established grant program ongoing.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

Investments from this grant program are expected to have environmental benefits to communities impacted annually by wildfires, including overburdened communities and vulnerable populations. Investments will aim to minimize post-wildfire hazards and risks to communities in complement with increasing forest resilience and bring financial and technical assistance resources to help communities in their recovery from the impacts of wildfires. For example, recent and current wildfires are impacting acres on the east slope of the Cascades that rank with an 8 or higher on Washington Department of Health's Environmental Disparities Map. In these cases, wildfire is compounding existing vulnerabilities and risk factors and investments to assist in recovery will be an environmental benefit. Project submissions are asked to include the score of project location according to the Washington Environmental Health Disparities Map and whether the project location is identified disadvantaged according to the Climate and Economic Justice Screening Tool.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

Due to the dynamic nature of where wildfires occur and the severity of their impacts, the program has a goal of making at least 30% of investments to benefit overburdened communities and/or vulnerable populations but with recognition that achieving this goal relies upon factors dependent upon the potential and real applicant pool.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

Indian tribes can directly apply for funding from this grant program to assist in recovery from wildfire on tribally owned lands, or lands within their historical and accustomed territories. Additionally, tribes can partner or inform project proposals submitted by other entities. Projects have the ability to help restore and recover forested landscapes impacted by wildfire, which can include improvements to facilitate traditional practices. One example can be recovery and restoration of traditional gathering or fishing grounds.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

The 2024 Post-Wildfire Reforestation Grant Program was established with guidance from the Forest Health Advisory Committee which includes tribal engagement. If funded, improvements to the grant program's outreach and implementation will be informed through intentional tribal engagement and consultation by Washington Department of Natural Resources through direct outreach by Forest Resilience Division and DNR's Tribal Relations.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

An environmental justice assessment was completed for the establishment of the 2024 Post-Wildfire Reforestation Grant Program, which helped to inform the request for applications, criteria, and considerations before the program was launched. It has informed the review of submitted applications which is underway currently.

1. [Plan for Climate Resilience](https://www.dnr.wa.gov/publications/em_climateresilienceplan_feb2020.pdf)  
([https://www.dnr.wa.gov/publications/em\\_climateresilienceplan\\_feb2020.pdf](https://www.dnr.wa.gov/publications/em_climateresilienceplan_feb2020.pdf))
2. [Forest Action Plan](https://dnr.wa.gov/publications/rp_2020_forest_action_plan.pdf)  
([https://dnr.wa.gov/publications/rp\\_2020\\_forest\\_action\\_plan.pdf](https://dnr.wa.gov/publications/rp_2020_forest_action_plan.pdf))
3. [RCW 70A.65.270 \[2.b.ii\]](https://app.leg.wa.gov/RCW/default.aspx?cite=70A.65.270)  
(<https://app.leg.wa.gov/RCW/default.aspx?cite=70A.65.270>)
4. [OBC map](https://geo.wa.gov/datasets/e0074300efda47efa6b01e6236bcfe48_0/explore?location=46.940559%2C-120.897341%2C7.00)  
([https://geo.wa.gov/datasets/e0074300efda47efa6b01e6236bcfe48\\_0/explore?location=46.940559%2C-120.897341%2C7.00](https://geo.wa.gov/datasets/e0074300efda47efa6b01e6236bcfe48_0/explore?location=46.940559%2C-120.897341%2C7.00))



Table 1.

<b>Investment Category</b>	<b>Acres</b>	<b>\$</b>	
Seedlings and planting contracts	8,000-10,000	\$	2,632,500
Site preparation and vegetation management contracts	8,000-10,000	\$	2,490,000
Staff	-	\$	1,124,600
Rent, Travel, Goods and Services	-	\$	232,300
<b>Total</b>	<b>16,000-20,000</b>	<b>\$</b>	<b>6,479,400</b>

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:06PM

Project Number: 91000099

Project Title: Port of Willapa Harbor Energy Innovation District Grant

## Description

Starting Fiscal Year: 2022

Project Class: Program

Agency Priority: 99

### Project Summary

The Department of Natural Resources (DNR) received \$1.5 million in the 2018 supplemental capital budget for the Port of Willapa Harbor Energy Innovation District Grant. An Energy Innovation District (“EID”) means “two or more entities collaborating to generate or share heat, power, energy products, or waste streams to improve efficiencies, reduce environmental impacts, support innovative technologies, and enhance community prosperity and resilience.”

### Project Description

#### Project Description:

This project fulfills the Legislature’s intent to fund the Port of Willapa Harbor EID.

