TIMBER NOTICE OF SALE

SALE NAME: PARCHED LARCH

AGREEMENT NO: 30-101895

AUCTION: November 18, 2021 starting at 10:00 a.m.,
Pacific Cascade Region Office, Castle Rock, WA

COUNTY: Clark

SALE LOCATION: Sale located approximately 13 miles east of Vancouver, WA

PRODUCTS SOLD AND SALE AREA:

All timber, except leave trees bounded by yellow "Leave Tree Area" tags with pink flagging, leave trees marked with blue paint, all down timber existing 5 years prior to day of sale and all downed timber greater than 36 inches diameter bounded by the following:

Unit 1 and 2 are bound by white "Timber Sale Boundary" tags with pink flagging, and the L-1500 Road;

Unit 3 is bound by white "Timber Sale Boundary" tags with pink flagging, reprod, the L-1500 Road and the L-1532 Road;

Unit 4, 5 and 6 are bound by orange "Right of Way" tags and orange flagging;

All forest products above located on part(s) of Sections 27 and 34 all in Township 3 North, Range 4 East, W.M., containing 158 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>Avg Ring</th>
<th>Total MBF</th>
<th>MBF by Grade</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Count</td>
<td></td>
<td>1P 2P 3P SM 1S 2S 3S 4S UT</td>
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<tr>
<td>Douglas fir</td>
<td>18.6</td>
<td>6</td>
<td>2,750</td>
<td>8 1,380 1,074 266 22</td>
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<tr>
<td>Hemlock</td>
<td>18.8</td>
<td>274</td>
<td>192</td>
<td>50 31 1</td>
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<td>Noble fir</td>
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<td>89</td>
<td>58</td>
<td>19 7 5</td>
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<tr>
<td>Red alder</td>
<td>10</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Maple</td>
<td>17</td>
<td>2</td>
<td></td>
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</tr>
<tr>
<td>Sale Total</td>
<td></td>
<td>3,117</td>
<td></td>
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</tbody>
</table>

MINIMUM BID: $1,042,000.00

BID METHOD: Sealed Bids

PERFORMANCE SECURITY: $100,000.00

SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2023

ALLOCATION: Export Restricted

BID DEPOSIT: $104,200.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Cable, Ground based equipment, and Track skidder. This sale is estimated to be 95% ground based harvest systems and 5% cable based harvest systems. Ground-based harvesting equipment shall be restricted to sustained slopes of 40% and less, and restricted during saturated soil conditions. Ground Based Yarding will not be permitted from October 1 to April 30 unless authorized in writing by the Contract Administrator.
ROADS: 38.60 stations of required reconstruction, 26.40 stations of optional construction, 501.55 stations of required prehaul maintenance. Rock used in accordance with the quantities on the ROCK LIST may be obtained from the following source on state land at no charge to the Purchaser: Jackson Pass Pit located NE¼ NE¼ Sec. 11, T02N, R04E, W.M. and NW¼ NW¼ Sec. 12, T02N, R04E, W.M.

Rock used in accordance with the quantities on the ROCK LIST and CULVERT LIST may be obtained from the following existing stockpiles on state land at no charge to the Purchaser:
-L-1050 Stockpile, Station 7+10 on the L-1050, 2 ½ - Inch Minus Crushed Rock
-L-1050 Stockpile, Station 41+35 on the L-1050, PIT RUN ROCK
-L-1050 Stockpile, Station 41+35 on the L-1050, LIGHT LOOSE and HEAVY LOOSE RIP RAP

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. Road construction will not be permitted from October 1 to April 30 unless authorized in writing by the Contract Administrator. The hauling of forest products will not be permitted from October 1 to April 30 unless authorized in writing by the Contract Administrator.

ACREAGE DETERMINATION
CRUISE METHOD: The sale acres were determined by GPS. The sale area was cruised using a variable plot cruise method.

FEES: $13,866.41 to be paid by the Purchaser to Weyerhaeuser within 30 days of purchase date. $52,989.00 is due on day of sale. $9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: This sale contains an estimated 8 MBF of SM DF, 158 MBF of high quality 2 Saw DF and 120 MBF high quality 3 Saw DF. See Cruise for further details.

Extreme Hazard Abatement along the L-1500. See Timber Sale map and the H-141 and S-020 clauses in the contract for further details.
DRIVING DIRECTIONS:
From SR 500 (MP 15), turn east onto NE 19th St and follow for 0.5 miles. Veer right onto NE Blair Rd for 0.3 miles. Turn left onto Reilly Rd for 1.8 miles. Turn right onto NE Ireland Rd for 0.8 miles then left onto NE Lessard Rd for 2.5 miles, NE Lessard Rd becomes NE Boulder Creek road; continue for 1.0 miles. Veer left onto the L-1600 (towards Jones Creek ORV Area) and follow for another 3.1 miles. Turn left onto the L-1500 for 0.9 miles, then left onto the L-1560 for 2.3 miles. Veer right onto the L-1530 to access all Units mid-grade. Veer left onto the L-1532 to access the lower portions of Units 1 and 3.
STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-0101895

SALE NAME: PARCHED LARCH

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 November 18, 2021 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 by yellow "Leave Tree Area" tags with pink flagging, leave trees marked with blue paint, all down timber existing 5 years prior to day of sale and all downed timber greater than 36 inches diameter bounded by the following:

Unit 1 and 2 are bound by white "Timber Sale Boundary" tags with pink flagging, and the L-1500 Road;

Unit 3 is bound by white "Timber Sale Boundary" tags with pink flagging, reprod, the L-1500 Road and the L-1532 Road;

Unit 4, 5 and 6 are bound by orange "Right of Way" tags and orange flagging;

All forest products above located on approximately 158 acres on part(s) of Sections 27, and 34 all in Township 3 North, Range 4 East W.M. in Clark 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 $931.00 per acre per annum for the acres on which an operating release has not been issued.

f. In no event will the extension charge be less than $200.00.

g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.

b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."

c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.

d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.

e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL
OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.

f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.

g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.

h. Items contained in any other documents prepared for or by the State.

G-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.

G-121 Exceptions

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

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

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

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

1. Failure of (a) required improvements or roads designated in clause C-050, or (b) required or optional construction completed to the point that authorization to haul has been issued;

2. Caused by a single event from forces beyond the control of Purchaser, its employees, agents, or invitees, including independent contractors; and

3. Includes, but is not limited to natural disasters such as earthquakes, volcanic eruptions, landslides, and floods.

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

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

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

G-140 Indemnity

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

G-150 Insurance

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

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

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

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

2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

Before starting work, Purchaser shall furnish State of Washington, Department of Natural Resources with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified in the contract. Insurance coverage shall be obtained by the Purchaser prior to operations commencing and continually maintained in full force until all contract obligations have been satisfied or an operating release has been signed by the State.
Purchaser shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Purchaser's liability or responsibility.

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

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Purchaser waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

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

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

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

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

Employer's Liability "Stop Gap" Insurance. Purchaser shall buy employers liability insurance, and, if necessary, commercial umbrella liability insurance with limits not less than $1,000,000.00 each accident for bodily injury by accident or $1,000,000.00 each employee for bodily injury by disease.
Workers' Compensation Coverage. Purchaser shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Purchaser and employees of any subcontractor or sub-subcontractor. Coverage shall include bodily injury (including death) by accident or disease, which exists out of or in connection with the performance of this contract. Except as prohibited by law, Purchaser waives all rights of subrogation against State for recovery of damages to the extent they are covered by workers' compensation, employer's liability, commercial general liability, or commercial umbrella liability insurance.

If Purchaser, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Purchaser shall indemnify State. Indemnity shall include all fines, payment of benefits to Purchaser or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

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

G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Castle Rock, 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; L-1400, L-1500, L-1500C, L-1530, L-1532, L-1532C, L-1560, L-1600, L-1000S, L-1000N and L-1050 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 L-1500, 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 #55-000151 between State and Boise Cascade Corp., dated February 22, 
1974.

Road Use Permit #55-102396 between Weyerhaeuser Company and State dated June 2, 
2021.

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:

Easement, including the terms and provisions thereof, 
For: Road 
In Favor of: Boise Cascade Corporation 
Disclosed by Application No.: 50-035946 
Granted: 2/22/1974
Expires: Indefinite

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

Lease, including the terms and provisions thereof,
For: Minor Forest Products
In Favor of: DNR-Pacific Cascade Region
Disclosed by Application No.: 35-RP0006
Granted: 3/9/1993
Expires: Indefinite

Lease, including the terms and provisions thereof,
For: Special Use
In Favor of: Clark County Public Utilities
Disclosed by Application No.: 60-PC1902
Granted: 7/17/2018
Expires: 10/30/2021

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 $81,042.00. The total contract price consists of a $0.00 contract bid price plus $81,042.00 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-010 Cutting and Yarding Schedule

Ground Based Yarding will not be permitted from October 1 to April 30 unless authorized in writing by the Contract Administrator.
H-013 Reserve Tree Damage Definition

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

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

a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.

b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.

c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

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

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

H-015 Skid Trail Requirements

A skid trail is defined as an area that is used for more than three passes by any equipment.

Purchaser shall comply with the following during the yarding operation:

a. Skid trails will not exceed 12 feet in width, including rub trees.

b. Skid trails shall not cover more than 5 percent of the total acreage on one unit.

c. Skid trail location will be pre-approved by the Contract Administrator.

d. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.

e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.
f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.

g. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.

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

H-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 all units. The plan shall address the falling and yarding operations, 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-060 Skid Trail Locations

Locations of skid trails must be marked by Purchaser and approved by the Contract Administrator prior to the felling of timber.

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 shovel, tracked skidder, 6 Wheeled Skidder similar to Eco-Tracks, cable assist and cable systems. 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-126 Tailholds on State Land

If Purchaser tailholds on State land, methods to minimize damage to live trees outside the sale area shall be employed and must be approved in writing by the Contract Administrator.

H-127 Tailholds on Private Land

If Purchaser chooses to tailhold on private property, Purchaser shall obtain permit(s) and assumes responsibility for all costs and damages associated with the permit(s). Purchaser must provide the State with a copy of the executed permit(s) or a letter from the landowner indicating that a satisfactory tailhold permit(s) has been consummated between Purchaser and the landowner.

H-130 Hauling Schedule

The hauling of forest products will not be permitted on all roads from October 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. Active Haul Routes will be posted with CB channels.

B. Ground based yarding equipment shall only operate during dry soil conditions.

C. Shovels must be large enough to pick up one end of the largest log 35 feet from machine.

D. Ground based yarding equipment will not be permitted on sustained slopes over 40%.

E. Cable assist operations will not be permitted on slopes over 70%.

F. Cable-assist will only be allowed in areas where a written harvest plan has been provided to the CA and the CA has provided written approval for cable-assist logging to occur.

G. No Trees over 48 inches in diameter shall be felled without CA approval.
H. If Purchaser chooses to tailhold on City of Camas property, Purchaser shall obtain permit(s) and assumes responsibility for all costs and damages associated with the permit(s). Purchaser must provide the State with a copy of the executed permit(s) or a letter from the landowner indicating that a satisfactory tailhold permit(s) has been consummated between Purchaser and the landowner.

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. Sediment delivery from roads will not be allowed. Hauling operations will be shut down as needed until conditions improve or work can be completed that eliminates the delivery of sediment.

B. Within shovel logging areas, the shovel operator shall break up concentrations of logging debris greater than 10 feet by 10 feet to allow exposure of natural soils to ensure proper reforestation.

C. Extreme Hazard Abatement Area - Along the L-1500 road where the timber sale units meet the road. See Timber Sale map for clarification.

