

Washington DNR Timber Sales Program

Updated information is being provided for Upper Salmon Creek timber sale documents as follows:

Documents amended:

Brief Description	DATE	Initials
Notice-Updated the minimum bid amount, performance security amount, and the bid deposit amount.	8/21/2023	KK

Washington DNR Timber Sales Program

Updated information is being provided for Upper Salmon Creek timber sale documents as follows:

Documents amended:

Brief Description	DATE	Initials
Notice-Updated the estimates sale volumes.	7/12/2023	KK
<p>Contract- G-011: ... area tags; bounded by timber sale boundary tags, timber type change, and the PT-B-2000 road.....</p> <p>...All timber bounded by right of way boundary tags and timber type change in Units 5 & 6.</p> <p>Approximate acre updated to 188</p> <p>G-310: ...& FS 2850/Woods Rd.</p> <p>P-090: security amount updated to \$100,000.00</p> <p>H-010: Falling and Yarding will not be permitted, from November 1 to March 30 on weekends and State recognized holidays, unless authorized in writing by the Contract Administrator.</p> <p>H-040: ...harvest equipment and or rubber tired skidders.</p> <p>H-140: added to section 3. Two signs per road. One on either end of each road. Six signs in total.</p> <p>Remove item 5.</p> <p>Added item 10.</p> <p>C-060: ... FS-2850/Woods Rd, and all...</p> <p>S-030: Removed clause.</p> <p>Schedule A. Section D: ... leave trees, culverts, and any standing timber;...</p>	7/12/2023	KK



TIMBER NOTICE OF SALE

SALE NAME: UPPER SALMON CREEK

AGREEMENT NO: 30-103770

AUCTION: August 30, 2023 starting at 10:00 a.m.,
Olympic Region Office, Forks, WA

COUNTY: Clallam, Jefferson

SALE LOCATION: Sale located approximately 33 miles east of Port Angeles

**PRODUCTS SOLD
AND SALE AREA:**

All timber, except timber that has been on the ground for five years or more (Five years is defined by more than 1.5 inches of sap rot); any downed red cedar be removed, trees marked with a band of blue paint or bounded out by leave tree area tags; bounded by timber sale boundary tags, timber type change, and the PT-B-2000 road in Unit 1; timber sale boundary tags, timber type change, and the PT-B-2000 and PT-B-2400 roads in Unit 2; timber sale boundary tags and the PT-B-3000 road in Unit 3; timber sale boundary tags in Unit 4.

All timber bounded by right of way boundary tags in Unit 5. Title to timber in Unit 5 does not transfer to purchaser unless road PT-B-2440 is actually constructed.

All timber bounded by right of way boundary tags in Unit 6.

All forest products above located on part(s) of Sections 28, 29 and 31 all in Township 29 North, Range 2 West, W.M., containing 196 acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg DBH	Ring Count	Total MBF	MBF by Grade								
				1P	2P	3P	SM	1S	2S	3S	4S	UT
Douglas fir	19.9	8	4,995				20		3,012	1,575	341	47
Hemlock	15		1,570						596	685	230	59
Redcedar	18.4		157							140	14	
Red alder	16.8		154						55	41	56	3
Maple	22		80						68			12
Sale Total			6,956									

MINIMUM BID: \$2,103,000.00

BID METHOD: Sealed Bids

**PERFORMANCE
SECURITY:**

\$100,000.00

SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2025

ALLOCATION: Export Restricted

BID DEPOSIT: \$210,300.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Ground Based 100%. Forest products harvested under this contract shall be harvested and removed using ground based equipment as shown in the Logging Plan Maps with the following restrictions: shovel only Unit 1; Units 2 and 3 non-tethered equipment will not operate on sustained slopes over 45%; tethered feller bunchers and shovels may operate



TIMBER NOTICE OF SALE

on slopes above 45%. The west end of Unit 3 and all of Unit 4 are designated to shovel only and are restricted from November 1st through March 30th. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State. Falling and Yarding will not be permitted on weekends and State recognized holidays unless authorized in writing by the Contract Administrator.

ROADS:

7.70 stations of required construction. 9.50 stations of required reconstruction. 43.91 stations of optional construction. 2.70 stations of optional reconstruction. 367.80 stations of required prehaul maintenance. 40.25 stations of optional prehaul maintenance. Any road work, right-of-way timber falling and yarding, rock pit operation of heavy equipment on the FS-2850/ Woods Rd. performed during the marbled murrelet nesting season (April 1 through September 23) is restricted to two hours after sunrise to two hours before sunset. This restriction does not apply to hauling timber, rock or equipment. All roadwork activities, including timber haul, rock haul, and rock pit development will not be permitted from November 1 to April 30, or on weekends or State recognized holidays unless authorized in writing by the Contract Administrator.

ACREAGE DETERMINATION

CRUISE METHOD: Sale acreage was 100% GPS'd. Sale units were cruised using a variable plot sample.

FEES:

\$118,252.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS:

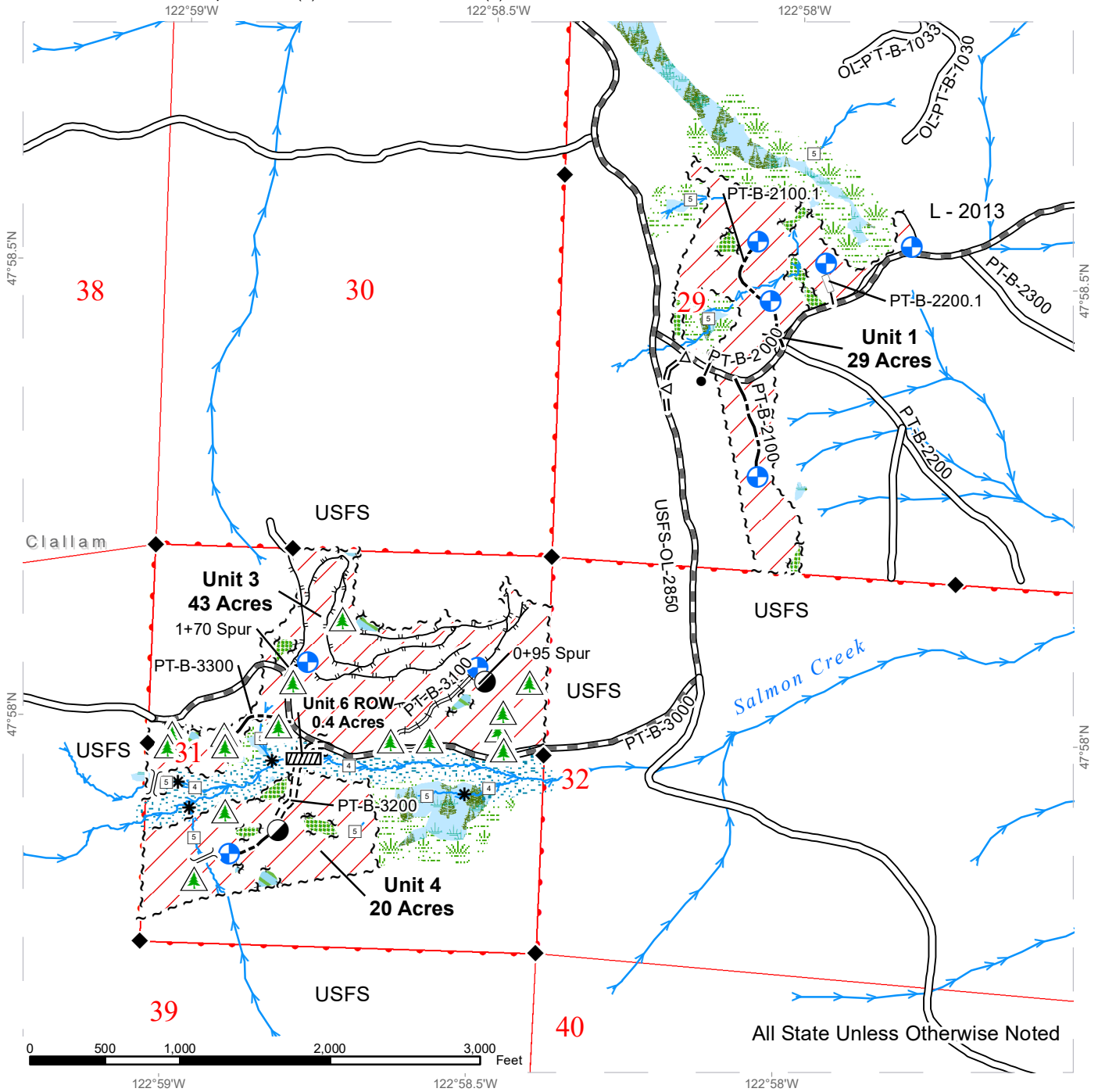
There are locked gates located on the PT-B- 1020 and PT-B- 2000 roads. Contact Olympic Region Dispatch at 360-374-2800 to obtain a AA-1 key.

An area located in Unit 1 of the harvest may have imbedded metal in trees. This area is highlighted on the logging plan map.

TIMBER SALE MAP

SALE NAME: UPPER SALMON CREEK
AGREEMENT #: 30-103770
TOWNSHIP(S): T29R2W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam, Jefferson
ELEVATION RGE: 760-1600



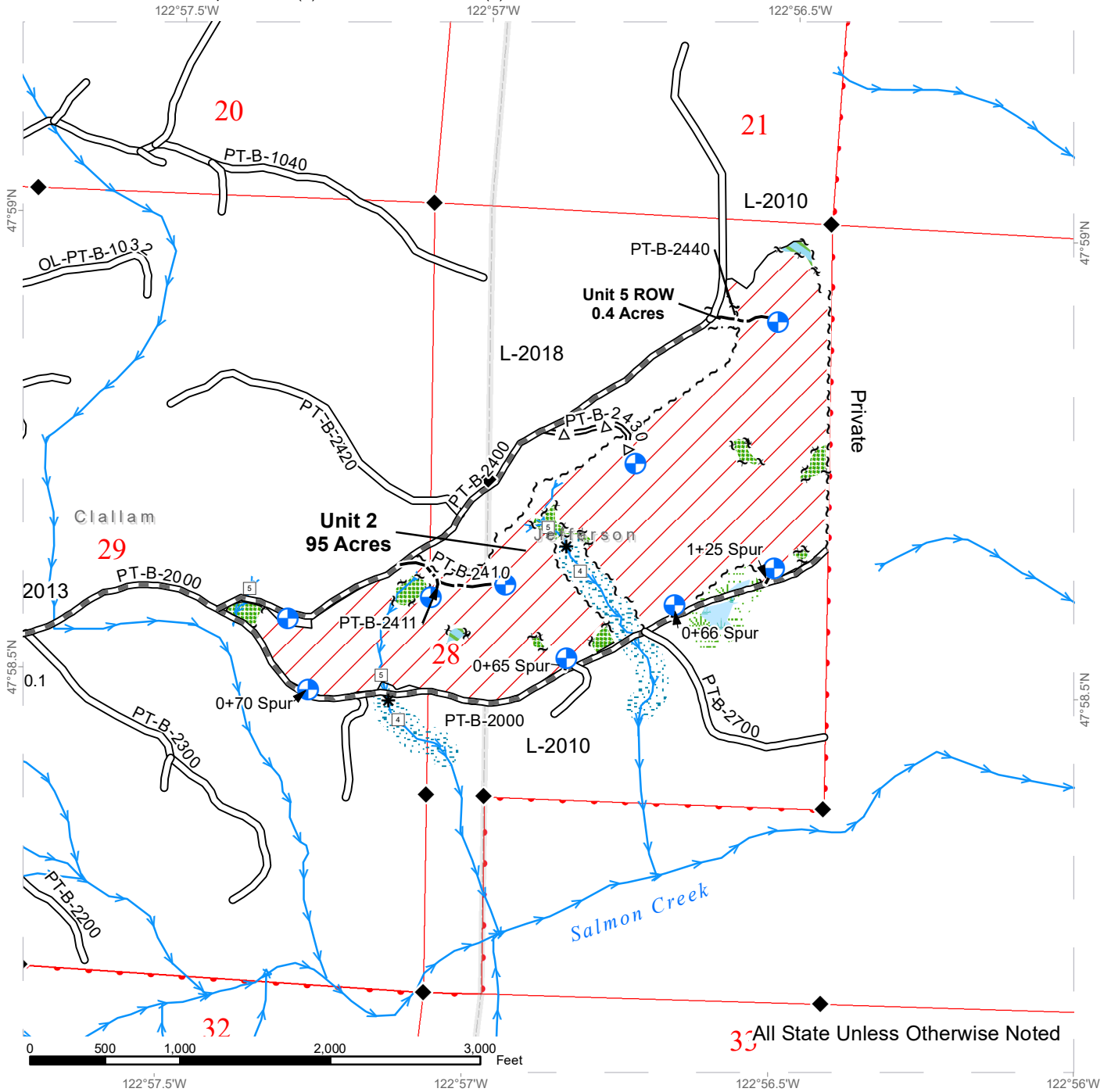
Variable Retention Harvest	Streams	Non-Tradeable Leave Trees	Townships
Existing Roads	Stream Type	Proposed Landing	DNR Managed Lands
Required Pre-Haul Maintenance	Stream Type Break	Non-Tradeable Leave Clump	
Required Construction	Survey Monument	Leave Tree Area	
Required Reconstruction	Culvert	Riparian Mgt Zone	
Optional Pre-Haul Maintenance	Designated Crossing	Forested Wetland	
Optional Construction	Designated Landing	Wetland Mgt Zone	
Optional Reconstruction	Gate (AA1)	Sections	
Designated Skid Trail			



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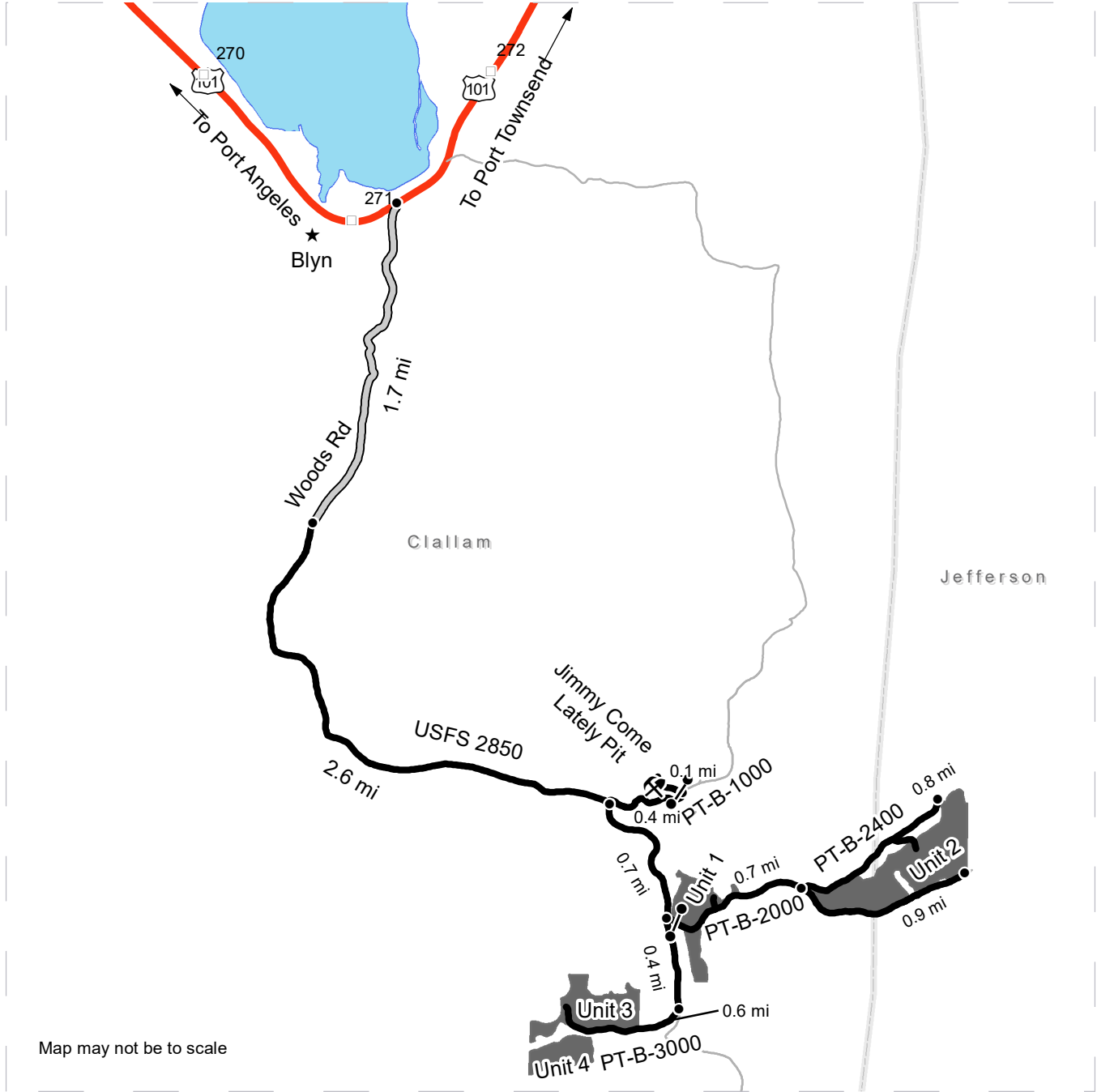
33 All State Unless Otherwise Noted

Variable Retention Harvest	Streams	Wetland Mgt Zone
Existing Roads	Stream Type	Sections
Required Pre-Haul Maintenance	Stream Type Break	Townships
Required Construction	Survey Monument	DNR Managed Lands
Required Reconstruction	Proposed Landing	
Optional Pre-Haul Maintenance	Non-Tradeable Leave Clump	
Optional Construction	Leave Tree Area	
Optional Reconstruction	Riparian Mgt Zone	
Designated Skid Trail	Forested Wetland	

DRIVING MAP

SALE NAME: UPPER SALMON CREEK
AGREEMENT#: 30-103770
TOWNSHIP(S): T29R2W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

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Map may not be to scale

- Timber Sale Unit
- Haul Route
- Other Road
- County Road
- Milepost Markers
- Distance Indicator
- Gate (AA1)
- Rock Pit
- Town

DRIVING DIRECTIONS:

On highway 101 between mile marker 271 and 272 turn south on woods road. Continue down woods road for 1.7 miles onto USFS 2850 (same road). Remain on USFS 2850 for another 2.6 miles. For Jimmy Come Lately Pit turn left onto PT-B-1000 road for 0.4 miles. Then turn left onto PT-B-1020 road. Pit is behind yellow gate.

For sale, continue on USFS 2850 from PT-B-1000 intersection for 0.7 miles to PT-B-2000 road. For Units 1-2 turn left on PT-B-2000 and go through gate. Unit 1 is just after the gate on both sides of the road.

To get to unit 2 drive 0.7 miles along PT-B-2000 road to Y in road. Unit is directly between the Y and can be accessed from above on the PT-B-2400 and below along the PT-B-2000 road.

To access Units 3 and 4 continue along USFS 2850 from the PT-B-2000 intersection for another 0.4 miles. Turn right on the PT-B-3000 road and drive 0.5 miles. Unit 3 is on the right starting at the state property boundary about 0.3 miles up. Unit 4 can be accessed by crossing Salmon Creek from the corner at about 0.5 miles up the road.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

**BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS**

Export Restricted Lump Sum AGREEMENT NO. 30-0103770

SALE NAME: UPPER SALMON CREEK

**THE STATE OF WASHINGTON DEPARTMENT OF NATURAL
RESOURCES, HEREINAFTER ACTING SOLELY, IN ITS PROPRIETARY
CAPACITY, STATE, AND PURCHASER, AGREE AS FOLLOWS:**

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

Bill of Sale and Contract for Forest Products: Contract between the Purchaser and the State, which sets forth the procedures and obligations of the Purchaser in exchange for the right to remove forest products from the sale area. The Bill of Sale and Contract for Forest Products may include a Road Plan for any road construction or reconstruction, where applicable.

Contract Administrator: Region Manager's designee responsible for assuring that the contractual obligations of the Purchaser are met.

Forest Product: Any material derived from the forest for commercial use.

Purchaser: The company or individual that has entered into a Bill of Sale and Contract for Forest Products with the State for the right to harvest and remove forest products from the timber sale area.

Road Construction: Includes building new and maintaining existing forest roads and associated work that may be optional or required as described in the Road Plan.

State: The Washington State Department of Natural Resources, landowner and seller of Forest Products from the timber sale area. The State is represented by the Region Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the Region Manager or the designated Contract Administrator.

Subcontractor: Individual or company employed by the Purchaser to perform a portion or all of the services required by The Bill of Sale and Contract for Forest Products. The Purchaser is responsible for independently negotiating, procuring and paying for all subcontracted services rendered.

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on August 30, 2023 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except timber that has been on the ground for five years or more shall be left undisturbed and not yarded. (Five years is defined by more than 1.5 inches of sap rot); In no instance shall downed red cedar be removed.; trees marked with a band of blue paint or bounded out by leave tree area tags; bounded by timber sale boundary tags, timber type change, and the PT-B-2000 road in Unit 1; timber sale boundary tags, timber type change, and the PT-B-2000 and PT-B-2400 roads in Unit 2; timber sale boundary tags and the PT-B-3000 road in Unit 3; timber sale boundary tags in Unit 4. All timber bounded by right of way boundary tags in Unit5. Title to timber in Unit 5 does not transfer to purchaser unless road PT-B-2440 is actually constructed

All timber bounded by right of way boundary tags in Unit 6.

All forest products above located on approximately 188 acres on part(s) of Sections 28, 29, and 31 all in Township 29 North, Range 2 West W.M. in Clallam, and Jefferson County(s) as designated on the sale area and as shown on the attached timber sale map.

All forest products described above from the bole of the tree that meet or exceed 2 inches diameter inside bark on the small end are eligible for removal. Above ground components of a tree that remain as by-products after the manufacture of logs, including but not limited to tree tops, branches, limbs, needles, leaves, stumps, are eligible for removal under the terms of this contract.

Forest products purchased under a contract that is designated as export restricted shall not be exported until processed. Forest products purchased under a contract that is designated as exportable may be exported prior to processing.

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to

the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
A	Slash Piling Specifications
B	Green Tree Retention Plan
C	Log Fill Detail Sheet

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2025.

G-040 Contract Term Adjustment - No Payment

Purchaser may request an adjustment in the contract term. A claim must be submitted in writing and received by the State within 30 days after the start of interruption or delay. The claim must also indicate the actual or anticipated length of interruption or delay. The State may grant an adjustment without charge only if the cause for contract term adjustment is beyond Purchaser's control. The cause must be one of the following and the adjustment may be granted only if operations or planned operations under this contract are actually interrupted or delayed:

- a. Road and bridge failures which deny access.
- b. Access road closures imposed by road owner.
- c. Excessive suspensions as provided in clause G-220.
- d. Regulatory actions not arising from Purchaser's failure to comply with this contract which will prevent timber harvest for a period less than 6 months.

G-051 Contract Term Extension - Payment

Extensions of this contract term may be granted only if, in the judgment of the State, Purchaser is acting in good faith and is endeavoring to remove the forest products conveyed. The term of this contract may be extended for a reasonable time by the State if all of the following conditions are satisfied:

- a. A written request for extension of the contract term must be received prior to the expiration date of the contract.
- b. Completion of all required roads and compliance with all contract and regulatory requirements.

- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the total contract price.

The payments shall not include the initial deposit which shall be held according to the provisions of RCW 79.15.100.

- d. Payment of an amount based on 12 percent interest per annum on the unpaid portion of the total contract price.

All payments, except the initial deposit, will be deducted from the total contract price to determine the unpaid portion of the contract.

- e. Payment of \$937.00 per acre per annum for the acres on which an operating release has not been issued.
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

Whenever the State determines that a survey for sensitive, threatened, or endangered species is prudent, or when Purchaser determines a survey is prudent and the State agrees, Purchaser shall perform such surveys at Purchaser's expense and to the standards required by the State. The survey information shall be supplied to the State.

G-060 Exclusion of Warranties

The PARTIES AGREE that the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE and ALL OTHER WARRANTIES EXPRESSED OR IMPLIED ARE EXCLUDED from this transaction and shall not apply to the goods sold. For example, THE FOLLOWING SPECIFIC MATTERS ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.

- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-061 Inadvertent Discovery of Cultural Resources

Purchaser acknowledges that cultural resources as defined in WAC 222-16-010 may exist within the timber sale area and that the existence and location of such resources may be unknown at the time this contract is executed. Purchaser has a duty to exercise due care in its operations and in the event any human skeletal remains are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify local law enforcement in the most expeditious manner possible then notifying the Contract Administrator. In the event cultural resources are discovered by the Purchaser or the State during the course of operations Purchaser shall immediately halt operations and notify the Contract Administrator. Any potential resources shall not be removed or disturbed. Purchaser shall resume operations as directed in writing by the Contract Administrator.

G-062 Habitat Conservation Plan

The State has entered into a Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (the Services) to address state trust land management issues relating to compliance with the Federal Endangered Species Act. The activities to be carried out under this contract are located within the State's HCP area and are subject to the terms and conditions of the HCP, and the Services' Incidental Take Permit Nos. TE812521-1 and 1168 (collectively referred to as ITP), or as amended hereafter by the Services. The ITP authorizes the incidental take of certain federally listed threatened and endangered species, as specified in the

ITP conditions. All HCP materials, including the ITP, are available for review at the State's Regional Offices and the administrative headquarters in Olympia, Washington.

By signing this contract, Purchaser agrees to comply with the terms and conditions of the ITP, and the HCP, which shall become terms of this contract. The State agrees to authorize the lawful activities of the Purchaser carried out pursuant to this contract, PROVIDED the Purchaser remains in compliance with the terms and conditions of both the HCP and ITP. The requirements set forth in this contract are intended to comply with the terms and conditions of the HCP and ITP. Accordingly, non-compliance with the terms and conditions of the HCP and ITP will render the authorization provided in this paragraph void, be deemed a breach of the contract and may subject Purchaser to liability for violation of the Endangered Species Act.

Any modifications to the contract shall be proposed in writing by Purchaser, shall continue to meet the terms and conditions of the HCP and ITP, and shall require the prior written approval of the Region Manager before taking effect.

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.
- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.

- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

Purchaser is responsible for obtaining any permits not already obtained by the State that relate to Purchaser's operation. Forest Practice Application / Hydraulic Project Approval permits obtained by the State shall be transferred to Purchaser. Purchaser is responsible for all permits, amendments and renewals.

G-065 Regulatory Disclaimer

The State disclaims any responsibility for, or liability relating to, regulatory actions by any government agency, including actions pursuant to the Forest Practices Act, Ch. 76.09 RCW that may affect the operability of the timber sale.

G-066 Governmental Regulatory Actions

- a. Risk

Purchaser shall be responsible for any increased operational costs arising from any applicable foreign or domestic governmental regulation or order that does not cause contract performance to become commercially impracticable or that does not substantially frustrate the purpose of the contract. If impracticability or frustration results from Purchaser's failure to comply with this contract, Purchaser shall remain responsible for payment of the total contract price notwithstanding the impracticability or frustration.

- b. Sale Area

When portions of the sale area become subject to a foreign or domestic governmental regulation or order that will likely prevent timber harvest for a period that will exceed the expiration date of this contract, and Purchaser has complied with this contract, the following shall apply:

- i. RCW 79.15.140 shall govern all adjustments to the contract area.

- c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall cause the timber sale area subject to governmental regulation or order to be measured. The State shall calculate the percentage of the total sale area subject to the governmental regulation or order. The State shall reduce the total contract price by that calculated percentage. However, variations in

species, value, costs, or other items pertaining to the affected sale area will be analyzed and included in the adjustment if deemed appropriate by the State. The State will further reduce the total contract price by the reasonable cost of unamortized roads Purchaser constructed but was unable to fully use for removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

G-070 Limitation on Damage

In the event of a breach of any provision of this contract by the State, the exclusive remedy available to Purchaser will be limited to a return of the initial deposit, unapplied payments, and credit for unamortized improvements made by Purchaser. The State shall not be liable for any damages, whether direct, incidental or consequential.

G-080 Scope of State Advice

No advice by any agent, employee, or representative of the State regarding the method or manner of performing shall constitute a representation or warranty that said method, manner or result thereof will conform to the contract or be suitable for Purchaser's purposes under the contract. Purchaser's reliance on any State advice regarding the method or manner of performance shall not relieve Purchaser of any risk or obligation under the contract. Purchaser retains the final responsibility for its operations under this contract and State shall not be liable for any injuries resulting from Purchaser's reliance on any State advice regarding the method or manner of performance.