#### **What will the request produce or construct? When will the project start and be completed?**

This project provides legislatively directed funding for the Port of Willapa Harbor EID.

#### **How would the request address the problem or opportunity? What would be the result of not taking action?**

This request reappropriates funding for the Port of Willapa Harbor EID.

#### **What alternatives were explored? Why was the recommended alternative chosen?**

Do not reappropriate the funding. This alternative was rejected because it is inconsistent with legislative intent.

#### **Which clientele would be impacted by the budget request?**

Port of Willapa Harbor.

#### **Does this project or program leverage non-state funding? If yes, how much by source?**

This reappropriation complements other funding obtained by the Port including a Community Economic Revitalization Board (“CERB”) grant from Department of Commerce.

#### **Describe how this project supports the agency’s strategic master plan or would improve agency performance.**

This request supports DNR’s strategic priority to Invest in Washington’s People, Lands, and Communities.

#### **Does this request include funding for any IT-related cost?**

No.

#### **If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.**

No.

#### **How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean**

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:06PM

Project Number: 91000099

Project Title: Port of Willapa Harbor Energy Innovation District Grant

**Description**

**Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?**

An EID is defined as “two or more entities collaborating to generate or share heat, power, energy products, or waste streams to improve efficiencies, reduce environmental impacts, support innovative technologies, and enhance community.”

**How is your proposal impacting equity in the state?**

This project impacts geographic communities that rely upon Port of Willapa Harbor. This project does not differentially impact demographic communities.

**Is this project eligible for Direct Pay?**

No.

**Is there additional information you would like decision makers to know when evaluating this request?**

No.

**If the project is linked to the Governor’s Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action**

N/A

**Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.**

This project was originally funded in the 2018 Supplemental Budget session (ESSB 6095, Sec 3065). Due to supplier production delays, the Port is encountering acquisition delays for major equipment necessary to the project. DNR will be billed as equipment is received and a reimbursement to the Port.

**Location**

City: Raymond

County: Pacific

Legislative District: 019

**Project Type**

Program (Minor Works)

**Growth Management impacts**

N/A

New Facility: No

**How does this fit in master plan**

N/A

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations

490 - Department of Natural Resources  
 Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:06PM

Project Number: 91000099

Project Title: Port of Willapa Harbor Energy Innovation District Grant

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reapprops	New Approps
057-1	State Bldg Constr-State	1,500,000	100,000		1,400,000	
	<b>Total</b>	<b>1,500,000</b>	<b>100,000</b>	<b>0</b>	<b>1,400,000</b>	<b>0</b>
<b>Future Fiscal Periods</b>						
		<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>	
057-1	State Bldg Constr-State					
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

**Operating Impacts**

No Operating Impact

Narrative

N/A

## **HEAL Act Requirements**

### **(ALL CAPITAL & OPERATING PACKAGES REQUIRE THIS INFORMATION)**

The Healthy Environment for All Act (HEAL Act), Chapter 314, Laws of 2021 (RCW 70A.02) requires that “covered and opt in agencies” must implement the requirements of the act. This includes the:

- Departments of Ecology
- Department of Agriculture
- Department of Commerce
- Department of Health
- Department of Natural Resources
- Department of Transportation
- Puget Sound Partnership
- Office of Attorney General

Under RCW 70A.02.080, beginning on or before July 1, 2023, the identified agencies must, where practicable, take specific actions when making expenditure decisions or developing budget requests to OFM and the Legislature for programs that address or may cause environmental harms or provide environmental benefits. Covered agencies must also consider any guidance developed by the Environmental Justice Council and the Environmental Justice Interagency workgroup under RCW 70A.02.110.

HEAL Act agencies that are considering a significant agency action initiated after July 1, 2023, are required to conduct an environmental justice assessment. RCW 70A.02.010(12) specifies that significant agency actions include:

- The development and adoption of significant legislative rules as defined in RCW 34.05.328.
- The development and adoption of any new grant or loan program that the agency is explicitly authorized or required by statute to implement.
- A capital project, grant, or loan award costing at least \$12,000,000.
- A transportation project, grant, or loan costing at least \$15,000,000.
- The submission of agency request legislation to the Office of the Governor or OFM.
- Any other agency actions deemed significant by a covered agency consistent with RCW 70A.02.060.

To help OFM understand how HEAL Act agency budget requests meet HEAL Act requirements, covered agencies are required to complete additional questions related to the HEAL Act. These questions are shown below and are in addition to the equity related questions required of all agencies. Covered agencies are asked to complete the following questions and submit them through ABS.

