TIMBER NOTICE OF SALE

SALE NAME: RHONE  AGREEMENT NO: 30-101101

AUCTION:  February 22, 2022 starting at 10:00 a.m.,  COUNTY:  Thurston
South Puget Sound Region Office, Enumclaw, WA

SALE LOCATION:  Sale located approximately 8 miles southwest of Littlerock.

PRODUCTS SOLD AND SALE AREA:  All timber, except leave trees bounded out by yellow leave tree area tags, trees marked with blue paint, snags, and down timber existing more than 5 years from the day of sale, bounded by the following: white Timber Sale Boundary tags and the E-6000 and E-6200 roads in Unit #1; white Timber Sale Boundary tags, and the E-6000, and E-6050 roads in Unit #2; white Timber Sale Boundary tags in Unit #3;

All timber bounded by orange right of way tags in Unit #4.

All forest products above located on part(s) of Sections 17 and 18 all in Township 16 North, Range 3 West, W.M., containing 118 acres, more or less.

CERTIFICATION:  This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: PwC-SFIFM-513)

ESTIMATED SALE VOLUMES AND QUALITY:

<table>
<thead>
<tr>
<th>Species</th>
<th>Avg DBH</th>
<th>Ring Count</th>
<th>Total MBF</th>
<th>1P MBF</th>
<th>2P MBF</th>
<th>3P MBF</th>
<th>SM MBF</th>
<th>1S MBF</th>
<th>2S MBF</th>
<th>3S MBF</th>
<th>4S MBF</th>
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<tr>
<td>Douglas fir</td>
<td>18.1</td>
<td>4</td>
<td>2,989</td>
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<td>268</td>
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<tr>
<td>Red alder</td>
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<td>27</td>
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<td></td>
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<tr>
<td>Red cedar</td>
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<tr>
<td>Maple</td>
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<td>26</td>
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<td>17</td>
<td>5</td>
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<tr>
<td>Hemlock</td>
<td>19.1</td>
<td>15</td>
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<td>7</td>
<td>6</td>
<td>2</td>
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<tr>
<td>Sale Total</td>
<td></td>
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<td>3,128</td>
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MINIMUM BID:  $1,138,000.00  BID METHOD:  Sealed Bids

PERFORMANCE SECURITY:  $100,000.00  SALE TYPE:  Lump Sum

EXPIRATION DATE:  October 31, 2023  ALLOCATION:  Export Restricted

BID DEPOSIT:  $113,800.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD:  Harvesting activities are estimated to be 100 percent ground based harvest. Tracked ground based equipment with non-tethered self-leveling shovels limited to sustained slopes 65 percent or less, all other tracked equipment limited to sustained slopes that are 45 percent or less, except tracked skidders allowed for pole removal only. Yarding may be restricted during wet weather if rutting becomes excessive, per clause H-017.

ROADS:  40.50 stations of required construction. 28.75 stations of optional construction. 10.68 stations of required prehaul maintenance. 28.75 stations of abandonment, if constructed. Purchaser maintenance on the E-6200, E-6220, E-6060, E-6050, E-6001, and the E-6000
TIMBER NOTICE OF SALE

from the junctions of E-6200 to the E-6070. Designated maintenance on all other roads used.

Rock for this proposal may be obtained from the State owned Scott Paper Quarry at no cost to the Purchaser or any commercial rock source at the Purchaser's expense.

The operation of road construction equipment is not allowed from November 1 to April 30, nor on weekends or State recognized holidays, unless authority to do so is granted, in writing, by the Contract Administrator. If permission is granted to operate from November 1 to April 30, a maintenance plan is required per Road Plan clause 1-26.

The hauling of forest products will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator. If permission is granted to operate from November 1 to April 30, preventative measures may be required to protect water, soil, roads and other forest assets.

ACREAGE DETERMINATION

CRUISE METHOD: Acreage was determined by traversing boundaries by GPS in all units. GPS data files are available at DNR's website for timber sale auction packets. See cruise narrative for cruise method.

FEES: $53,176.00 is due on day of sale. $9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: See map for gate locations. Gate keys may be obtained by contacting the South Puget Sound Region office at (360) 825-1631 or by contacting the Tumwater work center at (360) 280-3113.

Purchaser shall cut all hardwood stems greater than 2 inches dbh within all harvest units, leaving a stump no more than 12 inches in height.

Six trees in the Unit #4 ROW have been marked with double bands of red paint and the letter "D" that need to be cut and placed as downed woody debris in the adjacent wetlands (3 in each) as part of a WMZ mitigation.

No operations are allowed within the non-tradeable leave tree area in Unit #1.

Pit development plan includes mandatory reduction and use of oversized material in areas ‘A’, ‘B’, and ‘C’ before further development shall proceed. Oversize material in pile ‘A’ will stop once the elevation of the pile is reduced to the level of the E-6800-1 road.

For the safety of the public, please remove from roads and trails all string from string boxes used during appraising or cruising this sale.
Driving Directions:

From I-5 (exit 95): Turn west onto Maytown Rd SW for 2.8 miles. Continue straight onto Littlerock Rd SW for 0.1 miles. Continue straight onto 128th Ave SE for 0.8 miles. Turn left onto Mima Rd SW for 1.3 miles. Turn right onto Bordeaux Rd SW for 1.5 miles. Bordeaux becomes the E-line for an additional 2.1 miles. Then turn left to stay on E-line (Indicator A end of pavement).

Units: From indicator A stay on E-line for 1.5 miles then turn right onto E-6000 for 0.9 miles. Unit 3 is not directly accessible by road until after new construction. Walk in from E-6240 or E-6000.

Quarry: From indicator A stay on E-line for 0.3 miles then turn left onto E-6800 for 1.5 miles.

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**SALE NAME:** RHONE  
**AGREEMENT #:** 30-101101  
**TOWNSHIP(S):** T16R3W  
**TRUST(S):** Charitable/Educational/Penal & Reformatory Instit. (6), Common School and Indemnity (3), Escheat (9), University - Original (11)  
**REGION:** South Puget Sound Region  
**COUNTRY(S):** Thurston  
**ELEVATION RANGE:** 200-680
STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-101101

SALE NAME: RHONE

THE STATE OF WASHINGTON DEPARTMENT OF NATURAL
RESOURCES, HEREAFTER 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 February 22, 2022 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 leave trees bounded out by yellow leave tree area tags, trees marked with blue paint, snags, and down timber existing more than 5 years from the day of sale, bounded by the following: white Timber Sale Boundary tags and the E-6000 and E-6200 roads in Unit #1; white Timber Sale Boundary tags, and the E-6000, and E-6050 roads in Unit #2; white Timber Sale Boundary tags in Unit #3;

All forest products above located on approximately 118 acres on part(s) of Sections 17, and 18 all in Township 16 North, Range 3 West W.M. in Thurston 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 not 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-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2023.

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 $1,134.00 per acre per annum for the acres on which an operating release has not been issued in the harvest area.

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-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-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.
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 Purchaser's expense regardless of cost, to remedy deficiencies at any time.

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 Enumclaw, 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; the E-line, E-line Tie, E-6800, E-6800-1, E-6000, E-6001, E-6200, E-6220, E-6050, and E-6060 roads. 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 E-Line, E-6000, E-6050, E-6200, E-6800, or E-6800-1 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 #55-000753 entered into between the State of Washington Department of Natural Resources and Mason County Logging Company, dated April 13, 1942.

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.

G-450 Encumbrances

This contract and Purchaser’s activities are subject to the following:
Lease, including the terms and provisions thereof,
For: Land Use License
In Favor of: Washington Department of Fish & Wildlife
Disclosed by Application No.: 60-095576
Granted: 5/2/2017
Expires: 6/30/2022

Region Encumbrances

Lease, including the terms and provisions thereof,
For: Minor Forest Products
In Favor of: DNR- South Puget Sound Region
Disclosed by Application No.: 35-SPSTC01
Granted: 1/1/2015
Expires: Indefinite

Lease, including the terms and provisions thereof,
For: Land Use License
In Favor of: Indiana University
Disclosed by Application No.: 60-WS1186
Granted: 10/1/2021
Expires: 12/31/2021

Special Notations

Located within the Medicine Creek Treaty area. Intergovernmental agreements for vehicle access with Squaxin Island Tribe (92-095269), Puyallup Tribe (92-095272), Muckleshoot Tribe (92-095267), and Nisqually Indian Tribe (92-097198).

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 $81,328.00. The total contract price consists of a $0.00 contract bid price plus $81,328.00 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-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-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 the sale area. The plan shall address the felling, yarding, landing locations, skid trail locations, and slash management, 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 tracked ground based equipment with non-tethered self-leveling shovels limited to sustained slopes 65 percent or less, all other tracked equipment limited to sustained slopes that are 45 percent or less, except tracked skidders allowed for pole removal only. 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.

H-130 Hauling Schedule

The hauling of forest products will not be permitted 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:

a. Existing downed trees or logs dead for more than 5 years yarded to the landing shall be returned to their original locations.

b. Equipment limitation zones are required within 30 feet of Type 5 streams.

c. Any and all operations associated with this sale may be temporarily suspended when, in the opinion of the Contract Administrator, there is the potential for delivery to typed water.

d. All 6 trees marked with double bands of red paint and the letter “D” within Unit 4 ROW must be felled and placed into the wetlands (3 on each side of the E-6220 road) as directed by Contract Administrator in association with the WMZ mitigation for the E-6220 road construction.
e. No equipment shall operate, or trees felled or damaged, outside the timber sale boundary. With the exception of placing the 6 trees into the wetlands as required above.