G-091 Sale Area Adjustment

The Parties may agree to adjustments in the sale area boundary. The cumulative changes to the sale area during the term of the contract shall not exceed more than four percent of the original sale area. If the sale area is increased, the added forest products become a part of this contract. The State shall determine the volume added and shall calculate the increase to the total contract price using the rates set forth in clause G-101, G-102, or G-103. If the sale area is reduced, the State shall determine the volume to be reduced. The State shall calculate the reduction to the total contract price using the rates set forth in clause G-101, G-102, or G-103.

G-101 Forest Products Not Designated

Any forest products not designated for removal, which must be removed in the course of operations authorized by the State, shall be approved and designated by the Contract Administrator. Added forest products become a part of this contract and the Scribner log scale volume, as defined by the Northwest Log Rules Advisory Group, shall be determined by the Contract Administrator. Added forest products shall be paid for at the following contract payment rates per Mbf Scribner log scale.

The pricing schedule has not been set for the sale.

G-106 Adding Naturally Damaged Forest Products

Any forest products not designated for removal that are seriously damaged by disease, insects or wind, or that may contribute seriously to the spread of insect or disease damage may be added to this sale by the State's Contract Administrator. Additions must be in unlogged areas of the sale and added volume shall not exceed an amount equal to 10 percent of the original advertised volume. Added forest products become a part of this contract and shall be paid for at the rate set forth in clause G-101, G-102 or G-103.

G-111 Title and Risk of Loss

Title to the forest products under this contract passes to the Purchaser after they are removed from the sale area, if adequate advance payment or payment security has been provided to the State under this contract. Purchaser bears all risk of loss of, or damage to, and has an insurable interest in, the forest products described in this contract from the time the sale is confirmed under RCW 79.15.120. Breach of this contract shall have no effect on this provision.

G-116 Sustainable Forestry Initiative® (SFI) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: PwC-SFIFM-513.

Purchaser shall have at least one person regularly on-site during active operations that have completed training according to the requirements outlined within the SFI® program Standard. Purchaser shall designate in writing the name(s) of the individual(s) who will be on-site and provide proof of their successful completion of an approved training program prior to active operations.

G-120 Responsibility for Work

All work, equipment, and materials necessary to perform this contract shall be the responsibility of Purchaser. Any damage to improvements, except as provided in clause G-121 or unless the State issues an operating release pursuant to clause G-280, shall be repaired promptly to the satisfaction of the State and at Purchaser's expense.

G-121 Exceptions

Exceptions to Purchaser's responsibility in clause G-120 shall be limited exclusively to the following. These exceptions shall not apply where road damage occurs due to Purchaser's failure to take reasonable precautions or to exercise sound forest engineering and construction practices.

The State will bear the cost to repair damages caused by a third party. In all other cases, the Purchaser shall bear responsibility for the costs as described below.

Road is defined as the road bed, including but not limited to its component parts, such as cut and fill slopes, subgrade, ditches, culverts, bridges, and cattle guards.

For the purposes of this clause, damage will be identified by the State and is defined as:

1. Failure of (a) required improvements or roads designated in clause C-050, or (b) required or optional construction completed to the point that authorization to haul has been issued;
2. Caused by a single event from forces beyond the control of Purchaser, its employees, agents, or invitees, including independent contractors; and
3. Includes, but is not limited to natural disasters such as earthquakes, volcanic eruptions, landslides, and floods.

The repair work identified by the State shall be promptly completed by Purchaser at an agreed price. The State may elect to accomplish repairs by means of State-provided resources.

For each event, Purchaser shall be solely responsible for the initial \$5,000 in repairs. For repairs in excess of \$5,000, the parties shall share equally the portion of costs between \$5,000 and \$15,000. The State shall be solely responsible for the portion of the cost of repairs that exceed \$15,000.

Nothing contained in clauses G-120 and G-121 shall be construed as relieving Purchaser of responsibility for, or damage resulting from, Purchaser's operations or negligence, nor shall Purchaser be relieved from full responsibility for making good any defective work or materials. Authorization to haul does not warrant that Purchaser built roads are free from material defect and the State may require additional work, at Purchasers expense regardless of cost, to remedy deficiencies at any time.

G-140 Indemnity

To the fullest extent permitted by law, Purchaser shall indemnify, defend and hold harmless State, agencies of State and all officials, agents and employees of State, from and against all claims arising out of or resulting from the performance of the contract. "Claim" as used in this contract means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable for bodily injury, sickness, disease or death, or injury to or destruction of tangible property including loss of use resulting therefrom. Purchasers' obligations to indemnify, defend, and hold harmless includes any claim by Purchasers' agents, employees, representatives, or any subcontractor or its employees. Purchaser expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Purchasers' or any subcontractors' performance or failure to perform the contract. Purchasers' obligation to indemnify, defend, and hold harmless State shall not be eliminated or reduced by any actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Purchaser waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

G-150 Insurance

Purchaser shall, at its cost and expense, buy and maintain insurance of the types and amounts listed below. Failure to buy and maintain the required insurance may result in a breach and/or termination of the contract at State's option. State may suspend Purchaser operations until required insurance has been secured.

All insurance and surety bonds should be issued by companies admitted to do business within the State of Washington and have a rating of A-, Class VII or better in the most recently published edition of Best's Reports. If an insurer is not admitted, all insurance policies and procedures for issuing the insurance policies must comply with Chapter 48.15 RCW and 284-15 WAC.

The State of Washington, Department of Natural Resources region office of sale origin shall be provided written notice before cancellation or non-renewal of any insurance referred to therein, in accord with the following specifications:

1. Insurers subject to Chapter 48.18 RCW (admitted and regulated by the Insurance Commissioner): The insurer shall give the State 45 days advance notice of cancellation or non-renewal. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.
2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

Before starting work, Purchaser shall furnish State of Washington, Department of Natural Resources with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified in the contract. Insurance coverage shall be obtained by the Purchaser prior to operations commencing and continually maintained in full force until all contract obligations have been satisfied or an operating release has been signed by the State.

Purchaser shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Purchaser's liability or responsibility.

The State of Washington, Department of Natural Resources, its elected and appointed officials, agents and employees shall be named as an additional insured via endorsement on all general liability, excess, umbrella, and property insurance policies.

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Purchaser

waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

By requiring insurance herein, State does not represent that coverage and limits will be adequate to protect Purchaser and such coverage and limits shall not limit Purchaser's liability under the indemnities and reimbursements granted to State in this contract.

The limits of insurance, which may be increased as deemed necessary by State of Washington, Department of Natural Resources, shall not be less than as follows:

Commercial General Liability (CGL) Insurance. Purchaser shall maintain general liability (CGL) insurance, and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000.00 per each occurrence. If such CGL insurance contains aggregate limits, the General Aggregate limit shall be at least twice the "each occurrence" limit. CGL insurance shall have products-completed operations aggregate limit of at least two times the "each occurrence" limit. CGL coverage shall include a Logging and Lumbering Endorsement (i.e. Logger's Broad-Form) to cover the events that include, but are not limited to, fire suppression expenses, accidental timber trespasses, and wildfire property damage with limits of not less than \$2,000,000.00 each occurrence.

CGL insurance shall be written on Insurance Services Office (ISO) occurrence form CG 00 01 (or a substitute form providing equivalent coverage). All insurance shall cover liability arising out of premises, operations, independent contractors, products completed operations, personal injury and advertising injury, and liability assumed under an insured contract (including the tort liability of another party assumed in a business contract), and contain separation of insured (cross liability) condition.

Employer's Liability "Stop Gap" Insurance. Purchaser shall buy employers liability insurance, and, if necessary, commercial umbrella liability insurance with limits not less than \$1,000,000.00 each accident for bodily injury by accident or \$1,000,000.00 each employee for bodily injury by disease.

Workers' Compensation Coverage. Purchaser shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Purchaser and employees of any subcontractor or sub-subcontractor. Coverage shall include bodily injury (including death) by accident or disease, which exists out of or in connection with the performance of this contract. Except as prohibited by law, Purchaser waives all rights of subrogation against State for recovery of damages to the extent they are covered by workers' compensation, employer's liability, commercial general liability, or commercial umbrella liability insurance.

If Purchaser, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Purchaser

shall indemnify State. Indemnity shall include all fines, payment of benefits to Purchaser or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

Business Auto Policy (BAP). Purchaser shall maintain business auto liability and, if necessary, commercial umbrella liability insurance with a limit not less than \$1,000,000.00 per accident. Such insurance shall cover liability arising out of "Any Auto". Business auto coverage shall be written on ISO form CA 00 01, or substitute liability form providing equivalent coverage. If necessary the policy shall be endorsed to provide contractual liability coverage and cover a "covered pollution cost or expense" as provided in the 1990 or later editions of CA 00 01. Purchaser waives all rights against State for the recovery of damages to the extent they are covered by business auto liability or commercial umbrella liability insurance.

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Forks, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive, modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the forest products conveyed beyond the terms of this contract.

Purchaser is required to have a person on site during all operations who is authorized to receive instructions and notices from the State. Purchaser shall inform the State in writing who is authorized to receive instructions and notices from the State, and any limits to this person's authority.

G-170 Assignment and Delegation

No rights or interest in this contract shall be assigned by Purchaser without prior written permission of the State. Any attempted assignment shall be void and ineffective for all purposes unless made in conformity with this paragraph. Purchaser may perform any duty through a delegate, but Purchaser is not thereby relieved of any duty to perform or any liability. Any assignee or delegate shall be bound by the terms of the contract in the same manner as Purchaser.

G-180 Modifications

Waivers, modifications, or amendments of the terms of this contract must be in writing signed by Purchaser and the State.

G-190 Contract Complete

This contract is the final expression of the Parties' agreement. There are no understandings, agreements, or representations, expressed or implied, which are not specified in this contract.

G-200 Notice

Notices required to be given under the following clauses shall be in writing and shall be delivered to Purchaser's authorized agent or sent by certified mail to Purchaser's address of record:

- G-210 Violation of Contract
- G-220 State Suspends Operations

All other notices required to be given under this contract shall be in writing and delivered to the authorized agent or mailed to the Party's post office address. Purchaser agrees to notify the State of any change of address.

G-210 Violation of Contract

- a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend those operations in violation. If the violation is capable of being remedied, Purchaser has 30 days after receipt of a suspension notice to remedy the violation. If the violation cannot be remedied (such as a violation of WAC 240-15-015) or Purchaser fails to remedy the violation within 30 days after receipt of a suspension notice, the State may terminate the rights of Purchaser under this contract and collect damages.
- b. If the contract expires pursuant to clause G-030 or G-031 without Purchaser having performed all its duties under this contract, Purchaser's right to operate is terminated and Purchaser shall not have the right to remedy the breach. This provision shall not relieve Purchaser of any payment obligations.
- c. The State has the right to remedy the breach in the absence of any indicated attempt by Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within 30 days of receipt of billing.
- d. If Purchaser's violation is a result of a failure to make a payment when due, in addition to a. and b. above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due.

G-220 State Suspends Operations

The Contract Administrator may suspend any operation of Purchaser under this contract when the State is suffering, or there is a reasonable expectation the State will suffer environmental, monetary, or other damage if the operation is allowed to continue.

Purchaser shall be in breach of this contract if the operation continues after the suspension notice or if the operation resumes without prior approval and notice from the Contract Administrator.

Purchaser may request a modification of a suspension within 30 days of the start of suspension through the dispute resolution process in clause G-240. If this process results in a finding that the suspension exceeded the time reasonably necessary to stop or prevent damage to the State, Purchaser is entitled to request a contract term adjustment under clause G-040.

If it reasonably appears that the damage that the State is suffering, or can reasonably be expected to suffer if the operation is allowed to continue, will prevent harvest for a period that will exceed 6 months, and Purchaser has complied with this contract, the provisions of clause G-066 shall govern just as if the harvest was prevented by an applicable foreign or domestic governmental regulation or order.

G-230 Unauthorized Activity

Any cutting, removal, or damage of forest products by Purchaser, its employees, agents, or invitees, including independent contractors, in a manner inconsistent with the terms of this contract or State law, is unauthorized. Such activity may subject Purchaser to liability for triple the value of said forest products under RCW 79.02.320 or RCW 79.02.300 and may result in prosecution under RCW 79.02.330 or other applicable statutes.

G-240 Dispute Resolution

The following procedures apply in the event of a dispute regarding interpretation or administration of this contract and the parties agree that these procedures must be followed before a lawsuit can be initiated.

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within ten business days.
- c. Within ten business days of receipt of the Region Manager's decision, Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.
- d. Unless otherwise agreed, a conference will be held by the Deputy Supervisor - Uplands within 30 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor - Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

G-250 Compliance with All Laws

Purchaser shall comply with all applicable statutes, regulations and laws, including, but not limited to; chapter 27.53 RCW, chapter 68.50 RCW, WAC 240-15 and WAC 296-54. Failure to comply may result in forfeiture of this contract.

G-260 Venue

This contract shall be governed by the laws of the State of Washington. In the event of a lawsuit involving this contract, venue shall be proper only in Thurston County Superior Court.

G-270 Equipment Left on State Land

All equipment owned or in the possession of Purchaser, its employees, agents, or invitees, including independent contractors, shall be removed from the sale area and other State land by the termination date of this contract. Equipment remaining unclaimed on State land 60 days after the expiration of the contract period is subject to disposition as provided by law. Purchaser shall pay to the State all costs of moving, storing, and disposing of such equipment. The State shall not be responsible for any damages to or loss of the equipment or damage caused by the moving, storing or disposal of the equipment.

G-280 Operating Release

An operating release is a written document, signed by the State and Purchaser, indicating that Purchaser has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Purchaser and State may agree to an operating release for this sale, or portion of this sale, prior to the contract expiration, when all contract requirements pertaining to the release area have been satisfactorily completed. Upon issuance of a release, Purchaser's right to cut and remove forest products on the released area will terminate.

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; PT-B-1000, PT-B-1000 Tie, PT-B-1020, PT-B-1021, PT-B-2000, PT-B-2000 Wye, PT-B-2100, PT-B-2100.1, PT-B-2200.1, 0+70 Spur, 0+65 Spur, 0+66 Spur, 1+25 Spur, PT-B-2400, PT-B-2410, PT-B-2411, PT-B-2430, PT-B-2440, PT-B-3000 (FS 2840), PT-B-3100, 0+95 Spur, PT-B-3200, PT-B-3300, 1+70 Spur, & FS 2850/Woods Rd. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before beginning any operations. To the extent that the plan of operations is inconsistent with the contract, the terms of the contract shall prevail. State's acceptance and approval of Purchaser's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, re-establish them through a licensed land surveyor in accordance with U.S. General Land

Office standards. Corners and/or witness objects that must be disturbed or destroyed in the process of road construction or logging shall be adequately referenced and/or replaced in accordance with RCW 58.24.040(8). Such references must be approved by the Contract Administrator prior to removal of said corners and/or witness objects.

G-360 Road Use Reservation

The State shall have the right to use, without charge, all existing roads and any road constructed or reconstructed on State lands by Purchaser under this contract. The State may extend such rights to others. If the State grants such rights to others, the State shall require performance or payment, as directed by the State, for their proportionate share of maintenance based on their use.

G-370 Blocking Roads

Purchaser shall not block the PT-B-1000, PT-B-1020, PT-B-3000 (FS 2840), & FS 2850 roads, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

Purchaser agrees to comply with the terms and conditions of the attached:

Easement 55-095556 Forest Service

G-396 Public Hauling Permit

The hauling of forest products, rock or equipment may require a state, county, or city hauling permit. Purchaser is responsible for obtaining any necessary permit and any costs associated with extra maintenance or repair levied by the permitting agency. Purchaser must provide the Contract Administrator with a copy of the executed permit.

G-430 Open Fires

Purchaser shall not set, or allow to be set by Purchaser's employees, agents, invitees and independent contractors, any open fire at any time of the year without first obtaining permission, in writing, from the Contract Administrator.

Section P: Payments and Securities

P-011 Initial Deposit

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in Clause P-020, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$180,856.00. The total contract price consists of a \$0.00 contract bid price plus \$180,856.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066

clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

THE PURCHASE PRICE SHALL NOT BE AFFECTED BY ANY FACTORS, INCLUDING: the amount of forest products actually present within the contract area, the actual acreage covered by the contract area, the amount or volume of forest products actually cut or removed by purchaser, whether it becomes physically impossible or uneconomic to remove the forest products, and whether the subject forest products have been lost or damaged by fire or any other cause. The only situations Purchaser may not be liable for the full purchase price are governed by clause G-066, concerning governmental regulatory actions taken during the term of the contract.

P-045 Guarantee of Payment

Purchaser will pay for forest products prior to cutting or will guarantee payment by posting an approved payment security. The amount of cash or payment security shall be determined by the State and shall equal or exceed the value of the cutting proposed by Purchaser.

P-050 Billing Procedure

The State will compute and forward to Purchaser statements of charges provided for in the contract. Purchaser shall deliver payment to the State on or before the date shown on the billing statement.

P-080 Payment Account Refund

Advance payments made under P-045 or P-045.2 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Refunds not made within the 30 day period will accrue interest at the interest rate, as established by WAC 332-100-030, computed on a daily basis until paid.

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$100,000.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

The State may reduce the performance security after an operating release has been issued if the State determines that adequate security exists for any remaining obligations of Purchaser.

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

No operations shall occur outside the sale boundaries, as described within the contract, unless approved in writing by the State.

H-010 Cutting and Yarding Schedule

Falling and Yarding will not be permitted on weekends and State recognized holidays, unless authorized in writing by the Contract Administrator.

H-013 Reserve Tree Damage Definition

Reserve trees are trees required and designated for retention within the sale boundary. Purchaser shall protect reserve trees from being cut, damaged, or removed during operations.

Reserve tree damage exists when one or more of the following criteria occur as a result of Purchaser's operation, as determined by the Contract Administrator:

- a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.
- b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

If the Contract Administrator determines that a reserve tree has been cut or damaged, the Purchaser shall provide a replacement reserve tree of like condition, size, and species within the sale unit containing the damaged leave tree, as approved by the Contract Administrator. Purchaser may be required to pay liquidated damages for Excessive Reserve Tree Damage as detailed in clause D-041.

Removal of designated reserve trees from the sale area is unauthorized, and may invoke the use of the G-230 'Unauthorized Activity' clause. Purchaser is required to leave all cut or damaged reserve trees on site.

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 12 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other

mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-018 Temporary Stream Crossings

A temporary stream crossing is required to access portions of Units 3 & 4.

Purchaser shall comply with the following during the yarding operation:

- a. Adhere to the approved Hydraulic Permit Application (HPA) or Forest Practice Application (FPA) with approved hydraulic project work, if required, amend a current FPA or obtain a new FPA prior to commencing any new stream crossing construction.
- b. Location of the temporary stream crossing must be approved by the Contract Administrator.
- c. A temporary stream crossing shall not exceed 25 feet in width, including rub trees.
- d. Purchaser shall suspend operations during periods of wet weather when a high potential for sediment delivery into typed waters may occur.
- e. Temporary stream crossings shall be removed at the time of completion of yarding as required by the Contract Administrator.

Purchaser shall not deviate from the requirements set forth in this clause without prior written approval from the Contract Administrator.

H-035 Fall Trees Into Sale Area

Trees shall be felled into the sale area unless otherwise approved by the Contract Administrator.

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for utilizing tethered harvest equipment or rubber tired skidders. The plan shall address the location and timing of desired use, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval by the Contract Administrator.

H-051 Branding and Painting

Purchaser shall provide a State of Washington registered log brand, acceptable to the State, unless the State agrees to furnish the brand. All purchased timber shall be branded in a manner that meets the requirements of WAC 240-15-030(2)(a)(i). All

timber purchased under a contract designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

For pulp loads purchased under a contract designated as export restricted, Purchaser shall brand at least 3 logs with legible brands at one end. Also, 10 logs shall be painted at one end with durable red paint.

H-080 Snags Not to be Felled

Snags not required to be felled for safety reasons may be left standing. Snags felled for safety reasons shall not be removed and must remain where felled.

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using ground based equipment as shown in the Logging Plan Maps with the following restrictions: shovel only Unit 1. Units 2 and 3 non-tethered equipment will not operate on sustained slopes over 45%; tethered feller bunchers and shovels may operate on slopes above 45%. The west end of Unit 3 and all of Unit 4 are designated to shovel only and are restricted from November 1st through March 30th. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities & full suspension is over stream

H-130 Hauling Schedule

The hauling of forest products will not be permitted on weekends and State-recognized holidays or from November 1 to April 30, unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

1. Purchaser shall immediately repair all gate damage resulting from operations to an equal or better condition than existed at the time of the sale.
2. While felling and yarding timber, warning signs must be posted where all roads abut or enter the timber sale units.
3. While hauling rock or timber warning signs and CB must be posted on the PT-B-1000, PT-B-3000 (FS 2840) & FS 2850 (Woods road) road(s). Two signs per road. One on either end of each road. Six signs in total.
4. Designated leave trees are non-exchangeable.
5. All trees 60 inches in Diameter at Breast Height (DBH) and greater shall not be felled, except for safety reasons, as approved by the Contract Administrator. If a tree 60

inches DBH or greater must be felled for safety reasons, it will be left where felled. Removal from the sale area is unauthorized and may invoke the use of clause G-230.

6. Designated skid trails have been identified as shown on the logging plan maps.

7. Purchaser shall perform abandonment on all skid trails and equipment trails. Abandonment shall consist of re-establishing natural drainage and natural slopes, fluffing compacted soil to an 18-inch depth using shovel grapples, placing stumps and debris back into the trail, and installing water bars, as directed by the Contract Administrator. All designated skid trails must be abandoned whether used or not.

8. The Purchaser shall notify all employees and contractors working on this sale that any danger tree, marked or unmarked, may be felled. Any felled marked danger tree shall be replaced with a suitable tree of similar size and species as approved by the Contract Administrator.

9. Designated crossings on streams and wetlands must be approved by the Contract Administrator. Logs shall be placed in the drainage bottom with a shovel prior to use of the crossing. Upon completion of harvest activities, logs must be removed with a shovel, and water bars shall be installed on the tracked area in and out of the crossing.

10. In no instance are Non-Tradable Leave Trees or Non-Tradable Leave Tree Areas to be cut or damaged in any way.

Permission to do otherwise must be granted in writing by the Contract Administrator.

H-142 Wildlife Timing Restrictions

The following wildlife timing restrictions apply to this contract and shall be in place in the locations shown on the attached timber sale map.

Any road work, right-of-way timber falling and yarding, rock pit operation of heavy equipment on the FS-2850/ Woods Rd. performed during the marbled murrelet nesting season (April 1 through September 23) is restricted to two hours after sunrise to two hours before sunset. This restriction does not apply to hauling timber, rock or equipment.

Permission to do otherwise must be granted in writing by the State

H-190 Completion of Settings

Operations begun on any setting of the sale area shall be completed before any operation begins on subsequent settings unless authorized in writing by the Contract Administrator.

H-220 Protection of Residual or Adjacent Trees

Unless otherwise specified by this contract, the Contract Administrator shall identify damaged adjacent or leave trees that shall be paid for according to clause G-230.

H-230 Tops and Limbs Outside the Sale Boundary

Tops and limbs outside the sale boundary as a result of Purchaser's operation shall be removed concurrently with the yarding operation unless otherwise directed by the Contract Administrator.

Section C: Construction and Maintenance**C-040** Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 2/23/2023 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on all roads listed on the Road Plan, authorized in clause G-310, and not listed in clause C-060. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on PT-B-1020, PT-B-1021, FS-2850/Woods Rd, and all other roads not listed in clause C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-100 Landing Location Restricted

Landing locations are restricted to those shown on the timber sale map in Units 3 & 4 unless otherwise authorized in writing by the Contract Administrator.

C-140 Water Bars

Purchaser shall, as directed by the Contract Administrator, construct water bars across haul roads, skid trails and fire trails as necessary to control soil erosion and water pollution.

Section S: Site Preparation and Protection**S-001** Emergency Response Plan

An Emergency Response Plan (ERP) shall be provided to the Contract Administrator containing but not limited to, valid contact numbers and procedures for medical emergencies, fire, hazardous spills, forest practice violations and any unauthorized or unlawful activity on or in the vicinity of the sale area. The Contract Administrator and the State shall be promptly notified whenever an incident occurs requiring an emergency response.

The ERP must be presented for inspection at the prework meeting and kept readily available to all personnel, including subcontractors, on site during active operations.

S-010 Fire Hazardous Conditions

Purchaser acknowledges that operations under this Contract may increase the risk of fire. Purchaser shall conduct all operations under this agreement following the requirements of WAC 332-24-005 and WAC 332-24-405 and further agrees to use the highest degree of care to prevent uncontrolled fires from starting.

In the event of an uncontrolled fire, Purchaser agrees to provide equipment and personnel working at the site to safely and effectively engage in first response fire suppression activity.

Purchaser's failure to effectively engage in fire-safe operations is considered a breach and may result in suspension of operations.

S-040 Noxious Weed Control

Purchaser shall notify the Contract Administrator in advance of moving equipment onto State lands. Purchaser shall thoroughly clean all off road equipment prior to entry onto State land to remove contaminated soils and noxious weed seed. If equipment is moved from one DNR project area to another, the Contract Administrator reserves the right to require the cleaning of equipment. Equipment shall be cleaned at a location approved by the Contract Administrator.

S-050 Cessation of Operations for Low Humidity

When the humidity is 30 percent or lower on the sale area, all operations must cease unless authority to continue is granted by the State in writing.

S-060 Pump Truck or Pump Trailer

Purchaser shall provide a fully functional pump truck or pump trailer equipped to meet the specifications of WAC 332-24-005 and WAC 332-24-405 during the "closed season" or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

S-100 Stream Cleanout

Slash or debris which enters Salmon Creek as a result of operations under this contract and which is identified by the Contract Administrator shall be removed and deposited in a stable position. Removal of slash or debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation.

S-110 Resource Protection

No equipment may operate within leave tree areas or within 30ft of any mapped stream except at designated crossings unless authority is granted in writing by the Contract Administrator.

S-120 Stream Protection

No timber shall be felled into, across, or yarded through any streams.

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

Purchaser is responsible for understanding and complying with all applicable local, state, and federal hazardous material/waste laws and regulations for operations conducted under this contract. Such regulations pertain to, but may not be limited to, hazardous material storage, handling and transport, personnel protection, release notification and emergency response, cleanup, and waste disposal.

Purchaser shall be responsible for restoring the site in the event of a spill or other releases of hazardous material/waste during operations conducted under this contract.

b. Hazardous Materials Spill Prevention

All operations shall be conducted in a manner that avoids the release of hazardous materials, including petroleum products, into the environment (water, air or land).

c. Hazardous Materials Spill Containment, Control and Cleanup

If safe to do so, Purchaser shall take immediate action to contain and control all hazardous material spills. Purchaser shall ensure that enough quick response spill kits capable of absorbing 10 gallons of oil, coolant, solvent or contaminated water are available on site to quickly address potential spills from any piece of equipment at all times throughout active operations. If large quantities of bulk fuel/other hazardous materials are stored on site, Purchaser must be able to effectively control a container leak and contain & recover a hazmat spill equal to the largest single on site storage container volume. (HAZWOPER reg. 29CFR 1910.120 (j) (1) (vii)).

d. Hazardous Material Release Reporting

Releases of oil or hazardous materials to the environment must be reported according to the State Department of Ecology (ECY). It is the responsibility of the Purchaser to have all emergency contact information readily available and a means of remote communication for purposes of quick notification. In the event of a spill covered in part a., the Purchaser is responsible for immediately notifying all the following:

- Department of Emergency Management at 1-800-258-5990
- National Response Center at 1-800-424-8802
- Appropriate Department of Ecology (ECY) at 1-800-645-7911
- DNR Contract Administrator

S-131 Refuse Disposal

As required by RCW 70.93, All Purchaser generated refuse shall be removed from state lands for proper disposal prior to termination of this contract. No refuse shall be burned, buried or abandoned on state forest lands. All refuse shall be transported in a manner such that it is in compliance with RCW 70.93 and all loads or loose materials shall be covered/secured such that these waste materials are properly contained during transport.