## **HEAL Act Questions**

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No.

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW 70A.02.010(12))?

No.

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes.

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

Development of the Port of Willapa Harbor EID may result in energy efficiencies and reduced greenhouse gas emissions.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's OBC map or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

This project is not situated within the boundaries of any overburdened community ("OBC") indicated on OFM's OBC map.

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

N/A

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

N/A

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW 70A.02.010(12), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

# 490 - Department of Natural Resources Capital Project Request

2025-27 Biennium

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Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:47PM

Project Number: 91000323

Project Title: Encumbered Lands - Acquisition

## Description

Starting Fiscal Year: 2026

Project Class: Program

Agency Priority: 99

### Project Summary

The Department of Natural Resources (DNR) requests the reappropriation of \$15 million dollars of Natural Climate Solutions Account funds granted in Section 3034 of ESSB 5949, Chapter 375, Laws of 2024. This funding is intended to purchase working forest lands in Wahkiakum County. Of the land purchased, up to \$5,750,000 can be used to conserve complex, carbon-dense forested trust lands in Capital state forest (Thurston), Green Mountain state forest (Kitsap), Elbe Hills state forest (Pierce) and the Stillaguamish watershed (Snohomish). \$8,750,000 of the funding is to replace existing encumbered state forest lands in Clallam, Pacific, Skamania and Wahkiakum Counties.

### Project Description

*Identify the problem or opportunity addressed. Why is the request a priority?*

This funding works to address several issues. First, the acquisition of forest lands in Wahkiakum County ensures that those lands remain in forest production and continue to contribute to the local economy. Second, this purchase will serve as replacement forest land for land that has been set aside in those rural counties that depend heavily on income from forest production (Clallam, Wahkiakum, Pacific, and Skamania). Lastly, this acquisition will allow DNR to conserve and set aside working forest in Pierce, Thurston, Snohomish and Kitsap counties, that have been identified as being complex, carbon-dense forests.

### What will the request produce or construct? When will the project start and be completed?

This funding will acquire working forest land in Wahkiakum County and identify lands to be conserved in Thurston, Kitsap, Pierce and Snohomish counties.

### How would the request address the problem or opportunity? What would be the result of not taking action?

Purchasing replacement forest lands for those encumbered lands ensures that those rural counties can still generate revenue to support their basic services such as school, libraries and fire districts.

### What alternatives were explored? Why was the recommended alternative chosen?

None

### Which clientele would be impacted by the budget request?

The chief clients are all the impacted counties as they will benefit by having working forests that DNR is able to harvest to support their county services. They are supportive of this proposal as the revenue helps them provide county services and in certain instances, conserve other carbon dense forests.

490 - Department of Natural Resources  
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2025-27 Biennium

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Date Run: 9/10/2024 3:47PM

Project Number: 91000323

Project Title: Encumbered Lands - Acquisition

**Description**

Does this project or program leverage non-state funding? If yes, how much by source?

No

Describe how this project supports the agency's strategic master plan or would improve agency performance.

This project directly supports DNR's Strategic Priority to "Build Strong and Healthy Rural Communities"

Does this request include funding for any IT-related cost?

No

If the project is linked to the Puget Sound Action Agenda, describe the impacts on the Action Agenda, including expenditure and FTE detail.

No

How does this project contribute to meeting the greenhouse gas emissions limits established in RCW 70A.45.050, Clean Buildings performance standards in RCW 19.27A.210, or other statewide goals to reduce carbon pollution and/or improve energy efficiency?

No

How is your proposal impacting equity in the state?

The encumbered forestlands in these counties provide essential ecosystem services in the form of habitat for threatened and endangered species, clean air, clean water, and the storage of atmospheric carbon in forest pools. The economic tradeoffs for these rural communities, which have relatively small tax bases, threaten residents' abilities to live in safe and prosperous conditions.

NEW: Is this project eligible for Direct Pay?

No

490 - Department of Natural Resources  
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**Description**

Is there additional information you would like decision makers to know when evaluating this request?

No

If the project is linked to the Governor's Salmon Strategy provide an explanation of how the budget request relates to a salmon strategy action.

No

Reappropriations: if the project was originally funded prior to the 2021-23 biennium, describe the project and each subproject, including the original appropriation year, status of the project and an explanation why a reappropriation is needed.

N/A

List all FTE including job classification, staff months, and work to be performed by each position for this project. FTE costs should be clearly identified in the Expenditure Worksheets.