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-250 Additional Falling Requirements
Within all units, all non-merchantable hardwood stems 2 inches DBH or 10 feet tall, shall be felled concurrently with felling operations. 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 6/16/2021 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair
Purchaser shall perform work at their own expense on L-1530, L-1532, L-1532C and L-1560. 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 roads not listed in Clause C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-080 Landing Locations Approved Prior to Construction

Landings shall be marked by Purchaser and approved by the Contract Administrator prior to construction.

C-140 Water Bars

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

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-020 Extreme Hazard Abatement

Purchaser shall provide a written Extreme Hazard Abatement plan that meets the requirements of WAC 332-24 prior to the beginning of logging operations. The plan
must be acceptable to the Contract Administrator. The plan will identify how Purchaser will accomplish abatement. Purchaser shall also provide, and keep current, a written timetable for completion of all specified work in the plan. The Contract Administrator's acceptance and approval of Purchaser's hazard abatement plan shall not be construed as any statement or warranty that the hazard abatement plan is adequate for Purchaser's purposes or complies with applicable laws.

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-040 Noxious Weed Control
Purchaser shall notify the Contract Administrator in advance of moving equipment onto State lands. Purchaser shall thoroughly clean all off road equipment prior to entry onto State land to remove contaminated soils and noxious weed seed. If equipment is moved from one DNR project area to another, the Contract Administrator reserves the right to require the cleaning of equipment. Equipment shall be cleaned at a location approved by the Contract Administrator.

S-050 Cessation of Operations for Low Humidity
When the humidity is 30 percent or lower on the sale area, all operations must cease unless authority to continue is granted by the State in writing.

S-060 Pump Truck or Pump Trailer
Purchaser shall provide a fully functional pump truck or pump trailer equipped to meet the specifications of WAC 332-24-005 and WAC 332-24-405 during the "closed season" or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

S-100 Stream Cleanout
Slash or debris which enters all 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-120 Stream Protection
No timber shall be felled into, across, or yarded through any typed stream.

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 (contact information below).
-National Response Center (contact information below).
-Appropriate Department of Ecology (ECY) regional office (contact information below).
-DNR Contract Administrator

ECY - Northwest Region: 1-425-649-7000
(Island, King, Kitsap, San Juan, Skagit, Snohomish, and Whatcom counties)
ECY - Southwest Region: 1-360-407-6300
(Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, and Wahkiakum counties)

ECY - Central Region: 1-509-575-2490
(Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, and Yakima counties)

ECY - Eastern Region: 1-509-329-3400
(Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, and Whitman counties)

Department of Emergency Management 24-hour Number: 1-800-258-5990

National Response Center: 1-800-424-8802

S-131 Refuse Disposal

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

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

Clause P-020 governs Purchaser’s liability in the event Purchaser fails to perform any of the contract requirements other than the below liquidated damage clauses without written approval by the State. Purchaser’s failure to pay for all or part of the forest products sold in this contract prior to expiration of the contract term results in substantial injury to the State. Therefore, Purchaser agrees to pay the State the full lump sum contract price in P-020 in the event of failure to perform.
D-041 Reserve Tree Excessive Damage

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

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

STATE OF ____________________________
COUNTY OF ____________________________

On this _____________ day of _______________________, 20___, before me personally
appeared ______________________________________________
__________________________________________________ to me known to be the
____________________________________________________________ of the corporation
that executed the within and foregoing instrument and acknowledged said instrument to be the
free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned,
and on oath stated that (he/she was) (they were) authorized to execute said instrument.

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

____________________________________
Notary Public in and for the State of

____________________________________
My appointment expires _____________
**PRE-CRUISE NARRATIVE**

<table>
<thead>
<tr>
<th>Unit #</th>
<th>Legal Description</th>
<th>Grant or Trust</th>
<th>Gross Proposal Acres</th>
<th>Deductions from Gross Acres (No harvest acres)</th>
<th>Net Harvest Acres</th>
<th>Acreage Determination</th>
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<tr>
<td></td>
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<td>RMZ/WMZ Acres</td>
<td>Leaf Tree Acres</td>
<td>Existing Road Acres</td>
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<td>54</td>
<td>12</td>
<td>5</td>
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Type of Sale: Lump Sum

Harvest System: Ground based

Harvest System: Uphill Cable

Enter % of sale acres

Harvest System: Select harvest system

**UNIT ACREAGES AND METHOD OF DETERMINATION:**

**Sale Name:** Parched Larch  
**Region:** Pacific Cascade  
**Agreement #:** 30-101895  
**District:** Yacolt  
**Contact Forester:** Amanda Taylor  
**Phone / Location:** 360-827-1064  
**County(s):** Clark,  
**Alternate Contact:** Aaron Nelson  
**Phone / Location:** 360-601-0296  
**Other information:**

**Type of Sale:** Lump Sum

**Harvest System:** Ground based  
159 Acres (not counting ROW)

**Harvest System:** Uphill Cable  
8 Acres

**Enter % of sale acres**

**Harvest System:** Select harvest system

**Sale Name:** Parched Larch  
**Region:** Pacific Cascade  
**Agreement #:** 30-101895  
**District:** Yacolt  
**Contact Forester:** Amanda Taylor  
**Phone / Location:** 360-827-1064  
**County(s):** Clark,  
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**Other information:**

**Type of Sale:** Lump Sum

**Harvest System:** Ground based  
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8 Acres

**Enter % of sale acres**

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8 Acres

**Enter % of sale acres**

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**Other information:**

**Type of Sale:** Lump Sum

**Harvest System:** Ground based  
159 Acres (not counting ROW)

**Harvest System:** Uphill Cable  
8 Acres

**Enter % of sale acres**

**Harvest System:** Select harvest system
**HARVEST PLAN AND SPECIAL CONDITIONS:**

<table>
<thead>
<tr>
<th>Unit #</th>
<th>Harvest Prescription: (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</td>
<td>Unit 1 is bound by white “Timber Sale Boundary” tags, pink flagging and the L-1500 road. Clumped leave trees are bound by yellow “Leave Tree Area” tags and pink flagging. Individual leave trees are marked with a ring of blue paint.</td>
<td>VRH</td>
<td>597 Leave trees clumped and scattered</td>
</tr>
<tr>
<td>2</td>
<td>Unit 2 is bound by white “Timber Sale Boundary” tags, pink flagging and the L-1500 road. Individual leave trees are marked with a ring of blue paint.</td>
<td>VRH</td>
<td>48 Leave trees clumped and scattered</td>
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<tr>
<td>3</td>
<td>Unit 3 is bound by white “Timber Sale Boundary” tags, pink flagging and the L-1500 road. Clumped leave trees are bound by yellow “Leave Tree Area” tags and pink flagging. Individual leave trees are marked with a ring of blue paint.</td>
<td>VRH</td>
<td>727 Leave trees clumped and scattered</td>
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<tr>
<td>4</td>
<td>Unit 4 is bound by orange “Right-of-Way” tags and orange flagging.</td>
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<tr>
<td>5</td>
<td>Unit 5 is bound by orange “Right-of-Way” and orange flagging.</td>
<td>ROW</td>
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<tr>
<td>6</td>
<td>Unit 6 is bound by orange “Right-of-Way” and orange flagging.</td>
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**OTHER PRE-CRUISE INFORMATION:**

<table>
<thead>
<tr>
<th>Unit #</th>
<th>Primary,secondary Species / Estimated Volume (MBF)</th>
<th>Access information (Gates, locks, etc.)</th>
<th>Photos, traverse maps required</th>
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<tbody>
<tr>
<td>1</td>
<td>DF/NF 1,486/mbf</td>
<td>Unit 1 can be accessed via the L-1500 road.</td>
<td>Logging Plan/Cruise Maps and Driving Map</td>
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<tr>
<td>2</td>
<td>DF/NF 93/mbf</td>
<td>Unit 2 can be accessed via the L-1500 road.</td>
<td>Logging Plan/Cruise Maps and Driving Map</td>
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<tr>
<td>3</td>
<td>DF/NF 1,535/mbf</td>
<td>Unit 3 can be accessed from the L-1500, L-1530 &amp; L-1532 roads.</td>
<td>Logging Plan/Cruise Maps and Driving Map</td>
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<tr>
<td>4</td>
<td>ROW DF/RA 1/mbf</td>
<td></td>
<td>Logging Plan/Cruise Maps and Driving Map</td>
</tr>
<tr>
<td>ROW</td>
<td>DF/RA 1/mbf</td>
<td>Logging Plan/Cruise Maps and Driving Map</td>
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<tr>
<td>-----</td>
<td>-------------</td>
<td>-----------------------------------------</td>
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</tr>
<tr>
<td>5</td>
<td>DF/RA 1/mbf</td>
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<tr>
<td>6</td>
<td>DF/RA 1/mbf</td>
<td></td>
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</tr>
<tr>
<td>TOTAL MBF</td>
<td>3,117 / mbf</td>
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</tbody>
</table>

**REMARKS:**
Northern half of Units 1-3 have a high component of Noble-fir. Stands have components of large DF and WH. Southern half of units 1 and 3 contain smaller DF. Stand has many type changes throughout. Spike knot defects at approximately 20-40 ft causing breakage and rot. Some scattered old growth fir (60" plus), please inform forester if found without blue paint. The L-1500, L-1530 & L-1532 are good access points.

**Prepared By:** Amanda Taylor
**Date:**
**Title:** NRS-2
**CC:** Aaron Nelson
Timber Sale Cruise Report
Parched Larch

Sale Name: PARCHED LARCH
Sale Type: LUMP SUM
Region: PACIFIC CASC
District: YACOLT
Lead Cruiser: Kalvin Bailey
Other Cruisers:

Cruise Narrative:
Location: Located in the Larch Block off of the 1500 road system. Elevation ranges from 1600' to 2700'. This sale consists of 3 sub units of similar timber, separated by type 4 streams on a south facing hillside with shallow rocky soils.

Cruise Design:
Plots were installed on a 208' square grid, located by GPS. Cruise count ratio of 1:1. ROW's were combined with the associated units and acreage. 2S/3S logs favored heavily to 36'and 40' log lengths. Leave trees are bound by yellow tags a pink flashers as well as clumped and scattered blue painted trees.

Timber Quality:
Quality was primarily domestic with some small pockets of high quality B. The timber is highly variable in stocking, size, and quality. Primarily a 60-75 yr old DF stand with scattered WH and NF.

Logging and Stand Conditions:
The majority of the sale should provide for decent shovel logging, although there may be a few reaches that will require cable logging techniques.

General Remarks:
Overall the sale highly variable in size, quality, stocking and defect. Portions of the sale are fairly nice timber with good stocking and some high quality. There are also areas with significant amounts of bear damage, open grown timber and voids. A lot of the bear damage has led to large catfaces, crooks, forks, dead tops as well as mortality. Overall, much of the timber is short with low form and two logs.

Access is good off of the 1500 and 1532 as well as a good walkable grade off the 1530 that runs through the middle.
No gates.