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

The following clauses provide for payments by Purchaser to the State for breaches of the terms of this contract other than failure to perform. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State, which will be caused by Purchaser's breach. These liquidated damages provisions are agreed to by the State and Purchaser with the understanding of the difficulty of proving loss and the inconvenience or infeasibility of obtaining an adequate remedy. These liquidated damages provisions provide greater certainty for the Purchaser by allowing the Purchaser to better assess its responsibilities under the contract.

Clause P-020 governs Purchaser's liability in the event Purchaser fails to perform any of the contract requirements other than the below liquidated damage clauses without written approval by the State. Purchaser's failure to pay for all or part of the forest products sold in this contract prior to expiration of the contract term results in substantial injury to the State. Therefore, Purchaser agrees to pay the State the full lump sum contract price in P-020 in the event of failure to perform.

D-041 Reserve Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-013, Reserve Tree Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve tree is not possible, the damaged trees result in substantial injury to the State. The value of the damaged reserve trees at the time of the breach is not readily ascertainable. Therefore, the Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged reserve trees that are not replaced in the sale area.

SIGNATURES

This agreement may be executed in any number of counterparts (including by electronic mail in portable document format (.pdf), or by facsimile) each of which shall be deemed an original but all of which, when taken together, shall constitute one and the same Agreement binding on all parties.

IN WITNESS WHEREOF, the Parties hereto have entered into this contract.

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Mona Griswold
Olympic Region Manager

Print Name

Date: _____

Date: _____

Address: _____

CORPORATE ACKNOWLEDGEMENT
(Required for both LLC and Inc. Entities)

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 20____, before me personally appeared _____

_____ to me known to be the _____ of the corporation that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned, and on oath stated that (he/she was) (they were) authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public in and for the State of

My appointment expires _____

Schedule A
Slash Piling Specifications

All landings, processors, and hazard abatement slash shall be removed from State land or piled by creating circular piles of slash and brush conforming to the following specifications:

- A. Piles shall be a minimum of 12 feet tall by 8 feet wide to a maximum of 30 feet tall and 30 feet wide. Piles shall be cone shaped and stable.
- B. Piles shall be free of topsoil, large rotten logs and large stumps. No material larger than 8 inches in diameter shall be piled. Any unburnable material shall be well scattered.
- C. Piles shall not be placed against standing snags or on large stumps or logs.
- D. Piles shall be stacked a minimum of 50 feet from all unit boundaries, Riparian Management Zones, leave trees, culverts, and any standing timber; a minimum of 100 feet from any public roads and highways; and a minimum of 200 feet from any structures.
- E. Piling shall be completed using an approved hydraulic shovel and grapples.
- F. Slash and displaced soil shall be removed from swales and natural drainage channels concurrent with yarding.
- G. Purchaser may remove slash as biofuel.

Schedule B
Green Tree Retention Plan

Leave the following as directed by the Contract Administrator:

1. All trees marked with a blue band of paint and all leave tree area clumps shall remain standing.

The perimeter of the leave tree clumps are designated by Leave Tree Area tags. The tags face outward from the leave tree clumps.

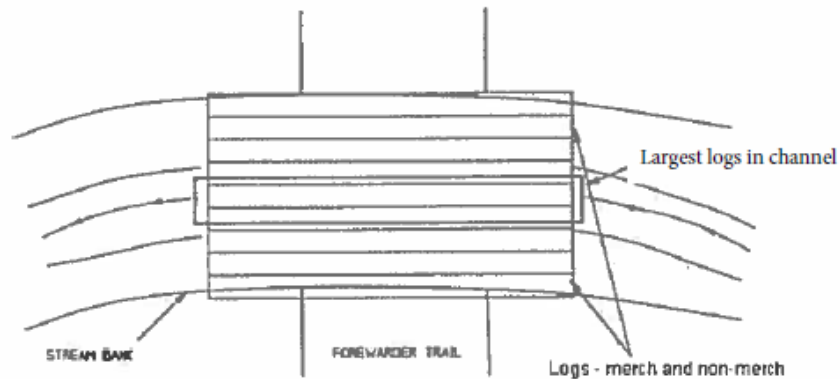
Unit #	# of Individually Marked Trees	# of Clumps	# of Trees Clumped	Total # of Leave Trees
1	66	5	190	256
2	251	10	545	796
3	101	14	269	370
4	7	7	206	213
5 ROW	0	0	0	0
6 ROW	0	0	0	0

2. All trees greater than 60"

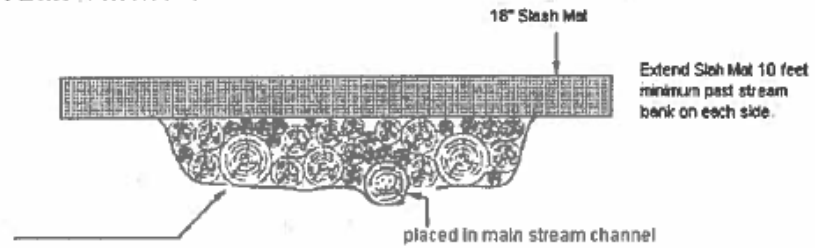
* Note: Any trading of Leave Trees (Reserve Trees) must be pre-approved by the Contract Administrator. Non-tradable Leave Trees are marked by a double band of blue and must not be cut or damaged. Non-tradable leave tree areas are indicated on the sale maps and must not be cut.

Schedule C
Log Fill Detail Sheet

LOG FILL DETAIL SHEET



TEMPORARY FOREWARDER STREAM CROSSING



Log fill detail: 12" - 16" merch logs required in channel up to seasonal high water mark. Non-merch logs permitted above up to stream bank elevation.

Installation and removal shall conform to Forest Practices standards and best management practices.



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

Construction: **linear feet**
Road to be constructed (optional and required) but not abandoned

Reconstruction: **linear feet**
Road to be reconstructed (optional and required) but not abandoned

Abandonment: **linear feet**
Abandonment of existing roads not reconstructed under the contract

Decommission: **linear feet**
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: **linear feet**
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: **linear feet**
Roads to be constructed (optional and required) and then abandoned

Temporary Reconstruction: **linear feet**
Roads to be reconstructed (optional and required) and then abandoned

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829.

(Revised 9/18)

PRE-CRUISE NARRATIVE

Sale Name: Upper Salmon Creek	Region: Olympic
Agreement #: 30-103770	District: Straits
Contact Forester: Britt Davis Phone / Location: 360-301-1327 / Center Work Center	County(s): Jefferson, Clallam
Alternate Contact: Mark Benner Phone / Location: 360-708-1989 Center Work Center	Other information: Click here to enter text.

Type of Sale: Lump Sum	
Harvest System: Ground based All units are ground based with limitations on timing for select units.	100%

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	S29 / T29 N / R2 W	01	32.0		2.3	0.6		29.1	GPS (Garmin)
2	S28 / T29 N / R2 W	01 & 07	99.6		5			94.6	GPS (Garmin)
3	S31 / T29 N / R2 W	07	46.3		1.6	1.6		43.1	GPS (Garmin)
4	S31 / T29 N / R2 W	07	22.2		1.8			20.4	GPS (Garmin)
2 R/W	S28 / T29 N / R2 W	07	0.4					0.2	Combination
4 R/W	S31 / T29 N / R2 W	07	0.4					0.4	Combination
TOTAL ACRES			200.9		10.7	2.2		188	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Variable retention harvest, dispersed leave trees marked with	None	66 Dispersed Leave Trees and 190

	blue paint & clumps marked by leave tree area tags		Clumped in 5 Leave Tree Areas
2	Variable retention harvest, dispersed leave trees marked with blue paint & clumps marked by leave tree area tags	None	251 Dispersed Leave Trees and 545 Clumped in 10 Leave Tree Areas
3	Variable retention harvest, dispersed leave trees marked with blue paint & clumps marked by leave tree area tags	None	101 Dispersed Leave Trees and 269 Clumped in 14 Leave Tree Areas
4	Variable retention harvest, dispersed leave trees marked with blue paint & clumps marked by leave tree area tags	None	7 Dispersed Leave Trees and 206 Clumped in 7 Leave Tree Areas
2 R/W	Clear-cut harvest, take trees marked by right-of-way boundary tags	None	
4 R/W	Clear-cut harvest, take trees marked by right-of-way boundary tags	None	

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary, secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	1 DF, 2 RA / 1410 MBF	Access on PT-B-2000 road. Unit starts just after gate. Parking outside gate or inside gate farther down the PT-B-2000 road.	Traverse maps enclosed
2	1 DF, 2 RC / 3000 MBF	Access through gate on PT-B-2000 road. Unit starts at ¾ mile from gate. Unit can be accessed from the PT-B-2000 along the bottom or the PT-B-2400 at the top.	Traverse maps enclosed
3	1 DF, 2 WH / 1300 MBF	Unit is accessed via the PT-B-3000 road (USFS 2840). Unit is on both sides of the road. Parking is best at the wide curve where the unit crosses the road.	Traverse maps enclosed
4	1 WH, 2 DF / 1030 MBF	Unit is accessed via the PT-B-3000 road (USFS 2840). It is across Salmon creek and is best accessed from the wide corner where unit 3 crosses the road or the trail that starts at the west end of state land along the PT-B-3000 road.	Traverse maps enclosed

2 R/W	1 DF, 2 WH / 11 MBF	R/W is at the east end of the unit off of the PT-B-2400 road. A parking and turn around are just past the end of the unit along said road.	Traverse maps enclosed
4 R/W	1 WH, 2 DF / 16 MBF	R/W starts along the PT-B-3000 road and heads east into the unit. See unit 4 for parking location.	Traverse maps enclosed
TOTAL L MBF	6767 MBF		

REMARKS:

Grants for Units: Unit 1 is 01, Unit 2 is both 01 & 07 (24% 01 & 76% 07), and Units 3 & 4 are 07.

Grant percentages: 01 = 28% and 07 = 72%.

Locks will be switched to AA1 during advertising period.

Prepared By: Britt Davis Date: 1/25/23	Title: State Lands Forester	CC: Mark Benner
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Timber Sale Cruise Report Upper Salmon Creek

Sale Name: UPPER SALMON CREEK

Sale Type: LUMP SUM

Region: OLYMPIC

District: STRAITS

Lead Cruiser: Kevin Peterson

Other Cruisers: Phil Kirner

Cruise Narrative:

Location:

This sale is located in Blyn off of Woods Rd. There are units on the B-2000 and B-3000. Unit 1 and 2 require an AA1 key.

Cruise Design:

For this sale I used a 54.44/40 combo in all units except unit 2, which I used a 62.5/40. 40 BAF was used to pick up RA, RC and MA.

Merch height was determined at 40% of the diameter at 16'. All logs were cruised in 40' lengths except HQ DF @ 34' and RC @ 36'.

Timber Quality:

This sale comprised of 70% Douglas-fir; 20% of which is high quality. There is also a good WH component which is mostly in unit 4. Throughout the sale there is scattered RA and RC.

Common defects on the sale are butt rot, sweep, forked tops and spike knots.

Logging and Stand Conditions:

This sale is 100% ground based harvest and isn't too bad to walk through. The upper slope of unit 2 and unit 3 have some blowdown, making travel a bit difficult.

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade					
				All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	19.9	8.0		4,995	20	3,012	1,575	341	47
WH	15.0			1,570		596	685	230	59
RC	18.4			157			140	14	
RA	16.8			154		55	41	56	3
MA	22.0			80		68			12
ALL	17.2	8.0		6,957	20	3,731	2,441	642	121

Timber Sale Notice Weight (tons)

Sp	Tons by Grade					
	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	40,086	149	22,638	14,103	2,889	307

Sp	Tons by Grade					
	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
WH	15,011		5,322	6,836	2,311	542
RC	1,525			1,364	151	
RA	1,416		485	300	611	21
MA	792		642			150
ALL	58,829	149	29,087	22,602	5,961	1,019

Timber Sale Overall Cruise Statistics (Cut + Leave Trees)

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
274.4	3.8	134.4	2.1	36,998	4.2

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
UPPER SALMON CREEK U1	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	19.5	21.4	10	9	0
UPPER SALMON CREEK U1	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	9.6	10.7	6	5	0
UPPER SALMON CREEK U2	B2C: VR, 2 BAF (62.5, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	94.6	99.6	47	21	0
UPPER SALMON CREEK U3	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	43.1	46.3	22	11	0
UPPER SALMON CREEK U4	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	20.4	22.2	11	5	0
2 R/W	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	0.4		1	1	0
4 R/W	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	0.4		1	1	0
All		188.0	200.0	98	53	0

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	15.7	40	12,324	11,559	6.2	16,189.0	2,173.1
DF	LIVE	2 SAW	HQ-B	14.7	34	4,698	4,462	5.0	6,449.0	838.9
DF	LIVE	3 SAW	Domestic	8.6	40	7,849	7,673	2.2	13,054.6	1,442.5
DF	LIVE	3 SAW	HQ-B	10.9	34	733	705	3.9	1,048.3	132.5
DF	LIVE	4 SAW	Domestic	5.8	24	1,832	1,816	0.9	2,889.0	341.5
DF	LIVE	SPECIAL MILL	HQ-A	16.7	34	106	106	0.0	148.5	19.9
DF	LIVE	UTILITY	Pulp	5.1	24	249	249	0.0	307.3	46.7
MA	LIVE	2 SAW	Domestic	13.9	40	393	363	7.6	642.4	68.2
MA	LIVE	UTILITY	Pulp	7.0	28	65	65	0.0	149.5	12.2
RA	LIVE	2 SAW	Domestic	13.5	26	326	292	10.6	484.7	54.8
RA	LIVE	3 SAW	Domestic	10.8	33	228	216	5.6	299.8	40.6
RA	LIVE	4 SAW	Domestic	7.1	34	337	299	11.4	610.6	56.2
RA	LIVE	UTILITY	Pulp	7.0	20	14	14	0.0	20.6	2.7
RC	LIVE	3 SAW	Domestic	9.6	35	839	747	11.0	1,363.6	140.4
RC	LIVE	4 SAW	Domestic	5.7	18	80	76	4.8	151.0	14.2
RC	LIVE	UKN	Domestic	5.0	8	5	5	0.0	5.2	1.0
WH	LIVE	2 SAW	Domestic	13.6	40	3,297	3,170	3.8	5,322.1	596.0
WH	LIVE	3 SAW	Domestic	8.9	40	3,708	3,646	1.7	6,835.8	685.5
WH	LIVE	4 SAW	Domestic	5.3	29	1,233	1,222	0.9	2,310.6	229.7
WH	LIVE	UTILITY	Pulp	5.1	22	314	314	0.0	542.0	59.1

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Pulp	5.1	24	249	0.0	307.3	46.7
DF	5 - 8	LIVE	Domestic	6.6	31	5,010	1.8	9,047.2	941.9
DF	9 - 11	LIVE	Domestic	10.4	39	4,230	2.2	6,535.8	795.3
DF	9 - 11	LIVE	HQ-B	10.8	34	705	3.9	1,048.3	132.5
DF	12 - 14	LIVE	Domestic	13.4	40	3,519	2.8	5,356.2	661.5
DF	12 - 14	LIVE	HQ-B	13.5	34	2,318	3.5	3,541.3	435.8
DF	15 - 19	LIVE	HQ-B	16.6	34	1,975	7.2	2,725.0	371.3
DF	15 - 19	LIVE	HQ-A	16.7	34	106	0.0	148.5	19.9
DF	15 - 19	LIVE	Domestic	16.9	40	6,086	6.4	8,296.9	1,144.1
DF	20+	LIVE	Domestic	22.0	40	2,203	10.3	2,896.4	414.3
DF	20+	LIVE	HQ-B	25.7	34	169	0.0	182.7	31.8
MA	5 - 8	LIVE	Pulp	7.0	28	65	0.0	149.5	12.2
MA	12 - 14	LIVE	Domestic	13.9	40	363	7.6	642.4	68.2

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
RA	5 - 8	LIVE	Domestic	6.5	36	242	9.9	498.3	45.5
RA	5 - 8	LIVE	Pulp	7.0	20	14	0.0	20.6	2.7
RA	9 - 11	LIVE	Domestic	10.6	34	272	8.3	412.1	51.2
RA	12 - 14	LIVE	Domestic	13.1	31	257	11.9	447.1	48.3
RA	15 - 19	LIVE	Domestic	15.0	20	35	0.0	37.6	6.6
RC	5 - 8	LIVE	Domestic	6.2	26	255	2.8	478.0	47.9
RC	9 - 11	LIVE	Domestic	10.5	35	309	7.5	585.4	58.1
RC	12 - 14	LIVE	Domestic	13.1	36	143	17.9	266.8	27.0
RC	15 - 19	LIVE	Domestic	15.6	36	72	18.7	119.1	13.6
RC	20+	LIVE	Domestic	25.4	36	48	25.0	70.6	9.1
WH	5 - 8	LIVE	Pulp	5.2	24	314	0.0	542.0	59.1
WH	5 - 8	LIVE	Domestic	6.1	32	2,664	1.0	5,221.3	500.9
WH	9 - 11	LIVE	Domestic	10.1	40	2,204	2.1	3,925.1	414.3
WH	12 - 14	LIVE	Domestic	13.2	40	2,409	4.0	4,199.5	453.0
WH	15 - 19	LIVE	Domestic	16.2	40	761	3.4	1,122.6	143.0

Cruise Unit Report UPPER SALMON CREEK U1

Unit Sale Notice Volume (MBF): UPPER SALMON CREEK U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	29.4			558	497	54	7	
WH	14.9			171	61	83	14	14
RA	16.8			116	38	41	35	3
ALL	19.8			845	596	177	55	16

Unit Cruise Design: UPPER SALMON CREEK U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	19.5	21.4	10	9	0

Unit Cruise Summary: UPPER SALMON CREEK U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	23	26	2.6	0
WH	12	14	1.4	0
RA	12	12	1.2	0
ALL	47	52	5.2	0

Unit Cruise Statistics (Cut + Leave Trees): UPPER SALMON CREEK U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	141.5	77.3	24.5	202.0	18.3	3.8	28,599	79.5	24.8
WH	76.2	90.4	28.6	114.9	49.0	14.1	8,760	102.8	31.9
RA	48.0	161.0	50.9	124.0	17.7	5.1	5,954	162.0	51.2
ALL	265.8	44.9	14.2	163.0	35.1	5.1	43,313	57.0	15.1

Unit Summary: UPPER SALMON CREEK U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	23	ALL	29.4	114	146	30,808	28,599	7.2	30.0	141.5	26.1	557.7
RA	LIVE	CUT	12	ALL	16.8	82	102	6,579	5,954	9.5	31.2	48.0	11.7	116.1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	12	ALL	14.9	59	72	9,009	8,760	2.8	62.9	76.2	19.7	170.8
ALL	LIVE	CUT	47	ALL	19.8	78	97	46,395	43,313	6.6	124.1	265.8	57.6	844.6
ALL	ALL	ALL	47	ALL	19.8	78	97	46,395	43,313	6.6	124.1	265.8	57.6	844.6

Cruise Unit Report UPPER SALMON CREEK U1

Unit Sale Notice Volume (MBF): UPPER SALMON CREEK U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	26.4			441	367	68	7	
WH	13.6			70	35	21	5	10
RC	14.0			2			2	
ALL	20.3			513	402	89	13	10

Unit Cruise Design: UPPER SALMON CREEK U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	9.6	10.7	6	5	0

Unit Cruise Summary: UPPER SALMON CREEK U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	20	24	4.0	0
WH	6	7	1.2	0
RC	1	1	0.2	0
ALL	27	32	5.3	0

Unit Cruise Statistics (Cut + Leave Trees): UPPER SALMON CREEK U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	217.8	15.8	6.5	210.9	15.8	3.5	45,934	22.4	7.4
WH	63.5	35.0	14.3	115.1	50.6	20.7	7,311	61.5	25.1
RC	6.7	244.9	100.0	23.4	0.0	0.0	156	244.9	100.0
ALL	287.9	13.4	5.5	185.5	34.6	6.7	53,401	37.1	8.6

Unit Summary: UPPER SALMON CREEK U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	20	ALL	26.4	117	150	48,299	45,934	4.9	57.3	217.8	42.4	441.0
RC	LIVE	CUT	1	ALL	14.0	40	48	231	156	32.4	6.2	6.7	1.8	1.5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	6	ALL	13.6	49	60	7,311	7,311	0.0	63.0	63.5	17.2	70.2
ALL	LIVE	CUT	27	ALL	20.4	79	100	55,840	53,401	4.4	126.5	287.9	61.4	512.6
ALL	ALL	ALL	27	ALL	20.4	79	100	55,840	53,401	4.4	126.5	287.9	61.4	512.6

Cruise Unit Report UPPER SALMON CREEK U2

Unit Sale Notice Volume (MBF): UPPER SALMON CREEK U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	16.9	8.0		2,895	1,573	1,023	251	47
WH	11.0			134		67	31	36
RC	18.3			87		82	4	
MA	22.0			80	68			12
RA	18.8			22	16		6	
ALL	16.3	8.0		3,219	1,658	1,172	292	95

Unit Cruise Design: UPPER SALMON CREEK U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (62.5, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	94.6	99.6	47	21	0

Unit Cruise Summary: UPPER SALMON CREEK U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	70	177	3.8	1
WH	6	13	0.3	0
RC	11	14	0.3	0
MA	2	10	0.2	0
RA	3	3	0.1	0
ALL	92	217	4.6	1

Unit Cruise Statistics (Cut + Leave Trees): UPPER SALMON CREEK U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	235.4	54.3	7.9	130.0	29.5	3.5	30,597	61.8	8.7
WH	17.3	209.2	30.5	82.2	35.4	14.5	1,421	212.2	33.8
RC	11.9	251.6	36.7	76.6	33.8	10.2	912	253.8	38.1
MA	8.5	403.3	58.8	99.8	12.6	8.9	849	403.5	59.5
RA	2.6	387.1	56.5	90.8	12.4	7.1	232	387.3	56.9
ALL	275.6	43.0	6.3	123.4	33.2	3.5	34,012	54.3	7.2

Unit Summary: UPPER SALMON CREEK U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	70	ALL	16.8	71	88	32,110	30,597	4.7	152.9	235.4	57.4	2,894.5
MA	LIVE	CUT	2	ALL	22.0	70	87	909	849	6.6	3.2	8.5	1.8	80.4
RA	LIVE	CUT	3	ALL	18.8	62	76	259	232	10.4	1.3	2.6	0.6	21.9
RC	LIVE	CUT	11	ALL	18.3	56	70	1,024	912	10.9	6.5	11.9	2.8	86.3
WH	LIVE	CUT	6	ALL	11.0	42	50	1,465	1,421	3.0	26.2	17.3	5.2	134.4
ALL	LIVE	CUT	92	ALL	16.3	66	82	35,766	34,012	4.9	190.1	275.6	67.8	3,217.5
ALL	ALL	ALL	92	ALL	16.3	66	82	35,766	34,012	4.9	190.1	275.6	67.8	3,217.5

Cruise Unit Report UPPER SALMON CREEK U3

Unit Sale Notice Volume (MBF): UPPER SALMON CREEK U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	Spec Mill	2 Saw	3 Saw	4 Saw
DF	20.9			904	20	482	344	58
WH	12.4			399		155	134	110
RC	18.8			62			54	8
RA	11.0			5				5
ALL	16.5			1,370	20	637	532	181

Unit Cruise Design: UPPER SALMON CREEK U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	43.1	46.3	22	11	0

Unit Cruise Summary: UPPER SALMON CREEK U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	31	58	2.6	0
WH	15	33	1.5	0
RC	6	11	0.5	0
RA	1	1	0.0	0
ALL	53	103	4.7	0

Unit Cruise Statistics (Cut + Leave Trees): UPPER SALMON CREEK U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	143.5	63.6	13.6	146.2	13.8	2.5	20,981	65.1	13.8
WH	81.7	117.7	25.1	113.3	37.3	9.6	9,254	123.5	26.9
RC	20.0	171.8	36.6	71.5	16.1	6.6	1,429	172.6	37.2
RA	1.8	469.0	100.0	65.2	0.0	0.0	118	469.0	100.0
ALL	247.0	27.5	5.9	128.7	29.4	4.0	31,783	40.2	7.1

Unit Summary: UPPER SALMON CREEK U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	31	ALL	20.9	90	115	21,446	20,981	2.2	60.2	143.5	31.4	904.3
RA	LIVE	CUT	1	ALL	11.0	50	61	118	118	0.0	2.8	1.8	0.5	5.1
RC	LIVE	CUT	6	ALL	18.8	55	68	1,573	1,429	9.1	10.4	20.0	4.6	61.6
WH	LIVE	CUT	15	ALL	12.4	56	68	9,486	9,254	2.4	97.4	81.7	23.2	398.8
ALL	LIVE	CUT	53	ALL	16.3	68	84	32,623	31,783	2.6	170.8	247.0	59.7	1,369.8
ALL	ALL	ALL	53	ALL	16.3	68	84	32,623	31,783	2.6	170.8	247.0	59.7	1,369.8

Cruise Unit Report UPPER SALMON CREEK U4

Unit Sale Notice Volume (MBF): UPPER SALMON CREEK U4

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WH	17.1			792	343	380	70
DF	17.8			166	79	70	17
RA	14.9			11			11
RC	16.0			6		5	1
ALL	17.0			975	421	455	99

Unit Cruise Design: UPPER SALMON CREEK U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	20.4	22.1	11	5	0

Unit Cruise Summary: UPPER SALMON CREEK U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	21	53	4.8	0
DF	4	11	1.0	0
RA	2	2	0.2	0
RC	1	1	0.1	0
ALL	28	67	6.1	0

Unit Cruise Statistics (Cut + Leave Trees): UPPER SALMON CREEK U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	262.3	20.4	6.1	148.0	17.4	3.8	38,812	26.8	7.2
DF	54.4	89.4	27.0	149.0	7.1	3.5	8,114	89.7	27.2
RA	7.3	222.5	67.1	74.8	26.5	18.7	544	224.1	69.6
RC	3.6	331.7	100.0	83.8	0.0	0.0	305	331.7	100.0
ALL	327.7	18.1	5.5	145.8	21.8	4.1	47,774	28.4	6.8

Unit Summary: UPPER SALMON CREEK U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	4	ALL	17.8	90	114	8,114	8,114	0.0	31.5	54.4	12.9	165.5
RA	LIVE	CUT	2	ALL	14.9	59	73	612	544	11.1	6.0	7.3	1.9	11.1
RC	LIVE	CUT	1	ALL	16.0	60	75	333	305	8.6	2.6	3.6	0.9	6.2
WH	LIVE	CUT	21	ALL	17.1	86	107	39,715	38,812	2.3	164.5	262.3	63.4	791.8
ALL	LIVE	CUT	28	ALL	17.1	85	107	48,774	47,774	2.0	204.6	327.7	79.1	974.6
ALL	ALL	ALL	28	ALL	17.1	85	107	48,774	47,774	2.0	204.6	327.7	79.1	974.6

Cruise Unit Report 2 R/W

Unit Sale Notice Volume (MBF): 2 R/W

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	17.7			15	5	10	1
ALL	17.7			15	5	10	1

Unit Cruise Design: 2 R/W

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	0.4		1	1	0

Unit Cruise Summary: 2 R/W

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	5	5	5.0	0
ALL	5	5	5.0	0

Unit Cruise Statistics (Cut + Leave Trees): 2 R/W

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	272.2	0.0	0.0	137.3	21.0	9.4	37,371	21.0	9.4
ALL	272.2	0.0	0.0	137.3	21.0	9.4	37,371	21.0	9.4

Unit Summary: 2 R/W

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	5	ALL	17.7	84	107	37,371	37,371	0.0	159.3	272.2	64.7	14.9
ALL	LIVE	CUT	5	ALL	17.7	84	107	37,371	37,371	0.0	159.3	272.2	64.7	14.9
ALL	ALL	ALL	5	ALL	17.7	84	107	37,371	37,371	0.0	159.3	272.2	64.7	14.9

Cruise Unit Report 4 R/W

Unit Sale Notice Volume (MBF): 4 R/W

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	19.4			17	10	6	1
WH	24.0			4	3	1	0
ALL	19.9			22	13	7	2

Unit Cruise Design: 4 R/W

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	0.4		1	1	0

Unit Cruise Summary: 4 R/W

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	5	5	5.0	0
WH	1	1	1.0	0
ALL	6	6	6.0	0

Unit Cruise Statistics (Cut + Leave Trees): 4 R/W

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	272.2	0.0	0.0	157.9	22.0	9.8	42,972	22.0	9.8
WH	54.4	0.0	0.0	195.8	0.0	0.0	10,658	0.0	0.0
ALL	326.6	0.0	0.0	164.2	21.1	8.6	53,630	21.1	8.6

Unit Summary: 4 R/W

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	5	ALL	19.4	90	115	44,544	42,972	3.5	132.6	272.2	61.8	17.2
WH	LIVE	CUT	1	ALL	24.0	105	133	10,658	10,658	0.0	17.3	54.4	11.1	4.3
ALL	LIVE	CUT	6	ALL	20.0	92	117	55,202	53,630	2.8	149.9	326.6	72.9	21.5
ALL	ALL	ALL	6	ALL	20.0	92	117	55,202	53,630	2.8	149.9	326.6	72.9	21.5



Forest Practices Application/Notification Notice of Decision

FPA/N No: 2617919

Effective Date: 6/3/2023

Expiration Date: 6/3/2026

Shut Down Zone: 652 NE

EARR Tax Credit: Eligible Non-eligible

Reference: DNR

Upper Salmon Creek

Decision

- Notification Accepted Operations shall not begin before the effective date.
- Approved This Forest Practices Application is subject to the conditions listed below.
- Disapproved This Forest Practices Application is disapproved for the reasons listed below.
- Withdrawn Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
- Closed All forest practices obligations are met.