None

**Location**

City: Statewide

County: Statewide

Legislative District: 098

**Project Type**

Acquisition - Land

**Growth Management impacts**

N/A

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
26D-1	Natural Clim Solu Ac-State	15,000,000			15,000,000	
	<b>Total</b>	<b>15,000,000</b>	<b>0</b>	<b>0</b>	<b>15,000,000</b>	<b>0</b>

Future Fiscal Periods

490 - Department of Natural Resources  
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**Funding**

	<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
26D-1 Natural Clim Solu Ac-State				
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact

### HEAL Act Questions

If you answer YES to any of the first three questions, please answer the six additional questions and submit them as an attachment through ABS.

1. Is this DP package part of an agency request legislation that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

2. Is this DP package requesting funding to support another significant agency action that is required to complete an environmental justice assessment (RCW [70A.02.010\(12\)](#))?

No

3. Is this DP requesting funding for a program/project/activity that may provide environmental benefits or reduce, mitigate, or eliminate environmental harms, (that is not a significant agency action)? Note: This may include DPs for programs not purposely directed to provide environmental benefits but may have an indirect or unintentional impact.

Yes

**If you answer YES to any of the above questions, please complete these additional questions.**

1. Please describe specific likely or probable environmental harms and/or benefits related to your DP and the associated health impacts to overburdened communities and vulnerable populations.

The encumbered forestlands in these counties provide essential ecosystem services in the form of habitat for threatened and endangered species, clean air, clean water, and the storage of atmospheric carbon in forest pools. The economic tradeoffs for these rural communities, which have relatively small tax bases, threaten residents' abilities to live in safe and prosperous conditions.

2. Please describe the estimated percentage and amount of the requested funds that will go towards creating environmental benefits in overburdened communities and vulnerable populations as defined in OFM's [OBC map](#) or as determined by the agency. If applicable, please include your methodology for making this estimate, including project/award lists if available.

100%

3. Please describe any potential significant impacts to Indian Tribes' rights and interest in their Tribal lands, as well as traditional practices.

This will bring more lands under DNR's management, expanding the amount of land tribes will be able to access for their traditional practices.

4. Describe how your agency engaged with Tribes in developing this proposal, including offers for Tribal consultation including timelines, methods for feedback, and mechanisms

for Tribes to express concern, opposition, or support., and any direction provided by Tribes through this engagement.

This is a reappropriation of a legislatively created proviso.

5. If the DP is part of agency request legislation or supports another significant agency action that is required to complete an environmental justice assessment under RCW [70A.02.010\(12\)](#), please submit the assessment as an attachment in ABS.

N/A

6. If the DP is part of agency request legislation or constitutes a significant agency action that is required to complete an environmental justice assessment, please describe how your agency used the environmental justice assessment process to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits. If your agency determined that you were unable to eliminate, reduce, or mitigate environmental harms and equitably distribute environmental benefits, please provide a justification for not doing so.

N/A

**490 - Department of Natural Resources  
Capital Project Request**

2025-27 Biennium

\*

Version: 27 2025-27 DNR Capital Submittal

Report Number: CBS002

Date Run: 9/10/2024 3:24PM

Project Number: 91000328

Project Title: Fallen Firefighter Memorial (SHB 2091)

**Description**

Starting Fiscal Year: 2024  
 Project Class: Program  
 Agency Priority: 99

**Project Summary**

In the 2024 legislative session, SHB 2091 provided funding to the Department of Natural Resources (DNR) to contract the pre-design of a Fallen Firefighter Memorial to be located on the state capitol campus. DNR will have a request for proposal (RFP) out for the pre-design during 2025, this reappropriation request is for in the event that the RFP process is delayed, and the work needs to roll-over to 2025-27.

**Project Description**

n/a

**Location**

City: Olympia

County: Thurston

Legislative District: 022

**Project Type**

New Facilities/Additions (Major Projects)

**Growth Management impacts**

None.

New Facility: No

**Funding**

Acct Code	Account Title	Estimated Total	Expenditures		2025-27 Fiscal Period	
			Prior Biennium	Current Biennium	Reappropriations	New Appropriations
057-1	State Bldg Constr-State	371,000			371,000	
	<b>Total</b>	<b>371,000</b>	<b>0</b>	<b>0</b>	<b>371,000</b>	<b>0</b>
			<b>Future Fiscal Periods</b>			
			<u>2027-29</u>	<u>2029-31</u>	<u>2031-33</u>	<u>2033-35</u>
057-1	State Bldg Constr-State					
	<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Operating Impacts**

No Operating Impact