Timber Sale Notice Volume (MBF)

<table>
<thead>
<tr>
<th>Sp</th>
<th>DBH</th>
<th>Rings/In</th>
<th>Age</th>
<th>All</th>
<th>Spec Mill</th>
<th>2 Saw</th>
<th>3 Saw</th>
<th>4 Saw</th>
<th>Utility</th>
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</thead>
<tbody>
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<td>WH</td>
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<td>192</td>
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<tr>
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<tr>
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<td>1,630</td>
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09:29:17 June 16, 2021
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<tr>
<th>Sp</th>
<th>All</th>
<th>Spec Mill</th>
<th>2 Saw</th>
<th>3 Saw</th>
<th>4 Saw</th>
<th>Utility</th>
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<th>BA</th>
<th>BA SE</th>
<th>V-BAR</th>
<th>V-BAR SE</th>
<th>Net Vol</th>
<th>Vol SE</th>
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<tbody>
<tr>
<td>(sq ft/acre)</td>
<td>(%)</td>
<td>(bf/sq ft)</td>
<td>(%)</td>
<td>(bf/acre)</td>
<td>(%)</td>
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<tr>
<td>176.4</td>
<td>3.4</td>
<td>112.8</td>
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<table>
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<th>BF Net</th>
<th>Defect %</th>
<th>Tons</th>
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<tbody>
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2 of 10
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<th>BF Net</th>
<th>Defect %</th>
<th>Tons</th>
<th>MBF Net</th>
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<tbody>
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## Cruise Unit Report

### PARCHED LARCH U1 VRH

#### Unit Sale Notice Volume (MBF): PARCHED LARCH U1 VRH

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#### Unit Cruise Design: PARCHED LARCH U1 VRH

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#### Unit Cruise Summary: PARCHED LARCH U1 VRH

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#### Unit Cruise Statistics (Cut + Leave Trees): PARCHED LARCH U1 VRH

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<th>V-BAR SE (%)</th>
<th>Net Vol (bf/acre)</th>
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# Unit Summary: PARCHED LARCH U1 VRH

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Cruise Unit Report
PARCHED LARCH U2 VRH

Unit Sale Notice Volume (MBF): PARCHED LARCH U2 VRH

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<th>3 Saw</th>
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<th>Utility</th>
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Unit Cruise Design: PARCHED LARCH U2 VRH

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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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Unit Cruise Summary: PARCHED LARCH U2 VRH

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Unit Cruise Statistics (Cut + Leave Trees): PARCHED LARCH U2 VRH

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<th>V-BAR (bf/sq ft)</th>
<th>V-BAR CV (%)</th>
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<th>Net Vol (bf/acre)</th>
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Unit Summary: PARCHED LARCH U2 VRH

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<th>THT</th>
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<th>BF Net</th>
<th>Defect %</th>
<th>TPA</th>
<th>BA</th>
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<td>RD</td>
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### Unit Sale Notice Volume (MBF): PARCHED LARCH U3 VRH

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<th>Utility</th>
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### Unit Cruise Design: PARCHED LARCH U3 VRH

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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>
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### Unit Cruise Summary: PARCHED LARCH U3 VRH

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<th>Trees/Plot</th>
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### Unit Cruise Statistics (Cut + Leave Trees): PARCHED LARCH U3 VRH

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<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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### Unit Summary: PARCHED LARCH U3 VRH

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<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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<td>1,536.9</td>
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</table>
Forest Practices Application/Notification
Notice of Decision

Decision
☐ Notification Accepted
☐ Approved
☐ Disapproved
☐ Withdrawn
☐ Closed

Operations shall not begin before the effective date.
This Forest Practices Application is subject to the conditions listed below.
This Forest Practices Application is disapproved for the reasons listed below.
Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
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
No additional conditions.

Issued By: Luke Warthen
Title: Forest Practices Forester
Copies to: ☐ Landowner, ☐ Timber Owner ☐ Operator
Issued in person: ☐ Landowner ☐ Timber Owner ☐ Operator

Region: Pacific Cascade
Date: 08/24/2021

By:

October 2020 - Notice of Decision – DNR Affidavit of Mailing
**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 Pacific Cascade Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Address</td>
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<td>Physical Address</td>
</tr>
<tr>
<td>1111 Israel Road, SW</td>
<td>1125 Washington Street, SE</td>
<td>601 Bond Road</td>
</tr>
<tr>
<td>Suite 301</td>
<td>Olympia, WA 98504</td>
<td>Castle Rock WA 98611</td>
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<tr>
<td>Tumwater, WA 98501</td>
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<td>Mailing address</td>
<td>Post Office Box 40903</td>
<td>Post Office Box 280</td>
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<tr>
<td>Olympia, WA 98504-0903</td>
<td>Olympia, WA 98504-0100</td>
<td>Castle Rock WA 98611</td>
</tr>
</tbody>
</table>

Information regarding the Pollution Control Hearings Board can be found at: [http://www.ehuo.wa.gov/](http://www.ehuo.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 76.09.380, and WAC 222-20-055)**

Obligations include reforestation, road maintenance and abandonment plans, conversions of forestland to non-forestry use and/or harvest. Strategies include 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 __________, I placed in the United States mail at Castle Rock, WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA #________.

(P) **(Printed Name)**

(S) **(Signature)**

October 2020 - Notice of Decision – DNR Affidavit of Mailing
SALE NAME: PARCHED LARCH
AGREEMENT#: 30-101895
TOWNSHIP(S): T2R4E, T3R4E
TRUST(S): Capitol Grant (7), Common School and Indemnity(3), State Forest Transfer(1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 1120-3160

Road Plan Map

Existing Roads
Rock Pit
Required Pre-Haul Maintenance
Waste Area
Streams

Prepared By: accc490
Modification Date: 6/15/2021
PARCHED LARCH 30-101895 JUNE 16, 2021 Page 2 of 66
SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE
Clauses in this road plan apply to all road related work, including landings and rock source development, unless otherwise noted.

0-2 REQUIRED ROADS
The specified work on the following roads is required.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>0+00 to 142+90</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>L-1500</td>
<td>267+14 to 316+64</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>L-1560</td>
<td>0+00 to 90+75</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>L-1532</td>
<td>0+00 to 55+25</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>L-1600</td>
<td>0+00 to 163+15</td>
<td>Pre-haul Maintenance</td>
</tr>
<tr>
<td>L-1530</td>
<td>0+00 to 38+60</td>
<td>Reconstruction</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>L-1532C</td>
<td>0+00 to 26+40</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 embankment to sub-grade; turnout, turnaround and landing construction; acquisition and installation of drainage structures; shaping subgrade; manufacture and application of rock; compaction of earthwork and rock; and acquisition and application of erosion control materials.
0-5 RECONSTRUCTION
This project includes, but is not limited to the following reconstruction requirements:

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1530</td>
<td>0+00 to 38+60</td>
<td>Clear, grub, widen subgrade, excavate ditchlines,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>grade, shape, and compact subgrade surface in accordance to TYPICAL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SECTION SHEET. Right-of-way debris disposal. Compact earthwork. Reconstruct</td>
</tr>
<tr>
<td></td>
<td></td>
<td>road grade according to stakes and reference points marked in the field.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acquire and install drainage structures in accordance to CULVERT LIST.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Manufacture and apply rock in accordance to ROCK LIST. Grade, shape, and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>compact rock. Remove buried logs from fill on L-1530 at stations 6+50, 13+77,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24+10, &amp; 26+70.</td>
</tr>
</tbody>
</table>

0-6 PRE-HAUL MAINTENANCE
This project includes, but is not limited to the following pre-haul maintenance requirements:

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>0+00 to 142+90</td>
<td>Grade, shape, and compact existing surface in accordance to TYPICAL</td>
</tr>
<tr>
<td>L-1500</td>
<td>267+14 to 316+64</td>
<td>SECTION SHEET. Manufacture and apply rock in accordance to ROCK LIST.</td>
</tr>
<tr>
<td>L-1532</td>
<td>0+00 to 55+25</td>
<td>Grade, shape, and compact rock. Clean and widen ditchlines in accordance</td>
</tr>
<tr>
<td>L-1560</td>
<td>0+00 to 90+75</td>
<td>to TYPICAL SECTION SHEET on L-1500 and L-1600 at locations specified in</td>
</tr>
<tr>
<td>L-1600</td>
<td>0+00 to 163+15</td>
<td>Clause 2-7. Acquire and install drainage structures in accordance to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CULVERT LIST on L-1500.</td>
</tr>
</tbody>
</table>

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. Rock source development will involve requirements listed in the ROCK SOURCE DEVELOPMENT PLAN. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES
If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for the submitted plan.
1-2 UNFORESEEN CONDITIONS
Quantities established in this road plan are minimum acceptable values. Additional quantities required by the state due to unforeseen conditions, or Purchaser’s choice of construction season or techniques will be at the Purchaser's expense. Unforeseen conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

1-3 ROAD DIMENSIONS
Purchaser shall perform road work in accordance with the dimensions shown on the TYPICAL SECTION SHEET and the specifications within this road plan, unless controlled by construction stakes or design data (plan, profile, and cross-sections).

1-4 ROAD TOLERANCES
Purchaser shall perform road work within the tolerances listed below. The tolerance class for each road is listed on the TYPICAL SECTION SHEET.

<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>

1-5 DESIGN DATA
Road location, cross-section, and design data are available upon request at the Department of Natural Resources Pacific Cascade Region Office in Castle Rock, WA.

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 Plan 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.

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS
Purchaser shall repair or replace all materials, roadway infrastructure, and road components damaged during road work or operation activities. The Contract Administrator will direct repairs and replacements. Repairs to structural materials must be made in accordance with the manufacturer’s recommendation, and may not begin without written approval from the Contract Administrator.
1-9 **DAMAGED METALLIC COATING**
Any cut ends, or damaged galvanized or aluminized coating on existing or new bridge components, culverts, downspouts, and flumes must be cleaned and treated with a minimum of two coats of zinc rich paint or cold galvanizing compound.

1-10 **WSDOT STANDARD SPECIFICATION REFERENCE**
References in this road plan to “WSDOT Standard Specifications” mean the Washington State Department of Transportation’s Standard Specifications for Road, Bridge, and Municipal Construction 2018 (M41-10).

1-15 **ROAD MARKING**
Purchaser shall perform road work in accordance with the state’s marked location. All road work is marked as follows:
- Four-foot stakes with orange flagging, orange paint, or aluminum reference tags for all road types.

1-16 **CONSTRUCTION STAKES SET BY STATE**
The Purchaser shall construct the following roads in accordance with the construction stakes and reference points set in the field for grade and alignment. Prior to road construction Purchaser shall reset slope stakes after right-of-way has been cleared.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>0+00 to 26+40</td>
<td>Centerline stakes, slope stakes, and RPs</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, rock hauling, or right-of-way hauling, without written approval from the Contract Administrator.

1-22 **WORK NOTIFICATIONS**
Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before work begins.

1-23 **ROAD WORK PHASE APPROVAL**
Purchaser shall obtain written approval from the Contract Administrator upon completion of each of the following phases of road work:
- Subgrade construction
- Waste area construction
- Subgrade compaction
- Rock pit development
- Rock compaction
- Abandonment
1-25 **ACTIVITY TIMING RESTRICTION**
The specified activities are not allowed during the listed closure periods unless authorized in writing by the Contract Administrator. Restrictions for hauling forest products are specified in Contract Clause H-130 Hauling Schedule.

<table>
<thead>
<tr>
<th>Road</th>
<th>Activity</th>
<th>Closure Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Construction, Reconstruction, Pre-haul</td>
<td>October 1 to April 30</td>
</tr>
<tr>
<td></td>
<td>Maintenance, &amp; Rock Source Work</td>
<td></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 Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan must be developed. All parties shall follow this plan.

1-29 **SEDIMENT RESTRICTION**
Purchaser shall not allow silt-bearing runoff to enter any streams.

1-30 **CLOSURE TO PREVENT DAMAGE**
In accordance with Contract Clause G-220 STATE SUSPENDS OPERATION, the Contract Administrator will suspend road work or hauling right-of-way timber, forest products, or rock under the following conditions:

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

Operations must stop unless authority to continue working or hauling is granted in writing by the Contract Administrator. In the event that surface or base stability problems persist, Purchaser shall cease operations, or perform corrective maintenance or repairs, subject to specifications within this road plan.
1-32 BRIDGE AND 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.