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

g. Within shovel logging areas, the shovel operator shall break up concentrations of logging debris greater than 11.5 feet by 11.5 feet.

h. Skid Trails

- Purchaser shall take measures throughout operations to control soil erosion, water channelization, and prevent sediment delivery to streams or wetlands. Methods may include construction of water bars, “sweeping” with logs, silt traps, or other measures on skid trails, yarding corridors and haul roads.
- Purchaser shall not have more than two skid trails open to active skidding at any one time.
- Skid trail closure shall occur immediately upon completion of yarding all tributary timber. Closure shall consist of creating plantable spots at approximately 11.5 foot by 11.5 foot spacing to facilitate reforestation and creating water bars or other methods as directed by the Contract Administrator to prevent water accumulation and sediment movement.
- In the event operations become inactive for long periods of time, skid trails shall be water barred prior to completion of yarding tributary timber to prevent water accumulation and sediment movement, if required by the Contract Administrator.
- Once a skid trail is closed, the Purchaser shall not reopen a skid trail unless approved in writing by the Contract Administrator.

i. Designated haul roads have been designed to allow for the transport of poles 60 feet in length or less. If the Purchaser chooses to remove poles greater than 60 feet in length, a haul plan must be submitted in writing to the Contract Administrator, which details the desired haul route, additional reconstruction needs, and mitigation for damage, which is a result of hauling oversize material. If approved in writing by the Contract Administrator, all work shall be at the Purchaser’s expense.

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

H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

a. Purchaser shall leave 2 down logs per acre. A log is defined as having a minimum diameter of 12 inches on the small end of the log and a minimum length of 20 feet or at least 100 board feet.
b. Areas restricting operations due to protection of potentially unstable slopes are located within a non-tradeable leave tree area in Unit #1. No trees shall be cut nor equipment allowed within this leave tree area.

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.

H-250 Additional Falling Requirements

Within all harvest units, all hardwood stems greater than 2 inches dbh, shall be felled. Remaining stump shall be no more than 12 inches in height. Areas of young or immature timber may be excluded from this requirement 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 4/12/2021 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on the E-6200, E-6220, E-6060, E-6050, E-6001, and the E-6000 from the junctions of E-6200 to the E-6070. 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 all other roads used not covered 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-080 Landing Locations Approved Prior to Construction

Landings shall be marked by Purchaser and approved by the Contract Administrator prior to construction.
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-030 Landing Debris Clean Up

Landing debris shall be disposed of in a manner approved in writing by the Contract Administrator.

S-035 Logging Debris Clean Up

Slash and debris created from harvest activities shall be treated in a manner approved in writing 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 Type 5 streams 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 Riparian or Wetland Management Zones with the exception of accessing and performing work on the E-6220 unless authority is granted in writing by the Contract Administrator.

S-120 Stream Protection

No timber shall be felled into, across, or yarded through Type 3 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

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 all units.

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 Scott Sargent
_________________________
Print Name South Puget Sound Region Manager

Date: ___________________ Date: ________________
Address:
CORPORATE ACKNOWLEDGEMENT
(Required for both LLC and Inc. Entities)

STATE OF ______________________________
CITY 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 _______________
WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: South Puget Sound
Timber Sale Name: Rhone
Application Number: 30-101101

**EXCISE TAX APPLICABLE ACTIVITIES**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Linear Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>4,050</td>
</tr>
<tr>
<td>Reconstruction</td>
<td>0</td>
</tr>
<tr>
<td>Abandonment</td>
<td>0</td>
</tr>
<tr>
<td>Decommission</td>
<td>0</td>
</tr>
<tr>
<td>Pre-Haul Maintenance</td>
<td>1,068</td>
</tr>
</tbody>
</table>

**EXCISE TAX EXEMPT ACTIVITIES**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Linear Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary Construction</td>
<td>2,875</td>
</tr>
<tr>
<td>Temporary Reconstruction</td>
<td>0</td>
</tr>
</tbody>
</table>

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:** Rhone  
**Region:** South Puget Sound

**Agreement #:** 30-101101  
**District:** Black Hills

**Contact Forester:** Derwood Duncan III  
**Phone/Location:** (360) 280-3113 Ext: /

**Alternate Contact:** Andrew Reed  
**Phone/Location:** (360) 481-9597 Ext: /

**Type of Sale (lump sum, mbf scale, tonnage scale or contract harvest):** lump sum

**Required or Optional removal of utility as pulp (for scale sales only):** N/A

**Evaluated for RFRS Implementation?:** Yes

We will not be implementing RFRS due to high risk of windfall potential.

**Percentage cable-uphill:** 0  
**Percentage cable-downhill:** 0  
**Percentage ground based:** 100

**Species Onsite:**  
RC, DF, WH, RA, BC, BLM, NF, SF, SS, Other:

---

### UNIT ACREAGES* AND METHOD OF DETERMINATION:

<table>
<thead>
<tr>
<th>Unit #</th>
<th>Harvest R/W or RMZ WMZ</th>
<th>Legal Description Sec/Twp/Rng</th>
<th>Grant</th>
<th>Gross Traversed Acres</th>
<th>RMZ/WMZ Acres</th>
<th>Leave Tree Acres</th>
<th>Existing Road Acres</th>
<th>Other Acres (describe)</th>
<th>Net Harvest Acres</th>
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</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td>Sec 18/ T 16N/ R 03 W</td>
<td>11</td>
<td>11</td>
<td>51.9</td>
<td>0</td>
<td>2.8</td>
<td>0</td>
<td>0</td>
<td>49.1</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Unit 2</td>
<td>Sec 18 &amp; 17/ T 16N/ R 03 W</td>
<td>11, 03, &amp; 06</td>
<td>34.6</td>
<td>0</td>
<td>2.4</td>
<td>2.5</td>
<td>0</td>
<td>0</td>
<td>29.7</td>
</tr>
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<tr>
<td>Unit 3</td>
<td>Sec 17/ T 16N/ R 03 W</td>
<td>03, &amp; 09</td>
<td>40.2</td>
<td>0</td>
<td>2.3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>37.9</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>R/W 4</td>
<td>Sec 17/ T 16N/ R 03 W</td>
<td>03</td>
<td>1.3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1.3</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>ACRES</strong></td>
<td></td>
<td>128.0</td>
<td>0</td>
<td>7.5</td>
<td>2.5</td>
<td>0</td>
<td>0</td>
<td>118</td>
</tr>
</tbody>
</table>

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*GPS(Garmin 64s and Trimble 6400)*

E-6000 (shape file, waypoints gathered in field)

**Acreage Determination**

(List method, dimensions and error of closure if applicable)
### Harvest Plan and Special Conditions:

<table>
<thead>
<tr>
<th>Unit #</th>
<th>Harvest Prescription: (Mark leave, take, paint color, tags, flagging etc.)</th>
<th>Special Management areas:</th>
<th>Other conditions (# leave trees, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 VRH</td>
<td>Variable Retention Harvest: Boundaries are marked with white “Timber Sale Boundary” tags and pink flagging, E-6000 and E-6200 roads. Clumped leave trees are marked with yellow “Leave Tree Area” tags with pink flagging. Single leave trees are marked with a band of blue paint.</td>
<td>N/A</td>
<td>8 Leave trees per acre</td>
</tr>
<tr>
<td>2 VRH</td>
<td>Variable Retention Harvest: Boundaries are marked with white “Timber Sale Boundary” tags with pink flagging, E-6000 and E-6050 roads. Clumped leave trees are marked with yellow “Leave Tree Area” tags with pink flagging. Single leave trees are marked with a band of blue paint.</td>
<td>N/A</td>
<td>8 Leave trees per acre</td>
</tr>
<tr>
<td>3 VRH</td>
<td>Variable Retention Harvest: Boundaries are marked with white “Timber Sale Boundary” tags with pink flagging. Clumped leave trees are marked with yellow “Leave Tree Area” tags with pink flagging. Single leave trees are marked with a band of blue paint.</td>
<td>N/A</td>
<td>8 Leave trees per acre</td>
</tr>
<tr>
<td>4 VRH</td>
<td>Right of Way: Boundaries are marked with orange “Right of Way” tags with orange flagging.</td>
<td>N/A</td>
<td>6 trees painted with double red bands and the letter “D” for WMZ mitigation which will be cut and placed in wetlands as downed woody debris.</td>
</tr>
</tbody>
</table>

### Other Pre-Cruise Information:

<table>
<thead>
<tr>
<th>Unit #</th>
<th>Estimated Volume</th>
<th>Access information (Gates, locks, etc.)</th>
<th>Photos, traverse maps required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (VRH)</td>
<td>See Cruise</td>
<td>Gate # 1344 on the E-6000 use key H957</td>
<td>Traverse maps with contours, roads and leave trees. Photo (Scale 1” to 400’)</td>
</tr>
<tr>
<td>2 (VRH)</td>
<td>See Cruise</td>
<td>Gate # 1344 on the E-6000 use key H957</td>
<td>Traverse maps with contours, roads and leave trees. Photo (Scale 1” to 400’)</td>
</tr>
<tr>
<td>3 (VRH)</td>
<td>See Cruise</td>
<td>Gate # 1344 on the E-6000 use key H957</td>
<td>Traverse maps with contours, roads and leave trees. Photo (Scale 1” to 400’)</td>
</tr>
<tr>
<td>4 (ROW)</td>
<td>See Cruise</td>
<td>Gate # 1344 on the E-6000 use key H957</td>
<td>Traverse maps with contours, roads and leave trees. Photo (Scale 1” to 400’)</td>
</tr>
</tbody>
</table>

### Remarks:

Access to Unit 3 is walk in from the E-6000 or E-6024.