FPA/N Classification

- Class II
- Class III
- Class IVG
- Class IVS

Number of Years Granted on Multi-Year Request

- 4 years
- 5 years

Conditions on Approval/Reasons for Disapproval

Issued By: Levi Pucksta

Region: Olympic

Title: Forest Practices Forester

Date: 6/3/2023

Copies to: Landowner, Timber Owner and Operator

Issued in person: LO TO OP By: _____ Date: _____

Appeal Information

You have thirty (30) days to *file* (i.e., *actually deliver*) an appeal in writing of this Decision and any related State Environmental Policy Act (SEPA) determinations to the Pollution Control Hearings Board, the Attorney General's Office, and the Department of Natural Resources' region office. See [RCW 76.09.205](#). The appeal period starts when the applicant receives this decision, which usually happens electronically on the date indicated below.

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources Olympic Region
<u>Physical Address</u> 1111 Israel Road, SW Suite 301 Tumwater, WA 98501 <u>Mailing address</u> Post Office Box 40903 Olympia, WA 98504-0903	<u>Physical Address</u> 1125 Washington Street, SE Olympia, WA 98504 <u>Mailing Address</u> Post Office Box 40100 Olympia, WA 98504-0100	<u>Physical & Mailing Address</u> 411 Tillicum Lane Forks, WA 98331

Information regarding the Pollution Control Hearings Board can be found at: <http://eluhu.wa.gov/>

Other Applicable Laws

Operating as described in this application/notification does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.

Transfer of Forest Practices Application/Notification (WAC 222-20-010)

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices website <https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and>. Notify DNR of new Operators within 48 hours.

Continuing Forestland Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)

Obligations include reforestation, road maintenance and abandonment plans, conversions of forestland to non-forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

Before the sale or transfer of land or perpetual timber rights subject to continuing forest and obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land Obligation" form and send it to the DNR Region Office for retention. This form is available at DNR region offices.

If the seller fails to notify the buyer about the continuing forestland obligation, the seller must pay the buyer's costs related to continuing forestland obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forestland obligation against the seller.

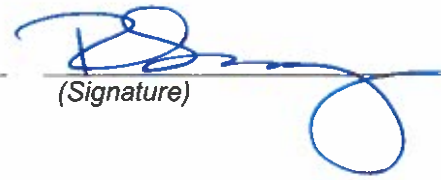
Failure by the seller to send the required notice to DNR at the time of sale will be prima facie evidence in an action by the buyer against the seller for costs related to the continuing forestland obligation prior to sale.

DNR Declaration of Mailing

I, Rosielly Sanchez, caused the Notice of Decision for FPA/N No. 2617919 to be placed in the United States mail at Forks, WA, postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

6/3/2023
(Date)

Forks, Washington
(City & State where signed)


(Signature)

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

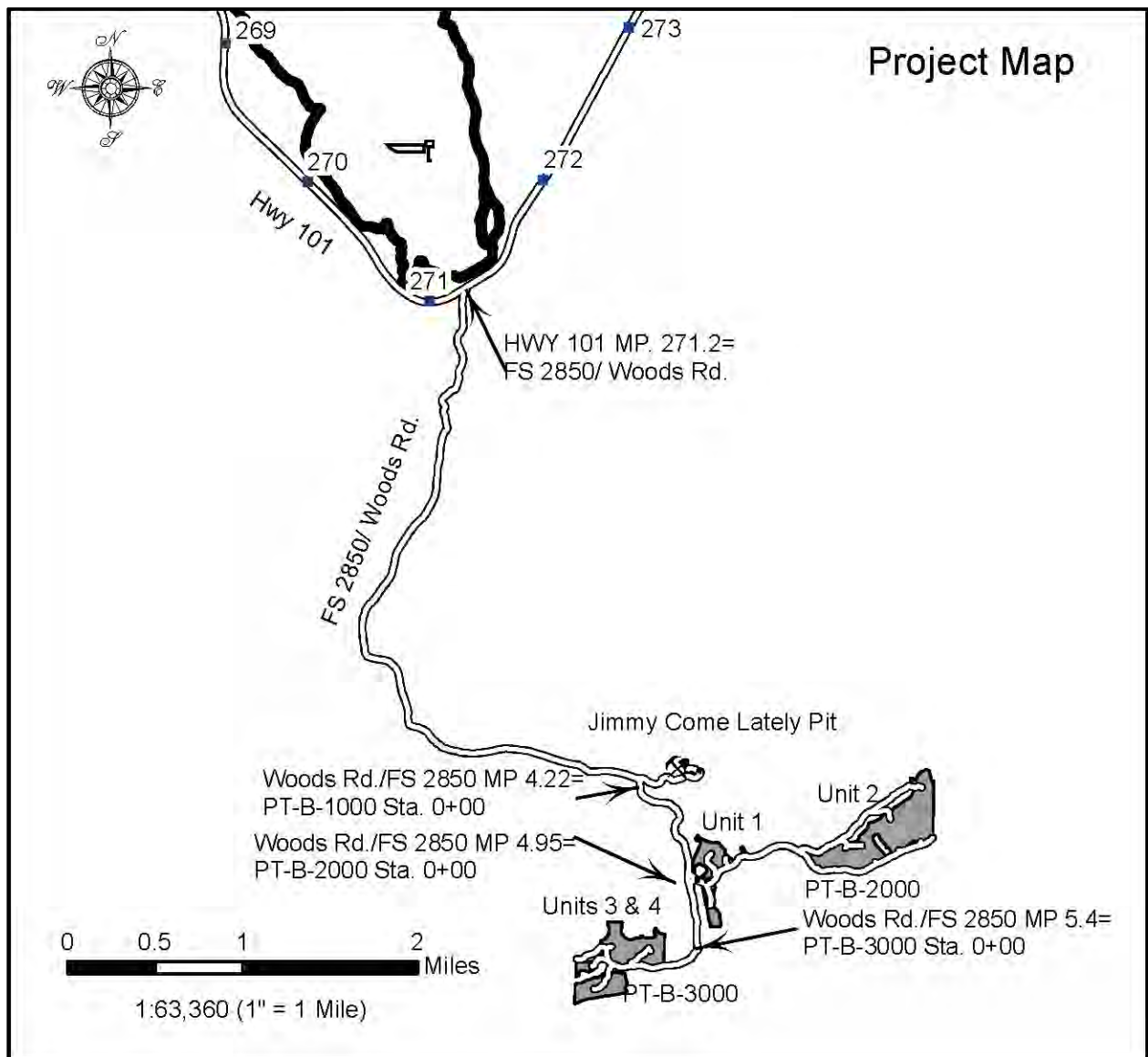
UPPER SALMON CREEK TIMBER SALE ROAD PLAN
CLALLAM COUNTY
STRAITS DISTRICT
OLYMIC REGION

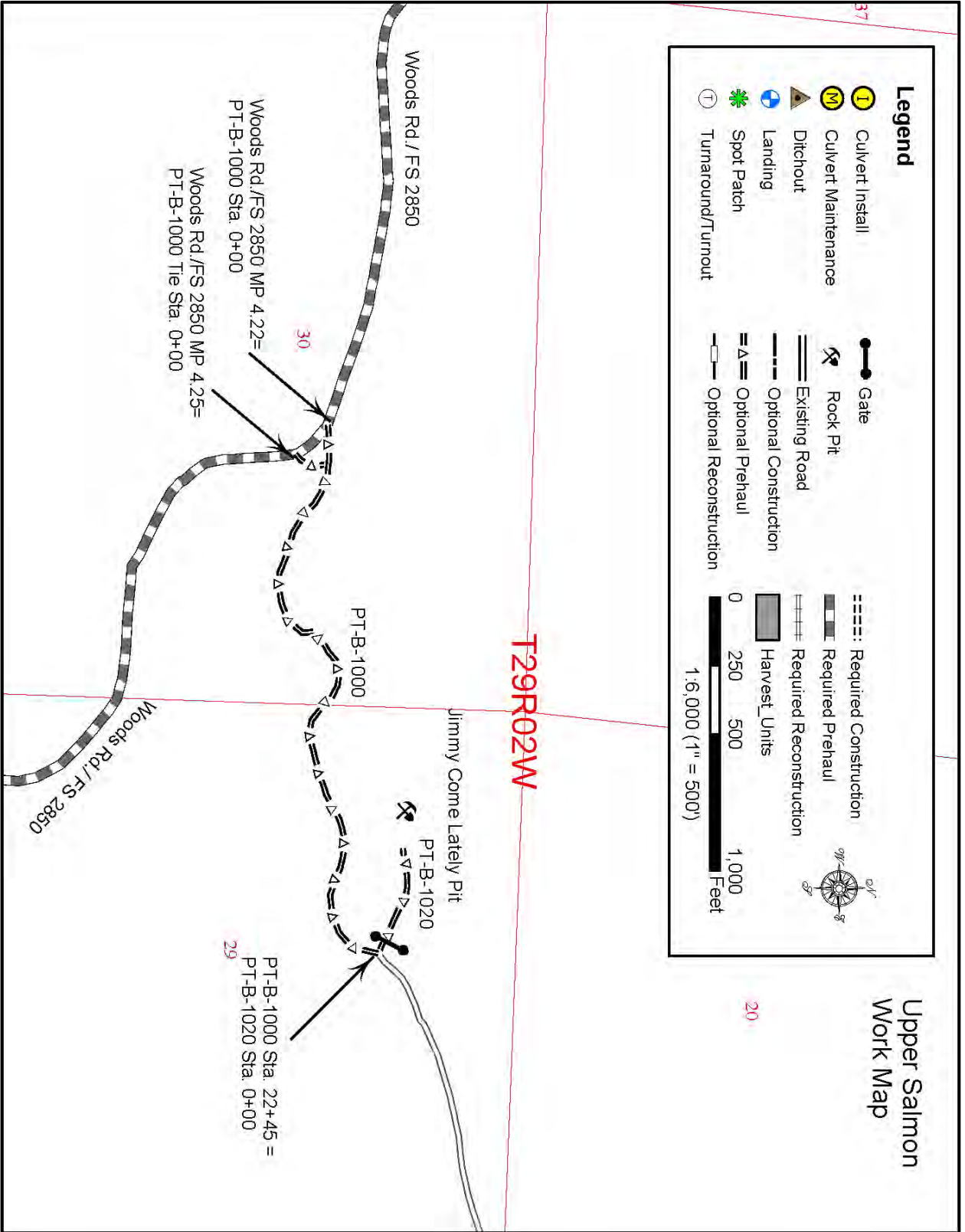
AGREEMENT NO.: 30-103770

DISTRICT ENGINEER: GREG ELLIS

DATE: 2/23/23

DRAWN & COMPILED BY: GREG ELLIS

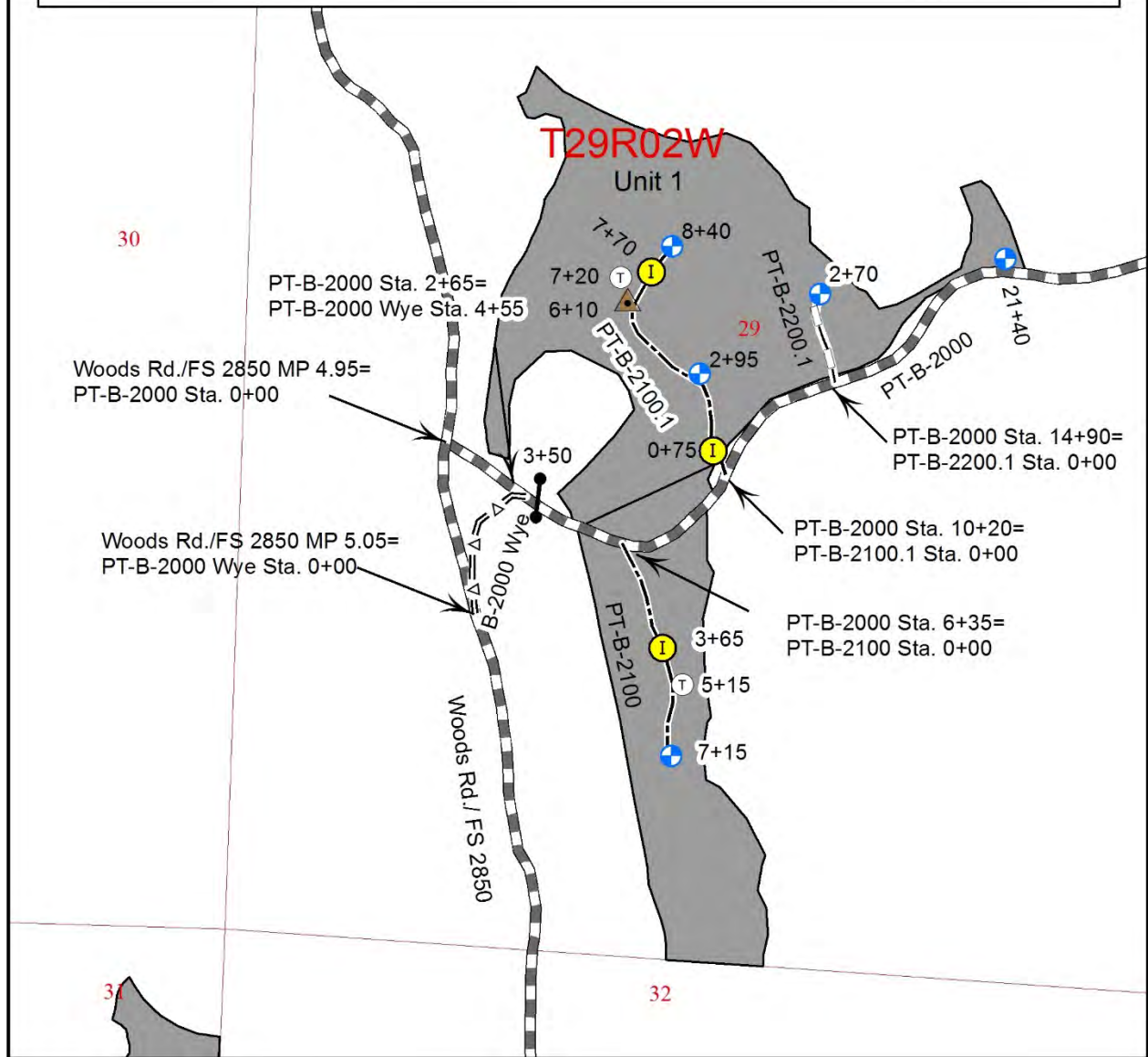


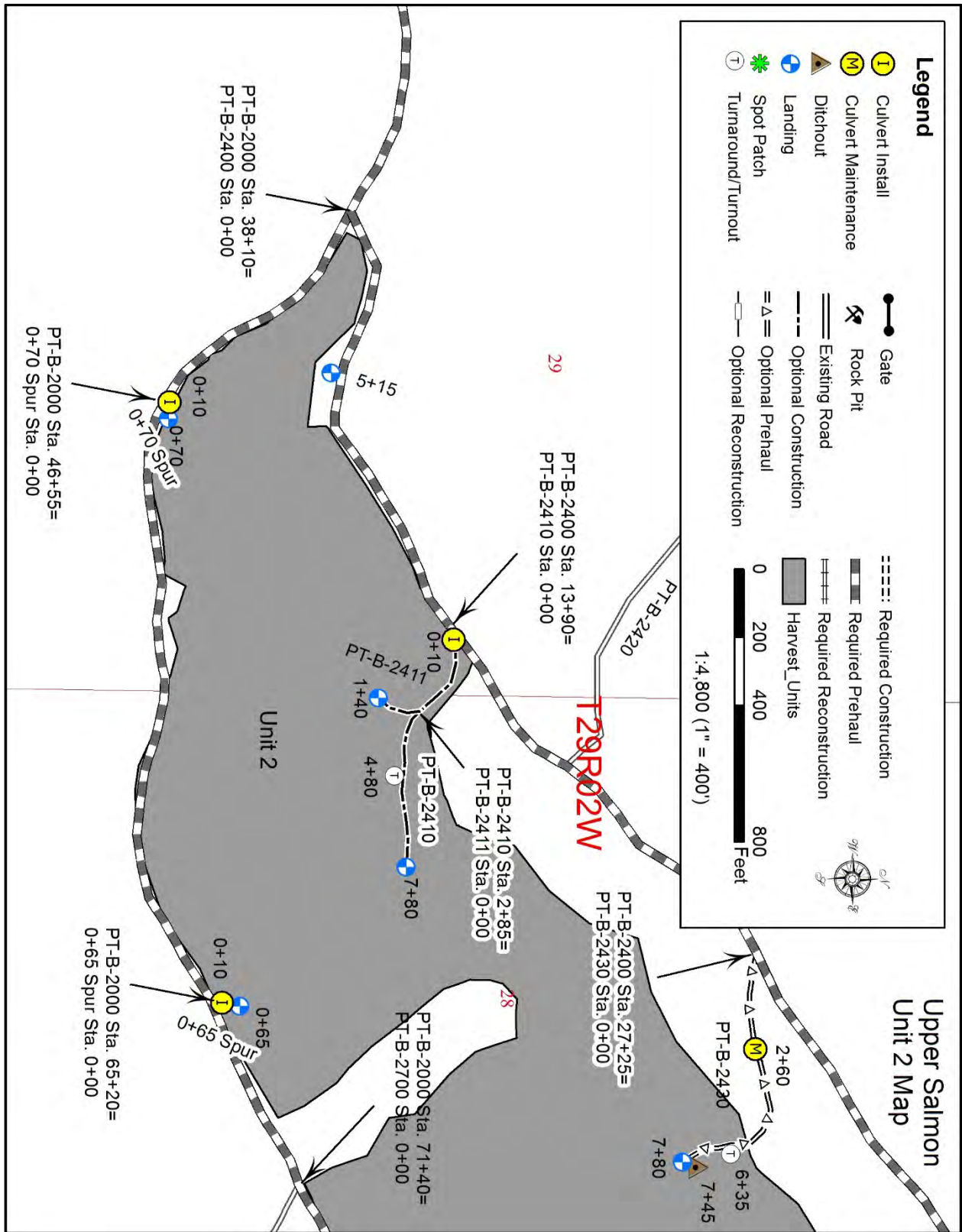


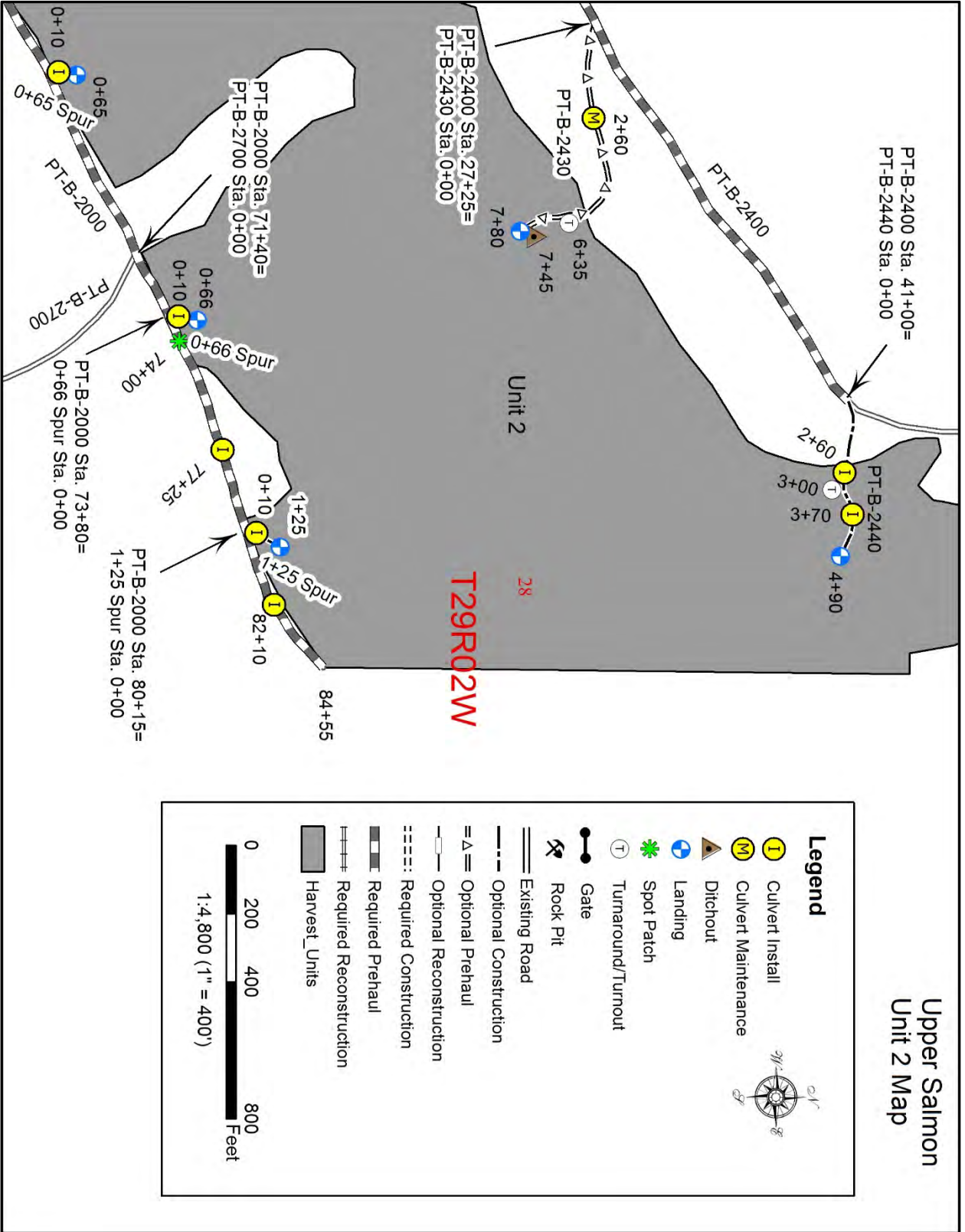
Upper Salmon Creek Unit 1 Map

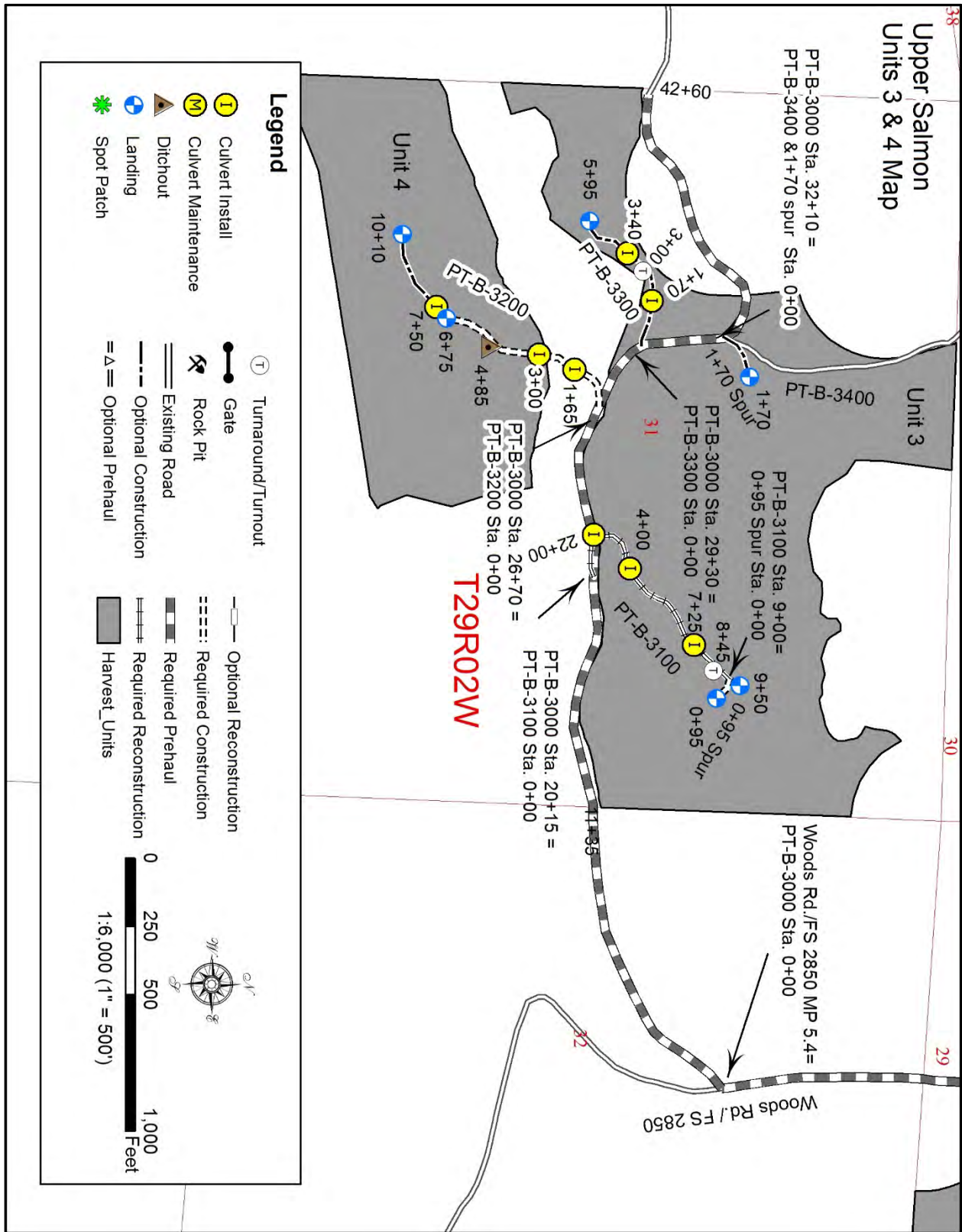
Legend

- | | | | |
|---------------------|-------------------------|-------------------------|-------------------------|
| Culvert Install | Gate | Required Construction | |
| Culvert Maintenance | Rock Pit | Required Prehaul | |
| Ditchout | Existing Road | Required Reconstruction |
1:6,000 (1" = 500') |
| Landing | Optional Construction | Harvest_Units | |
| Spot Patch | Optional Prehaul | | |
| Turnaround/Turnout | Optional Reconstruction | | |









SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

Clauses in this road plan apply to all road related work, including landings and rock source development, unless otherwise noted.