If tracked equipment is used on bridge or asphalt surfaces, Purchaser shall immediately cease all road construction and hauling operations. Purchaser shall remove any dirt, rock, or other material tracked or spilled on the bridge or asphalt surfaces and have surfaces evaluated by the District Engineer or their designee for any damage caused by transporting equipment. Any damage to the surfaces will be repaired, at the Purchaser’s expense, as directed by the Contract Administrator.

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. Purchaser shall request a SNOW PLOWING AGREEMENT each time plowing occurs. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

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.

1-43 ROAD WORK AROUND UTILITIES
Road work is in close proximity to a utility. Known utilities are listed, but it is the Purchaser’s responsibility to identify any utilities not listed. Purchaser shall work in accordance with all applicable laws or rules concerning utilities. Purchaser is responsible for all notification, including “call before you dig”, and liabilities associated with the utilities and their rights-of-way.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Utility</th>
<th>Utility Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>0+00 to 68+40</td>
<td>Underground and or Overhead</td>
<td>811</td>
</tr>
</tbody>
</table>

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE
Purchaser shall maintain all roads used under this contract in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS for the entire term of this contract. Maintenance is required even during periods of inactivity.

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE
Purchaser shall perform maintenance on roads listed in Contract Clause C-050 PURCHASER ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.
2-3 **ROAD MAINTENANCE – DESIGNATED MAINTAINER**
Purchaser may be required to perform maintenance on roads listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER as directed by the Contract Administrator. Purchaser shall maintain roads in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-4 **PASSAGE OF LIGHT VEHICLES**
Purchaser shall maintain the following roads in a condition that will allow the passage of light administrative vehicles.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>0+00 to 142+90</td>
</tr>
<tr>
<td>L-1530 (existing)</td>
<td>0+00 to 26+10</td>
</tr>
<tr>
<td>L-1532</td>
<td>0+00 to 55+25</td>
</tr>
</tbody>
</table>

2-5 **MAINTENANCE GRADING – EXISTING ROAD**
Purchaser shall use a grader to shape the existing surface before applying rock.

2-7 **CLEANING DITCHES, HEADWALLS, AND CATCH BASINS**
On the following roads, Purchaser shall clean ditches, headwalls, and catchbasins. Pulling ditch material across the road or mixing in with the road surface is not allowed. Scatter material down slope outside of cleared right-of-way.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>106+66 to 107+80, 110+83 to 112+10, &amp; 139+48 to 140+58</td>
</tr>
<tr>
<td>L-1600</td>
<td>148+80 to 163+15</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 and within waste and debris areas, 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.

3-7 **RIGHT-OF-WAY DECKING**
Purchaser shall deck all right-of-way timber. Decks must be parallel to the road centerline and placed within the cleared right-of-way. Decks must be free of dirt, limbs, and other right-of-way debris, and removable by standard log loading equipment from the roadbed.
3-8 PROHIBITED DECKING AREAS
Purchaser shall not deck right-of-way timber in the following areas:
- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 45%.
- Against standing trees.
- On slopes above a cut bank.

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. Stumps over 22 inches diameter must be split. Stumps over 40 inches must be quartered. Grubbing must be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT
Purchaser shall place grubbed stumps outside of the clearing limits as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps must be positioned upright, with root wads in contact with the forest floor on stable locations.

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS
Purchaser is not required to remove stumps within waste areas if they are cut flush with the ground.

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 clearing and waste area limits.

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 subgrade approval.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS
Waste areas for organic debris are located as listed below and at areas approved in writing by the Contract Administrator.

<table>
<thead>
<tr>
<th>Road</th>
<th>Disposal Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>On the left side of the L-1532C at station 3+45</td>
</tr>
<tr>
<td>Jackson Pass Pit</td>
<td>As designated on the Pit Plan Map</td>
</tr>
</tbody>
</table>
3-23 PROHIBITED DISPOSAL AREAS
Purchaser shall not place organic debris in the following areas:
- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland.
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.
- On slopes above a cut bank.

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 downhill side of the road, unless otherwise detailed in this road plan and as directed by the Contract Administrator.

SECTION 4 – EXCAVATION

4-2 PIONEERING
Pioneering may not extend past construction that will be completed during the current construction season. Pioneering may not extend more than 1000 feet beyond completed construction unless approved in writing by the Contract Administrator. In addition, the following actions must be taken as pioneering progresses:
- Drainage must be provided on all uncompleted construction.
- Road pioneering operations may not undercut the final cut slope or restrict drainage.
- Culverts at live stream crossings must be installed during pioneering operations prior to embankment.

4-3 ROAD GRADE AND ALIGNMENT STANDARDS
Purchaser shall follow these standards for road grade and alignment:
- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 13 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Maximum grade change for sag vertical curves is 6% in 100 feet.
- Maximum grade change for crest vertical curves is 4% in 100 feet.

4-4 SWITCHBACK STANDARDS
A switchback is defined as a curved segment of road between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees. Purchaser shall follow these standards for switchbacks:
- Maximum adverse grades for switchbacks is 10% of the curve radius.
- Maximum favorable grades for switchbacks is 12%.
- Maximum transition grades entering and leaving switchbacks is a 5% grade change.
- Transition grades required to meet switchback grade limitations must be constructed on the tangents preceding and departing from the switchbacks.
4-5 **CUT SLOPE RATIO**
Purchaser shall construct excavation slopes no steeper than shown on the following table, unless construction staked or designed:

<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>¾:1</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>1½:1</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 3 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.

4-10 **WIDEN THE EXISTING SUBGRADE**
On the following roads, Purchaser shall widen the subgrade and fill slopes to the dimensions shown on the TYPICAL SECTION SHEET. If necessary, Purchaser shall reconstruct excavation slopes to provide sufficient width for the road surface and any ditches and turnouts.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1530</td>
<td>0+00 to 38+60</td>
</tr>
</tbody>
</table>
4-12 FULL BENCH CONSTRUCTION
On the following roads, and where side slopes exceed 45%, Purchaser shall use full bench construction for the entire subgrade width. Purchaser shall end haul waste material to the location specified in Clause 4-37 WASTE AREA LOCATION.

<table>
<thead>
<tr>
<th>Road</th>
<th>Full Bench Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>9+47 to 14+63</td>
<td>End haul all material. Material that is devoid of organic debris may be used as fill embankment.</td>
</tr>
</tbody>
</table>

4-21 TURNOUTS
On the following roads, Purchaser shall construct turnouts as designated. Purchaser shall construct non designated turnouts intervisible with a maximum distance of 1000 feet between turnouts. Locations may be adjusted to fit the final subgrade alignment and sight distances. Locations changes are subject to written approval by the Contract Administrator. Minimum dimensions are shown on the TYPICAL SECTION SHEET and ROCK LIST.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>6+25 &amp; 17+60</td>
</tr>
</tbody>
</table>

4-22 TURNAROUNDS
Turnarounds must be no larger than 30 feet long and 30 feet wide. Locations are subject to written approval by the Contract Administrator.

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION
Purchaser shall construct and reconstruct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Ditches must be constructed concurrently with construction of the subgrade.

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

4-29 DITCHOUTS
Purchaser shall construct ditchouts as identified on the CULVERT LIST and as directed by the Contract Administrator. 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.

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 in Clause 4-37 WASTE AREA LOCATION.
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. The amount of material allowed in a waste area is at the discretion of the Contract Administrator.

<table>
<thead>
<tr>
<th>Road</th>
<th>Waste Area Location</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>On the left side of the L-1532C at station 3+45</td>
<td>Pile Organic material separately from all other waste</td>
</tr>
<tr>
<td>Jackson Pass Pit</td>
<td>As designated on the Pit Plan Map</td>
<td>Pile Organic material separately from all other waste</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.

4-48  **NATIVE MATERIAL**

Native material consists of naturally occurring material that is free of organic debris, trash, and rocks greater than 4 inches in any dimension.

4-55  **ROAD SHAPING**

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

4-56  **DRY WEATHER SHAPING**

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

4-60  **FILL COMPACTION**

Purchaser shall compact all embankment and waste material in accordance with the COMPACTION LIST by routing equipment over the entire width of each lift. A plate compactor must be used for areas specifically requiring keyed embankment construction and for embankment, waste area, and segments too narrow to accommodate equipment.
4-61 SUBGRADE COMPACTION
Purchaser shall compact constructed and reconstructed subgrades in accordance with the COMPACTION LIST by routing equipment over the entire width except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before rock application and timber haul.

4-62 DRY WEATHER COMPACTION
The Contract Administrator may require the application of water to facilitate compaction activities. The method of water application is subject to written approval by the Contract Administrator.

4-63 EXISTING SURFACE COMPACTION
Purchaser shall compact maintained road surfaces in accordance with the COMPACTION LIST by routing equipment over the entire width.

SECTION 5 – DRAINAGE

5-5 CULVERTS
Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly on unprotected soil. Culverts must be new material and meet the specifications in Clauses 10-15 through 10-24. Culverts 36 inches and greater in diameter shall be made of corrugated steel.

5-6 CULVERT TYPE
Purchaser shall install culverts made of steel or plastic in accordance with Clauses 10-15 through 10-24.

5-9 BEVELED ENDS
The following culverts must have the end beveled as specified below.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Bevel Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>123+55 &amp; 125+93</td>
<td>Full 1:1, Inlet only</td>
</tr>
<tr>
<td>L-1530</td>
<td>13+77, 24+10, &amp; 26+70</td>
<td>Full 1:1, Inlet only</td>
</tr>
<tr>
<td>L-1532C</td>
<td>15+01</td>
<td>Full 1:1, Inlet only</td>
</tr>
</tbody>
</table>

5-10 CULVERT MARKER INSTALLATION
At road locations listed on the CULVERT LIST marked Y, Purchaser shall provide and install culvert markers at the inlet in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL.

5-12 UNUSED MATERIALS STATE PROPERTY
On required roads, any materials listed on the CULVERT LIST that are not installed will become the property of the state. Purchaser shall stockpile materials as directed by the Contract Administrator.
5-15 **CULVERT INSTALLATION**
Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL, LIVE STREAM INSTALLATION PROCEDURE DETAIL and the National Corrugated Metal Pipe Association’s "Installation Manual for Corrugated Steel Drainage Structures" the Corrugated Polyethylene Pipe Association’s "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer’s recommendations.

5-16 **APPROVAL FOR LARGER CULVERT INSTALLATION**
Purchaser shall obtain written approval from the Contract Administrator for the installation of culverts 36 inches in diameter and over before backfilling.

5-17 **CROSS DRAIN SKEW AND SLOPE**
Cross drains, on road grades in excess of 3%, must be skewed at least 30 degrees from perpendicular to the road centerline, except where the cross drain is at the low point in the road culverts will not be skewed. Cross drain culverts must be installed at a slope steeper than the incoming ditch grade, but not less than 3% or more than 10%.

5-18 **CULVERT DEPTH OF COVER**
All culverts must be installed with a compacted depth of cover over the top of the culvert, as recommended by the culvert manufacture for the type and size of the pipe.

5-20 **ENERGY DISSIPATERS**
Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT LIST that specify the placement of rock. Energy dissipater installation is subject to approval by the Contract Administrator. The type of energy dissipater and the amount of material must be consistent with the specifications listed on the CULVERT LIST. Placement must with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed.

5-25 **CATCH BASINS**
Purchaser shall construct catch basins in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions of catch basins are 3 feet wide and 4 feet long with back slopes consistent with Clause 4-5 CUT SLOPE RATIO.