Prepared By: Curtis Thompson  
Date: 04/21/21  
Title: Forester NRS1  
CC: Derwood Duncan  

Revised 2/23/2007 (PSLD), Revised 1/22/20 (SPS)
Timber Sale Cruise Report

RHONE

Sale Name: RHONE
Sale Type: LUMP SUM
Region: SO PUGET
District: BLACK HILLS
Lead Cruiser: Kalvin Bailey
Other Cruisers: DPClark BWarnstadt

Cruise Narrative:
Location:
Rhone Timber sale is located in the Capital forest. West of Littlerock.

Cruise Design:
Plots were installed on a 208' grid. BAF of 40, sighted at DBH in all units.

Timber Quality:
Mostly all domestic. Very little high quality due to the fact of the age of the timber, ring count and surface characteristics.

Logging and Stand Conditions:
All of the stands were fairly similar in stand make up; 40-50 year old managed DF with scattered pockets of older timber (70-80 yr old). Scattered pockets of RA, RC, MA and WH.
Slopes are very gentle and should provide for good shovel logging.

Unit 3 is a easy walk in through the south end of unit 1.

Common defects present in this sale consisted of; sinuosity, crooks, pistol butts, and old bear damage.

A H957 gate key is required for access.

Timber Sale Notice Volume (MBF)

<table>
<thead>
<tr>
<th></th>
<th>Sp DBH</th>
<th>Rings/In</th>
<th>Age</th>
<th>All</th>
<th>2 Saw</th>
<th>3 Saw</th>
<th>4 Saw</th>
<th>Utility</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF</td>
<td>18.1</td>
<td>4.5</td>
<td>42</td>
<td>2,988</td>
<td>1,444</td>
<td>1,233</td>
<td>268</td>
<td>44</td>
</tr>
<tr>
<td>RA</td>
<td>11.6</td>
<td></td>
<td></td>
<td>60</td>
<td>14</td>
<td>27</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>RC</td>
<td>29.9</td>
<td></td>
<td></td>
<td>38</td>
<td>37</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA</td>
<td>22.7</td>
<td></td>
<td></td>
<td>26</td>
<td>18</td>
<td>5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>WH</td>
<td>19.1</td>
<td></td>
<td></td>
<td>15</td>
<td>7</td>
<td>6</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ALL</td>
<td>17.9</td>
<td>4.5</td>
<td>42</td>
<td>3,128</td>
<td>1,468</td>
<td>1,290</td>
<td>304</td>
<td>67</td>
</tr>
</tbody>
</table>
### Timber Sale Notice Weight (tons)

<table>
<thead>
<tr>
<th>Sp</th>
<th>All</th>
<th>2 Saw</th>
<th>3 Saw</th>
<th>4 Saw</th>
<th>Utility</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF</td>
<td>23,966</td>
<td>10,852</td>
<td>10,287</td>
<td>2,494</td>
<td>333</td>
</tr>
<tr>
<td>RA</td>
<td>570</td>
<td>128</td>
<td>261</td>
<td>181</td>
<td></td>
</tr>
<tr>
<td>RC</td>
<td>283</td>
<td>272</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA</td>
<td>206</td>
<td>127</td>
<td>60</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>WH</td>
<td>149</td>
<td>74</td>
<td>52</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>ALL</td>
<td>25,173</td>
<td>11,054</td>
<td>10,738</td>
<td>2,849</td>
<td>532</td>
</tr>
</tbody>
</table>

### Timber Sale Overall Cruise Statistics (Cut + Leave Trees)

<table>
<thead>
<tr>
<th>BA (sq ft/acre)</th>
<th>BA SE (%)</th>
<th>V-BAR (bf/sq ft)</th>
<th>V-BAR SE (%)</th>
<th>Net Vol (bf/acre)</th>
<th>Vol SE (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>197.5</td>
<td>3.6</td>
<td>134.2</td>
<td>1.7</td>
<td>26,510</td>
<td>4.0</td>
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</tbody>
</table>

### Timber Sale Unit Cruise Design

<table>
<thead>
<tr>
<th>Unit</th>
<th>Design</th>
<th>Cruise Acres</th>
<th>FMA Acres</th>
<th>N Plots</th>
<th>N Cruise Plots</th>
<th>N Void Plots</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHONE U1</td>
<td>B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft</td>
<td>49.1</td>
<td>51.9</td>
<td>49</td>
<td>25</td>
<td>1</td>
</tr>
<tr>
<td>RHONE U2</td>
<td>B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft</td>
<td>29.7</td>
<td>34.7</td>
<td>30</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>RHONE U3</td>
<td>B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft</td>
<td>37.9</td>
<td>40.3</td>
<td>37</td>
<td>19</td>
<td>0</td>
</tr>
<tr>
<td>RHONE U4</td>
<td>B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft</td>
<td>1.3</td>
<td>1.3</td>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>ALL</td>
<td></td>
<td>118.0</td>
<td>128.1</td>
<td>119</td>
<td>58</td>
<td>1</td>
</tr>
</tbody>
</table>

### Timber Sale Log Grade x Sort Summary

<table>
<thead>
<tr>
<th>Sp</th>
<th>Status</th>
<th>Grade</th>
<th>Sort</th>
<th>Dia</th>
<th>Len</th>
<th>BF Gross</th>
<th>BF Net</th>
<th>Defect %</th>
<th>Tons</th>
<th>MBF Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF</td>
<td>LIVE</td>
<td>2 SAW</td>
<td>Domestic</td>
<td>14.3</td>
<td>38</td>
<td>11,683</td>
<td>11,166</td>
<td>4.6</td>
<td>10,029.0</td>
<td>1,317.6</td>
</tr>
<tr>
<td>DF</td>
<td>LIVE</td>
<td>2 SAW</td>
<td>HQ-B</td>
<td>16.4</td>
<td>40</td>
<td>1,070</td>
<td>1,068</td>
<td>0.2</td>
<td>823.3</td>
<td>126.0</td>
</tr>
<tr>
<td>DF</td>
<td>LIVE</td>
<td>3 SAW</td>
<td>Domestic</td>
<td>9.1</td>
<td>37</td>
<td>10,430</td>
<td>10,140</td>
<td>3.0</td>
<td>10,020.2</td>
<td>1,196.5</td>
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<tr>
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<td>LIVE</td>
<td>3 SAW</td>
<td>HQ-B</td>
<td>9.4</td>
<td>40</td>
<td>307</td>
<td>307</td>
<td>0.0</td>
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<tr>
<td>DF</td>
<td>LIVE</td>
<td>4 SAW</td>
<td>Domestic</td>
<td>5.6</td>
<td>29</td>
<td>2,300</td>
<td>2,274</td>
<td>1.3</td>
<td>2,493.8</td>
<td>268.3</td>
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<tr>
<td>DF</td>
<td>LIVE</td>
<td>CULL</td>
<td>Cull</td>
<td>8.6</td>
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<td>334</td>
<td>0</td>
<td>100.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>DF</td>
<td>LIVE</td>
<td>UTILITY</td>
<td>Pulp</td>
<td>6.4</td>
<td>21</td>
<td>368</td>
<td>369</td>
<td>0.0</td>
<td>332.9</td>
<td>43.5</td>
</tr>
<tr>
<td>MA</td>
<td>LIVE</td>
<td>2 SAW</td>
<td>Domestic</td>
<td>16.4</td>
<td>26</td>
<td>160</td>
<td>148</td>
<td>7.4</td>
<td>127.2</td>
<td>17.5</td>
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<tr>
<td>Sp</td>
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<td>BF Net</td>
<td>Defect %</td>
<td>Tons</td>
<td>MBF Net</td>
</tr>
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<td>---------</td>
</tr>
<tr>
<td>MA</td>
<td>LIVE</td>
<td>SAW</td>
<td>Domestic</td>
<td>7.2</td>
<td>35</td>
<td>46</td>
<td>41</td>
<td>10.5</td>
<td>59.8</td>
<td>4.8</td>
</tr>
<tr>
<td>MA</td>
<td>LIVE</td>
<td>CULL</td>
<td>Cull</td>
<td>10.0</td>
<td>17</td>
<td>118</td>
<td>0</td>
<td>100.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>MA</td>
<td>LIVE</td>
<td>UTILITY</td>
<td>Pulp</td>
<td>15.6</td>
<td>15</td>
<td>33</td>
<td>33</td>
<td>0.0</td>
<td>18.5</td>
<td>3.9</td>
</tr>
<tr>
<td>RA</td>
<td>LIVE</td>
<td>3 SAW</td>
<td>Domestic</td>
<td>10.6</td>
<td>30</td>
<td>129</td>
<td>120</td>
<td>7.6</td>
<td>128.3</td>
<td>14.1</td>
</tr>
<tr>
<td>RA</td>
<td>LIVE</td>
<td>4 SAW</td>
<td>Domestic</td>
<td>7.0</td>
<td>29</td>
<td>241</td>
<td>231</td>
<td>4.1</td>
<td>260.6</td>
<td>27.2</td>
</tr>
<tr>
<td>RA</td>
<td>LIVE</td>
<td>CULL</td>
<td>Cull</td>
<td>5.3</td>
<td>9</td>
<td>52</td>
<td>0</td>
<td>100.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>RA</td>
<td>LIVE</td>
<td>UTILITY</td>
<td>Pulp</td>
<td>5.4</td>
<td>29</td>
<td>174</td>
<td>162</td>
<td>6.5</td>
<td>181.0</td>
<td>19.1</td>
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<tr>
<td>RC</td>
<td>LIVE</td>
<td>3 SAW</td>
<td>Domestic</td>
<td>13.5</td>
<td>36</td>
<td>334</td>
<td>316</td>
<td>5.6</td>
<td>271.8</td>
<td>37.2</td>
</tr>
<tr>
<td>RC</td>
<td>LIVE</td>
<td>4 SAW</td>
<td>Domestic</td>
<td>5.7</td>
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**Timber Sale Log Sort x Diameter Bin Summary**