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
Woods Rd./ FS-2850	MP. 1.6 – 5.4 85+50 – 285+15	Pre-Haul Maintenance
PT-B-2000	0+00 – 84+55	Pre-Haul Maintenance
PT-B-2400	0+00 – 41+00	Pre-Haul Maintenance
PT-B-3000	0+00 – 42+60	Pre-Haul Maintenance
PT-B-3100	0+00 – 9+50	Reconstruction
0+95 spur	0+00 – 0+95	Construction
PT-B-3200	0+00 – 6+75	Construction

0-3 OPTIONAL ROADS

The specified work on the following roads is not required. Any optional roads built by the Purchaser must meet all the specifications in the road plan.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
PT-B-1000	0+00 – 22+45	Pre-Haul Maintenance
PT-B-1000 Tie	0+00 – 1+35	Pre-Haul Maintenance
PT-B-1020	0+00 – 4+10	Pre-Haul Maintenance
PT-B-2000 Wye	0+00 – 4+55	Pre-Haul Maintenance
PT-B-2100	0+00 – 7+15	Construction
PT-B-2100.1	0+00 – 8+40	Construction
PT-B-2200.1	0+00 – 2+70	Reconstruction
0+70 Spur	0+00 – 0+70	Construction
0+65 Spur	0+00 – 0+65	Construction
0+66 Spur	0+00 – 0+66	Construction
1+25 Spur	0+00 – 1+25	Construction
PT-B-2410	0+00 – 7+80	Construction
PT-B-2411	0+00 – 1+40	Construction
PT-B-2430	0+00 – 7+80	Pre-Haul Maintenance
PT-B-2440	0+00 – 4+90	Construction
PT-B-3200	6+75 – 10+10	Construction
PT-B-3300	0+00 – 5+95	Construction
1+70 Spur	0+00 – 1+70	Construction

0-4 CONSTRUCTION

This project includes, but is not limited to the following construction requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
PT-B-2100	0+00 – 7+15	See Below
PT-B-2100.1	0+00 – 8+40	
0+70 Spur	0+00 – 0+70	
0+65 Spur	0+00 – 0+65	
0+66 Spur	0+00 – 0+66	
1+25 Spur	0+00 – 1+25	
PT-B-2410	0+00 – 7+80	
PT-B-2411	0+00 – 1+40	
PT-B-2440	0+00 – 4+90	
0+95 Spur	0+00 – 0+95	
PT-B-3200	0+00 – 10+10	
PT-B-3300	0+00 – 5+95	
1+70 Spur	0+00 – 1+70	
Total Stations	51.61 Stations	

Construction includes, but is not limited to: Clearing, grubbing, right-of-way debris disposal, excavation and/or embankment to subgrade, end hauling material for construction, compacting road surfaces, constructing ditchlines, constructing ditchouts, constructing turnouts and turnarounds, curve widening, acquisition and installation of drainage structures, application of rock, spreading grass seed and hay.

0-5 RECONSTRUCTION

This project includes, but is not limited to the following reconstruction requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
PT-B-2200.1	0+00 – 2+70	See Below
PT-B-3100	0+00 – 9+50	
Total Stations	12.2 Stations	

Reconstruction includes, but is not limited to: Removal of all vegetative material with minimum loss of rock and dispose of in accordance with Clause 2-9 and Clause 3-23. Cleaning ditches and constructing ditches, constructing headwalls, cleaning culvert inlets and outlets in accordance with Clause 2-6 and Clause 2-7. Brushing in accordance with Clause 3-1. Installing additional culverts and replacing culverts in accordance with the culvert list. Grading, shaping and compacting existing road surface, turnouts and turnaround in accordance with Clause 2-5, realigning road segments, spreading grass seed and hay, and the application of rock in accordance with the Rock List.

0-6 PRE-HAUL MAINTENANCE

This project includes, but is not limited to the following pre-haul maintenance requirements:

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
Woods Rd./ FS 2850	MP 1.6 – 4.4 (85+50 – 285+15)	Grade, shape and compact existing running surface in accordance to Clause 2-5 as directed by contract administrator and apply rock in accordance with Rock List.
PT-B-1000	0+00 – 22+45	Grade, shape and compact existing running surface in accordance to Clause 2-5 as directed by contract administrator and apply rock in accordance with Rock List.
PT-B-1000 Tie	0+00 – 1+35	Grade, shape and compact existing running surface in accordance to Clause 2-5 as directed by contract administrator.
PT-B-1020	0+00 – 4+10	Grade, shape and compact existing running surface in accordance to Clause 2-5 as directed by contract administrator and perform gate maintenance in accordance with Clause 7-75.
PT-B-2000	0+00 – 84+55	Grade, shape and compact existing running surface in accordance to Clause 2-5, Remove all vegetative material with a minimum loss of rock and dispose of in accordance with Clause 2-9, apply rock in accordance with Rock list, install culverts in accordance with culvert list, clean/construct ditch lines in accordance with Clause 2-7, Brush road in accordance with Clause 3-1 and perform gate maintenance in accordance with Clause 7-75.
PT-B-2000 Wye	0+00 – 4+55	Remove all vegetative material with a minimum loss of rock and dispose of in accordance with Clause 2-9. Grade, shape and compact existing running surface in accordance to

		Clause 2-5, apply rock in accordance with Rock list and Brush road in accordance with Clause 3-1.
PT-B-2400	0+00 – 41+00	Grade, shape and compact existing running surface in accordance to Clause 2-5 and apply rock in accordance with Rock list.
PT-B-2430	0+00 – 7+80	Remove all vegetative material with a minimum loss of rock and dispose of in accordance with Clause 2-9. Grade, shape and compact existing running surface in accordance to Clause 2-5, apply rock in accordance with Rock list, clean/construct ditch lines in accordance with Clause 2-7, perform culvert maintenance in accordance with Clause 2-6 and Brush road in accordance with Clause 3-1.
PT-B-3000	0+00 – 42+60	Grade, shape and compact existing running surface in accordance to Clause 2-5, apply rock in accordance with Rock list, install culverts in accordance with culvert list and Brush road in accordance with Clause 3-1.
Total Stations	408.05 Stations	

Pre-haul maintenance includes, but is not limited to: Brushing right-of-way, right-of-way debris disposal, cleaning ditches, constructing ditches, installing additional culverts, widening road segments, constructing headwalls, cleaning culvert inlets and outlets, cross drain culvert replacements, installing erosion control materials and sediment removal structures, spot rocking, grading and shaping existing road surface and turnouts, constructing additional turnouts, compaction of road surface, application of rock, acquisition and application of grass seed and hay.

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 POST-HAUL MAINTENANCE.

0-12 DEVELOP ROCK SOURCE

Purchaser may develop an existing rock source called Jimmy Come Lately Pit. Rock source development will involve stripping approximately 0.50 acres, drilling and shooting to obtain a minimum of 20 yds³ of Light Loose Rip Rap and the manufacture of a minimum of 6270 yds³ of 6" minus Jaw Run Rock and 4570 yds³ of 2" minus crushed Rock in accordance with Clause 6-20.

Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

All rock manufactured out of rock sources listed above shall meet specifications as listed in Section 6 ROCK AND SURFACING. In the event that the rock pit(s) listed above cannot meet rock specifications in accordance to specifications listed in Section 6, subsection rock gradations and in the opinion of the Contract Administrator, Contractor shall obtain rock meeting rock specification from a commercial source at their own expense.

0-13 STRUCTURES

Purchaser shall provide and install all structures. Requirements for these structures are listed in Section 7 STRUCTURES.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for the submitted plan.

1-2 UNFORESEEN CONDITIONS

Quantities established in this road plan are minimum acceptable values. Additional quantities required by the state due to unforeseen conditions, or Purchaser's choice of construction season or techniques will be at the Purchaser's expense. Unforeseen conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

1-3 ROAD DIMENSIONS

Purchaser shall perform road work in accordance with the dimensions shown on the TYPICAL SECTION SHEET and the specifications within this road plan , unless controlled by construction stakes or design data (plan, profile, and cross-sections).

1-4 ROAD TOLERANCES

Purchaser shall perform road work within the tolerances listed below. The tolerance class for each road is listed on the TYPICAL SECTION SHEET.

<u>Tolerance Class</u>	<u>A</u>	<u>B</u>	<u>C</u>
Road and Subgrade Width (feet)	+1.5	+1.5	+2.0
Subgrade Elevation (feet +/-)	0.5	1.0	2.0
Centerline alignment (feet lt./rt.)	1.0	1.5	3.0

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in the road plan will be resolved by giving the documents precedence in the following order:

1. Addenda.
2. Designs or Plans. On designs and plans, figured dimensions shall take precedence over scaled dimensions.
3. Road Plan Clauses.
4. Typical Section Sheet.
5. Standard Lists.
6. Standard Details.
7. Road Plan maps.

In case of any ambiguity or dispute over interpreting the road plan, the Contract Administrator’s or designee’s decision will be final.

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

Purchaser shall repair or replace all materials, roadway infrastructure, and road components damaged during road work or operation activities. The Contract Administrator will direct repairs and replacements. Repairs to structural materials must be made in accordance with the manufacturer’s recommendation, and may not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any cut ends, or damaged galvanized or aluminized coating on existing or new bridge components, culverts, downspouts, and flumes must be cleaned and treated with a minimum of two coats of zinc rich paint or cold galvanizing compound.

1-10 WSDOT STANDARD SPECIFICATION REFERENCE

References in this road plan to “WSDOT Standard Specifications” mean the Washington State Department of Transportation’s Standard Specifications for Road, Bridge, and Municipal Construction 2012 (M41-10).

1-11 FPA REQUIREMENTS

The following work is subject to requirements under a Forest Practice Hydraulics Project Approval issued by the State of Washington.

<u>Road</u>	<u>Stations</u>	<u>Work Type</u>	<u>FPA Identifier</u>
PT-B-3200	1+65	Culvert Install	C1

1-12 SURVEY MONUMENTS

At no time during construction, reconstruction, or maintenance shall survey monuments, witness trees, or bearing trees be disturbed or damaged. If damaged or disturbed, Purchaser shall hire a licensed land surveyor to repair, replace, and/or reset them.

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

Purchaser shall perform road work in accordance with the state’s marked location. All road work is marked as follows:

- Orange ribbon and paint for construction centerlines.
- Construction stakes for everything else.

1-18 REFERENCE POINT DAMAGE

Purchaser shall reset reference points (RPs) that were moved or damaged at any time during construction to their original locations. Excavation and embankment may not proceed on road segments controlled by said RPs until Purchaser resets all moved or damaged RPs.

SUBSECTION TIMING

1-20 COMPLETE BY DATE

Purchaser shall complete reconstruction, construction and pre-haul road work before the start of timber haul.

1-21 HAUL APPROVAL

Purchaser shall not use roads under this road plan without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 14 calendar days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Purchaser shall obtain written approval from the Contract Administrator upon completion of each of the following phases of road work:

- Subgrade construction
- Drainage installation
- Subgrade compaction
- Rock application
- Rock compaction

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

On the following road(s), are not allowed during the listed closure period(s) unless authorized in writing by the Contract Administrator.

<u>Road</u>	<u>Stations</u>	<u>Activity</u>	<u>Closure Period</u>
All	All	All	Weekends and State Recognized Holidays
All	All	All roadwork activities including Timber Haul and rock pit development.	November 1 st – April 30 th

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION or Contract Clause H-130 HAULING SCHEDULE, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan must be developed. All parties shall follow this plan.

1-27 TIMING RESTRICTION FOR MARBLED MURRELET

On the following road(s), timber felling, road work or operation of heavy equipment performed during the marbled murrelet nesting season (April 1 through September 23), is restricted to, two hours after sunrise to two hours before sunset. This does not apply to hauling timber, rock or equipment.

<u>Road</u>	<u>Stations</u>
FS-2850/ Woods Rd.	MP. 2.25 – 5.4

1-29 SEDIMENT RESTRICTION

Purchaser shall not allow silt-bearing runoff to enter any streams.

1-30 CLOSURE TO PREVENT DAMAGE

In accordance with Contract Clause G-220 STATE SUSPENDS OPERATION, the Contract Administrator will suspend road work or hauling right-of-way timber, forest products, or rock under the following conditions:

- Wheel track rutting exceeds 6 inches on jaw run roads.
- Wheel track rutting exceeds 4 inches on crushed rock roads.
- Wheel track rutting exceeds 4 inches on native surface roads.
- Surface or base stability problems persist.
- Weather is such that satisfactory results cannot be obtained in an area of operations.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

Operations must stop unless authority to continue working or hauling is granted in writing by the Contract Administrator. In the event that surface or base stability problems persist, Purchaser shall cease operations, or perform corrective maintenance or repairs, subject to specifications within this road plan. Before and during any suspension, Purchaser shall protect the work from damage or deterioration.

1-33 SNOW PLOWING RESTRICTION

On the following road(s), snowplowing will be allowed after the execution of a SNOW PLOWING AGREEMENT, which is available from the Contact Administrator upon request. Purchaser shall request a SNOW PLOWING AGREEMENT each time plowing occurs. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

SUBSECTION OTHER INFRASTRUCTURE

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

Purchaser shall immediately remove any mud, dirt, rock, or other material tracked or spilled on to county roads and state highways.

If additional damage to the surface, signs, guardrails, etc. occurs then the damage will be repaired, at the Purchaser’s expense, as directed by the Contract Administrator when authorized by the county or WSDOT.

The following county roads and state highways are affected by this sale:

<u>Road Name</u>	<u>Station</u>
Woods Rd./FS 2850	MP 0.0 – 1.6

1-41 REQUIREMENTS FOR PAVED ROAD APPROACHES

Purchaser shall build up approaches to allow a smooth grade transition between the DNR Roads and paved roads. The top of the DNR road surfacing must be kept level with the surface of the paved road at all times. The surface of the DNR road approach must slope from the edge of the paved road at the rate of 2% , unless otherwise directed by the Contract Administrator.

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

Purchaser shall maintain all roads used under this contract in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS for the entire term of this contract. Maintenance is required even during periods of inactivity.

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

Purchaser shall perform maintenance on roads listed in Contract Clause C-050 PURCHASER ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

Purchaser may be required to perform maintenance on roads listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER as directed by the Contract Administrator. Purchaser shall maintain roads in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain all the roads in a condition that will allow the passage of light administrative vehicles.

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following road(s), Purchaser shall use a grader to shape the existing surface.

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
Woods Rd. / FS 2850	MP 1.6 – 5.4 (85+50 – 285+15)	Grade, shape, compact and remove shoulder vegetation as required by contract administrator.
PT-B-1000	0+00 – 22+45	Grade, shape, compact and remove shoulder vegetation as required by contract administrator.
PT-B-1000 Tie	0+00 – 1+35	Grade, shape, compact and remove shoulder vegetation as required by contract administrator.

PT-B-1020	0+00 – 4+10	Grade, shape, compact and remove shoulder vegetation as required by contract administrator.
PT-B-2000	0+00 – 84+55	Grade, shape, compact and remove shoulder vegetation.
PT-B-2000 Wye	0+00 – 4+55	Grade, shape, compact and remove shoulder vegetation.
PT-B-2400	0+00 – 41+00	Grade, shape, compact and remove shoulder vegetation.
PT-B-2430	0+00 – 7+80	Grade, shape, compact and remove shoulder vegetation.
PT-B-3000	0+00 – 42+60	Grade, shape, compact and remove shoulder vegetation.

2-6 CLEANING CULVERTS

On the following road(s), Purchaser shall clean the inlets and outlets of all culverts and shall obtain written approval from the Contract Administrator before start of timber haul.

<u>Road</u>	<u>Stations</u>
PT-B-2430	2+60

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall clean and/or construct ditches, headwalls, and catch basins. Work must be completed before the start of timber haul and must be done in accordance with the Typical Section Sheet. Pulling ditch material across the road or mixing in with the road surface is not allowed. Ditch lines, headwalls, and catch basins shall not encroach into the existing road.

<u>Road</u>	<u>Stations</u>	<u>Left and/or Right</u>	<u>Comments</u>
PT-B-2000	71+40 – 84+55	Left	Ditching
PT-B-2200.1	0+00 – 2+70	Left	Ditching
PT-B-2430	0+00 – 7+80	Left	Ditching
PT-B-3100	1+70 – 9+50	Left	Ditching

2-9 REMOVING VEGETATIVE MATERIAL

On the following road(s), Purchaser shall remove all vegetative material, dirt, mud and other debris on the existing road surface with a minimum loss of rock. Material must be disposed of as specified in Clauses 4-35 through 4-38.

<u>Road</u>	<u>Stations</u>
PT-B-2000	71+40 – 84+55
PT-B-2000 Wye	0+00 – 4+55
PT-B-2200.1	0+00 – 2+70
PT-B-2430	0+00 – 7+80
PT-B-3100	0+00 – 9+50

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION BRUSHING

3-1 BRUSHING

On the following road(s), Purchaser shall cut vegetative material up to 5 inches in diameter, including limbs, as shown on the BRUSHING DETAIL. Brushing must be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditch lines, and culvert inlets and outlets.

<u>Road</u>	<u>Stations</u>
PT-B-2000	0+00 – 84+55
PT-B-2000 Wye	0+00 – 4+55
PT-B-2200.1	0+00 – 2+70
PT-B-2430	0+00 – 7+80
PT-B-3000	0+00 – 42+60
PT-B-3100	0+00 – 9+50

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal may not be used for brushing. Excavator buckets, log loaders and similar equipment may not be used for brushing unless otherwise approved in writing by the Contract Administrator.

3-3 BRUSH REMOVAL

Remove brushing debris from the road surface, ditch lines, and culvert inlets and outlets. Brush should be disposed of so that it will not fall back onto the road prism.

SUBSECTION CLEARING

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 5 inches DBH or over 15 feet high between the marked right-of-way boundaries, or as approved by Contract Administrator. Clearing must be completed before starting excavation and embankment.

3-7 RIGHT-OF-WAY DECKING

Purchaser shall deck all right-of-way timber. Decks must be parallel to the road centerline and placed within the cleared right-of-way. Decks must be free of dirt, limbs, and other right-of-way debris, and removable by standard log loading equipment from the roadbed.

3-8 PROHIBITED DECKING AREAS

Purchaser shall not deck right-of-way timber in the following areas:

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 40%.
- Against standing trees.

SUBSECTION GRUBBING

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Purchaser shall remove stumps using a hydraulic mounted excavator unless authorized in writing by the Contract Administrator. Grubbing must be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

Purchaser shall place grubbed stumps outside of the clearing limits, as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps must be positioned upright, with root wads in contact with the forest floor and on stable locations.

SUBSECTION ORGANIC DEBRIS

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clause G-010 PRODUCTS SOLD AND SALE AREA or G-011 RIGHT TO REMOVE FOREST PRODUCTS AND CONTRACT AREA, that is larger than one cubic foot in volume within the grubbing limits as shown on the TYPICAL SECTION SHEET.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditch lines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, before the application of rock.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland.
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

Purchaser shall not bury organic debris unless otherwise stated in this plan.

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris outside of the grubbing limits in accordance with Clause 3-23 unless otherwise detailed in this road plan and as directed by the Contract Administrator.

SUBSECTION PILE

3-30 EXCLUSION OF DOZER BLADES

Purchaser shall not use dozer blades for the piling of organic debris.

SECTION 4 – EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

Purchaser shall use a track mounted hydraulic excavator for construction, reconstruction and maintenance work unless stated otherwise within this Road Plan or authorized in writing by the Contract Administrator.

4-2 PIONEERING

Pioneering may not extend past construction that will be completed during the current construction season. Pioneering may not extend more than 1000 feet beyond completed construction unless approved in writing by the Contract Administrator. In addition, the following actions must be taken as pioneering progresses:

- Drainage must be provided on all uncompleted construction.
- Road pioneering operations may not undercut the final cut slope or restrict drainage.
- Culverts at live stream crossings must be installed during pioneering operations.

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Purchaser shall follow these standards for road grade and alignment:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 16 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Maximum grade change for sag vertical curves is 5% in 100 feet.
- Maximum grade change for crest vertical curves is 4% in 100 feet.

4-4 SWITCHBACK STANDARDS

A switchback is defined as a curved segment of road between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees. Purchaser shall follow these standards for switchbacks:

- Maximum adverse grades for switchbacks is 10%.
- Maximum favorable grades for switchbacks is 12%.
- Maximum transition grades entering and leaving switchbacks is a 5% grade change.
- Transition grades required to meet switchback grade limitations must be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

Purchaser shall construct excavation slopes no steeper than shown on the following table, unless construction staked or designed:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>	<u>Excavation Slope Percent</u>
Common Earth (on side slopes up to 55%)	1:1	100
Common Earth (56% to 70% side slopes)	¾:1	133
Common Earth (on slopes over 70%)	½:1	200
Fractured or loose rock	½:1	200
Hardpan or solid rock	¼:1	400

4-6 EMBANKMENT SLOPE RATIO

Purchaser shall construct embankment slopes no steeper than shown on the following table, unless construction staked or designed:

<u>Material Type</u>	<u>Embankment Slope Ratio</u>	<u>Embankment Slope Percent</u>
Sandy Soils	2:1	50
Common Earth and Rounded Gravel	1½:1	67
Angular Rock	1¼:1	80

4-7 SHAPING CUT AND FILL SLOPE

Purchaser shall construct excavation and embankment slopes to a uniform line and left rough for easier revegetation.

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

- 6 feet for curves of 50 to 79 feet radius.
- 4 feet for curves of 80 to 100 feet radius.

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

- 2 feet for embankment heights at centerline of 2 to 6 feet.
- 4 feet for embankment heights at centerline of greater than 6 feet.

SUBSECTION INTERSECTIONS, TURNOUTS AND TURNAROUNDS

4-21 TURNOUTS

Purchaser shall construct turnouts intervisible with a maximum distance of 1,000 feet between turnouts unless otherwise shown on drawings. Locations may be adjusted to fit the final subgrade alignment and sight distances. Locations changes are subject to written approval by the Contract Administrator. Minimum dimensions are shown on the TYPICAL SECTION SHEET.

4-22 TURNAROUNDS

Turnarounds must be no larger than 50 feet long and 30 feet wide. Locations are subject to written approval by the Contract Administrator.

SUBSECTION DITCH CONSTRUCTION

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

Purchaser shall construct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Ditches must be constructed concurrently with construction of the subgrade.

4-27 DITCH WORK – MATERIAL USE PROHIBITED

Purchaser shall not pull ditch material across the road or mix in with the road surface. Excavated material must be end hauled to the location specified in Clauses 4-36 through 4-38.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditch outs.

4-29 DITCHOUTS

Purchaser shall construct ditch outs as identified in the table below and as needed to fit as built conditions. Ditch outs must be constructed in a manner that diverts ditch water onto the forest floor and must have excavation backslopes no steeper than a 1:1 ratio. L or R denotes ditch out left or ditch out right.

<u>Road</u>	<u>Stations</u>	<u>L or R</u>
PT-B-2100.1	6+10 (approx. 20')	L
PT-B-2430	7+45 (approx. 25')	L
PT-B-3200	4+85 (approx. 20')	L

SUBSECTION WASTE MATERIAL (DIRT)

4-35 WASTE MATERIAL DEFINITION

Waste material is defined as all dirt, rock, mud, or related material that is extraneous or unsuitable for construction material. Waste material, as used in Section 4 EXCAVATION, is not organic debris.

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste material must be end hauled or pushed to the designated embankment sites.

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- Against standing timber.

SUBSECTION BORROW

4-45 SELECT BORROW

Select borrow consists of granular material, either naturally occurring or processed, and contains no more than 5% clay, organic debris, or trash by volume.

SUBSECTION SHAPING

4-55 ROAD SHAPING

Purchaser shall shape the subgrade and surface as shown on the TYPICAL SECTION SHEET. The subgrade and surface shape must ensure runoff in an even, un-concentrated manner, and must be uniform, firm, and rut-free.

4-56 DRY WEATHER SHAPING

The Contract Administrator may require the application of water to facilitate shaping activities. The method of water application is subject to written approval by the Contract Administrator.

SUBSECTION COMPACTION

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material in accordance with the COMPACTION LIST by routing equipment over the entire width of each lift. A plate compactor must be used for areas specifically requiring keyed embankment construction and for embankment segments too narrow to accommodate equipment.

4-61 SUBGRADE COMPACTION

Purchaser shall compact constructed and reconstructed subgrades in accordance with the COMPACTION LIST by routing equipment over the entire width, except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before placement of rock.

4-62 DRY WEATHER COMPACTION

The Contract Administrator may require the application of water to facilitate compaction activities. The method of water application is subject to written approval by the Contract Administrator.

4-63 EXISTING SURFACE COMPACTION

Purchaser shall compact maintained road surfaces in accordance with the COMPACTION LIST by routing equipment over the entire width.

4-64 WASTE MATERIAL COMPACTION

All waste material shall be compacted by running equipment over it or bucket tamping.

4-65 CULVERT BACKFILL COMPACTION

Culvert backfills shall be accomplished by using a jumping jack compactor, performing at least 2 passes per lift, in lifts not to exceed 8 inches.

4-66 COMPACTION BY METHOD

Compaction shall consist of three complete passes over the entire width of each lift with a vibratory drum roller weighing a minimum of 6,000 pounds at a maximum operating speed of 3 mph. For embankment segments too narrow to accommodate a drum roller, a plate compactor shall be used.

SECTION 5 – DRAINAGE

5-1 REMOVAL OF SHOULDER BERMS

Purchaser shall remove berms from road shoulders. The construction of ditchouts is required where ponding could result from the effects of sidecast debris.

5-3 PUNCHEON PLACEMENT

On the following road(s), puncheon may be utilized in the subgrade on the following road. Puncheon shall consist of logs of at least 4 inches in diameter and shall be at least 17 feet long.

<u>Road</u>	<u>Stations</u>
PT-B-2100.1	0+00 – 8+40
0+70 Spur	0+00 – 0+70
0+65 Spur	0+00 – 0+65
0+66 Spur	0+00 – 0+66
1+25 Spur	0+00 – 1+25
PT-B-3200	0+00 – 10+10
PT-B-3300	0+00 – 5+95
1+70 Spur	0+00 – 1+70

5-4 PUNCHEON RESTRICTED

At no time shall puncheon be used in the subgrade, unless approved by the Contract Administrator and listed above.

SUBSECTION CULVERTS

5-5 CULVERTS

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly

on unprotected soil. Culverts must be new material and meet the specifications in Clauses 10-15 through 10-24.

5-6 CULVERT TYPE

Purchaser may install culverts made of steel or plastic* in accordance with Clauses 10-15 through 10-24. *Culvert on PT-B-3200 at station 1+65 shall be made of Aluminized Steel in accordance with Clauses 10-15 & 10-21.

5-9 BEVELED ENDS

The following culverts must have their ends beveled as specified below.

<u>Road</u>	<u>Stations</u>	<u>Bevel Type</u>
PT-B-3200	1+65	1.5:1 Half way up the culvert. Inlet only.

5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT LIST and ROCK LIST that are not installed will become the property of the state. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-13 CONTINGENCY CULVERTS

The following culverts will be supplied by the Purchaser and are available for installation as directed by the Contract Administrator. In the event that culverts are not used, culverts shall be stockpiled at Center Work Center.

<u>Road</u>	<u>Size</u>
On any portion of road used for timber or rock haul.	1 - 18" x 30' culvert
	1 - 18" culvert band
	1 - 24" x 30' culvert
	1 - 24" culvert band

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the TYPICAL CROSS DRAIN CULVERT INSTALLATION DETAIL SHEET, TYPICAL TYPE NS NP CULVERT INSTALLATION DETAIL SHEET, the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures" and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations. Culverts over 15 inches diameter shall be banded using lengths of no less than 10 feet, and no more than one length less than 16 feet. Shorter section of banded culvert shall be installed at the inlet end.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

Purchaser shall obtain written approval from the District Engineer or his/her designee for the installation of culverts 30 inches in diameter and over before backfilling.

5-17 CROSS DRAIN SKEW AND SLOPE

Cross drains, on road grades in excess of 3%, must be skewed at least 30 degrees from perpendicular to the road centerline, except where the cross drain is at the low point in the road culverts will not be skewed. Cross drain culverts must be installed at a slope steeper than the incoming ditch grade, but not less than 3% or more than 10%.

5-18 CULVERT DEPTH OF COVER

Cross drain culverts must be installed with a depth of cover of not less than 18 inches of compacted subgrade over the top of the culvert at the shallowest point. Stream crossing culverts must be installed with a depth of cover specified in the Engineer's design, TYPICAL TYPE NS NP DETAIL SHEET, or recommended by the culvert manufacturer for the type and size of the pipe, whichever is greater.

SUBSECTION CATCH BASINS, HEADWALLS, AND ARMORING

5-25 CATCH BASINS

Purchaser shall construct catch basins to resist erosion. Minimum dimensions of catch basins are 1-2 feet wide, 1-2 feet deep and 2-4 feet long.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Purchaser shall construct headwalls in accordance with the TYPICAL CROSS DRAIN CULVERT INSTALLATION DETAIL at all cross drain culverts that specify the placement of rock. Rock used for headwalls must consist of oversize or quarry spall material. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets. Minimum specifications require that rock be placed at a width of one culvert diameter on each side of the culvert opening, and to a height of one culvert diameter above the top of the culvert. Rock may not restrict the flow of water into culvert inlets or catch basins. No placement by end dumping or dropping of rock is allowed.