5-26 **HEADWALLS FOR CROSS DRAIN CULVERTS**
Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts. 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. Rock must be set in place by machine. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed. Rock type must meet the specifications in Clause 6-50 LIGHT LOOSE RIP RAP.
5-27 ARMORING FOR STREAM CROSSING CULVERTS

At the following culverts, Purchaser shall place rock in conjunction with construction of the embankment. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the CULVERT LIST and as directed by the Contract Administrator. Rock may not restrict the flow of water into culvert inlets or catch basins. Rock must be set in place by machine. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed. Rock type must meet the specifications in Clauses 6-50 LIGHT LOOSE RIP RAP and Clause 6-51 HEAVY LOOSE RIP RAP.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Rock Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>109+70 &amp; 110+83</td>
<td>LIGHT LOOSE RIP RAP</td>
</tr>
<tr>
<td>L-1500</td>
<td>123+55 &amp; 125+93</td>
<td>HEAVY LOOSE RIP RAP</td>
</tr>
<tr>
<td>L-1530</td>
<td>6+50, 13+77, 24+10, &amp; 26+70</td>
<td>HEAVY LOOSE RIP RAP</td>
</tr>
<tr>
<td>L-1532C</td>
<td>15+01</td>
<td>HEAVY LOOSE RIP RAP</td>
</tr>
<tr>
<td>L-1532C</td>
<td>16+87</td>
<td>LIGHT LOOSE RIP RAP</td>
</tr>
</tbody>
</table>

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by October 1. Purchaser shall construct waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical distance of no more than 10 feet between waterbars or between natural drainage paths, and with a maximum spacing of 200 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 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, a joint operating plan must be developed. All parties shall follow this plan. Purchaser shall notify the Contract Administrator a minimum of 5 business days before starting any operations in the listed locations.

<table>
<thead>
<tr>
<th>Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jackson Pass Pit</td>
<td>NE¼ NE¼ Sec. 11, T02N, R04E, W.M.</td>
</tr>
<tr>
<td></td>
<td>NW¼ NW¼ Sec. 12, T02N, R04E, W.M.</td>
</tr>
</tbody>
</table>

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the ROCK LIST and CULVERT LIST may be obtained from the following existing stockpiles on state land at no charge to the Purchaser. Other stockpiles may not be used without prior written approval from the Contract Administrator.

<table>
<thead>
<tr>
<th>Source</th>
<th>Location</th>
<th>Rock Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1050 Stockpile</td>
<td>Station 7+10 on the L-1050</td>
<td>2 ½ - Inch Minus Crushed Rock</td>
</tr>
<tr>
<td>L-1050 Stockpile</td>
<td>Station 41+35 on the L-1050</td>
<td>PIT RUN ROCK</td>
</tr>
<tr>
<td>L-1050 Stockpile</td>
<td>Station 41+35 on the L-1050</td>
<td>LIGHT LOOSE and HEAVY LOOSE RIP RAP</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 ROCK SOURCE 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 ROCK SOURCE PLAN, and approved in writing by the Contract Administrator. Purchaser shall notify the Contract Administrator a minimum of 5 business days before starting any operations in the rock source.

<table>
<thead>
<tr>
<th>Source</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jackson Pass Pit</td>
<td>NE¼ NE¼ Sec. 11, T02N, R04E, W.M. NW¼ NW¼ Sec. 12, T02N, R04E, W.M.</td>
</tr>
</tbody>
</table>

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 during manufacture and placement into a stockpile. The exact point of evaluation for conformance to specifications will be determined by the Contract Administrator. Purchaser shall provide a sieve analysis upon request from the Contract Administrator. Gradation specifications in Clause 6-28, 6-34, 6-41, 6-50, 6-51 and the Rock Crushing Compliance Procedure.

6-28 **1 ¼-INCH MINUS CRUSHED ROCK**

- % Passing 1 ¼” square sieve: 100%
- % Passing 5/8” square sieve: 55 - 75%
- % Passing U.S. #4 sieve: 20 - 50%

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

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

6-34 **3-INCH JAW RUN ROCK**

- % Passing 3” square sieve: 100%
- % Passing 1 ½” square sieve: 45 - 65%

Ballast rock must be 100% equal to, or smaller than, 3 inches in at least one dimension. Rock may contain no more than 5 percent organic debris and trash. All percentages are by weight.
6-41 PIT RUN ROCK
No more than 50 percent of the rock may be larger than 8 inches in any dimension and no rock may be larger than 12 inches in any dimension. Pit Run rock may not contain more than 5 percent by weight of organic debris and trash. Rock may require processing to meet this specification.

6-50 LIGHT LOOSE RIP RAP
Light loose rip rap must consist of angular, hard, sound, and durable stone. It must be free from segregation, seams, cracks, and other defects tending to destroy its resistance to weather. Light loose rip rap must be free of rock fines, soil, organic debris or other extraneous material, and must meet the following requirements:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Approximate Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% to 90%</td>
<td>18” - 28”</td>
</tr>
<tr>
<td>15% to 80%</td>
<td>8” - 18”</td>
</tr>
<tr>
<td>10% to 20%</td>
<td>3” - 8”</td>
</tr>
</tbody>
</table>

6-51 HEAVY LOOSE RIP RAP
Heavy loose rip rap must consist of angular, hard, sound, and durable stone. It must be free from segregation, seams, cracks, and other defects tending to destroy its resistance to weather. Heavy loose rip rap must be free of rock fines, soil, organic debris or other extraneous material, and must meet the following requirements:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>30% to 90%</td>
<td>28” - 36”</td>
</tr>
<tr>
<td>30% to 70%</td>
<td>18” - 28”</td>
</tr>
<tr>
<td>20% to 50%</td>
<td>8” - 18”</td>
</tr>
<tr>
<td>10% to 20%</td>
<td>3” - 8”</td>
</tr>
</tbody>
</table>

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH
Measurement of specified rock depths, are defined as the compacted depths using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are loose 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.

6-56 ROCK MEASUREMENT BY TRUCK VOLUME
Measurement of Spot Rocking, Landing, Junction, Culvert Bedding, Culvert Back Fill, and Rip Rap Rock is on a cubic yard truck measure basis. The Contract Administrator will measure each truck box before rock hauling. An average of such volumes for each truck will be used to tally the volume hauled. The Contract Administrator may periodically require that a load be flattened off and its volume calculated. Purchaser shall maintain load tally sheets for each truck as shown in ROCK ACCOUNTABILITY DETAIL and shall give them to the Contract Administrator or mail them to the Pacific Cascade Region Office on a weekly basis during rocking operations.

6-70 APPROVAL BEFORE ROCK APPLICATION
Purchaser shall obtain written approval from the Contract Administrator for completed subgrade and drainage installation, including inlet and outlet armor, 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.

6-76 DRY WEATHER ROCK COMPACTION
The Contract Administrator may require the application of water to facilitate compaction of the rock surfacing. The method of water application is subject to approval by the Contract Administrator.

SECTION 8 – EROSION CONTROL

8-2 PROTECTION FOR EXPOSED SOIL
Purchaser shall provide and evenly spread a 4-inch layer of straw to all exposed soils within 100 feet of a stream or wetland. Soils must be covered before the first anticipated storm event. Soils may not sit exposed during any rain event.

8-15 REVEGETATION
Purchaser shall spread grass seed on all exposed soils within the grubbing limits resulting from road work activities using. Other methods of covering must be approved in writing by the Contract Administrator.

<table>
<thead>
<tr>
<th>Road</th>
<th>Location</th>
<th>Qty (lbs)*</th>
<th>Abandonment</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500</td>
<td>Landings</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>L-1500</td>
<td>All culvert work locations and 106+66 to 107+80, 110+83 to 112+10, &amp; 139+48 to 140+58</td>
<td>6.2</td>
<td></td>
</tr>
<tr>
<td>L-1530</td>
<td>0+00 to 38+60</td>
<td>59.5</td>
<td></td>
</tr>
<tr>
<td>L-1532</td>
<td>Landing</td>
<td>0.9</td>
<td></td>
</tr>
<tr>
<td>L-1532C</td>
<td>0+00 to 26+40</td>
<td>41.8</td>
<td>94.4</td>
</tr>
<tr>
<td>L-1600</td>
<td>148+80 to 163+15</td>
<td>5.2</td>
<td></td>
</tr>
</tbody>
</table>

*Quantities are estimates only. Actual quantities may vary and are the responsibility of the Purchaser.

8-16 REVEGETATION SUPPLY
The Purchaser shall provide the grass seed.

8-17 REVEGETATION TIMING
Purchaser shall revegetate during the first available opportunity after road work is completed. Soils may not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator.
8-19 ASSURANCE FOR SEEDED AREA
Purchaser shall ensure the growth of a uniform and dense crop at least 75% coverage of 3-inch tall grass. Purchaser shall reapply the grass seed in areas that have failed to germinate or have been damaged through any cause, restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the grass seed at no additional cost to the state.

8-25 GRASS SEED
Purchaser shall evenly spread the seed mixture listed below on all exposed soil inside the grubbing limits at a rate of 40 pounds per acre of exposed soil. Grass seed must meet the following specifications:

1. Weed seed may not exceed 0.5% by weight.
2. All seed species must have a minimum 90% germination rate, unless otherwise specified.
3. Seed must be certified.
4. Seed must be furnished in standard containers showing the following information:
   a. Common name of seed
   b. Net weight
   c. Percent of purity
   d. Percentage of germination
   e. Percentage of weed seed and inert material
5. Seed must conform to the following mixture unless a comparable mix is approved in writing by the Contract Administrator.

<table>
<thead>
<tr>
<th>Kind and Variety of Seed in Mixture</th>
<th>% by Weight</th>
<th>Minimum % germination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perennial Rye</td>
<td>25-35</td>
<td>90</td>
</tr>
<tr>
<td>Red Fescue</td>
<td>40-50</td>
<td>90</td>
</tr>
<tr>
<td>Highland Bent</td>
<td>5-15</td>
<td>85</td>
</tr>
<tr>
<td>Red and White Clover</td>
<td>10-20</td>
<td>90</td>
</tr>
<tr>
<td>Inert and Other Crop</td>
<td>0.5</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 9 – POST-HAUL ROAD WORK

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

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>0+10</td>
</tr>
</tbody>
</table>
9-2 CULVERT REMOVAL FROM LIVE STREAM
On the following road, Purchaser shall remove existing culverts from live streams and leave the resulting channel open with excavation slope and excavated channel width as specified. End haul excavated material to a waste area designated in Clause 4-37 WASTE AREA LOCATION. Culvert removal from live streams must be in accordance with the LIVE STREAM CULVERT REMOVAL PROCEDURE DETAIL, FILL REMOVAL DETAIL, and SETTLING POND AND PUMP DETAIL.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Excavated Channel Width</th>
<th>Slope Ratio</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>15+01</td>
<td>13.0 feet</td>
<td>1 ½:1</td>
<td>Remove fill to native channel depth, Remove culvert without damage, haul culvert to location specified in Clause 9-3</td>
</tr>
<tr>
<td>L-1532C</td>
<td>16+87</td>
<td>1.8 feet</td>
<td>1 ½:1</td>
<td>Remove fill to native channel depth</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, except at Station 15+01 on L-1532C. Culvert, band and gasket at Station 15+01 on L-1532C must be salvaged and delivered without damage to Larch Correction Camp located at Mile Post 1.9 on the L-1000 North Road. Upon delivery the Contract Administrator shall inspect the culvert, band and gasket for damage. After an approval by the Contract Administrator, in writing, the culvert, band and gasket shall become property of the State.

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.

9-11 LANDING EMBANKMENT
Purchaser shall slope landing embankments to the original construction specifications.

9-12 LANDING EMBANKMENT REMOVAL
Purchaser shall reduce or relocate the landing embankment. Place excavated material in a waste area designated by the Contract Administrator.

9-21 ROAD ABANDONMENT
Purchaser shall abandon the following roads before the termination of this contract by the specified date. Work must be in accordance with the ROAD ABANDONMENT CROSS SECTIONS DETAIL.