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## Cruise Unit Report
### RHONE U1

### Unit Sale Notice Volume (MBF): RHONE U1

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### Unit Cruise Design: RHONE U1

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### Unit Cruise Statistics (Cut + Leave Trees): RHONE U1

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<th>V-BAR (bf/sq ft)</th>
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</table>
## Cruise Unit Report

### RHONE U2

### Unit Sale Notice Volume (MBF): RHONE U2

<table>
<thead>
<tr>
<th>Sp</th>
<th>DBH</th>
<th>Rings/ln</th>
<th>Age</th>
<th>All</th>
<th>2 Saw</th>
<th>3 Saw</th>
<th>4 Saw</th>
<th>Utility</th>
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### Unit Cruise Design: RHONE U2

<table>
<thead>
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<th>Design</th>
<th>Cruise Acres</th>
<th>FMA Acres</th>
<th>N Plots</th>
<th>N Cruise Plots</th>
<th>N Void Plots</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft</td>
<td>29.7</td>
<td>34.6</td>
<td>30</td>
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### Unit Cruise Summary: RHONE U2

<table>
<thead>
<tr>
<th>Sp</th>
<th>Cruised Trees</th>
<th>All Trees</th>
<th>Trees/Plot</th>
<th>Ring-Count Trees</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF</td>
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<tr>
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<tr>
<td>RC</td>
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### Unit Cruise Statistics (Cut + Leave Trees): RHONE U2

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<th>Sp</th>
<th>BA (sq ft/acre)</th>
<th>BA CV (%)</th>
<th>BA SE (%)</th>
<th>V-BAR (bf/sq ft)</th>
<th>V-BAR CV (%)</th>
<th>V-BAR SE (%)</th>
<th>Net Vol (bf/acre)</th>
<th>Vol CV (%)</th>
<th>Vol SE (%)</th>
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# Unit Summary: RHONE U2

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<th>DBH</th>
<th>BL</th>
<th>THT</th>
<th>BF Gross</th>
<th>BF Net</th>
<th>Defect %</th>
<th>TPA</th>
<th>BA</th>
<th>RD</th>
<th>MBF Net</th>
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<tbody>
<tr>
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<td>ALL</td>
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<td>72</td>
<td>91</td>
<td>364</td>
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<td>CUT</td>
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<td>ALL</td>
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<td>78</td>
<td>101</td>
<td>31,555</td>
<td>30,312</td>
<td>3.9</td>
<td>111.8</td>
<td>214.6</td>
<td>49.3</td>
<td>900.3</td>
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<tr>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>58</td>
<td>ALL</td>
<td>18.8</td>
<td>78</td>
<td>101</td>
<td>31,555</td>
<td>30,312</td>
<td>3.9</td>
<td>111.8</td>
<td>214.6</td>
<td>49.3</td>
<td>900.3</td>
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# Cruise Unit Report
## RHONE U3

### Unit Sale Notice Volume (MBF): RHONE U3

<table>
<thead>
<tr>
<th>Sp</th>
<th>DBH</th>
<th>Rings/In Age</th>
<th>MBF Volume by Grade</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>All</td>
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<td>RC</td>
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<tr>
<td>WH</td>
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<tr>
<td>ALL</td>
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### Unit Cruise Design: RHONE U3

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<th>FMA Acres</th>
<th>N Plots</th>
<th>N Cruise Plots</th>
<th>N Void Plots</th>
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<tbody>
<tr>
<td>B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft</td>
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### Unit Cruise Summary: RHONE U3

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<thead>
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<th>Sp</th>
<th>Cruised Trees</th>
<th>All Trees</th>
<th>Trees/Plot</th>
<th>Ring-Count Trees</th>
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<tr>
<td>MA</td>
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<td>0</td>
</tr>
<tr>
<td>WH</td>
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<td>0</td>
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<tr>
<td>ALL</td>
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<td>171</td>
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### Unit Cruise Statistics (Cut + Leave Trees): RHONE U3

<table>
<thead>
<tr>
<th>Sp</th>
<th>BA (sq ft/acre)</th>
<th>BA CV (%)</th>
<th>BA SE (%)</th>
<th>V-BAR (bf/sq ft)</th>
<th>V-BAR CV (%)</th>
<th>V-BAR SE (%)</th>
<th>Net Vol (bf/acre)</th>
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<th>Vol SE (%)</th>
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<td>70.5</td>
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<td>4.3</td>
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<td>608.5</td>
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<td>2.6</td>
<td>26,151</td>
<td>39.2</td>
<td>5.8</td>
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## Unit Summary: RHONE U3

<table>
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<tr>
<th>Sp</th>
<th>Status</th>
<th>Rx</th>
<th>N</th>
<th>D</th>
<th>DBH</th>
<th>BL</th>
<th>THT</th>
<th>BF Gross</th>
<th>BF Net</th>
<th>Defect %</th>
<th>TPA</th>
<th>BA</th>
<th>RD</th>
<th>MBF Net</th>
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<tbody>
<tr>
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<td>ALL</td>
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<td>97</td>
<td>692</td>
<td>340</td>
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<tr>
<td>WH</td>
<td>LIVE</td>
<td>CUT</td>
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<td>ALL</td>
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<td>78</td>
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<td>323</td>
<td>304</td>
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<td>2.2</td>
<td>0.5</td>
<td>11.5</td>
</tr>
<tr>
<td>ALL</td>
<td>LIVE</td>
<td>CUT</td>
<td>78</td>
<td>ALL</td>
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<td>86</td>
<td>109</td>
<td>27,731</td>
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<td>5.7</td>
<td>105.0</td>
<td>184.9</td>
<td>43.6</td>
<td>991.1</td>
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<tr>
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<td>ALL</td>
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<td>86</td>
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<td>27,731</td>
<td>26,151</td>
<td>5.7</td>
<td>105.0</td>
<td>184.9</td>
<td>43.6</td>
<td>991.1</td>
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</table>
## Cruise Unit Report
**RHONE U4**

### Unit Sale Notice Volume (MBF): RHONE U4

<table>
<thead>
<tr>
<th>Sp</th>
<th>DBH</th>
<th>Rings/In</th>
<th>Age</th>
<th>MBF Volume by Grade</th>
</tr>
</thead>
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<td>All</td>
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<tr>
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### Unit Cruise Design: RHONE U4

<table>
<thead>
<tr>
<th>Design</th>
<th>Cruise Acres</th>
<th>FMA Acres</th>
<th>N Plots</th>
<th>N Cruise Plots</th>
<th>N Void Plots</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft</td>
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### Unit Cruise Summary: RHONE U4

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<tr>
<th>Sp</th>
<th>Cruised Trees</th>
<th>All Trees</th>
<th>Trees/Plot</th>
<th>Ring-Count Trees</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>ALL</td>
<td>10</td>
<td>15</td>
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</table>

### Unit Cruise Statistics (Cut + Leave Trees): RHONE U4

<table>
<thead>
<tr>
<th>Sp</th>
<th>BA (sq ft/acre)</th>
<th>BA CV (%)</th>
<th>BA SE (%)</th>
<th>V-BAR (bf/sq ft)</th>
<th>V-BAR CV (%)</th>
<th>V-BAR SE (%)</th>
<th>Net Vol (bf/acre)</th>
<th>Vol CV (%)</th>
<th>Vol SE (%)</th>
</tr>
</thead>
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<tr>
<td>DF</td>
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<td>12.3</td>
</tr>
<tr>
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<td>4.4</td>
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### Unit Summary: RHONE U4

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<tr>
<th>Sp</th>
<th>Status</th>
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<th>D</th>
<th>DBH</th>
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<th>THT</th>
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<th>BF Net</th>
<th>Defect %</th>
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<th>BA</th>
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<td>LIVE</td>
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<td>103</td>
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<td>28,377</td>
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<td>150.7</td>
<td>200.0</td>
<td>50.6</td>
<td>36.9</td>
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Forest Practices Application/Notification
Notice of Decision

FPA/N No: 2422657
Effective Date: 12/3/2021
Expiration Date: 12/3/2024
Shut Down Zone: 651 N
EARR Tax Credit: ☒ Eligible ☐ Non-eligible
Reference: Rhone #30-101101

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
Due to the potential for sediment to enter typed water from wetland adjacent road location (E-6220), notify the DNR (2) two business days prior to hauling forest products from Unit 3. Contact Forest Practices Forester at (360) 538-7661 and/or email southpuget.forestpractices@dnr.wa.gov.

Issued By: Matt Brady
Region: South Puget Sound
Title: Resource Protection Forester
Date: 12/3/2021
Copies to: ☒ Landowner, Timber Owner and Operator

Issued in person: ☒ Landowner ☒ Timber Owner ☒ Operator

By: [Signature]

October 2020 - Notice of Decision  Page 1 of 2
**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:**

<table>
<thead>
<tr>
<th>Pollution Control Hearings Board</th>
<th>Office of the Attorney General Natural Resources Division</th>
<th>Department Of Natural Resources South Puget Sound Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Address: 1111 Israel Road SW Suite 301 Tumwater, WA 98501</td>
<td>Physical Address: 1125 Washington Street, SE Olympia, WA 98504</td>
<td>Physical Address: 950 Farman Ave N Enumclaw, WA 98022</td>
</tr>
<tr>
<td>Mailing Address: Post Office Box 40903 Olympia, WA 98504-0903</td>
<td>Mailing Address: Post Office Box 40100 Olympia, WA 98504-0100</td>
<td>Mailing Address: Post Office Box 40100 Olympia, WA 98504-0100</td>
</tr>
</tbody>
</table>

Information regarding the Pollution Control Hearings Board can be found at: [http://www.eluho.wa.gov/](http://www.eluho.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](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 Affidavit of Mailing**

On this day **12/3/2021**, I placed in the United States mail at **Olympia**, WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA #**2422657**.