5-27 ARMORING FOR STREAM CROSSING CULVERTS

At the following culvert(s), Purchaser shall place rip rap in conjunction with construction of the embankment. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the TYPICAL TYPE NS NP CULVERT INSTALLION DETAIL or as directed by the Contract Administrator. Rock may not restrict the flow of water into culvert inlets or catch basins. Rock must be set in place by machine. Placement must be with a zero-drop-height method only. No placement by end dumping or dropping of rock is allowed.

<u>Road</u>	<u>Stations</u>	<u>Rock Type</u>
PT-B-3200	1+65	Light Loose Rip Rap

SECTION 6 – ROCK AND SURFACING

SUBSECTION ROCK SOURCE

6-2 ROCK SOURCE ON STATE LAND

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the following source(s) on state land at no charge to the Purchaser. Purchaser shall obtain written approval from the Contract Administrator for the use of material from any other source. If other operators are using, or desire to use the rock source(s), a joint operating plan must be developed. All parties shall follow this plan. Purchaser shall notify the Contract Administrator a minimum of 5 business days before starting any operations in the listed locations.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
Jimmy Come Lately Pit	T29N R02W Sec 29	6" Jaw Run Rock, 2" minus crushed rock, Light Loose Rip Rap

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the following existing stockpile(s) on state land at no charge to the Purchaser. Purchaser shall not remove more than 6270 cubic yards of 6" Jaw run rock, 4570 cubic yards of 2" minus crushed rock and 20 cubic yards of Light Loose Rip Rap. Purchaser shall not remove additional yardage without prior written approval from the Contract Administrator. Other stockpiles may not be used without prior written approval from the Contract Administrator. Stockpiles shall be replaced with quantities listed in the rock list.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>	<u>Quantity</u>
Jimmy Come Lately Pit	T29N R02W Sec 29	6" Jaw Run Rock	6270 yd ³
Jimmy Come Lately Pit	T29N R02W Sec 29	2" minus Crushed Rock	4570 yd ³

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense. Rock sources are subject to written approval by the Contract Administrator before their use. Prior to approval, purchaser shall submit a passing sieve test performed by procedure described in WSDOT FOP for WAQTC T 27/11.

SUBSECTION ROCK SOURCE DEVELOPMENT

6-11 ROCK SOURCE DEVELOPMENT PLAN BY PURCHASER

Purchaser shall conduct rock source development and use at the following sources, in accordance with a written ROCK SOURCE DEVELOPMENT PLAN to be prepared by the Purchaser. The plan is subject to written approval by the Contract Administrator before any rock source operations. Upon completion of operations, the rock source must be left in the condition specified in the ROCK SOURCE DEVELOPMENT PLAN, and approved in writing by the Contract Administrator. Purchaser shall notify the Contract Administrator a minimum of 5 business days before starting any operations in the rock source.

<u>Source</u>	<u>Rock Type</u>
Jimmy Come Lately Pit	6" Jaw Run Rock, 2" minus crushed rock, Light Loose Rip Rap

Rock source development plans prepared by the Purchaser must show the following information:

- Rock source location.
- Rock source overview showing access roads, development areas, stockpile locations, waste areas, and floor drainage.
- Rock source profiles showing development areas, bench locations including widths, and wall faces including heights.
- Rock source reclamation plan describing how the area will be left in a condition that will ensure public safety and minimize environmental impacts.
- Purchaser shall address and follow attached pit use requirements when working in Jimmy Come Lately Pit

6-12 ROCK SOURCE SPECIFICATIONS

Rock sources must be in accordance with the following specifications , unless otherwise specified in the ROCK SOURCE DEVELOPMENT PLAN:

- Pit walls may not be undermined or over steepened. The maximum slope of the walls must be consistent with recognized engineering standards for the type of material being excavated in accordance with the following table:

Material	Maximum Slope Ratio (Horiz. :Vert.)	Maximum Slope Percent
Sand	2:1	50
Gravel	1.5:1	67
Common Earth	1:1	100
Fractured Rock	0.5:1	200

Solid Rock	0:1	vertical
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- Pit walls must be maintained in a condition to minimize the possibility of the walls sliding or failing.
- The width of pit benches must be a minimum of 1.5 times the maximum length of the largest machine used.
- The surface of pit floors and benches must be uniform and free-draining at a minimum 2% outslope gradient.
- All operations must be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- All vehicle access to the top of the pit faces must be blocked.

6-14 DRILL AND SHOOT

Rock drilling and shooting must meet the following specifications:

- Oversize material remaining in the rock source at the conclusion of the timber sale may not exceed 5% of the total volume mined in that source.
- Oversize material is defined as rock fragments larger than five feet in any dimension.
- Oversized rock that exceeds the maximum allowable amount must be shot or broken up.
- Purchaser shall notify the Contract Administrator a minimum of 3 working days before blasting operations.
- Purchaser shall submit an informational drilling and shooting plan to the Contract Administrator 10 working days before any drilling (Form #M-126PAC).
- All operations must be carried out in compliance with the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and the Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- Purchaser is require to inform Clallam County Dispatch (PenCom) of a day and approximate time of the pit blasting.
- Purchaser shall block access roads before blasting operations.

6-16 DRILL AND SHOOT TECHNICAL SPECIFICATIONS

DRILLING

The Purchaser shall drill in accordance to an approved Shot Plan. Drill depth shall not extend more than 5 feet below existing pit floor. The District Engineer or their designee and Purchaser shall jointly measure and determine drill depths, hole spacing and pattern and must be approved prior to loading explosives. During drilling operation, drill operator shall keep a bore log which includes the depth and location of each hole drilled. The

District Engineer or their designee may ask to see the bore log during and after the drilling process has completed.

BLASTING

The Purchaser shall furnish and load appropriate explosives, detonators, and ignition sources in accordance to all State and Federal laws and in accordance to an approved Shot Plan.

DRILLING AND SHOOTING PLAN "SHOT PLAN"

The Purchaser shall submit a written drilling and shooting plan, including drawings, to the District Engineer or their designee, which must meet the approval of the District Engineer or their designee prior to the start of the drilling operation. The plan and drawing(s) shall include the following proposals: drill hole diameter, drill hole spacing, drill hole pattern, drill hole depth, any stemming depths, type and depth of explosive including amount per drill hole, detonator and ignition type, and proposed delay pattern. Any adjustment or modifications to the proposals during operations must be noted and resubmitted prior to loading of explosives.

WEATHER LIMITATIONS

When, in the opinion of the District Engineer or their designee, the weather is such that satisfactory results cannot be obtained in any phase of operation, Purchaser shall suspend operations until the weather is favorable. Before and during any suspension, Purchaser shall protect the work from damage or deterioration.

SUBSECTION ROCK MANUFACTURE

6-20 ROCK CRUSHING OPERATIONS

Rock crushing operations must conform to the following specifications:

- Operations and placement of oversize material must be conducted in or near the rock source site, as approved in writing by the Contract Administrator.
- The crushing operation must be concluded within 45 working days from the time it begins.
- All testing and operations must be performed in accordance with the attached ROCK CRUSHING COMPLIANCE PROCEDURE.
- Purchaser may use a commercial testing lab to produce sieve analyses.
- Sieve analysis for acceptance of aggregate shall be performed by procedure described in WSDOT FOP for WAQTC T 27/11.

6-24 ROCK CRUSHING COMPLIANCE PROCEDURE

Phase I. Equipment Adjustment

Step 1:

At start up of crushing operations, the Purchaser will notify the Contract Administrator when the rock meets the gradation specifications in the contract. None of the rock

crushed during this calibration period will be counted toward the amount required to be crushed, and this rock must be kept separate from accepted rock crushed later.

Step 2:

The Purchaser will test the rock. Two samples will be taken. If the rock meets specifications, crushing may begin. If the rock does not meet specifications, return to Step 1.

Phase II. Production

Step 3:

The Purchaser will continue periodic testing to ensure that rock stays in spec. Testing will take place according to the following schedule:

- After the first 500 yards
 - After every 2,000 yards thereafter.
- a) Any time a sample is out of spec, but is within 5%*, the Purchaser will be notified and a second sample will be taken later in the day. If the second sample meets specifications, the rock crushed during that day will be accepted. If the second sample also fails to meet spec, none of the rock crushed since the last acceptable test will be counted toward the amount to be crushed.
- b) Any time a sample is out of spec and is more than 5% off in any category, none of the rock crushed since the last acceptable test will be accepted and that rock must be kept separate from the stockpile. Return to Step 1.
- c) Purchaser is strongly encouraged to take their own samples regularly and keep their operations in spec to avoid unnecessary expenses.

- The 5% will be applied only to sieve specs for 2" to ¼"; rock that is out of spec in larger sizes must be kept separate from the acceptable rock. Periodic visual inspection required for all rock gradations larger than 2". If in the opinion of the Contract Administrator that gradations are not meeting specifications, Contract Administrator may require testing of material 2" or larger.

SUBSECTION ROCK GRADATIONS

6-30 2-INCH MINUS CRUSHED ROCK

% Passing 2" square sieve	100%
% Passing 1" square sieve	55 - 75%
% Passing U.S. #4 sieve	20 - 45%

Of the fraction passing the No. 4 sieve, 40% to 60% must pass the No. 10 sieve.

The portion of aggregate retained on the No. 4 sieve may not contain more than 0.2 percent organic debris and trash. All percentages are by weight.

6-39 6-INCH JAW RUN ROCK

% Passing 6" in one dimension	100%
% Passing 3" square sieve	45 - 65%

Rock may not contain more than 5 percent organic debris and trash. All percentages are by weight.

6-50 LIGHT LOOSE RIP RAP

Light loose rip rap must consist of angular, hard, sound, and durable stone. It must be free from segregation, seams, cracks, and other defects tending to destroy its resistance to weather. Light loose rip rap must be free of rock fines, soil, organic debris or other extraneous material, and must meet the following requirements:

<u>Quantity</u>	<u>Approximate Size Range</u>
20% to 90%	500 lbs. to 1 ton (18"- 28")
15% to 80%	50 lbs. to 500 lbs. (8"- 18")
10% to 20%	3 inch to 50 lbs. (3"- 8")

SUBSECTION ROCK MEASUREMENT

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths, are defined as the compacted depth(s) using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are estimated truck yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction.

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for subgrade drainage installation included grading and compaction before rock application.

6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. The Contract Administrator will direct locations for rock that is to be applied as spot patching. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width and in lifts not to exceed 6 inches.

6-72 ROCK APPLICATION AFTER HAULING

On the following road(s), upon completion of all hauling operations, Purchaser shall apply rock in accordance with the quantities shown on the ROCK LIST and listed below.

<u>Road</u>	<u>Stations</u>	<u>Rock Type</u>	<u>Amount</u>
FS-2850 / Woods Rd.	85+50 – 285+15	2" minus crushed rock	200 yd ³
PT-B-1000	0+00 – 22+45	2" minus crushed rock	100 yd ³
PT-B-2000	0+00 – 84+55	2" minus crushed rock	100 yd ³
PT-B-2400	0+00 – 41+00	2" minus crushed rock	100 yd ³
PT-B-3000	0+00 – 42+60	2" minus crushed rock	100 yd ³

6-73 ROCK FOR WIDENED PORTIONS

Purchaser shall apply rock to turnarounds, turnouts, and areas with curve widening to the same depth and specifications as the traveled way.

6-76 DRY WEATHER ROCK COMPACTION

On the following roads, The Contract Administrator may require the application of water to facilitate compaction of the rock surfacing. The method of water application is subject to approval by the Contract Administrator.

6-78 ROCK FOR SPOT PATCHING

Rock for spot patching shall be applied before any grading is done and before any rock lifts are applied. Once applied, spot patches shall be graded into the existing running surface.

SECTION 7 – STRUCTURES

SUBSECTION STREAM CROSSING STRUCTURES GENERAL

7-5 STRUCTURE DEBRIS

Purchaser shall not allow debris from the installation or removal of structures to enter any stream. Components removed from existing structure(s) must be removed from state land or, as directed in writing, by the Contract Administrator. Purchaser shall maintain a clean jobsite, with all materials stored away from the high water mark or other area presenting a risk of the materials entering a stream. Debris entering any stream must be removed immediately, and placed in the site(s) designated for stockpiling or disposal. Purchaser shall retrieve all material carried downstream from the jobsite.

7-6 STREAM CROSSING INSTALLATION

Purchaser shall install stream crossing structures in accordance with the manufacturer's requirements, and as directed by the District Engineer or their designee.

7-7 BANK PROTECTION FOR STREAM CROSSING STRUCTURES

Purchaser shall design and construct bank protection to prevent the undermining of the structure.

SUBSECTION LARGE CULVERTS

7-55 LARGE CULVERT INSTALLATION

Purchaser shall provide and install large culverts in accordance with the Typical Large Culvert Detail. Culvert designs must meet or exceed the following specifications:

<u>Road</u>	<u>PT-B-3200</u>
<u>Station</u>	1+60
<u>Type</u>	Round
<u>Material and Coating Type*</u>	Aluminized Steel
<u>Diameter (ft.)</u>	5.5
<u>Length (ft.)</u>	50
<u>Depth of Cover Material (ft.)</u>	9.5
<u>End design</u>	1.5:1 Miter halfway up
<u>Corrugations</u>	3" x 1" or 5" x 1"
<u>Gauge</u>	12 gauge

* See Clause 10-15 CORRUGATED STEEL CULVERT for culvert specifications.

7-56 STEEL PIPE, PIPE ARCH, AND STRUCTURAL PLATE INSTALLATION

Purchaser shall install steel pipe, pipe arches, and structural plate culverts in accordance with the National Corrugated Steel Pipe Association "Installation Manual for Corrugated Steel Pipe, Pipe Arches, and Structural Plate." Installation is subject to the inspection and approval of the Contract Administrator before placement and backfill. The latest edition of the NCSA Installation Manual can be found at www.ncspa.org.

7-57 CULVERT SHAPE CONTROL

Purchaser shall monitor the culvert shape during backfill and compaction. Special attention must be paid to maintaining the structure's rise dimensions, concentricity, and smooth uniform curvature. If compaction methods are resulting in peaking or deflection of the culvert, Purchaser shall modify the compaction method to achieve the appropriate end result.

SUBSECTION GATE CLOSURE

7-70 GATE CLOSURE

On the following road(s), Purchaser shall keep gates closed and locked except during periods of haul. All gates that remain open during haul must be locked or securely fastened in the open position. All gates must be closed at termination of use.

<u>Road</u>	<u>Station</u>
PT-B-1020	1+90
PT-B-2000	3+50

SUBSECTION GATES AND FENCES

7-75 GATE MAINTENANCE

Purchaser shall conduct gate maintenance as listed. Purchaser shall remove all old gate material from state land before the termination of the contract.

<u>Road</u>	<u>Station</u>	<u>Requirements</u>
PT-B-1020	1+90	Grease all lubrication points.
PT-B-2000	3+50	Gate shall be painted Safety Yellow color using high gloss alkyd enamel paint. Prior to painting, surfaces shall be prepared by cleaning, sanding and removing all loose rust and paint. All surfaces shall be dry at the time of painting. Two coats of paint shall be applied, using the procedures described in the product instructions, with a minimum of eight hours drying time between coats.

SECTION 8 – EROSION CONTROL

8-2 PROTECTION FOR EXPOSED SOIL

Purchaser shall provide and evenly spread a 3-inch layer of straw or hay to all exposed soils at culvert installations within 100 feet of a stream or wetland. Soils must be covered before the first anticipated storm event. Soils may not sit exposed during any rain event.

SUBSECTION REVEGETATION

8-15 REVEGETATION

Purchaser shall spread grass seed and straw and/or hay mulch on all exposed soils including, but not limited to, stream culverts, waste areas, sidecast pullback areas, stream crossing removals, bridge installations, and other areas directed by the Contract Administrator. Revegetation of exposed soils shall be accomplished by manual dispersal of grass seed unless otherwise detailed in this Road Plan. Other methods of covering must be approved in writing by the Contract Administrator.

8-16 REVEGETATION SUPPLY

The Purchaser shall provide the all seed, mulch, straw and/or hay, matting etc..

8-17 REVEGETATION TIMING

Purchaser shall revegetate during the first available opportunity. Soils may not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator. Soils shall not be allowed to sit exposed during any rain event.

8-18 PROTECTION FOR SEED

Purchaser shall provide a protective cover over the revegetated area. The protective cover may consist of but not be limited to, such items as dispersed straw and/or hay mulch 3" thick or jute matting. Seed must be covered before the first anticipated storm event.

8-19 ASSURANCE FOR SEEDED AREA

Purchaser shall ensure the growth of a uniform and dense crop (at least 50% coverage) of 3-inch tall grass. Contractor shall reapply the grass seed and/or straw and/or hay mulch in areas that have failed to germinate or have been damaged through any cause, restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the grass seed and/or straw and/or hay mulch at no addition cost to the state.

SUBSECTION SEED, FERTILIZER, AND MULCH

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soil inside the grubbing limits at a rate of 60 pounds per acre of exposed soil. Grass seed must meet the following specifications:

1. Weed seed may not exceed 0.5% by weight.
2. All seed species must have a minimum 90% germination rate, unless otherwise specified.
3. Seed must be certified.

4. Seed must be furnished in standard containers showing the following information:
 - a. Common name of seed
 - b. Net weight
 - c. Percent of purity
 - d. Percentage of germination
 - e. Percentage of weed seed and inert material
5. Seed must conform to the following mixture unless a comparable mix is approved in writing by the Contract Administrator.

<u>Kind and Variety of Seed in Mixture</u>	<u>% by Weight</u>	<u>Minimum % germination</u>
Perennial Rye	35-45	90
Red Fescue	30-40	90
Highland Bent	5-15	85
White Clover	10-20	90
Inert and Other Crop	0.5	

SECTION 9 – POST-HAUL ROAD WORK

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

Purchaser shall perform post-haul maintenance in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS and as specified below.

<u>Road</u>	<u>Stations</u>	<u>Additional Requirements</u>
All	All	Clean culverts, clean ditches, grade road shape and compact as directed by the Contract Administrator.
FS-2850/ Woods Rd.	MP 1.62 – 5.4 (85+50 – 285+15)	Apply post haul rock per Clause 6-72.
PT-B-1000	0+00 – 22+45	
PT-B-2000	0+00 – 84+55	
PT-B-2400	0+00 – 41+00	
PT-B-3000	0+00 – 42+60	

SUBSECTION POST-HAUL LANDING MAINTENANCE

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface as approved in writing by the Contract Administrator.

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

SECTION 10 MATERIALS

SUBSECTION GEOTEXTILES

10-2 GEOTEXTILE FOR SEPARATION

Geotextiles must meet the following minimum requirements for strength and property qualities, and must be designed by the manufacturer to be used for separation. Material must be free of defects, cuts, and tears.

	<u>ASTM Test</u>	<u>Requirements</u>
Type	--	Non-woven
Apparent opening size	D 4751	No. 30 max
Water permittivity	D 4491	0.02 sec ⁻¹
Grab tensile strength	D 4632	160 lb
Grab tensile elongation	D 4632	>= 50%
Puncture strength	D 6241	310 lb
Tear strength	D 4533	50 lb
Ultraviolet stability	D 4355	50% retained after 500 hours of exposure

10-3 GEOTEXTILE FOR STABILIZATION

Geotextiles must meet the following minimum requirements for strength and property qualities, and must be designed by the manufacturer to be used for stabilization or reinforcement, and filtration. Material must be free of defects, cuts, and tears.

	<u>ASTM Test</u>	<u>Requirements</u>
Type	--	Woven
Apparent opening size	D 4751	No. 40 max
Water permittivity	D 4491	0.10 sec ⁻¹
Grab tensile strength	D 4632	315 lb
Grab tensile elongation	D 4632	<50%
Puncture strength	D 6241	620 lb
Tear strength	D 4533	112 lb
Ultraviolet stability	D 4355	50% retained after 500 hours of exposure

10-6 GEOTEXTILE FOR TEMPORARY SILT FENCE

Geotextiles must meet the following minimum requirements for strength and property qualities, and must be designed by the manufacturer to be used for filtration. Woven slit-film geotextiles are not allowed. Material must be free of defects, cuts, and tears.

	<u>ASTM Test</u>	<u>Requirements</u>
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Type	--	Unsupported between posts
Apparent opening size	D 4751	No. 30 max., No. 100 min.
Water permittivity	D 4491	0.02 sec ⁻¹
Grab tensile strength	D 4632	180 lb in machine direction, 100lb in cross-machine direction
Grab tensile elongation	D 4632	30% max. at 180 lb or more
Ultraviolet stability	D 4355	70% retained after 500 hours of exposure

SUBSECTION CULVERTS

10-15 CORRUGATED STEEL CULVERT

Metallic coated steel culverts must meet AASHTO M-36 (ASTM A-760) specifications. Culverts must be aluminized (aluminum type 2 coated meeting AASHTO M-274).

10-17 CORRUGATED PLASTIC CULVERT

Polyethylene culverts must meet AASHTO M-294 specifications, or ASTM F-2648 specifications for recycled polyethylene. Culverts must be Type S – double walled with a corrugated exterior and smooth interior.

10-21 METAL BAND

Metal coupling and end bands must meet the AASHTO specification designated for the culvert and must have matching corrugations. Culverts 24 inches and smaller must have bands with a minimum width of 12 inches. Culverts over 24 inches must have bands with a minimum width of 24 inches.

10-22 PLASTIC BAND

Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used. Couplings must be split coupling band. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe joint.

10-23 RUBBER CULVERT GASKETS

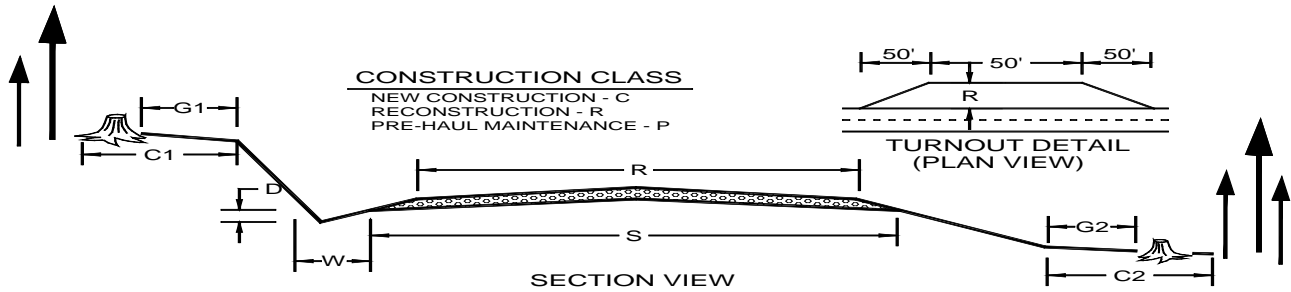
Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands.

10-24 GAUGE AND CORRUGATION

Unless otherwise stated in the design, metal culverts must conform to the following specifications for gage and corrugation as a function of diameter.

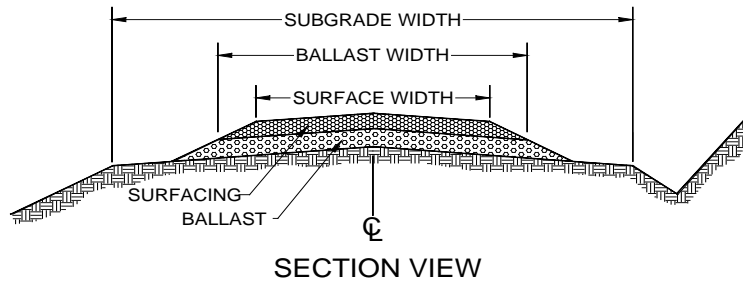
<u>Diameter</u>	<u>Gauge</u>	<u>Corrugation</u>
18"	16 (0.064")	2 ² / ₃ " X 1/2"
24" to 48"	14 (0.079")	2 ² / ₃ " X 1/2"
54" to 96"	12 (0.109")	3" X 1" or 5" x 1"

TYPICAL SECTION SHEET



ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	TOLERANCE CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	CROWN AT CL (in)	DITCH WIDTH (W)	DITCH DEPTH (D)	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (C1)	ROAD FILL CLEARING (C2)
FS-2850/ Woods Rd.	85+50 / 1.62 MP	483+15/ 9.15 MP	P			14'	3"	3'	1'				
PT-B-1000	0+00	22+45	P			12'	3"	3'	1'				
PT-B-1000 Tie	0+00	1+35	P			12'	3"	3'	1'				
PT-B-1020	0+00	4+10	P			12'	3"	3'	1'				
PT-B-2000	0+00	84+55	P			12'	3"	3'	1'				
PT-B-2000 Wye	0+00	4+55	P			12'	3"	3'	1'				
PT-B-2100	0+00	7+15	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-2100.1	0+00	8+40	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-2200.1	0+00	2+70	R	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
0+70 Spur	0+00	0+70	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
0+65 Spur	0+00	0+65	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
0+66 Spur	0+00	0+66	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
1+25 Spur	0+00	1+25	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-2400	0+00	41+00	P			12'	3"	3'	1'				
PT-B-2410	0+00	7+80	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-2411	0+00	1+40	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-2430	0+00	7+80	P			12'	3"	3'	1'				
PT-B-2440	0+00	4+90	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-3000	0+00	42+60	P			12'	3"	3'	1'				
PT-B-3100	0+00	9+50	R	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
0+95 Spur	0+00	0+95	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-3200	0+00	10+10	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
PT-B-3300	0+00	5+95	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'
1+70 Spur	0+00	1+70	C	C	17'	12'	3"	3'	1'	5'	5'	10'	5'

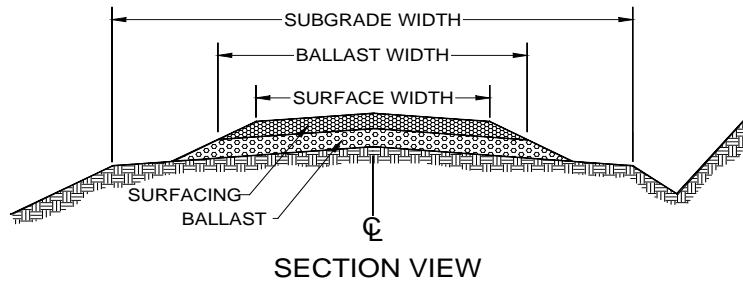
ROCK LIST SHEET



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6. Rock sources= 1: Jimmy Come Lately 6" Jaw run Rock, 2: Jimmy Come Lately 2" minus crushed rock, 3: Jimmy Come Lately Light Loose Rip Rap, sources may be acquired from a commercial source upon approval from Contract Administrator

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd ³ /sta)	Pitrun SUBTOTAL(yd ³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd ³ /sta)	Crushed Subtotal(yd ³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd ³)
FS-2850/ Woods Rd.															
Misc.	MP 1.62/ 88+50	MP 5.4/ 285+15							2				200		
Post Haul	88+50	285+15							2				200		
PT-B-1000															
Misc.	0+00	22+45							2				50		
Post Haul	0+00	22+45							2				100		
PT-B-2000															
Misc.	0+00	71+40							2				100		
Landing	21+40			1			50								
Lift	71+40	84+55							2	12	6	35	460		
Spot Patch	74+00			1			20								
Lift	77+00	77+50	19	1	13	18	110	60							
Culvert Install	77+25								2				20		
Culvert Install	82+10								2				20		
Post Haul	0+00	84+55							2				100		
PT-B-2000 Wye															
Lift	0+00	4+55							2	12	6	35	160		
Totals:								1: 130					2: 1410		3: 0

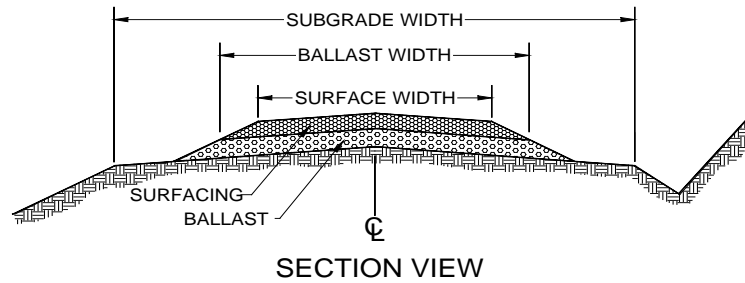
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PT-B-2100															
Lift	0+00	7+15	17	1	13	12	70	500	2	12	6	35	250		
Culvert Install	3+65								2				20		
Turnaround	5+15			1				50							
Landing	7+15			1				50							
PT-B-2100.1															
Lift	0+00	8+40	17	1	13	12	70	590	2	12	6	35	290		
Culvert Install	0+70								2				20		
Landing	2+95			1				50							
Turnaround	7+20			1				50							
Culvert Install	7+70								2				20		
Landing	8+40			1				50							
PT-B-2200.1															
Lift	0+00	2+70	17	1	13	12	70	190	2	12	6	35	100		
Landing	2+70			1				50							
0+70 Spur															
Lift	0+00	0+70	17	1	13	12	70	50	2	12	6	35	20		
Culvert Install	0+10								2				20		
Landing	0+70			1				50							
Totals:								1: 1680					2: 740		3: 0