<table>
<thead>
<tr>
<th>Road</th>
<th>Stations</th>
<th>Type</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1532C</td>
<td>0+00 to 14+00 &amp; 17+25 to 26+40</td>
<td>LIGHT</td>
<td>Before the termination of this contract</td>
</tr>
<tr>
<td>L-1532C</td>
<td>14+00 to 17+25</td>
<td>HEAVY</td>
<td>Before the termination of this contract</td>
</tr>
</tbody>
</table>
9-22 **LIGHT ABANDONMENT**
- Rip the surface to a minimum depth of 10 inches.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing which will produce a vertical drop of no more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 200 feet, or as marked in the field.
- 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 shall be outsloped to provide positive drainage. Outlets shall be on stable locations.
- Remove culverts and leave the resulting trench open. The removed fill material shall be placed and compacted in a location that will not erode into any Type 1 through 5 waters or wetlands. Slope all trench walls and approach embankments no steeper than 1.5:1.
- Scatter woody debris onto abandon road surfaces.
- Block roads with earthen barricades according to the attached EARTHEN BARRICADE DETAIL.
- Apply grass seed concurrently with abandonment to all exposed soil within the old roadway limits and in accordance with Section 8 EROSION CONTROL.
- Provide and evenly spread a 4-inch layer of straw to all exposed soils within 100 feet of a stream.

9-24 **HEAVY ABANDONMENT**
- Fill in ditches.
- Outslope the surface to conform to natural ground.
- Remove embankments, sidecast fill, and place material into cut-banks and shape banks to conform to the natural ground.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing which will produce a vertical drop of no more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 200 feet, or as marked in the field.
- 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 shall be outsloped to provide positive drainage. Outlets shall be on stable locations.
- Remove cross drain culvert and leave the resulting trench open. Slope all trench walls and approach embankments no steeper than 1.5:1.
- Remove stream culverts in accordance with Clause 9-2 CULVERT REMOVAL FROM LIVE STREAM.
- Scatter woody debris onto abandon road surfaces.
- Apply grass seed concurrently with abandonment to all exposed soil within the old roadway limits and in accordance with Section 8 EROSION CONTROL.
- Provide and evenly spread a 4-inch layer of straw to all exposed soils within 100 feet of a stream.

**SECTION 10 MATERIALS**

10-15 **CORRUGATED STEEL CULVERT**
Metallic coated steel culverts must meet AASHTO M-36 (ASTM A-760) specifications. Culverts must be must be aluminized (aluminum type 2 coated meeting AASHTO M-274).

10-17 **CORRUGATED PLASTIC CULVERT**
Polyethylene culverts must meet AASHTO M-294 specifications, or ASTM F-2648 specifications for recycled polyethylene. Culverts must be Type S – double walled with a corrugated exterior and smooth interior.
10-21 METAL BAND
Metal coupling and end bands must meet the AASHTO specification designated for the culvert and must have matching corrugations. Culverts 24 inches and smaller must have bands with a minimum width of 12 inches. Culverts over 24 inches must have bands with a minimum width of 24 inches.

10-22 PLASTIC BAND
Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used. Couplings must be split coupling band. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe joint.

10-23 RUBBER CULVERT GASKETS
Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands on culvert diameters 42 inches and greater.

10-24 GAUGE AND CORRUGATION
Metal culverts must conform to the following specifications for gage and corrugation as a function of diameter.

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<th>Diameter</th>
<th>Gauge</th>
<th>Corrugation</th>
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<tr>
<td>18&quot;</td>
<td>16 (0.064&quot;)</td>
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<tr>
<td>24&quot; to 48&quot;</td>
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<td>2 2/3&quot; X 1/2&quot;</td>
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<tr>
<td>54&quot;</td>
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<td>5&quot; X 1&quot;</td>
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* Optional Roads
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<th>Turnout</th>
<th>Length (feet)</th>
<th>Width (feet)</th>
<th>Taper (feet)</th>
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Required PIT RUN BALLAST TOTAL 205 Cubic Yards
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Required 1 1/4 -INCH MINUS CRUSHED TOTAL **4,299** Cubic Yards
Required 2 1/2 -INCH MINUS CRUSHED TOTAL **540** Cubic Yards
RIP-RAP

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LIGHT LOOSE RIPRAP

Culvert headwall and energy dissipators

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<th>Rock Slope</th>
<th>Station</th>
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<tbody>
<tr>
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HEAVY LOOSE RIPRAP

Culvert headwall and energy dissipators

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LIGHT LOOSE RIPRAP TOTAL 159.0 Cubic Yards
HEAVY LOOSE RIPRAP TOTAL 371.0 Cubic Yards
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Remarks:
- Cross drain
- Replace existing cross drain – no skew
- Cross drain
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**Key:**
- **CR** - Crushed Rock – 1 ¼ ” minus and 2 ½ ” minus
- **NT** - Native (bank run)
- **SR** - Shot Rock
- **SPR** - Select Pit Run
- **LL** - Light Loose Riprap
- **HL** - Heavy Loose Riprap
- **GM** - Galvanized Metal
- **PS** - Polyethylene Pipe Single Wall
- **PD** - Polyethylene Pipe Dual Wall
- **AM** - Aluminized Metal
- **XX** - PD or GM
- **PSDS** - Polyethylene Pipe Single Wall Full Round Pipe
- **GMDS** - Galvanized Metal Full Round Pipe
- **PSFL** - Polyethylene Pipe Single Wall Half Round Pipe
- **GMFL** - Galvanized Metal Half Round Pipe
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<th>To Station</th>
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INSTALLATION REQUIREMENTS:
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly supported along the barrel.
2. Backfill material shall be compacted under the culvert haunches, around the sides, and above the culvert in accordance with the COMPACTON LIST.

ALL DRAWINGS ARE NOT TO SCALE

CULVERT PROFILE (TYPICAL)
- Normal Backslope
- Minimum height of cover as specified in the Road Plan
- Subgrade
- Backfill Material as specified on the CULVERT LIST
- Energy Dissipater as specified on the ROCK LIST
- Bedding Material as specified on the CULVERT LIST
- Stable Ground
- Catch Basin Min 1.5 Culvert Dia.

CULVERT WITH DOWNSPOUT OPTION 1
- Min 5 ft
- Double walled polyethylene culvert
- Coupling (Buried)
- Single walled polyethylene downspout

CULVERT WITH DOWNSPOUT OPTION 2
- Turner Elbow (See Detail)
- Max 10 ft

SUPPORT STAKES
- Min 1 culvert dia
- Min 1 ft
Stake Material: T-post with rust protection coating.
Connections: Bolt support stakes to the culvert with 3/8” u-bolts, with washers on both the inside and outside of the culvert.
Alternative staking methods may be approved, in writing, by the Contract Administrator.

TURNER ELBOW
- Culvert Diameter
- Culvert
- Downspout
- Bolted with 3/8” galvanized bolts and washers (both sides)
- Downspout must be 6 inches larger in diameter than the culvert.
CULVERT MARKERS

Culvert Marker Material: 1 Inch I.D., Schedule 40 PVC Pipe, White. Marker must be capped on the top. Culvert Marker Placement: Place on uphill side of culvert, between corrugations if possible. Alternative culvert marker types may be approved, in writing, by the Contract Administrator.

ENERGY DISSIPATERS

Material as specified on the CULVERT LIST

Level Side Hill

Min Energy Dissipater Depth: 1 Culvert Dia.


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

Surface
- Grade 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.
LIVE STREAM INSTALLATION PROCEDURE

Order of work is as follows, deviations shall be approved, in writing, by the Contract Administrator.

1) Purchaser shall notify the State of intent to start project, and a pre-work conference shall be held before move in of equipment. State will designate a representative that will remain on site at all times when work is being performed in creek channel.

2) Work period shall be restricted to the permitted times stated in an approved FPA. Work period on Np and Ns streams that are not covered by an FPA shall be permitted only during the dry weather seasonal low flow period between June 1 and October 1; any work outside of this timing restriction may be granted in writing by the Contract Administrator only during unseasonably low flows.

3) Assemble the items on the Materials List onsite before proceeding.

4) Set up pumps (one as backup).

5) Dam up stream with sandbags and line floor of dam with plastic (to prevent sub-surface water flow), place clean rock on plastic to hold in place, and key leading edge of plastic into channel bottom - see SETTLING POND AND PUMP DETAIL. Build a settling pond at culvert outlet. Fill may need to be removed before the settling pond installation due to space limitations. Pump clean water at catch basin around work site and back into stream. Dirty water shall be pumped away from site and onto forest floor a minimum of 200 feet from live streams. Silt fence shall be erected at base of fill slope and bottom edge of fence shall be keyed into slope and held in place with rocks to prevent water from flowing under the silt fence.

6) Remove remainder of fill and culvert.

7) Remove settling pond.

8) Cover exposed soils within 100 feet of all live streams with straw (minimum depth of 4 inches) and grass seed.

Materials List:

- 3 pumps, (one as a backup) The clean water pump (dam at culvert catch basin) shall have a minimum capacity of 1200 gallons per minute. The dirty water pump (settling pond) and the backup pump shall each have a minimum capacity of 600 gpm. Culvert removal should not start during rain or threat of rain;
- plastic sheet;
- silt fence and stakes;
- bales of straw.
Build settling pond. Fill may need to be removed before pond can be built.

Place silt fence at base of fill slope to catch surface run-off (it raining).

Pump dirty water from site onto forest floor (200 feet minimum) from live streams.

Line floor of dam with plastic sheet to prevent subsurface flow of water.

Legend

- Pump
- Ditch
LIVE STREAM REMOVAL PROCEDURE

Order of work is as follows, deviations shall be approved, in writing, by the Contract Administrator.

1) Purchaser shall notify the State of intent to start project, and a pre-work conference shall be held before move in of equipment. State will designate a representative that will remain on site at all times when work is being performed in creek channel.

2) Work period shall be restricted to the permitted times stated in an approved FPA. Work period on Np and Ns streams that are not covered by an FPA shall be permitted only during dry weather and seasonal low flow period between June 1 and October 1; any work outside of this timing restriction may be granted in writing by the Contract Administrator only during unseasonably low flows.

3) Assemble the items on the Materials List onsite before proceeding.

4) Set up pumps (one as backup).

5) Dam up stream with sandbags and line floor of dam with plastic (to prevent sub-surface water flow), place clean rock on plastic to hold in place, and key leading edge of plastic into channel bottom - see SETTLING POND AND PUMP DETAIL. Build a settling pond at culvert outlet. Fill may need to be removed before the settling pond installation due to space limitations. Pump clean water at catch basin around work site and back into stream. Dirty water shall be pumped away from site and onto forest floor a minimum of 200 feet from live streams. Silt fence shall be erected at base of fill slope and bottom edge of fence shall be keyed into slope and held in place with rocks to prevent water from flowing under the silt fence.

6) Remove 95% of fill (see FILL REMOVAL DETAIL). Excavated channel slopes shall be consistent with requirements stated in Clauses 9-2, 9-22 and 9-24.

7) Remove remainder of fill, logs from fill, and any culverts.

8) Remove settling pond.

9) Cover exposed soils within 100 feet of all live streams with weed free straw (minimum depth of 4 inches) and grass seed.