---

**Meredith Dessens**  
(Printed Name)

(Signature)
1. Construct ditchout, left Sta. 7+95
2. Install 18"x40' culvert Sta. 48+50=0+00
3. Install 18"x30' culvert Sta. 62+40
4. Construct turnaround, left Sta. 3+35
5. Install 18"x40' culvert Sta. 10+00
6. Install 18"x30' culvert Sta. 17+77
7. Install 18"x30' culvert w/ditchout - left Sta. 13+64
8. Install 18"x30' culvert Sta. 15+64 w/ditchout - left
9. Install 18"x40' culvert Sta. 17+77
10. Install 18"x30' culvert Sta. 20+48
11. Install 18"x40' culvert Sta. 22+75
12. Install 18"x30' culvert Sta. 25+15
13. Install 18"x40' culvert Sta. 28+29
14. Install 18"x30' culvert Sta. 31+70
15. Install 18"x30' culvert Sta. 34+92
16. Install 18"x30' culvert Sta. 36+05
17. Install 18"x30' culvert Sta. 39+45
18. Install 18"x30' culvert Sta. 50+96
19. Install 18"x40' culvert Sta. 53+07
20. Install 18"x30' culvert Sta. 57+05
21. Install 18"x30' culvert Sta. 61+30
22. Install 18"x30' culvert Sta. 69+40=0+00
23. Construct ditchout, right Sta. 3+35
24. Install 18"x30' culvert Sta. 6+00 to 7+00
25. Install 18"x30' culvert Sta. 13+00 to 14+00
26. Turnout, Left Sta. 23+50 to 24+50
27. Install 15"x30' culvert Sta. 30+81
28. Install 15"x30' culvert Sta. 38+00 to 39+00
29. Install 15"x30' culvert Sta. 52+00 to 53+00
30. Install 15"x30' culvert Sta. 52+00 to 53+00
31. Install 15"x30' culvert Sta. 7+95
32. Clean culvert outlet Sta. 75+25
33. Improve ditchout - left Sta. 52+75
34. Construct Ditchout-Right Sta. 59+75
35. Install 15"x30' culvert Sta. 50+65
36. Install 15"x30' culvert Sta. 36+05
37. Install 15"x30' culvert Sta. 53+07
Install 18"x40' culvert w/ Ditchout-left (west), perpendicular to road
Sta. 564+70

Clean culvert inlet
Sta. 587+50

Clean culvert inlet
Sta. 591+80

Install 18"x40' culvert
Sta. 590+90

Begin ditch reconstruction
Sta. 604+90

End ditch reconstruction
Sta. 601+85

Replace existing w/18"x40' culvert
Sta. 601+75

Install 18"x30' culvert
Sta. 10+81

Install 18"x30' culvert
w/ ditchout - left
Sta. 15+64

Install 18"x40' culvert
Sta. 17+77

Clean culvert inlet & outlet
Sta. 538+40

Clean culvert inlet & outlet
Sta. 534+50

Clean culvert inlet
Sta. 541+50

Clean culvert inlet
Sta. 544+35

Clean culvert inlet
Sta. 547+00

Install 18"x40' culvert
w/ Ditchout-left (west), perpendicular to road
Sta. 564+70

Clean culvert inlet
Sta. 587+50

Clean culvert inlet
Sta. 591+80

Replace existing w/18"x40' culvert
Sta. 590+90

Begin ditch reconstruction
Sta. 604+90

End ditch reconstruction
Sta. 601+85

Replace existing w/18"x40' culvert
Sta. 601+75

Install 18"x30' culvert
Sta. 10+81

Install 18"x30' culvert
w/ ditchout - left
Sta. 15+64

Install 18"x40' culvert
Sta. 17+77

Clean culvert inlet & outlet
Sta. 538+40

Clean culvert inlet & outlet
Sta. 534+50

Clean culvert inlet
Sta. 541+50

Clean culvert inlet
Sta. 544+35

Clean culvert inlet
Sta. 547+00

Install 18"x40' culvert
w/ Ditchout-left (west), perpendicular to road
Sta. 564+70

Clean culvert inlet
Sta. 587+50

Clean culvert inlet
Sta. 591+80

Begin ditch reconstruction
Sta. 604+90

End ditch reconstruction
Sta. 601+85

Replace existing w/18"x40' culvert
Sta. 601+75

Install 18"x30' culvert
Sta. 10+81

Install 18"x30' culvert
w/ ditchout - left
Sta. 15+64

Install 18"x40' culvert
Sta. 17+77

Clean culvert inlet & outlet
Sta. 538+40

Clean culvert inlet & outlet
Sta. 534+50

Clean culvert inlet
Sta. 541+50

Clean culvert inlet
Sta. 544+35

Clean culvert inlet
Sta. 547+00

Install 18"x40' culvert
w/ Ditchout-left (west), perpendicular to road
Sta. 564+70

Clean culvert inlet
Sta. 587+50

Clean culvert inlet
Sta. 591+80

Begin ditch reconstruction
Sta. 604+90

End ditch reconstruction
Sta. 601+85

Replace existing w/18"x40' culvert
Sta. 601+75
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.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Line</td>
<td>526+80 to 532+80</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>538+38 to 538+42</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>541+48 to 541+52</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>544+33 to 544+37</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>546+98 to 547+02</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>564+55 to 564+85</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>587+48 to 587+52</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>591+78 to 591+82</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-Line</td>
<td>601+60 to 604+90</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6000</td>
<td>52+73 to 52+77</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6000</td>
<td>59+73 to 59+77</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6000</td>
<td>69+15 to 69+45</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6000</td>
<td>75+23 to 75+27</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6001</td>
<td>0+03 to 0+07</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6060</td>
<td>0+00 to 7+95</td>
<td>Abandonment-if constructed</td>
</tr>
<tr>
<td>E-6200</td>
<td>3+65 to 3+95</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6220</td>
<td>0+00 to 40+50</td>
<td>Construction</td>
</tr>
<tr>
<td>E-6220</td>
<td>40+50 to 61+30</td>
<td>Abandonment-if constructed</td>
</tr>
<tr>
<td>E-6800</td>
<td>31+98 to 32+02</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>E-6800</td>
<td>42+88 to 42+92</td>
<td>Pre-haul Maintenance</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6060</td>
<td>0+00 to 7+95</td>
<td>Construction</td>
</tr>
<tr>
<td>E-6220</td>
<td>40+50 to 61+30</td>
<td>Construction</td>
</tr>
</tbody>
</table>

0-4  CONSTRUCTION
Construction includes, but is not limited to.
- Clearing;
- Grubbing;
- Right-of-way debris disposal;
- Excavation and/or embankment to subgrade;
- Turnaround construction;
- Acquisition and installation of drainage structures;
- Acquisition, manufacture, and application of rock.

0-6  PRE-HAUL MAINTENANCE
Pre-haul maintenance includes, but is not limited to.
- Acquisition and installation of drainage structures;
- Acquisition, manufacture, and application of rock;
- Reconstruction of ditch;
- Culvert inlet and outlet cleaning;
- Ditchout construction and/or maintenance.

0-7  POST-HAUL MAINTENANCE
This project includes post-haul road maintenance listed in Clause 9-5 POST-HAUL MAINTENANCE.

0-10  ABANDONMENT
This project includes abandonment listed in Clause 9-21 ROAD ABANDONMENT.

0-12  DEVELOP ROCK SOURCE
Purchaser may develop an existing rock source. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING. If rock source is used, reduction of oversize material is required.

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 any submitted plan that changes the scope of work or environmental condition from the original road 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 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.

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

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.
7. Road Work maps.

In case of any ambiguity or dispute over interpreting the road plan, the Contract Administrator’s or designee’s decision will be final.
1-7 TEMPORARY ROAD CLOSURE
Purchaser shall notify the Contract Administrator a minimum of 7 calendar days before the closure of any of the following roads. Construction may not close any road for more than 1 calendar day.

<table>
<thead>
<tr>
<th>Road</th>
<th>Number of Allowable Closed Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Line</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

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.

1-15 ROAD MARKING
Purchaser shall perform road work in accordance with the state’s marked location. All road work is marked as follows:
- Construction: Orange ribbon tied at eye-height along centerline, with orange pin flags marking centerline.

1-16 CONSTRUCTION STAKES SET BY STATE
Purchaser shall perform work on the following road(s) in accordance with the reference points set in the field for grade and alignment.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6060</td>
<td>0+00 to 7+95</td>
<td>Construction</td>
</tr>
<tr>
<td>E-6220</td>
<td>0+00 to 61+30</td>
<td>Construction</td>
</tr>
</tbody>
</table>

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.

1-21 HAUL APPROVAL
Purchaser shall not use roads under this road plan for timber hauling other than timber cut on the right-of-way, without written approval from the Contract Administrator.
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
- Haul approval

1-25 ACTIVITY TIMING RESTRICTION
The operation of road construction equipment is not allowed on weekends or state recognized holidays, unless authorized in writing by the Contract Administrator. In addition, the specified activities below are not allowed during the listed closure period(s) unless authorized in writing by the Contract Administrator.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Closure Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>The operation of road construction equipment</td>
<td>November 1 to April 30.</td>
</tr>
</tbody>
</table>

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 is required to maintain all haul roads at their own expense. If other operators are using, or desire to use these roads, a joint operating plan must be developed. All parties shall follow this plan.