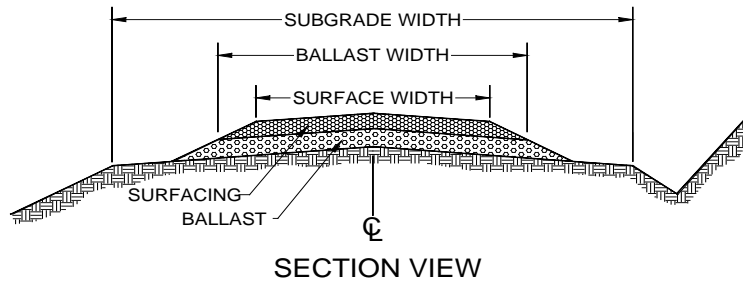
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0+65 Spur															
Lift	0+00	0+65	17	1	13	12	70	50	2	12	6	35	20		
Culvert Install	0+10								2				20		
Landing	0+65			1				50							
0+66 Spur															
Lift	0+00	0+65	17	1	13	12	70	50	2	12	6	35	20		
Culvert Install	0+10								2				20		
Landing	0+66			1				50							
1+25 Spur															
Lift	0+00	1+25	17	1	13	12	70	90	2	12	6	35	40		
Culvert Install	0+10								2				20		
Landing	1+25			1				50							
PT-B-2400															
Misc.	0+00	41+00							2				50		
Landing	5+15			1				50							
Post Haul	0+00	41+00							2				100		
PT-B-2410															
Lift	0+00	7+80	17	1	13	12	70	550	2	12	6	35	270		
Culvert Install	0+10								2				20		
Turnout	4+80			1				35							
Totals:								1: 975					2: 580		3:0

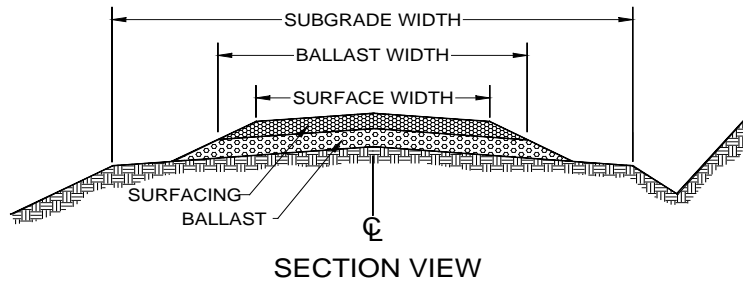
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PT-B-2410 Cont.															
Landing	7+80			1				50							
PT-B-2411															
Lift	0+00	1+40	17	1	13	12	70	100	2	12	6	35	50		
Landing	1+40			1				50							
PT-B-2430															
Lift	0+00	7+80							2	12	6	35	270		
Turnaround	6+35			1				50							
Landing	7+80			1				50							
PT-B-2440															
Lift	0+00	4+90	17	1	13	12	70	340	2	12	6	35	170		
Culvert Install	2+60								2				20		
Turnaround	3+00			1				50							
Culvert Install	3+70								2				20		
Landing	4+90			1				50							
PT-B-3000															
Misc.	0+00	42+60							2				50		
Culvert Install	22+00								2				20		
Post Haul	0+00	42+60							2				100		
Totals:								1: 740					2: 700		3: 0

ROCK LIST SHEET CONTINUED



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ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd ³ /sta)	Pitrun SUBTOTAL(yd ³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity(yd ³ /sta)	Crushed Subtotal(yd ³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd ³)
PT-B-3100															
Lift	0+00	9+50	17	1	13	12	70	670	2	12	6	35	330		
Culvert Install	4+00								2				20		
Culvert Install	7+25								2				20		
Turnout	8+45			1				35							
Landing	9+50			1				50							
0+95 Spur															
Lift	0+00	0+95	17	1	13	12	70	70	2	12	6	35	40		
Landing	0+95			1				50							
PT-B-3200															
Lift	0+00	6+75	17	1	13	12	70	470	2	12	6	35	240		
Culvert Install	1+65			1				400	2				20	3	20
Culvert Install	3+00								2				20		
Landing	6+75			1				50							
Lift	6+75	10+10	17	1	13	12	70	230	2	12	6	35	120		
Culvert Install	7+50								2				20		
Landing	10+10			1				50							
Totals:								1: 2075					2: 830		3: 20

CULVERT LIST

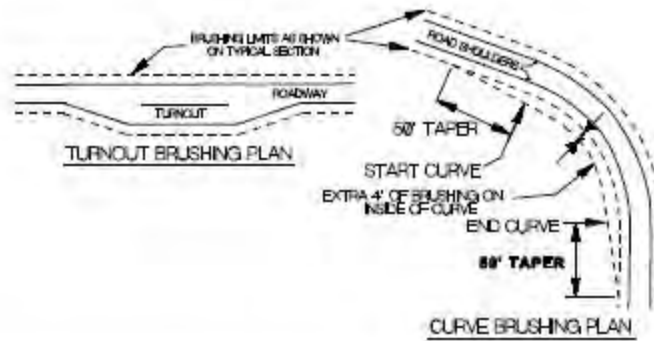
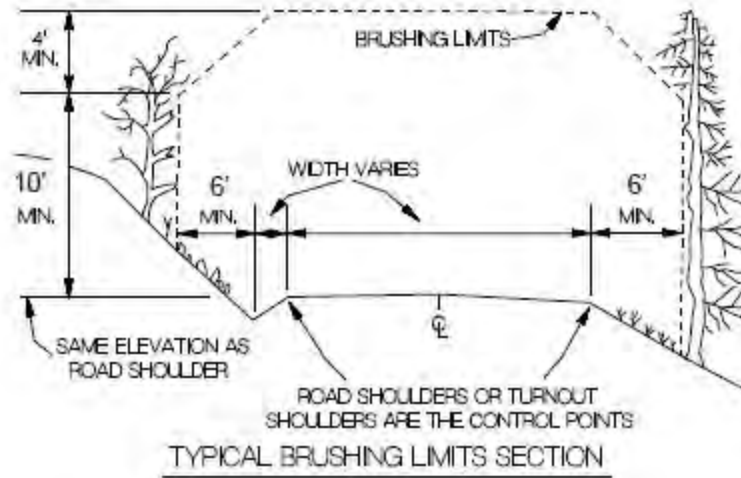
ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)		RIP RAP - INLET (cy)	RIP RAP - OUTLET (cy)	BACKFILL MATERIAL	NOTES
PT-B-2000	77+25	24	30					CR	Culvert Install*
PT-B-2000	82+10	18	30					CR	Culvert Install
PT-B-2100	3+65	18	30					CR	Culvert Install
PT-B-2100.1	0+75	18	30					CR	Culvert Install
PT-B-2100.1	7+70	18	30					CR	Culvert Install
0+70 Spur	0+10	18	40					CR	Culvert Install
0+65 Spur	0+10	18	40					CR	Culvert Install
0+66 Spur	0+10	18	40					CR	Culvert Install
1+25 Spur	0+10	18	40					CR	Culvert Install
PT-B-2410	0+10	18	40					CR	Culvert Install
PT-B-2430	2+60	18							Clean Inlet and Outlet
PT-B-2440	2+60	18	30					CR	Culvert Install
PT-B-2440	3+70	18	30					CR	Culvert Install
PT-B-3000	22+00	18	40					CR	Culvert Install
PT-B-3100	4+00	18	30					CR	Culvert Install
PT-B-3100	7+25	18	30					CR	Culvert Install
PT-B-3200	1+65	66	50			10	10	CR	Culvert Install FPA ID: C1, Inlet Armoring with Light Loose Rip Rap*
PT-B-3200	3+00	18	30					CR	Culvert Install
PT-B-3200	7+50	18	30					CR	Culvert Install
PT-B-3300	1+70	24	30					CR	Culvert Install*
PT-B-3300	3+40	18	30					CR	Culvert Install
Contingency Culvert		18	30						
Contingency Culvert		24	30						

All rip rap shall be Oversize unless specified in the Rock List, or in the field.
All backfill shall be native material (NT) unless specified otherwise. CR= 2"- crushed rock, PR= Pit Run Rock. * Live water

COMPACTION LIST

Road	Stations	Type	Max Depth Per Lift (inches)	Equipment Type	Minimum Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
Pre-haul	All	Culvert Backfill	8"	Jumping Jack		3	
Pre-haul	All	Rock Lifts	6"	Vibratory Smooth Drum	6,000	3	3
Pre-haul	All	Pre-haul Surface		Vibratory Smooth Drum	6,000	3	3
Construction	All	Subgrade (Except Puncheon)	6"	Vibratory Smooth Drum	6,000	2	3
Construction	All	Culvert Backfill	8"	Jumping Jack		3	
Construction	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3
Reconstruction	All	Subgrade (Except Puncheon)	6"	Vibratory Smooth Drum	6,000	2	3
Reconstruction	All	Culvert Backfill	8"	Jumping Jack		3	
Reconstruction	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3
Post-haul Maintenance	All	Rock Placement	6"	Vibratory Smooth Drum	6,000	2	3

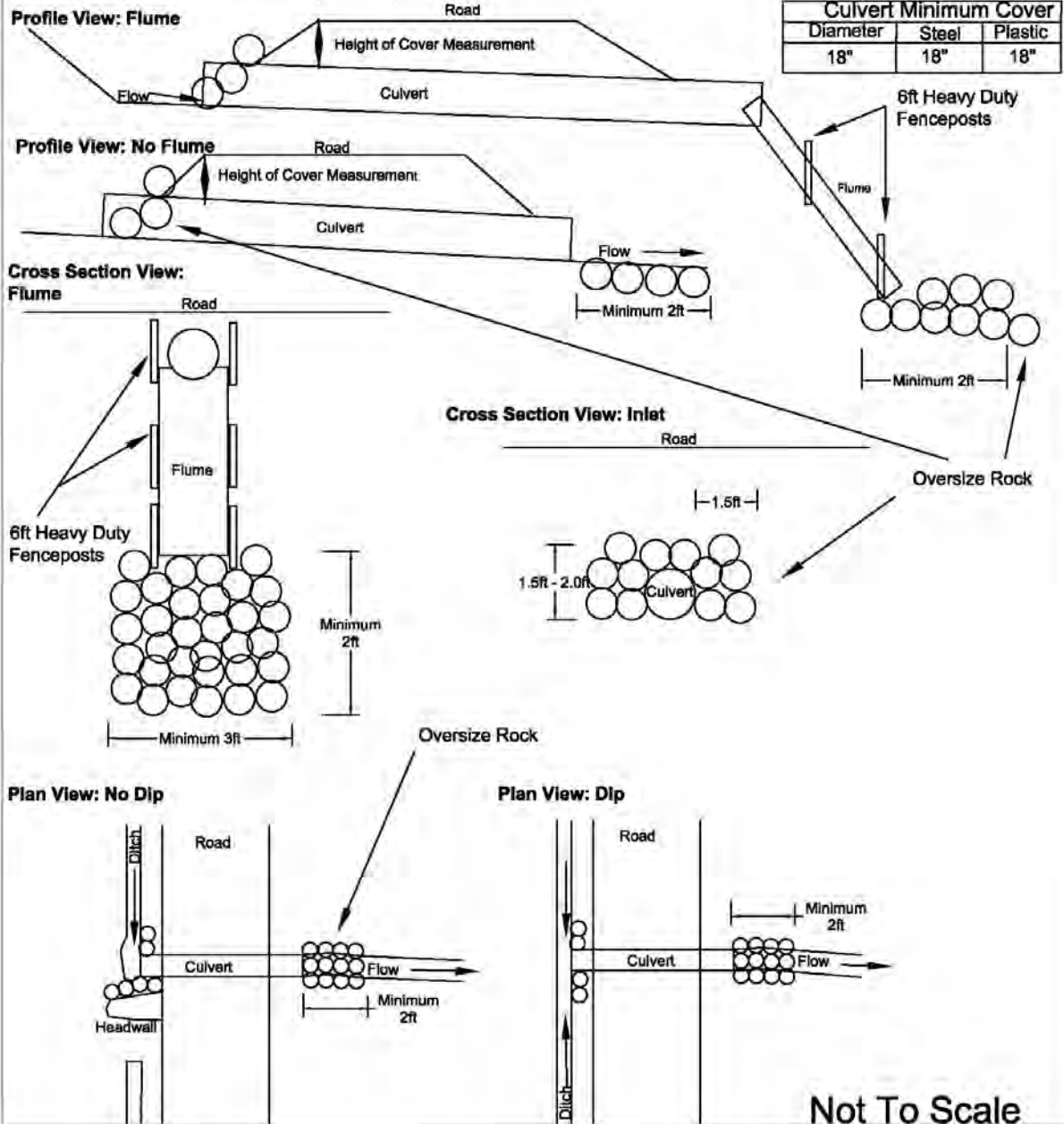
BRUSHING DETAIL



1. All vegetation within the brushing limits shall be cut to within 3 inches of the ground, unless otherwise directed by the Contract Administrator
2. All brush, trees, limbs, etc. shall be removed from the road surface, cut banks, culvert inlets/outlets, and ditch lines
3. All debris that may roll or move into the ditch line shall be removed and placed in a stable location

Typical Cross Drain Culvert Installation Detail Sheet

- Culvert lay shall not exceed 10%.
- Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.
- Oversize shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.
- Oversize shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume oversize shall be placed at the outlet as an energy dissipater as specified in this Detail. All oversize distance to be determined by the Contract Administrator.
- Backfill compaction for installations on existing roads shall be achieved using a jumping jack, or plate compactor on lifts not to exceed 8in. 3 complete passes per lift is required for compaction. Backfill shall be placed and compacted evenly on both sides of the culvert. Care shall be taken to ensure adequate compaction of backfill material under the haunches of the pipe. Excavation trench width shall be at least culvert diameter plus at least the width of the compactor footprint used.



Typical Type Ns, Np Culvert Installation Detail Sheet.

-Water shall be diverted away from the work site before any "in stream" work begins, and shall continue until culvert installation is complete.

-Culvert lay shall match stream gradient up to 5%.

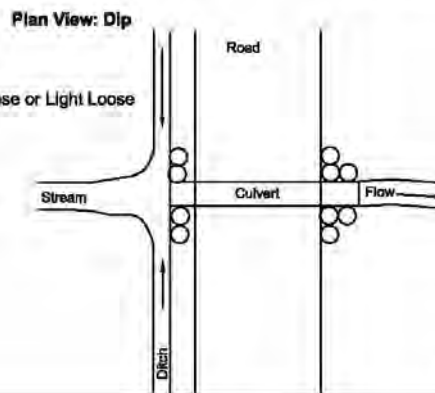
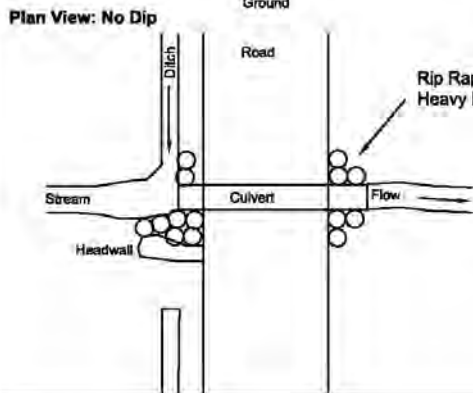
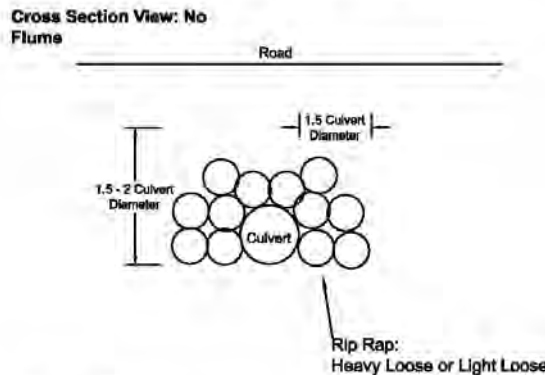
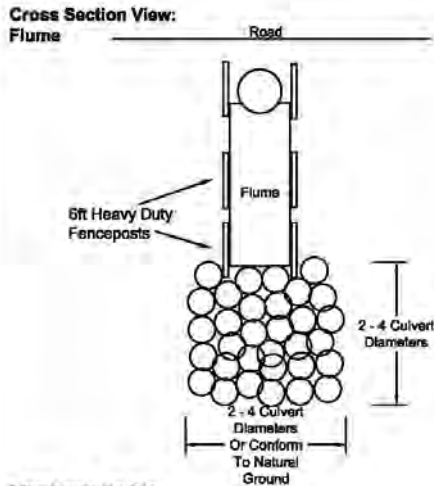
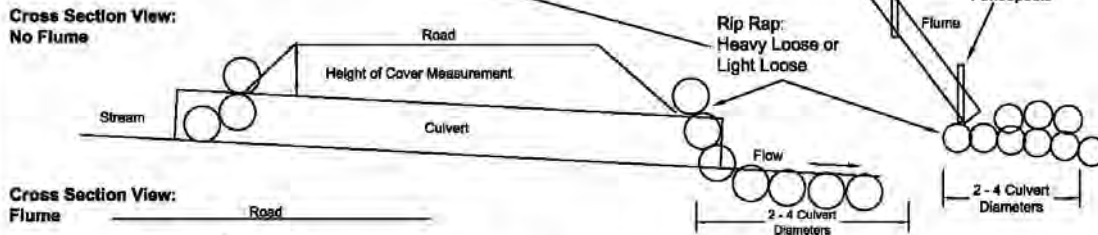
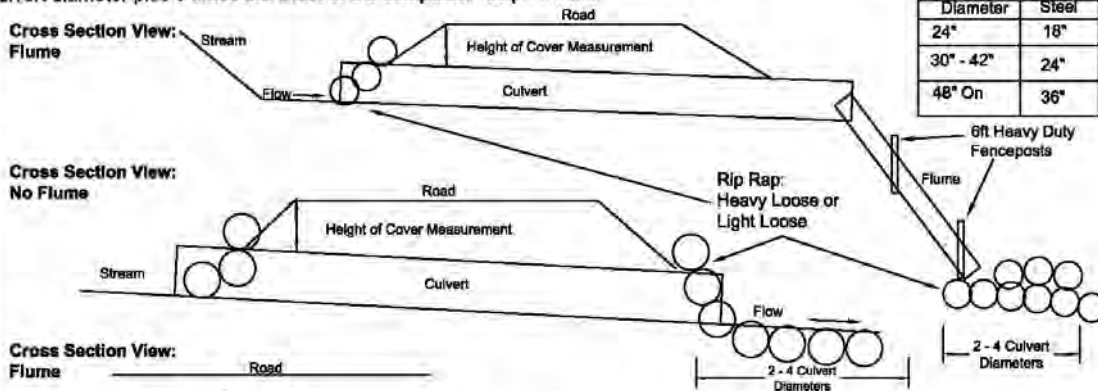
-Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.

-Rip rap shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.

-Rip rap shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume rip rap shall be placed along the fill at the outlet, unless there is stream drop or it is called for in the Road Plan, at which point it will be installed as an energy dissipater at the end of the culvert as specified in this Detail. All rip rap distance to be determined by the Contract Administrator or the District Engineer.

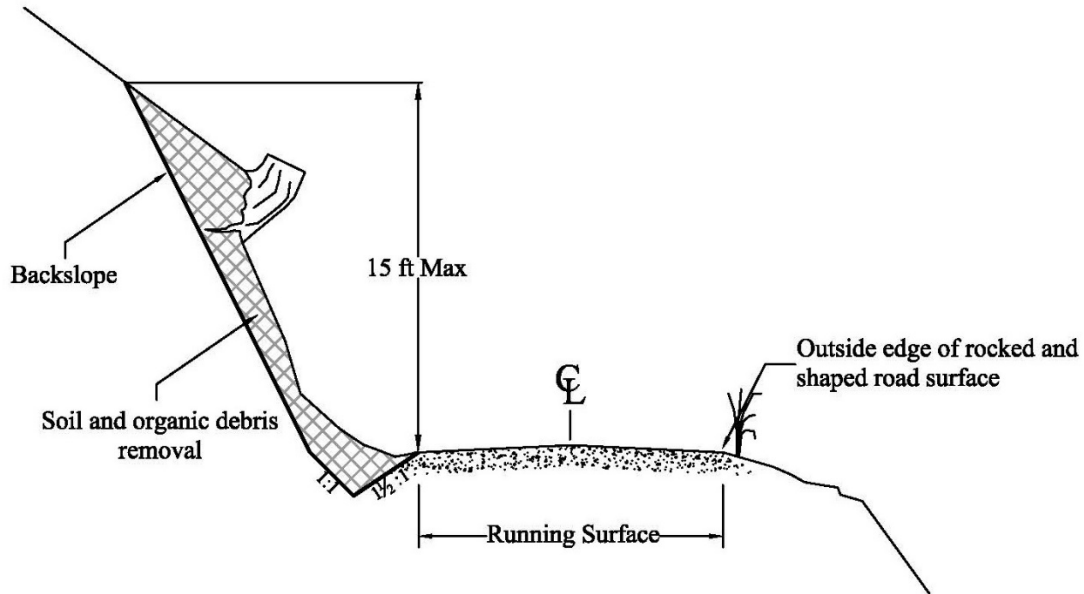
-Backfill compaction shall be achieved using a jumping jack, walk behind vibratory roller, or plate compactor on lifts not to exceed 8in. 3 complete passes per lift is required for compaction. Backfill shall be placed and compacted evenly on both sides of the culvert. Care shall be taken to ensure adequate compaction of backfill material under the haunches of the pipe. Excavation french width shall be at least culvert diameter plus 3 times the width of the compactor footprint used.

Culvert Diameter	Culvert Minimum Cover	
	Steel	Plastic
24"	18"	24"
30" - 42"	24"	24"
48" On	36"	36"



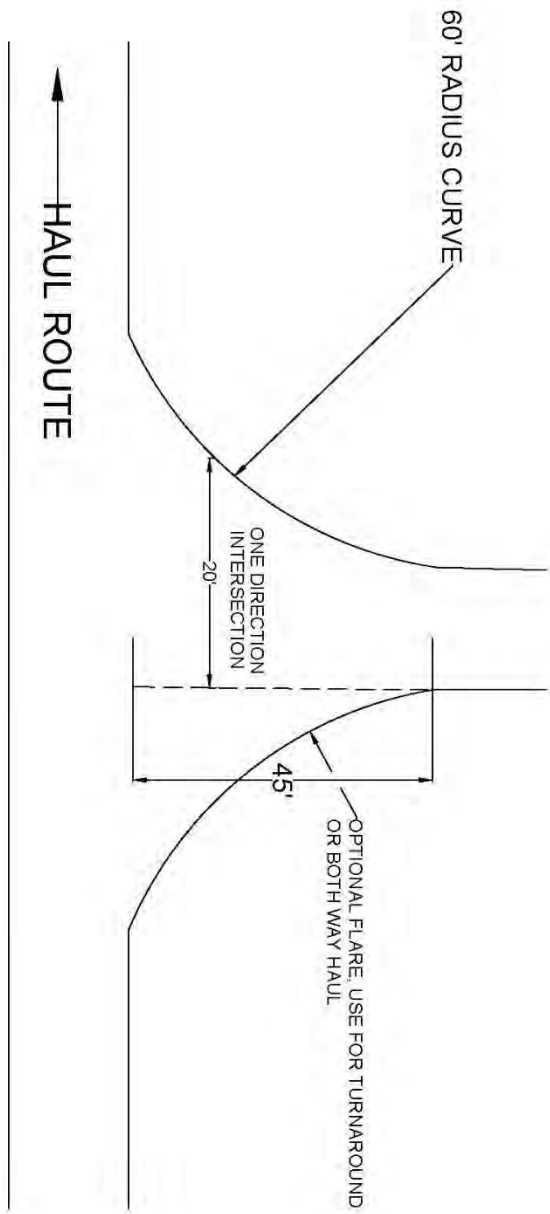
Not To Scale

Ditch Cleaning Detail



1. The backslope shall be no steeper than $\frac{1}{2}:1$, unless the material is hardpan or solid rock, in which case it may be $\frac{1}{4}:1$.
2. If there is sufficient width for the ditch without affecting the cut bank, than removing bank material is not required.
3. Bank material above the ditch shall be removed to a maximum height of 15 feet, if needed to meet the requirements of this detail.
4. If there is insufficient width to clean or construct a ditch without disturbing more than 15 vertical feet of bank, the Contract Administrator may authorize changes to this plan in order to still meet the intent of having a ditch, while staying within the excavation limits already set.
5. Ditch cleaning or construction shall not shrink the running surface of the road.

TYPICAL INTERSECTION

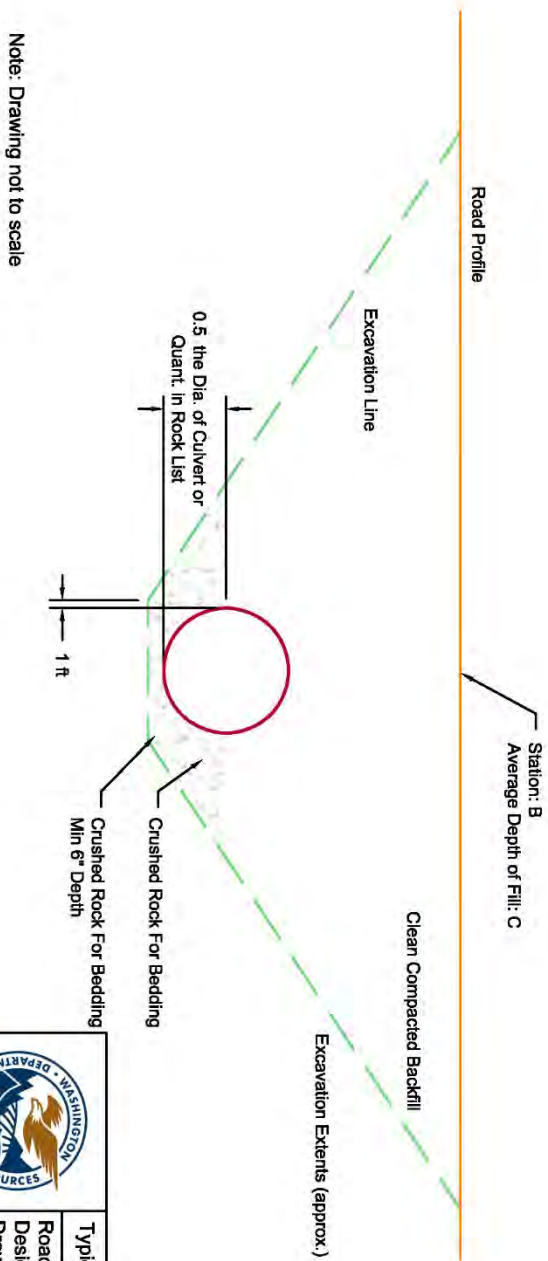


NOT TO SCALE

TYPICAL LARGE CULVERT INSTALL

A	B	C	D	E
Road Name	Station	Avg. Fill Depth (ft)	Size of Pipe (in)	Length of Pipe (ft)
PT-B-3200	1+65	9.5	66	50

PROFILE - CENTERLINE OF ROAD
LOOKING UPSTREAM



Note: Drawing not to scale



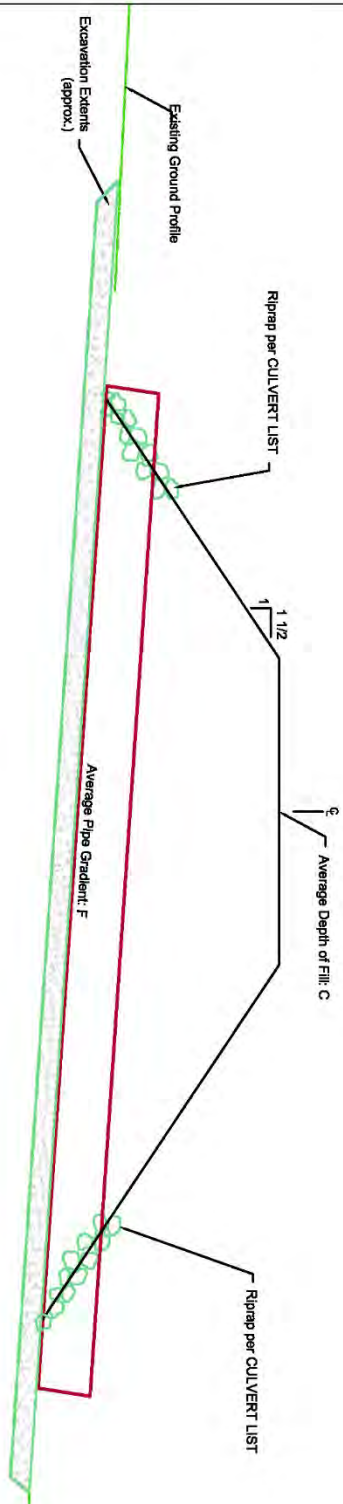
Typical Large Culvert Detail
 Road Profile View
 Designed By: G. Ellis
 Drawn By: G. Ellis
 Date: 2/28/2023
 Sheet 1 of 2

TYPICAL LARGE CULVERT INSTALL

A	B	C	D	E	F	G
Road Name	Station	Avg. Fill Depth (ft)	Size of Pipe (in)	Length of Pipe (ft)	Avg. Pipe Gradient (%)	Stream Type
PT-B-3200	1+65	9.5	66	50	8.5	4

Note:
1) Crown at centerline not shown

PROFILE - CENTERLINE OF CULVERT



Note: Drawing not to Scale

	Typical Large Culvert Detail
	Stream Profile View Designed By: G. Ellis Drawn By: G. Ellis Date: 2/28/2023 Sheet 2 of 2

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
OLYMPIC REGION

INFORMATIONAL BLASTING PLAN

Timber Sale/Project Name: _____ App./Project No.: _____

1. Blaster-in-Charge: Name: _____
Company: _____
Address: _____

Telephone: _____
2. Quarry Name/Location: _____
3. Total Estimated Cubic Yards in Blast (loose): _____
4. Hole Spacing: _____
5. Burden: _____
6. Hole Diameter: _____
7. Hole Depth: _____
8. Sub Drill: _____
9. Number of Holes: _____
10. Stemming Depth: _____
11. Explosive (mfg., name, density, %, V.O.D.): _____

12. Type and Size of Primer (if applicable): _____
13. Total Weight of Primers for Shot: _____
14. Calculated Powder Factor/Cubic Yard: _____
15. Number of Delays (in M.S.): _____

16. Number of Holes Fired on Each Delay: _____

17. Total Amount of Explosives Fired on Each Delay: _____

18. Type of Blasting Machine: _____

19. Date, Start Drilling: _____
20. Date and Time, Start Loading: _____
21. Date and Time of Blast (approx.): _____

22. Detail drawing of delay system (show hole pattern and delays in milliseconds). Attach additional sheets if required:

23. Typical cross-section of hole (show primer, main charge, sub drill, and stemming):

23. Submitted by: _____ Date: _____

24. Received by: _____ Date: _____

Note: Attach copies of manufacturer=s data sheet(s) for explosive and caps.