Materials List:

- 3 pumps, (one as a backup) The clean water pump (dam at culvert catch basin) shall have a minimum capacity of 1200 gallons per minute. The dirty water pump (settling pond) and the backup pump shall each have a minimum capacity of 600 gpm. Culvert removal should not start during rain or threat of rain;
- plastic sheet;
- silt fence and stakes;
- bales of weed free straw.
- Remove fill in layers not to exceed 3 feet.
PARCHED LARCH

30-101895                JUNE 16, 2021

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THE BARRIER/}E
INCORPORATED INTO THE TRAFFIC SIDE OF
SLASH AND ROOT WADS SHALL BE

EARTHEN BARRICADE DETAIL
# ROCK ACCOUNTABILITY DETAIL

SALE NAME: ____________________________  
Purchaser: ____________________________

Agreement #: ____________________________  
Contractor: ____________________________

Rock Quarry/Pit: ____________________________  
Truck No: ____________________________

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Truck Driver Signature  
SIGNATURE: ______________________  DATE: _____________

PARCHED LARCH  
30-101895  
JUNE 16, 2021  
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Rock Crushing Compliance Procedure

Phase I. Equipment Adjustment

Step 1: At start up of crushing operations, the contractor will notify the contract administrator when the rock meets the gradation specifications in the contract. None of the rock crushed during this calibration period will be counted toward the amount required to be crushed, and this rock must be kept separate from accepted rock crushed later.

Step 2: The contract administrator will test the rock. Two samples will be taken. If the rock meets specifications, crushing may begin. If the rock does not meet specifications, return to Step 1.

Phase II. Production

Step 3: The contract administrator will continue periodic testing to ensure that rock stays in spec. Testing will take place according to the following schedule:

- After the first 500 yards
- After every 1,000 yards thereafter

a) Any time a sample is out of spec, but is within 5%*, the contractor will be notified and a second sample will be taken later in the day. If the second sample meets specifications, the rock crushed during that day will be accepted. If the second sample also fails to meet spec, none of the rock crushed since the last acceptable test will be counted toward the amount to be crushed.

b) Any time a sample is out of spec and is more than 5% off in any category, none of the rock crushed since the last acceptable test will be accepted and that rock must be kept separate from the stockpile. Return to Step 1.

c) Contractors are strongly encouraged to take their own samples regularly and keep their operations in spec to avoid unnecessary expenses.

- The 5% will be applied only to sieve specs for 2” to ¼”; rock that is out of spec in larger sizes must be kept separate from the acceptable rock.
INFORMATIONAL BLASTING PLAN

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

1. Blaster-in-Charge: Name: __________________________
   Company: __________________________
   Address: __________________________
   Telephone: __________________________

2. Quarry Name/Location: __________________________

3. Total Estimated Cubic Yards in Blast (loose): __________________________

4. Hole Spacing: __________________________

5. Burden: __________________________

6. Hole Diameter: __________________________

7. Hole Depth: __________________________

8. Sub Drill: __________________________

9. Number of Holes: __________________________

10. Stemming Depth: __________________________

11. Explosive (mfg., name, density, %, V.O.D.): __________________________

12. Type and Size of Primer (if applicable): __________________________

13. Total Weight of Primers for Shot: __________________________

14. Calculated Powder Factor/Cubic Yard: __________________________

15. Number of Delays (in M.S.): __________________________

M-126PAC (03/04)
16. Number of Holes Fired on Each Delay: ____________________________________________

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

18. Type of Blasting Machine: _____________________________________________________

19. Date, Start Drilling: ____________________________________________________________

20. Date and Time, Start Loading: _________________________________________________

21. Date and Time of Blast (approx.): _______________________________________________
22. Detail drawing of delay system (show hole pattern and delays in milliseconds). Attach additional sheets if required:

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

23. Submitted by: ___________________________ Date: ___________________________

24. Received by: ___________________________ Date: ___________________________

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

M-126PAC (03/04)
1. Development shall take place in Mining Area 1 as indicated on the Pit Development Plan Map for the Jackson Pass Pit.

2. All vegetation including stumps shall be cleared a minimum of 25 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. The Contractor shall maintain a minimum of 15 foot wide area stripped to rock from the pit face at all times. All Clearing shall be approved in writing by the Contract Administrator prior to overburden removal.

3. Overburden from the Jackson Pass Pit shall be end hauled to the waste area as indicated on the Pit Development Plan Map. All waste material shall be compacted. Minimal acceptable compaction is achieved by placing waste material in 1 foot or shallower lifts and routing excavation equipment over entire width of the lifts. All Overburden removal shall be approved in writing by the Contract Administrator prior to any drilling operation and or rock extraction.

4. Root wads and organic debris larger than one cubic foot in volume shall be separated from overburden material and piled in the designated Waste Area.

5. The Operator shall submit an informational drilling and shooting plan to the Contract Administrator 5 working days prior to any drilling. (Form #M-126PAC)

6. Drilling may begin when the Contract Administrator has approved, in writing, all of the Clearing, Grubbing and Overburden removal. Purchaser shall block access roads and trails before blasting operations.

7. Pit faces shall not exceed 30 feet in height. All pit faces shall be sloped no steeper than ¼:1.

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

9. The pit floor shall have continuity of slope and be left in a smooth and neat condition, providing drainage at a minimum of 2 percent. All knobs, bumps, or extrusions shall be removed to the designated floor level by excavation or drill and shoot techniques. The installation of a culvert may be necessary to drain water from the pit floor in locations where the pit floor is adjacent to a road. The location of the culvert shall be subject to approval of the Contract Administrator. No sediment shall enter live water.

10. The location and amount of material to be placed in a temporary stockpile are subject to approval of the Contract Administrator. All stock piled material shall be maintained in a neat and useable condition.

11. Oversize material remaining in the rock source at the conclusion of use shall not exceed 5 percent of the total volume mined during that operation. Oversize material is defined as rock fragments larger than two feet in any direction. At the conclusion of operations, all remaining oversize material shall be placed at the location shown on the Pit Development Plan Map and as directed by the Contract Administrator in a location outside of the future development.

12. At the end of operations, pit faces and walls shall be scaled and cleared of loose and overhanging material and shall not be undermined or over steepened; benches shall have safety berms constructed or access blocked to highway vehicles. Access roads/trails shall have Non-driveable waterbars constructed in accordance with the NON-DRIVEABLE WATER BAR DETAIL as directed by the Contract Administrator. Upon completion of operations in the pit, the area will be left in a condition that will not endanger public safety, damage property, or be hazardous to human life.

13. All exposed soil in the waste area, access roads, and exposed banks shall be grass seeded in accordance with Road Plan Clauses 8-15 and 8-25.

14. All operations shall be carried out in compliance with all regulations of:
   a. Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations@ (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration.

15. The Operator shall submit an informational drilling and shooting report to the Contract Administrator after blasting has occurred. (Form #M-126PAC)

16. The pit area shall be worked and left in a condition that future operations may proceed in an orderly manner. Upon completion of operations, the site shall be cleared of all temporary structures/equipment and rubbish, access roads shall be blocked with riprap at locations as directed by the Contract Administrator, and shall be left in a neat and presentable condition. At the completion of rock source operations, Contractor shall ask Contract Administrator for written approval of final rock source condition and compliance with the terms of this plan.
DEVELOPMENT

Overburden and debris shall be deposited in areas approved by State Representative. Prior to removal of material, a 3 foot berm shall be constructed along the edge of the pit. The berm shall have openings to allow for drainage.

Mining shall begin in Area 1.

Faces with heights over 20 feet shall be sloped at 1/4:1. Working bench width shall be a minimum of 20 feet.

Contractor shall maintain a 20 foot wide stripped area from the pit face at all times.

All operations shall be carried out in accordance with all Federal and State L & I regulations and State Mining WAC.

RECLAMATION

At the end of operations, pit faces and walls shall be scaled and cleared of loose and overhanging material. Upon completion of operations in the pit, the area will be left in a condition that will not endanger public safety, damage property, or be hazardous to human life or animals.

The pit area shall be worked and left in condition that future operations may proceed in an orderly manner.

Upon completion of operations, the site shall be cleared of all temporary structures, equipment and rubbish, and shall be left in a neat and presentable condition.
L-Stn : 0+00  
Cut Dp: 0  
Grd.Lst: n/a  
Stk L X: -12  
Stk L Y: 1  
Stk R X: 13  
Stk R Y: 2

L-Stn : 0+22  
Cut Dp: 3  
Grd.Lst: 12  
Stk L X: -11  
Stk L Y: 0  
Stk R X: 16  
Stk R Y: 5

L-Stn : 1+29  
Cut Dp: -1  
Grd.Lst: 12  
Stk L X: -12  
Stk L Y: -3  
Stk R X: 12  
Stk R Y: 1

L-Stn : 2+76  
Cut Dp: 0  
Grd.Lst: 12  
Stk L X: -11  
Stk L Y: -2  
Stk R X: 12  
Stk R Y: 1

L-Stn : 3+45  
Cut Dp: 0  
Grd.Lst: 12  
Stk L X: -10  
Stk L Y: -2  
Stk R X: 13  
Stk R Y: 2

L-Stn : 3+65  
Cut Dp: 1  
Grd.Lst: 13  
Stk L X: -9  
Stk L Y: -1  
Stk R X: 15  
Stk R Y: 4

L-Stn : 4+42  
Cut Dp: 0  
Grd.Lst: 13  
Stk L X: -15  
Stk L Y: -5  
Stk R X: 15  
Stk R Y: 4

L-Stn : 5+58  
Cut Dp: 1  
Grd.Lst: 13  
Stk L X: -13  
Stk L Y: -4  
Stk R X: 18  
Stk R Y: 7

L-Stn : 7+04  
Cut Dp: 1  
Grd.Lst: 10  
Stk L X: -30  
Stk L Y: -10
## SUMMARY - Road Development Costs

**REGION:** Pacific Cascade  
**DISTRICT:** Yacolt

**SALE/PROJECT NAME:** Parched Larch  
**AGREEMENT #:** 30-101895

<table>
<thead>
<tr>
<th>ROAD NUMBERS:</th>
<th>L-1532C</th>
<th>L-1530</th>
<th>L-1500, L-1532, L-1560, &amp; L-1600</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROAD STANDARD:</td>
<td>Construction</td>
<td>Reconstruction</td>
<td>Maintenance</td>
</tr>
<tr>
<td>NUMBER OF STATIONS:</td>
<td>26.40</td>
<td>38.60</td>
<td>501.55</td>
</tr>
<tr>
<td>CLEARING &amp; GRUBBING, EXCAVATION AND FILL, MISC.:</td>
<td>$25,892.29</td>
<td>$13,459.46</td>
<td>$16,393.81</td>
</tr>
<tr>
<td>ROAD ROCK:</td>
<td>Optional: $0.00</td>
<td>$0.00</td>
<td>$0.00</td>
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<tr>
<td>Required:</td>
<td>$35,364.07</td>
<td>$47,564.35</td>
<td>$55,309.53</td>
</tr>
<tr>
<td>Total:</td>
<td>$35,364.07</td>
<td>$47,564.35</td>
<td>$55,309.53</td>
</tr>
<tr>
<td>STOCKPILE/PIT DEVELOPMENT:</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>CULVERTS AND FLUMES:</td>
<td>$15,891.79</td>
<td>$20,402.08</td>
<td>$13,969.36</td>
</tr>
<tr>
<td>STRUCTURES:</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>DUST ABATEMENT</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>MOBILIZATION:</td>
<td>$1,150.89</td>
<td>$1,186.85</td>
<td>$1,258.79</td>
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<tr>
<td>TOTAL COSTS:</td>
<td>$78,299.04</td>
<td>$82,612.74</td>
<td>$86,931.49</td>
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<tr>
<td>COST PER STATION:</td>
<td>$2,966</td>
<td>$2,140</td>
<td>$173</td>
</tr>
<tr>
<td>ROAD DEACTIVATION &amp; ABANDONMENT COSTS:</td>
<td>$5,746.99</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

10% OVERHEAD AND GENERAL EXPENSE = $25,359.03  
TOTAL (All Roads) = $278,949.29  
TOTAL (Minus Optional Rock) = $278,949.29  
SALE VOLUME MBF = 3,117  
TOTAL $/MBF = $89.49  
TOTAL $/MBF (Minus Optional Rock) = $89.49

Profit and Risk costs are accounted on an individual basis.