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:
- 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.
1-32 BRIDGE OR ASPHALT SURFACE RESTRICTION
The use of metal tracked equipment is not allowed on bridge or asphalt surfaces at any time. If Purchaser must run equipment on bridge or asphalt surfaces, then rubber tired equipment or other methods, approved in writing by Contract Administrator, must be used.

1-33 SNOW PLOWING RESTRICTION
Snowplowing will be allowed after the execution of a SNOW PLOWING AGREEMENT, which is available from the Contact Administrator upon request. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

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.

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.
2-6 **CLEANING CULVERTS**
On the following road(s), Purchaser shall clean the inlets and/or outlets of all culverts before timber haul.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Line</td>
<td>538+38 to 538+42</td>
</tr>
<tr>
<td>E-Line</td>
<td>541+48 to 541+52</td>
</tr>
<tr>
<td>E-Line</td>
<td>544+33 to 544+37</td>
</tr>
<tr>
<td>E-Line</td>
<td>546+98 to 547+02</td>
</tr>
<tr>
<td>E-Line</td>
<td>587+48 to 587+52</td>
</tr>
<tr>
<td>E-Line</td>
<td>591+78 to 591+82</td>
</tr>
<tr>
<td>E-6000</td>
<td>75+23 to 75+27</td>
</tr>
<tr>
<td>E-6001</td>
<td>0+03 to 0+07</td>
</tr>
<tr>
<td>E-6800</td>
<td>31+98 to 32+02</td>
</tr>
<tr>
<td>E-6800</td>
<td>42+88 to 42+92</td>
</tr>
</tbody>
</table>

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-5 **CLEARING**
Purchaser shall fall all vegetative material larger than 2 inches DBH or over 5 feet high between the marked right-of-way boundaries, or if not marked in the field, between the clearing limits specified on the TYPICAL SECTION SHEET. Clearing must be completed before starting excavation and embankment.

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.
- Against standing trees.

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. Grubbing must be completed before starting excavation and embankment.
3-13 STUMPS FOR PUNCHEON MATERIAL
On the following road(s), stumps from within the grubbing limits may be overturned and driven flush with the ground surface for use as subgrade puncheon material.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6220</td>
<td>32+00 to 33+20</td>
</tr>
</tbody>
</table>

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, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris before timber haul.

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.
- 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 clearing limits in natural openings. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

SECTION 4 – EXCAVATION
4-2 **PIONEERING**
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.

4-3 **ROAD GRADE AND ALIGNMENT STANDARDS**
Purchaser shall follow these standards for road grade and alignment except as designed:
- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 12 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.

4-5 **CUT SLOPE RATIO**
Purchaser shall construct excavation slopes no steeper than shown on the following table:

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

4-6 **EMBANKMENT SLOPE RATIO**
Purchaser shall construct embankment slopes no steeper than shown on the following table:

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Embankment Slope Ratio</th>
<th>Embankment Slope Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy Soils</td>
<td>2:1</td>
<td>50</td>
</tr>
<tr>
<td>Common Earth and Rounded Gravel</td>
<td>1¼:1</td>
<td>67</td>
</tr>
<tr>
<td>Angular Rock</td>
<td>1¾:1</td>
<td>80</td>
</tr>
</tbody>
</table>

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.

Purchaser shall apply embankment widening equally to both sides of the road to achieve the required width.

4-14  ONE-FOOT EXCAVATION LIMIT
On the following road(s), Purchaser shall not exceed a one-foot cut at centerline unless approved by the Contract Administrator.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6220</td>
<td>32+00 to 33+20</td>
</tr>
</tbody>
</table>

4-21  TURNOUTS
Purchaser shall construct turnouts as designated on the TURNOUT AND TURNAROUND LIST. Locations may be adjusted to fit the final subgrade alignment and sight distances. Minimum dimensions are shown on the TYPICAL SECTION SHEET.

4-22  TURNAROUNDS
Purchaser may construct optional turnarounds as designated on the TURNOUT AND TURNAROUND LIST. Optional turnarounds must be no larger than 30 feet long and 30 feet wide.

4-25  DITCH CONSTRUCTION AND RECONSTRUCTION
On the following road(s), Purchaser shall construct and/or reconstruct ditches into the subgrade as specified on the TYPICAL SECTION SHEET.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Line</td>
<td>526+80 to 532+80</td>
</tr>
<tr>
<td>E-Line</td>
<td>601+85 to 604+90</td>
</tr>
<tr>
<td>E-6060</td>
<td>0+00 to 7+95</td>
</tr>
<tr>
<td>E-6220</td>
<td>0+00 to 61+30</td>
</tr>
</tbody>
</table>
4-27 **DITCH WORK – MATERIAL USE PROHIBITED**
On the following road(s), 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 Clause 4-37 WASTE AREA LOCATION.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Line</td>
<td>526+80 to 532+80</td>
</tr>
<tr>
<td>E-Line</td>
<td>601+85 to 604+90</td>
</tr>
</tbody>
</table>

4-28 **DITCH DRAINAGE**
Ditches must drain to cross-drain culverts or ditchouts.

4-29 **DITCHOUTS**
Purchaser shall construct ditchouts as identified in the table below and as needed. Ditchouts 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 ditchout left or ditchout right.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>L or R</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Line</td>
<td>564+70</td>
<td>L</td>
</tr>
<tr>
<td>E-6000</td>
<td>52+75</td>
<td>L</td>
</tr>
<tr>
<td>E-6000</td>
<td>59+75</td>
<td>R</td>
</tr>
<tr>
<td>E-6060</td>
<td>7+95</td>
<td>L</td>
</tr>
<tr>
<td>E-6220</td>
<td>15+64</td>
<td>L</td>
</tr>
<tr>
<td>E-6220</td>
<td>28+29</td>
<td>R</td>
</tr>
</tbody>
</table>

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 and waste areas identified within the timber sale boundary not prohibited in Clause 4-38.
4-37 WASTE AREA LOCATION
Purchaser shall deposit waste material in the listed designated areas. Additional waste areas may also be identified or approved by the Contract Administrator.

<table>
<thead>
<tr>
<th>Road</th>
<th>Waste Area Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6000</td>
<td>North of Sta. 17+60 of E-6000 and West of E-6030</td>
</tr>
</tbody>
</table>

4-38 PROHIBITED WASTE DISPOSAL AREAS
Purchaser shall not deposit waste material in the following areas, except as otherwise specified in this plan:
- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- Within a wetland 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.

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.

4-60 FILL COMPACTION
Purchaser shall compact all embankment and waste material in accordance with the COMPACTON LIST by routing equipment over the entire width of each lift. A plate compactor must be used for embankment and waste area segments too narrow to accommodate equipment. Waste material may be placed by end-dumping or sidecasting until sufficiently wide enough to support the equipment.

4-61 SUBGRADE COMPACTION
Purchaser shall compact constructed subgrades in accordance with the COMPACTON LIST by routing equipment over the entire width except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before application of rock.

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.

5-5 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 AND DRAINAGE 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, except as specified in Clause 5-7 through 10-24.

5-6 CULVERT TYPE
On the following road(s), Purchaser may install culverts made of steel, aluminum, or plastic in accordance with Clauses 10-15 through 10-24. All other culverts shall be made of plastic.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6220</td>
<td>40+50 to 61+30</td>
</tr>
</tbody>
</table>

5-7 USED CULVERT MATERIAL
On the following road(s), Purchaser may install used culverts. All other roads must have new culverts installed.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6220</td>
<td>40+50 to 61+30</td>
</tr>
</tbody>
</table>

5-12 UNUSED MATERIALS STATE PROPERTY
On required roads, any materials listed on the CULVERT AND DRAINAGE LIST that are not installed will become the property of the state. Purchaser shall stockpile materials at the Mima Mounds Pit (SW¼ NW¼ Section 10 T16R03W)

5-15 CULVERT INSTALLATION
Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL. Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer’s recommendations. Culverts 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.

5-17 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
All culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point.

5-20 ENERGY DISSIPATERS
Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts that specify the placement of rock.

The type of energy dissipater and the amount of material must be consistent with the specifications listed on the CULVERT AND DRAINAGE LIST. Energy dissipaters must extend a minimum of 1 foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet.

5-25 CATCH BASINS
Purchaser shall construct catch basins in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions of catch basins are 2 feet wide and 4 feet long.

5-26 HEADWALLS FOR CULVERTS
Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT AND DRAINAGE LIST. 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.

5-33 NATIVE SURFACE ROADS
If overwintered, native surface roads must be waterbarred by November 1. Purchaser shall construct waterbars according to the attached DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical distance of no more than 15 feet between waterbars or between natural drainage paths, and with a maximum spacing of 300 feet.

SECTION 6 – ROCK AND SURFACING

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 3 calendar days before starting any operations in the listed locations.

<table>
<thead>
<tr>
<th>Source</th>
<th>Location</th>
<th>Rock Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Paper Quarry</td>
<td>SE¼ NW¼ of Sect. 8 T16R03W</td>
<td>2-Inch Minus, 4-Inch Jaw Run, Quarry Spalls</td>
</tr>
</tbody>
</table>

### 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.

### 6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

Purchaser shall conduct rock source development and use at the following sources, in accordance with the written SCOTT PAPER QUARRY DEVELOPMENT PLAN prepared by the state and included in this road plan. Upon completion of operations, the rock source must be left in the condition specified in the SCOTT PAPER QUARRY DEVELOPMENT PLAN, and approved in writing by the Contract Administrator.