**Jimmy Come Lately Pit
Pit Use Requirements
Sec. 29, T.29N., R.02W.**

1. Pit expansion shall commence in after Contract Administrator approval of Contractors Rock Source Development Plan in accordance with Clause 6-11.
2. Activity restrictions per Clause 1-25.
3. Only the quantities and sorts specified in this road plan for this sale may be used or manufactured, unless otherwise approved by the Contract Administrator in writing.
4. Maintain drainage of the pit floor and all drainage structures within the pit boundaries. The pit floor shall have continuity of slope be left in a smooth and neat condition, providing drainage to the southwest at a minimum of 2 percent. All knobs, bumps, or extrusions shall be removed to the designated floor level by excavation or drill and shoot techniques.
5. Excavated face height shall not exceed 20 feet and shall be sloped no steeper than 1/4:1.
6. Excavated slopes shall have a 1 1/2:1 backslope or less at the completion of operations.
7. A minimum 4 foot high berm shall be constructed and constantly maintained along the upper edge of excavated pit faces. No pit faces shall be left unblocked at any time.
8. All operations shall be completed prior to the end of each operating season, including but not limited to: drainage maintenance, sloping of the excavated face, and construction of berms, unless otherwise approved in writing by the Contract Administrator.
9. At the end of operations, pit faces and walls shall be scaled and cleared of loose and overhanging material, benches shall have safety berms constructed or access blocked to highway vehicles. Upon completion of operations in the pit, the area will be left in a condition that will not endanger public safety, damage property, or be hazardous to animal or human life. The Purchaser shall use Light Loose Rip Rap to block the drill trail.
10. All material shall remain the property of the State.
11. At the conclusion of operations, Purchaser shall ask the Contract Administrator for written approval of the final rock source condition and compliance with the terms of this plan.
12. All work shall be conducted according to relevant specifications in this Road Plan, and the Contract Administrator.
13. All operations shall be carried out in compliance with the regulation of:
 - a. Regulations and Standards Applicable to "Metal and Nonmetal Mining and Milling Operations" (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration
14. Purchaser shall give the Contract Administrator a minimum of 7 days notice prior to commencing any operations.
15. Purchaser is require to inform Clallam County Dispatch (PenCom) of a day and approximate time of the pit blasting.

SALENAME: Upper Salmon		CONTRACT#: 30-103770		SUMMARY - Road Development Costs		REGION: Olympic	DISTRICT: Straits										
LEGAL DESCRIPTION: 0												TOTAL SHEET #2-4					
ROAD NAME		B-2100	B-2100.1	0+70 Spur	0+65 Spur	0+66 Spur	1+25 Spur	B-2410	B-2411	B-2440	0+95 Spur	B-3200	TOTAL:				
ROAD TYPE:	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction	Construction					
NUMBER OF STATIONS:	7.15	8.40	0.70	0.65	0.66	1.25	7.80	1.40	4.90	0.95	10.10	43.96	899.76				
SIDESLOPE:	10%	25%	10%	10%	10%	10%	25%	10%	15%	20%	25%	1.70%	50%				
CLEARING AND GRUBBING:	\$1,084	\$1,168	\$97	\$90	\$92	\$174	\$1,183	\$212	\$681	\$132	\$1,405	\$6,319	\$1,333				
ROAD BRUSHING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,511				
EXCAVATION AND FILL:	\$1,212	\$2,136	\$119	\$110	\$112	\$212	\$1,983	\$237	\$969	\$215	\$2,568	\$9,872	\$2,123				
ROAD GRADING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,799				
DITCH CLEANING/CONSTRUCTION:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,773				
ROCK TOTALS (Cl. Yds./ROCK COSTS):																	
Ballast:	6268	6,270	600	740	100	100	140	635	150	440	120	1,200	4,323	1,945			
Surface:	4568	4,570	270	330	40	40	60	290	50	210	40	420	1,789	2,779			
Oversize:	20	20	0	0	0	0	0	0	0	0	0	20	20	0			
CULVERTS AND FULMES:	\$924	\$1,848	\$1,232	\$1,232	\$1,232	\$1,232	\$1,232	\$1,232	\$0	\$2,464	\$0	\$12,677	\$24,073	\$9,129			
STRUCTURES:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$725				
MISC. EXPENSES:	\$42	\$69	\$4	\$4	\$4	\$7	\$46	\$8	\$29	\$6	\$36	\$54	\$8,999				
OVERHEAD:	\$1,541	\$2,005	\$336	\$342	\$347	\$477	\$1,900	\$372	\$1,419	\$284	\$3,988	\$13,011	\$10,353				
TOTAL COSTS:	\$30,797	\$27,064	\$4,536	\$4,612	\$4,687	\$6,441	\$25,656	\$5,021	\$19,156	\$3,838	\$53,844	\$175,652	\$126,180				
COST PER STATION:	\$2,909	\$3,222	\$6,480	\$7,095	\$7,101	\$5,153	\$3,289	\$3,587	\$3,909	\$4,040	\$5,331	\$3,996	\$40,269,938				
MOBILIZATION:			\$15,800														
ROAD DEACTIVATION AND ABANDONMENT COSTS:			\$0														
Pt Work			\$15,000														
NOTE: This appraisal has no allowance for profit and risk.																	
Sheet 1 of 3																	
Plans to be furnished by:	G. Ellis																

SUMMARY - Road Development Costs													
SALE NAME:	Upper Salmon	CONTRACT#:	30-103770	REGION:	Olympic	DISTRICT:	Straits						
LEGAL DESCRIPTION:	0												
ROAD NAME:	B-3300	1+70 Spur	B-2200.1	B-3100	FS 2850	B-1000	B-1000 Tie	B-1020	B-2000	-2000 W y	B-2400	B-2430	B-3000
ROAD TYPE:		Construction	Recon.	Recon.	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul
NUMBER OF STATIONS:	5.95	1.70	2.70	9.50	199.65	22.45	1.35	4.10	84.55	4.55	41.00	7.80	42.60
SIDESLOPE:	15%	15%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CLEARING AND GRUBBING:	\$828	\$236	\$269	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROAD BRUSHING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,522	\$82	\$0	\$140	\$767
EXCAVATION AND FILL:	\$1,177	\$336	\$610	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROAD GRADING:	\$0	\$0	\$18	\$62	\$1,298	\$146	\$9	\$27	\$550	\$30	\$267	\$51	\$277
DITCH CLEANING/CONSTRUCTION:	\$0	\$0	\$105	\$371	\$0	\$0	\$0	\$0	\$3,297	\$0	\$0	\$0	\$0
ROCK TOTALS (Cu. Yds.)/ROCK COSTS:													
Ballast:	500	170	240	755	0	0	0	0	130	0	50	100	0
	\$10,055	\$3,429	\$3,158	\$8,758	\$0	\$0	\$0	\$0	\$2,542	\$0	\$1,006	\$2,050	\$0
Surface:	250	60	100	370	200	50	0	0	600	160	50	270	70
	\$5,038	\$1,200	\$1,309	\$4,271	\$3,794	\$837	\$0	\$0	\$11,730	\$2,933	\$1,006	\$5,535	\$1,380
Oversize:	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CULVERTS AND FLUMES:	\$2,016	\$0	\$0	\$1,848	\$0	\$0	\$0	\$0	\$2,016	\$0	\$0	\$0	\$3,248
STRUCTURES:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$725	\$0	\$0	\$0	\$0
MISC. EXPENSES:	\$35	\$10	\$279	\$980	\$1,168	\$131	\$8	\$24	\$1,796	\$469	\$240	\$849	\$249
OVERHEAD:	\$1,532	\$417	\$517	\$1,466	\$563	\$100	\$2	\$5	\$2,176	\$316	\$227	\$776	\$533
TOTAL COSTS:	\$20,680	\$5,628	\$6,266	\$17,756	\$6,823	\$1,214	\$18	\$55	\$26,354	\$3,830	\$2,744	\$9,401	\$6,455
COST PER STATION:	\$3,476	\$3,311	\$2,321	\$1,869	\$34	\$4	\$13	\$13	\$312	\$842	\$67	\$1,205	\$152

		SUMMARY - Road Developer											
SALE NAME:	Upper Salmon	CONTRACT#:	30-103770	REGION:	Olympic	DISTRICT:	Straits						
LEGAL DESCRIPTION	0												
ROAD NAME:	FS 2850	B-1000	3-1000 Tr	B-1020	B-2000	3-2000 W y	B-2100	B-2100.1	B-2200.1	0+70 Spur	0+65 Spur	0+66 Spur	1+25 Spur
ROAD TYPE:	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul
NUMBER OF STATIONS:	199.65	22.45	1.35	4.10	84.55	4.55	7.15	8.40	2.70	0.70	0.65	0.66	1.25
SIDESLOPE:	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CLEARING AND GRUBBING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROAD BRUSHING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EXCAVATION AND FILL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROAD GRADING:	\$1,298	\$146	\$9	\$27	\$550	\$30	\$46	\$55	\$18	\$5	\$4	\$4	\$8
DITCHING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROCK TOTALS (Cu. Yds.)/ROCK COSTS:													
Ballast:	0	0	0	0	0	0	0	0	0	0	0	0	0
Surface:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Oversize:	200	100	0	0	100	0	0	0	0	0	0	0	0
	\$3,794	\$1,673	\$0	\$0	\$1,955	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CULVERTS AND FLUMES:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STRUCTURES:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MISC. EXPENSES:	\$1,168	\$131	\$8	\$24	\$495	\$27	\$42	\$49	\$16	\$4	\$4	\$4	\$7
OVERHEAD:	\$626	\$195	\$2	\$5	\$300	\$6	\$9	\$10	\$3	\$1	\$1	\$1	\$2
TOTAL COSTS:	\$6,886	\$2,145	\$18	\$56	\$3,299	\$62	\$97	\$114	\$37	\$10	\$9	\$9	\$17
COST PER STATION:	\$34	\$96	\$14	\$14	\$39	\$14	\$14	\$14	\$14	\$14	\$14	\$14	\$14

		SUMMARY - Road Development Costs											
SALE NAME	Upper Salmon	CONTRACT#:	30-103770	REGION:	Olympic	DISTRICT: Straits							
LEGAL DESCRIPTION	0												
ROAD NAME:	B-2400	B-2410	B-2411	B-2430	B-2440	B-3000	B-3100	0+95 Spur	B-3200	B-3300	1+70 Spur	0	0
ROAD TYPE:	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul	Posthaul
NUMBER OF STATIONS:	41.00	7.80	1.40	7.80	4.90	42.60	9.50	0.95	10.10	5.95	1.70	0.00	0.00
SIDE SLOPE:	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CLEARING AND GRUBBING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROAD BRUSHING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EXCAVATION AND FILL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROAD GRADING:	\$267	\$51	\$9	\$51	\$32	\$277	\$62	\$6	\$66	\$39	\$11	\$0	\$0
DITCHING:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROCK TOTALS (Cu. Yds.)	ROCK COSTS:												
Ballast:	2429	0	0	0	0	0	0	0	0	0	0	0	0
Surface:	50	100	0	0	0	100	0	0	0	0	0	0	0
Oversize:	0	\$2,011	\$0	\$0	\$0	\$1,972	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CULVERTS AND FLUMES:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STRUCTURES:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MISC. EXPENSES:	\$240	\$46	\$8	\$46	\$29	\$249	\$56	\$6	\$59	\$35	\$10	\$0	\$0
OVERHEAD:	\$252	\$10	\$2	\$10	\$6	\$250	\$12	\$1	\$12	\$7	\$2	\$0	\$0
TOTAL COSTS:	\$2,769	\$106	\$19	\$106	\$67	\$2,748	\$129	\$13	\$137	\$81	\$23	\$0	\$0
COST PER STATION:	\$68	\$14	\$14	\$14	\$14	\$65	\$14	\$14	\$14	\$14	\$14	#DIV/0!	#DIV/0!

Forest Access Road Maintenance Specifications

Cuts and Fills

- Maintain slope lines to a stable gradient compatible with the cut slope/fill slope ratios. Remove slides from ditches and the roadway. Repair fill-failures , in accordance with Clause 4-6 EMBANKMENT SLOPE RATIO, with selected material or material approved by the Contract Administrator. Remove overhanging material from the top of cut slopes.
- Waste material from slides or other sources shall be placed and compacted in stable locations identified in the road plan or approved by the Contract Administrator, so that sediment will not deliver to any streams or wetlands.
- Slide material and debris shall not be mixed into the road surface materials, unless approved by the Contract Administrator.

Surface

- Grade, shape and compact the road surface, turnouts, and shoulders to the original shape on the TYPICAL SECTION SHEET to provide a smooth, rut-free traveled surface and maintain surface water runoff in an even, unconcentrated manner.
- Blading shall not undercut the backslope or cut into geotextile fabric on the road.
- If required by the Contract Administrator, water shall be applied as necessary to control dust and retain fine surface rock.
- Surface material shall not be bladed off the roadway. Replace surface material when lost or worn away , or as directed by the Contract Administrator.
- Remove shoulder berms, created by grading, to facilitate drainage, except as marked or directed by the Contract Administrator.
- For roads with geotextile fabric: spread surface aggregate to fill in soft spots and wheel ruts (barrel spread) to prevent damage to the geotextile fabric.

Drainage

- Prevent silt bearing road surface and ditch runoff from delivering sediment to any streams or wetlands.
- Maintain rolling dips and drivable waterbars as needed to keep them functioning as intended.
- Maintain headwalls to the road shoulder level with material that will resist erosion.
- Maintain energy dissipaters at culvert outlets with non-erodible material or rock.
- Keep ditches, culverts, and other drainage structures clear of obstructions and functioning as intended.
- Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This shall be done even during periods of inactivity.

Forest Access Road Maintenance Specifications

Preventative Maintenance

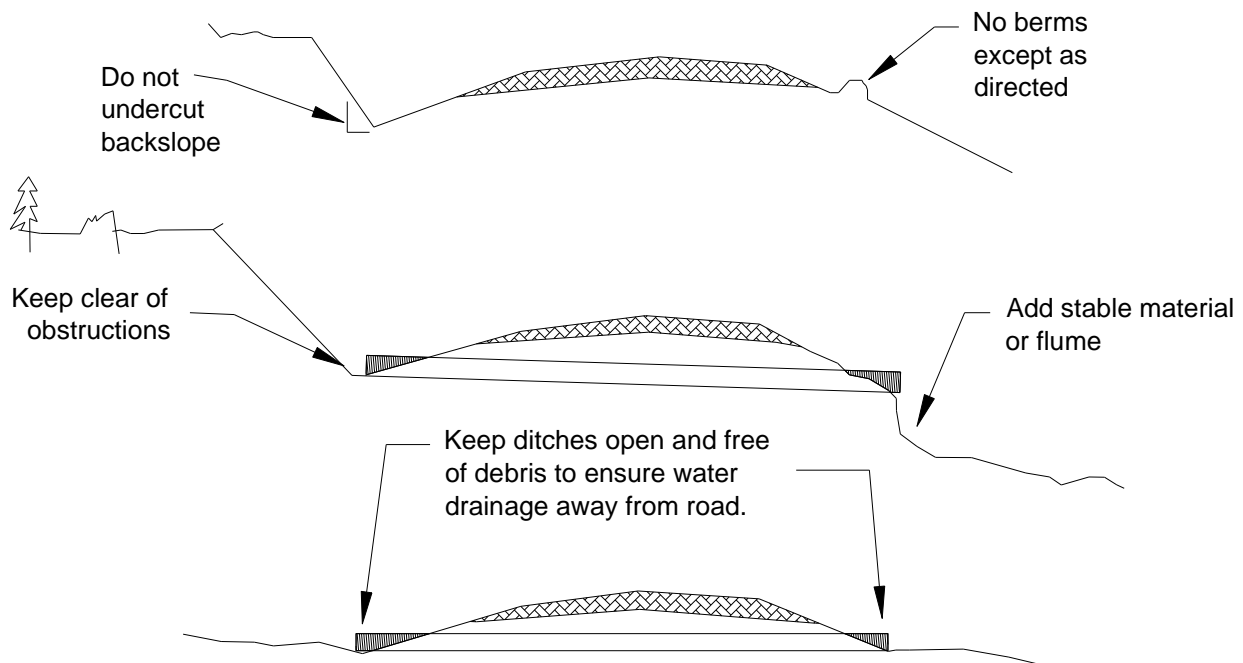
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

- At the conclusion of logging operations, ensure all conditions of these specifications have been met.

Debris

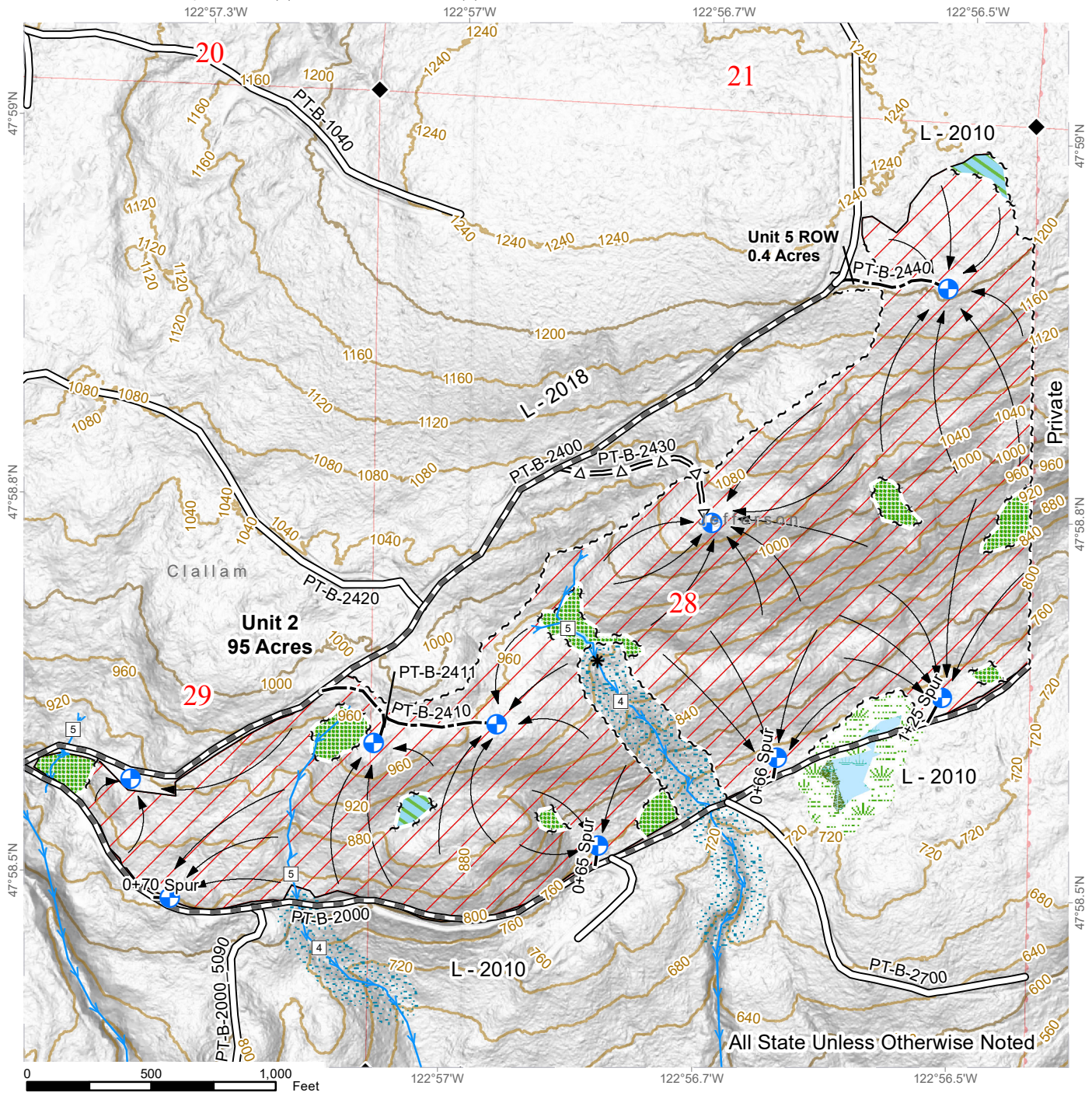
- Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



LOGGING PLAN MAP

SALE NAME: UPPER SALMON CREEK
AGREEMENT#: 30-103770
TOWNSHIP(S): T29R2W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam, Jefferson
ELEVATION RGE: 760-1600



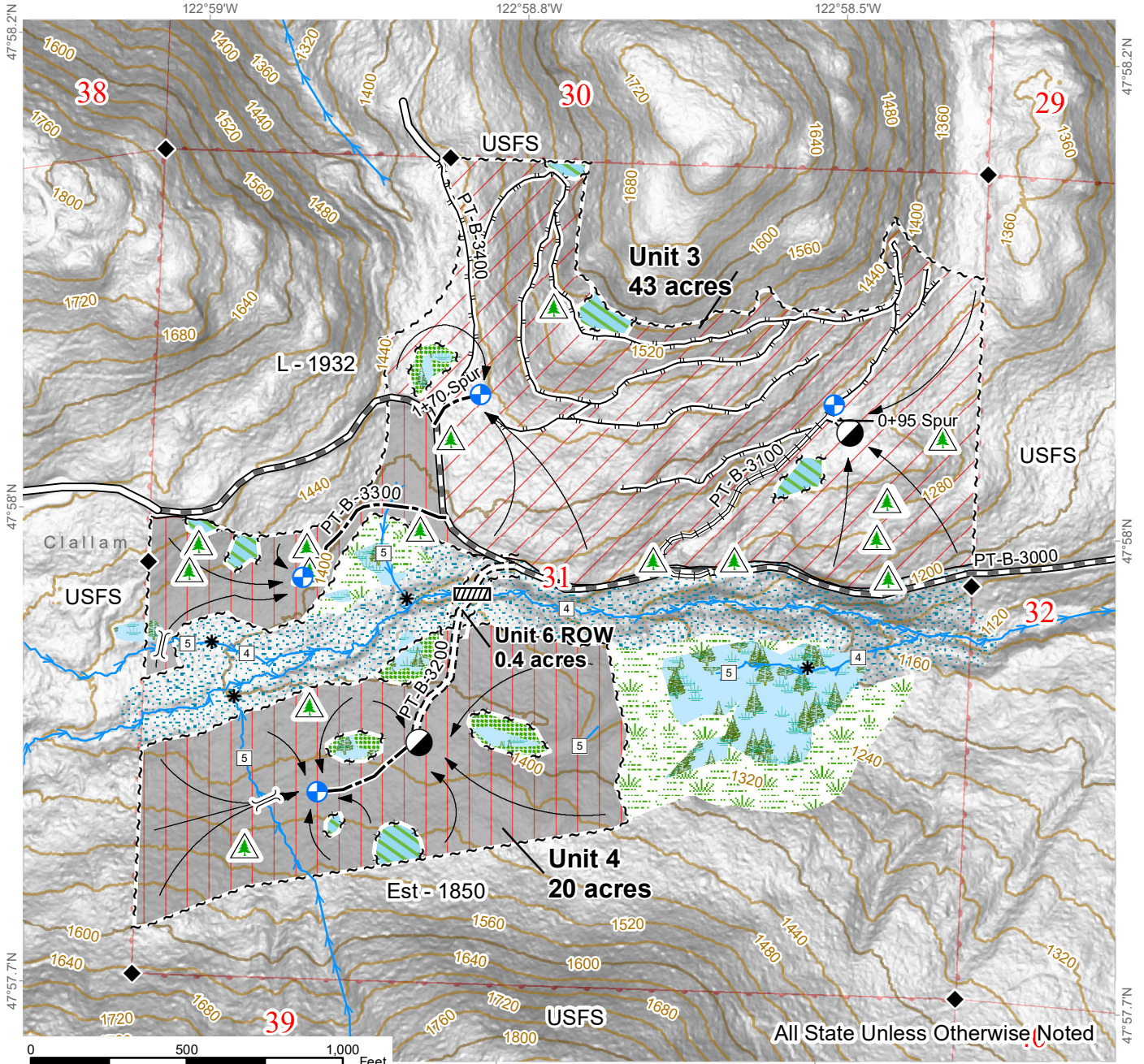
Ground	Landing - Proposed	Wetland Mgt Zone	Contours 40 ft
Ground Harvest	Survey Monument	Stream Type	Contours 200 ft
Sale Boundary Tags	Non-Tradeable Leave Clump	Optional Construction	
Timber Type Change	Forested Wetland	Optional Pre-Haul	
Leave Tree Tags	Leave Tree Area	Required Pre-Haul	
Right of Way Tags	Riparian Mgt Zone	Sections	
Streams		Townships	
		DNR Managed Lands	



LOGGING PLAN MAP

SALE NAME: UPPER SALMON CREEK
AGREEMENT#: 30-103770
TOWNSHIP(S): T29R2W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam, Jefferson
ELEVATION RGE: 760-1600



	Ground		Stream Type Break		Required Pre-Haul
	Shovel Only		Culvert		Required Reconstruction
	Seasonal Restriction		Designated Crossing		Designated Skid Trail
	Ground Harvest		Designated Landing		Non-Tradeable Leave Clump
	Sale Boundary Tags		Landing - Proposed		Forested Wetland
	Timber Type Change		Non-Tradeable Leave Trees		Leave Tree Area
	Leave Tree Tags		Survey Monument		Riparian Mgt Zone
	Right of Way Tags		Existing Roads		Wetland Mgt Zone
	Streams		Optional Construction		
	Stream Type		Required Construction		



1:6,000