<table>
<thead>
<tr>
<th>Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Paper Quarry</td>
<td>SE¼ NW¼ of Sect. 8 T16R03W</td>
</tr>
</tbody>
</table>

### 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:

<table>
<thead>
<tr>
<th>Material</th>
<th>Maximum Slope Ratio (Horiz. : Vert.)</th>
<th>Maximum Slope Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>2:1</td>
<td>50</td>
</tr>
<tr>
<td>Gravel</td>
<td>1.5:1</td>
<td>67</td>
</tr>
<tr>
<td>Common Earth</td>
<td>1:1</td>
<td>100</td>
</tr>
<tr>
<td>Fractured Rock</td>
<td>0.5:1</td>
<td>200</td>
</tr>
<tr>
<td>Solid Rock</td>
<td>0:1</td>
<td><strong>vertical</strong></td>
</tr>
</tbody>
</table>

- 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 overburden and vegetation, including stumps shall be cleared a minimum of 20 feet beyond the top of all working faces and placed as shown in the DEVELOPMENT PLAN.
- Oversized material remaining in the rock source at the conclusion of the timber sale may not exceed 10% of the total volume mined in that source. Oversize material is defined as rock fragments larger than two feet in any direction. Existing stockpiles of oversize must be used as described in SCOTT PAPER QUARRY DEVELOPMENT PLAN.
- 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 is defined as rock fragments larger than two feet in any dimension.
- Oversized rock that exceeds the maximum allowable amount must be reduced in size until it no longer meets Oversize material definition.
- 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 a minimum of 3 working day before any drilling.
- Purchaser shall block access roads and trails before blasting operations.

**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 30 working days from the time it begins.

**6-22 FRACTURE REQUIREMENT FOR ROCK**
A minimum of 50% by visual inspection of coarse aggregate must have at least one fractured face. Coarse aggregate is the material greater than 1/4-inch in size.
6-23 ROCK GRADATION TYPES
Purchaser shall provide or manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality when placed in hauling vehicles. Purchaser shall provide a sieve analysis upon request from the Contract Administrator.

6-30 2-INCH MINUS CRUSHED ROCK
% Passing 2” square sieve 100%
% Passing 1” square sieve 50 - 85%
% Passing U.S. #4 sieve 30 - 50%
% Passing U.S. #40 sieve 16% maximum
% Passing U.S. #200 sieve 5% maximum

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.

6-37 4-INCH JAW RUN ROCK
% Passing 4” square sieve 95%
% Passing U.S. #40 sieve 16% maximum
% Passing U.S. #200 sieve 5% maximum

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.

6-43 QUARRY SPALLS
% Passing 8" square sieve 100%
% Passing 4" square sieve 40% maximum
% Passing 3/4" square sieve 10% maximum

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

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 compacted 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, unless otherwise stated in Clause 6-75 OPTIONAL ROCK EXCEPTION.

6-70 APPROVAL BEFORE ROCK APPLICATION
Purchaser shall obtain written approval from the Contract Administrator for subgrade 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. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

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.

6-75  **OPTIONAL ROCK EXCEPTION**  
On the following roads, Purchaser may provide and place less rock than shown on the ROCK LIST.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6060</td>
<td>0+00 to 7+95</td>
</tr>
<tr>
<td>E-6220</td>
<td>40+50 to 61+30</td>
</tr>
</tbody>
</table>

**SECTION 7 – STRUCTURES**

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.

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.

<table>
<thead>
<tr>
<th>Road</th>
<th>Station</th>
<th>Gate No.</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6000</td>
<td>3+15</td>
<td>1344</td>
<td>Gates must be closed and locked</td>
</tr>
<tr>
<td>E-6800</td>
<td>25+50</td>
<td>1345</td>
<td>daily at termination of use</td>
</tr>
</tbody>
</table>

**SECTION 8 – EROSION CONTROL**
8-15 REVEGETATION
On the following road(s), Purchaser shall spread grass seed and a layer of straw on all exposed soils resulting from road work activities. Purchaser shall revegetate during the first available opportunity after road work is completed.

<table>
<thead>
<tr>
<th>Road</th>
<th>Location</th>
<th>Quantity</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6220</td>
<td>31+70 to 34+82</td>
<td>50 lbs/acre</td>
<td>Pasture Mix</td>
</tr>
</tbody>
</table>

8-16 REVEGETATION SUPPLY
The Purchaser shall provide the Pasture Mix grass seed and straw.

SECTION 9 – POST-HAUL ROAD WORK

9-1 EARTHEN BARRICADES
Purchaser shall construct barricades in accordance with the BARRICADE DETAIL.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6060</td>
<td>0+10</td>
</tr>
<tr>
<td>E-6220</td>
<td>40+50</td>
</tr>
</tbody>
</table>

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND
Culverts removed from roads become the property of the Purchaser and must be removed from state land.

9-5 POST-HAUL MAINTENANCE
Purchaser shall perform post-haul maintenance in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

9-10 LANDING DRAINAGE
Purchaser shall provide for drainage of the landing surface.

9-21 ROAD ABANDONMENT
Purchaser shall abandon the following roads before the termination of this contract.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-6060</td>
<td>0+00 to 7+95</td>
</tr>
<tr>
<td>E-6220</td>
<td>40+50 to 61+30</td>
</tr>
</tbody>
</table>

9-22 ABANDONMENT
- Remove road shoulder berms.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical drop of no
more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 150 feet.

- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
- Key waterbars into the cut-slope to intercept the ditch. Waterbars must be outsloped to provide positive drainage. Outlets must be on stable locations.
- Block roads with earthen barricades in accordance with the attached BARRICADE DETAIL.
- Remove culverts.
- Remove ditch cross drain culverts and leave the resulting trench open.
- Slope all trench walls and approach embankments no steeper than 1.5:1.

SECTION 10 MATERIALS

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.

10-22 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. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe joint.
<table>
<thead>
<tr>
<th>Road Number</th>
<th>From Station</th>
<th>To Station</th>
<th>Tolerance Class</th>
<th>Subgrade Width (feet)</th>
<th>Road Width (feet)</th>
<th>Ditch Width (feet)</th>
<th>Crown Depth (feet)</th>
<th>Grubbing Limits (feet)</th>
<th>Clearing Limits (feet)</th>
<th>Cut Slope Ratio</th>
<th>Fill Slope Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Line</td>
<td>526+80</td>
<td>607+60</td>
<td>C</td>
<td>16</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
</tr>
<tr>
<td>E-Line</td>
<td>607+60</td>
<td>718+95</td>
<td>C</td>
<td>24</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
</tr>
<tr>
<td>E-6000</td>
<td>0+00</td>
<td>81+80</td>
<td>C</td>
<td>-</td>
<td>14</td>
<td>3</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
</tr>
<tr>
<td>E-6001</td>
<td>0+00</td>
<td>0+07</td>
<td>C</td>
<td>-</td>
<td>16</td>
<td>3</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4-5</td>
</tr>
<tr>
<td>E-6060</td>
<td>0+00</td>
<td>7+95</td>
<td>C</td>
<td>15</td>
<td>12</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>4-5</td>
</tr>
<tr>
<td>E-6200</td>
<td>0+00</td>
<td>10+00</td>
<td>C</td>
<td>-</td>
<td>14</td>
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### TURNOUT & TURNAROUND LIST

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<th>Begin L- Station</th>
<th>End L- Station</th>
<th>Turnout Width (H)</th>
<th>Full Width Length (L)</th>
<th>Taper Length (T)</th>
<th>Comments</th>
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<td>6+00</td>
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<td>16'</td>
<td>50'</td>
<td>25'</td>
<td>Turnout Left</td>
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<td>14+00</td>
<td>16'</td>
<td>50'</td>
<td>25'</td>
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</tr>
<tr>
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<td>23+50</td>
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<td>50'</td>
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*See Typical Section Sheet for Turnout Detail*

### COMPACTION LIST

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<th>Type</th>
<th>Max Depth Per Lift (inches)</th>
<th>Equipment Type</th>
<th>Equipment Weight (lbs)</th>
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<th>Maximum Operating Speed (mph)</th>
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<td>All Prehaul Maintenance</td>
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**ROCK LIST**

**BALLAST**

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<th>Road Number</th>
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<th>Rock</th>
<th>Compacted Rock Depth</th>
<th>C.Y./ Station</th>
<th># of Stations</th>
<th>C.Y. Subtotal</th>
<th>Source</th>
<th>Length</th>
<th>Width</th>
<th>Taper</th>
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<tbody>
<tr>
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<td>0+00</td>
<td>7+95</td>
<td>K2</td>
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<td>40+50</td>
<td>B2</td>
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<td>50</td>
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<tr>
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**Turnouts**

- 50 ea.
- 50 ea.

**Landing Rock**

- 13 ea.
- 13 ea.

**2-Inch Minus**

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<tr>
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<th>Rock</th>
<th>Compacted Rock Depth</th>
<th>C.Y./ Station</th>
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</table>

**Quarry Spalls**

- 48

*Optional Rock: Purchaser is allowed the following rock depths from State owned rock sources, but application of rock is not required.

**NOTE:** Yardages are estimated on a compacted (In-Place) basis. Compliance of required rock will be based on compacted depth measurement. **Apply appropriate factors to determine loose amounts for estimating purposes.**
## CULVERT AND DRAINAGE LIST

<table>
<thead>
<tr>
<th>Road Number</th>
<th>Location</th>
<th>Culvert Dia.</th>
<th>Culvert Type</th>
<th>Length (ft)</th>
<th>Riprap (C.Y.)</th>
<th>Backfill Placement</th>
<th>Const. Material*</th>
<th>Placement Method*</th>
<th>Staked*</th>
<th>Remarks</th>
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---

**Key:**

- **QS**: Quarry Spalls
- **NT**: Native (bank run)
- **LL**: Light Loose Rip Rap
- **HL**: Heavy Loose Riprap

---

**CULVERT BACKFILL AND BASE PREPARATION**

For culverts less than 36”:

- **Road Surface**: Clean inlet & outlet
- **Flume**
- **Culvert Inlet**
- **Downspet**
- **Outlet**
- **Type**
- **Placement Method**
- **Staked**
- **Remarks**

---

**Materials of poor or non-uniform bearing density shall be removed and replaced with suitable fill.**

---

**Note:**

- **PD**: Polyethylene Pipe Dual Wall AASHTO No. M294 Type S or ASTM F2648
- **AS10**: Aluminized Steel AASHTO No. M274, 10 Gauge
- **TEMP**: Temporary Culvert
## CULVERT AND DRAINAGE LIST (page 2 of 2)

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<thead>
<tr>
<th>Road Number</th>
<th>Location</th>
<th>Culvert Dia. (in)</th>
<th>Type</th>
<th>Culvert Length (ft)</th>
<th>Riprap (C.Y.)</th>
<th>Backfill Material*</th>
<th>Placement Method*</th>
<th>Const. Staked*</th>
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</table>

**Key:**
- PD = Polyethylene Pipe Dual Wall AASHTO No. M294 Type S or ASTM F2648
- AS10 = Aluminized Steel AASHTO No. M274, 10 Gauge
- TEMP = Temporary Culvert
- QS = Quarry Spalls
- NT = Native (bank run)
- LL = Light Loose Riprap
- HL = Heavy Loose Riprap

**CULVERT BACKFILL AND BASE PREPARATION**

(For culverts less than 36")

*BEDDING MATERIAL: Materials of poor or non-uniform bearing capacity shall be removed and replaced with suitable fill.*

---

12/23/2021

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CULVERT AND DRAINAGE SPECIFICATION DETAIL
(Page 1 of 3)

CATCH BASIN

Normal Backslope

Additional cut into backslope to allow for culvert

2' Min.

Lower ditchline to accommodate diameter of culvert

CULVERT - Natural Lay

Subgrade

Fill Material

Undisturbed Soil

CULVERT - With Flume or Downspout

Subgrade

Fill Material

Support at 10' intervals.
Support material shall be at least 1" X 1/8" steel/iron with rust protection coating.

Bolted both sides with 1/2" bolts and 2 washers per bolt.

Energy Dissipator

Undisturbed Soil
Proper preparation of foundation and placement of bedding material shall precede the installation of all culvert pipe. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform dense unyielding base. The backfill material shall be placed so that the pipe is uniformly supported along the barrel.

**Dissipator Specifications:**
- **Depth:** 1 culvert diameter
- **Aggregate:** as specified in the CULVERT LIST.

---

Headwalls to be constructed of material that will resist erosion.
INSTALLATION REQUIREMENTS:

1. Crushed stone, gravel, or compacted soil backfill material shall be used as the bedding and envelope material around the culvert. The aggregate size shall not exceed 1/6 pipe diameter or 4" diameter, whichever is smaller.

2. The corrugated pipe shall be laid on grade, on a layer of bedding material as shown for the two types of installations. If native soil is used as the bedding and backfill material, it shall be well compacted in six inch layers under the haunches, around the sides and above the pipe to the recommended minimum height of cover.

3. Either crushed aggregate or flexible (asphalt) pavement may be laid as part of the minimum cover requirements.

4. Site conditions and availability of bedding materials often dictate the type of installation method used.

5. The load bearing capability of flexible conduits is dependent on the type of backfill material used and the degree of compaction achieved. Crushed stone and gravel backfill materials typically reach a compaction level of 90-95% AASHTO standard density without compaction. When native soils are used as backfill material, a compaction level of 85% is required. This minimum compaction can be achieved by either hand or mechanical tamping.

MINIMUM DIMENSIONS

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Minimum Thickness</th>
<th>Minimum Cover</th>
<th>Min. Trench Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>18&quot;</td>
<td>6&quot;</td>
<td>12&quot;</td>
<td>36&quot;</td>
</tr>
<tr>
<td>24&quot;</td>
<td>6&quot;</td>
<td>12&quot;</td>
<td>42&quot;</td>
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<tr>
<td>30&quot;</td>
<td>6&quot;</td>
<td>12&quot;</td>
<td>48&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6&quot;</td>
<td>12&quot;</td>
<td>54&quot;</td>
</tr>
</tbody>
</table>
Cuts and Fills
- Maintain slope lines to a stable gradient compatible with the construction materials.
  Remove slides up to 100 cubic yards in volume from ditches and the roadway. Repair fill-failures 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 and shape 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.
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.
BARRICADE DETAIL

SLASH AND ROOT WADS SHALL BE INCORPORATED INTO THE TRAFFIC SIDE OF THE BARRICADE.

PLAN VIEW

TRAFFIC SIDE OF BARRICADE

3 FT. MIN.

BARRICADE

25 FT. MIN.

CLOSED SIDE OF BARRICADE

VARIABLE ROAD GRADE

DIP 1 FT. MAX

BOTTOM OF DIP SHALL BE OUTSLOPED SO AS TO DRAIN FREELY

PROFILE VIEW
Drivable Water Bar Detail

Cross Ditch

Cross Section at Centerline

30° Minimum

9"

8"

36"

Water Bar Detail

Date: 
Scale: None
App#:
Drawn by: M.A.D.
Non-Drivable Water Bar Detail

Cross Ditch

Cross Section at Centerline

Water Bar Detail

Date: [Blank]
Scale: 1:100
Approved by: [Blank]
Drawn by: M.A.D.

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
P-Stn : 2874.9  H. Offset: -0.2  Cut Dp: 2.7  L-Stn : 2855.1  V.Offset: -2.6  Index: 241
P-Stn : 2920.4  H. Offset: 0.3  Cut Dp: 8.0  L-Stn : 2900.6  V.Offset: -8.1  Index: 242
P-Stn : 2962.3  H. Offset: 0.0  Cut Dp: 7.1  L-Stn : 2942.5  V.Offset: -7.1  Index: 243
P-Stn : 3010.3  H. Offset: 0.0  Cut Dp: 9.1  L-Stn : 2990.6  V.Offset: -9.1  Index: 244
P-Stn : 3055.2  H. Offset: 0.0  Cut Dp: 1.6  L-Stn : 3035.4  V.Offset: -1.6  Index: 245
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P-Stn : 3191.1  H. Offset: 0.0  Cut Dp: 0.0  L-Stn : 3171.3  V.Offset: 0.2  Index: 248
1. Oversize material located in piles ‘A’, ‘B’, and ‘C’ shall be reduced and used before further development shall proceed. Oversize material reduction in pile ‘A’ will stop once the elevation of the pile is reduced to the level of the E-6800-1 road. Once oversize material in piles ‘A’, ‘B’ and ‘C’ is reduced and used, development for rock shall then proceed to the ‘DRILL AND SHOOT AREA’ as shown on the Scott Paper Quarry Development Plan map.

2. New oversize material shall not exceed 10% of the total volume mined. Generated oversize material left in the quarry after operations shall be placed in the ‘Oversize A’ location.

3. All vegetation including stumps shall be cleared a minimum of 35 feet beyond the top of all working faces. Trees shall be cleared to a minimum of ¾ of the height of the tallest tree adjacent to the pit. Surface shall be scalped of all overburden within 20 feet of working face at all times. Overburden faces shall be sloped no steeper than 1:1.

4. Overburden shall be end hauled to the designated waste area on the Scott Paper Quarry Development Plan map. Minimal acceptable compaction is achieved by placing waste material in 2 foot or shallower lifts and routing excavation equipment over entire width of the lifts. End hauled overburden shall be sloped no steeper than 1.5:1.

5. Root wads and organic debris larger than one cubic foot in volume shall be separated from overburden material and piled in the vegetative waste area as shown on the Scott Paper Quarry Development Plan map.

6. Quarry faces shall not exceed 40 feet in height and shall be sloped no steeper than 1/4:1.

7. Working bench width shall be a minimum of 20 feet.

8. The quarry floor shall have continuity of slope be left in a smooth and neat condition, providing positive drainage.

9. Reclamation will not be required following use.

10. All operations shall be carried out in compliance with all regulations of:

11. The Purchaser shall submit an informational drilling and shooting plan to the Contract Administrator 3 working days prior to any drilling. Access roads and recreational trails in the area shall be blocked prior to blasting operations.

12. The Purchaser shall notify the Contract Administrator a minimum of 3 working days before blasting operations.

13. At the completion of rock source operations, Purchaser shall obtain written approval from the Contract Administrator of final rock source condition and compliance with the terms of this plan.
Road Development Cost Estimate
(For internal DNR use only. Costs are estimates only & are not guaranteed by the State or part of the Road Plan.)

REGION: SPS  UNIT: Littlerock

SALE/PROJECT NAME: Rhone  CONTRACT NUMBER: 30-101101
LEGAL DESCRIPTION: Sects 06,07,08,17 & 18, T16R03W. Sects 12 & 13, T16R04W.

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<th>ROAD NUMBER:</th>
<th>E-6060, E-6220</th>
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<td>POST HAUL AND ABANDONMENT COSTS:</td>
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NOTE¹: This appraisal has no allowance for profit and risk.

TOTAL (All Roads) = $173,763
SALE VOLUME MBF = 3,128
TOTAL COST PER MBF = $55.55

Date: 04/27/21

RoadCost_Rhone_v02.June2021.xlsx