Compiled by: David Stone  
Date: June 16, 2021
### SUMMARY OF ROAD

<table>
<thead>
<tr>
<th>Sale:</th>
<th>Parched Larch</th>
<th>Road:</th>
<th>L-1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-Haul Maintenance-</td>
<td>192.40 stations</td>
<td>Required Reconstruction -</td>
<td>0.00 stations</td>
</tr>
<tr>
<td>3.64 miles</td>
<td></td>
<td>0.00 miles</td>
<td></td>
</tr>
<tr>
<td>Required Abandonment-</td>
<td>0.00 stations</td>
<td>Optional Reconstruction -</td>
<td>0.00 stations</td>
</tr>
<tr>
<td>0.00 miles</td>
<td></td>
<td>0.00 miles</td>
<td></td>
</tr>
</tbody>
</table>

### PRE-HAUL MAINTENANCE

#### CLEARING

**Excavation**
- Excavate ditchline and scatter material/ clean ditch - 3.51 stations @ $26.60 per station = $93.37
- Excavate culvert @ Station 123+75 and back fill with on site fill material - 2.5 hours @ $172.00 per hour = $430.00
- Remove culverts from state lands - 4 @ $75.00 per station = $300.00

#### MISC.
- Grade and shape existing road surface - 192.40 stations @ $18.80 per station = $3,617.12
- Roll shaped road surface w/ vibratory roller prior to rocking - 192.40 stations @ $42.50 per station = $7,912.50
- Grass seed - 10.7 lbs @ $3.00 per lb = $32.10

**ENDHAUL**

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.:** $6,939.80

### RECONSTRUCTION

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.:** $0.00

### CONSTRUCTION

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.:** $0.00

### CULVERTS - MATERIALS & INSTALLATION

<table>
<thead>
<tr>
<th>Culverts &amp; Bands</th>
<th>LF of 18&quot;</th>
<th>$5,573.58</th>
<th>66 LF of 24&quot;</th>
<th>$1,595.38</th>
</tr>
</thead>
<tbody>
<tr>
<td>325</td>
<td>LF of 30&quot;</td>
<td>0</td>
<td>40 LF of 36&quot;</td>
<td>$2,368.80 w/bevel</td>
</tr>
<tr>
<td>58</td>
<td>LF of 42&quot;</td>
<td>$4,319.60 w/gasket-bevel</td>
<td>0 LF of 48&quot;</td>
<td>$0.00</td>
</tr>
<tr>
<td>0</td>
<td>LF of 54&quot;</td>
<td>$0.00</td>
<td>0 LF of 60&quot;</td>
<td>$0.00</td>
</tr>
<tr>
<td>0</td>
<td>LF of 66&quot;</td>
<td>$0.00</td>
<td>0 LF of 72&quot;</td>
<td>$0.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$9,093.18</td>
<td></td>
<td>$3,964.18</td>
</tr>
<tr>
<td>Half Rounds</td>
<td>0</td>
<td>LF of 24&quot;</td>
<td>$0.00</td>
<td>0 LF of 30&quot;</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>LF of 36&quot;</td>
<td>$0.00</td>
<td>0 LF of 42&quot;</td>
</tr>
</tbody>
</table>

**Culvert Stakes & Markers**
- 0 stakes @ $0.00
- 14 markers @ $112.00

**TOTAL CULVERTS:** $13,969.36

### ROCK

| 267+14 to 316+64 | 1,605 cy. of | 1 1/4" Minus | @ $12.64 per c.y.= $20,287.20 |
| 0+00 to 142+90 Spot Rock | 400 cy. of | 2 1/2" Minus | @ $7.86 per c.y.= $3,144.00 |
| Landings | 205 cy. of | PR-Run | @ $9.02 per c.y.= $1,894.10 |
| Energy Dissipator/Headwall - culverts | 63.0 cy. of | Riprap HL | @ $10.89 per c.y.= $686.07 |
| Energy Dissipator/Headwall - culverts | 59.0 cy. of | Riprap LL | @ $9.77 per c.y.= $576.43 |
| Bedding/Backfill- culverts | 140 cy. of | 2 1/2" Minus | @ $6.85 per c.y.= $959.00 |

**TOTAL ROCK:** $27,501.80

### ADDITIONAL REQUIREMENTS

| 140.0 c.y. | @ $0.60 per c.y. | $84.00 |
| 0.15 acres | @ $600.00 per acre | $90.00 |

**TOTAL ADDITIONAL REQUIREMENTS:** $183.00

### ABANDONMENT

| Required Pre-Haul Maintenance- | $48,593.96 |
| Required Reconstruction - | $0.00 |
| Required Abandonment- | $0.00 |
| Optional Reconstruction - | $0.00 |

**TOTAL ABANDONMENT:** $48,593.96

**COST PER STATION:** $252.57
### SUMMARY OF ROAD

#### Sale: Parched Larch

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Stations</th>
<th>Miles</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-Haul Maintenance</td>
<td>90+75</td>
<td>1.72</td>
<td>$4,661.93</td>
</tr>
<tr>
<td>Required Reconstruction</td>
<td>0.00</td>
<td>0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Required Construction</td>
<td>0.00</td>
<td>0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Optional Abandonment</td>
<td>0.00</td>
<td>0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Optional Reconstruction</td>
<td>0.00</td>
<td>0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Optional Construction</td>
<td>0.00</td>
<td>0.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

#### Road: L-1560

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Stations</th>
<th>Miles</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-Haul Maintenance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required Reconstruction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required Construction</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Optional Abandonment</td>
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<td></td>
</tr>
<tr>
<td>Optional Reconstruction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional Construction</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### PRE-HAUL MAINTENANCE

**CLEARING**

**EXCAVATION**

**MISC.**

- Grade and shape existing road surface - 90.75 stations @ $18.80 per station = $1,706.10
- Roll shaped road surface w/ vibratory roller prior to rocking - 90.75 stations @ $9.10 per station = $825.83

ENDHAUL

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.** $2,531.93

#### RECONSTRUCTION

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

ENDHAUL

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.** $0.00

#### CONSTRUCTION

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

ENDHAUL

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.** $0.00

#### CULVERTS - MATERIALS & INSTALLATION

<table>
<thead>
<tr>
<th>Culverts</th>
<th>LF of 18&quot;</th>
<th>0.00</th>
<th>0 LF of 24&quot;</th>
<th>0.00</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LF of 30&quot;</td>
<td>0.00</td>
<td>LF of 36&quot;</td>
<td>0.00</td>
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<tr>
<td></td>
<td>LF of 42&quot;</td>
<td>0.00</td>
<td>LF of 48&quot;</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>LF of 54&quot;</td>
<td>0.00</td>
<td>LF of 60&quot;</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>LF of 66&quot;</td>
<td>0.00</td>
<td>LF of 72&quot;</td>
<td>0.00</td>
</tr>
<tr>
<td>Half Rounds</td>
<td>LF of 24&quot;</td>
<td>0.00</td>
<td>LF of 30&quot;</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>LF of 36&quot;</td>
<td>0.00</td>
<td>LF of 42&quot;</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Culvert Stakes & Markers**

| 0 stakes                  | $0.00     |
|                          | $0.00     |

**TOTAL CULVERTS** $0.00

#### ROCK

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost per unit</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>0+00 to 90+75 Spot Rock</td>
<td>150</td>
<td>cy. of</td>
<td>$14.20 per c.y.</td>
<td>$2,130.00</td>
</tr>
</tbody>
</table>

**TOTAL ROCK** $2,130.00

#### ADDITIONAL REQUIREMENTS

**TOTAL ADDITIONAL REQUIREMENTS** $0.00

#### ABANDONMENT

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-Haul Maintenance</td>
<td>$4,661.93</td>
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<tr>
<td>Required Reconstruction</td>
<td>$0.00</td>
</tr>
<tr>
<td>Required Abandonment</td>
<td>$0.00</td>
</tr>
<tr>
<td>Optional Construction</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**TOTAL ABANDMENT** $4,661.93

**SUBTOTAL** $4,661.93

**TOTAL** $4,661.93

**COST PER STATION** $51.37
SUMMARY OF ROAD

Sale: Parched Larch  Road: L-1532

**PRE-HAUL MAINTENANCE**

**CLEARING**

**EXCAVATION**

MISC.

- Grade and shape existing road surface - 55.25 stations @ $18.80 per station = $1,038.70
- Roll shaped road surface w/ vibratory roller prior to rocking - 55.25 stations @ $9.10 per station = $502.78
- Construct landing - 1.00 @ $142.50 each = $142.50
- Grass seed - 0.90 lbs @ $3.00 per lb = $2.70

**ENDHAUL**

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. = $1,686.68

**RECONSTRUCTION**

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

**ENDHAUL**

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. = $0.00

**CONSTRUCTION**

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

**ENDHAUL**

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. = $0.00

**CULVERTS - MATERIALS & INSTALLATION**

- **Culverts**
  - 0 LF of 18" = $0.00
  - 0 LF of 24" = $0.00
  - 0 LF of 30" = $0.00
  - 0 LF of 42" = $0.00
  - 0 LF of 54" = $0.00
  - 0 LF of 66" = $0.00

- **Half Rounds**
  - 0 LF of 24" = $0.00
  - 0 LF of 30" = $0.00
  - 0 LF of 36" = $0.00

- **Culvert Stakes & Markers**
  - 0 stakes = $0.00
  - 0 markers = $0.00

TOTAL CULVERTS = $0.00

**ROCK**

- 0+00 to 55+25 Spot Rock
  - 80 cy. of 1 1/4" Minus @ $15.98 per c.y. = $1,278.40
- Landing
  - 41 cy. of 3" Jaw Run @ $16.17 per c.y. = $662.97

TOTAL ROCK = $1,941.37

**ADDITIONAL REQUIREMENTS**

TOTAL ADDITIONAL REQUIREMENTS = $0.00

**ABANDONMENT**

**Total Pre-Haul Maintenance**

- 55+25 stations @ $3,628.05 = $3,628.05

**Total Abandonment**

- 0+00 @ $0.00 = $0.00

**Total Construction**

- 0+00 @ $0.00 = $0.00

**SUBTOTAL**

TOTAL ABANDONMENT = $3,628.05

**TOTAL**

COST PER STATION = $65.67
## SUMMARY OF ROAD

<table>
<thead>
<tr>
<th>Sale:</th>
<th>Parched Larch</th>
<th>Road:</th>
<th>L-1600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>Pre-Haul Maintenance-</td>
<td>163+15 stations</td>
<td>0.00 miles</td>
</tr>
<tr>
<td>Required Abandonment-</td>
<td>0+00 stations</td>
<td>0.00 miles</td>
<td></td>
</tr>
</tbody>
</table>

### PRE-HAUL MAINTENANCE

**CLEARING**
- **EXCAVATION**
  - Excavate ditchline and scatter material/ clean ditch -
    - 14.35 stations @ $26.60 per station = $381.71

**MISC.**
- Grade and shape existing road surface -
  - 163.15 stations @ $18.80 per station = $3,067.22
- Roll shaped road surface w/ vibratory roller prior to rocking -
  - 163.15 stations @ $9.10 per station = $1,484.67
- Grass seed -
  - 5.2 lbs @ $3.00 per lb = $15.60

**ENDHAUL**
- TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. $5,052.40

### RECONSTRUCTION

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

**ENDHAUL**
- TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. $0.00

### CONSTRUCTION

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

**ENDHAUL**
- TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. $0.00

### CULVERTS - MATERIALS & INSTALLATION

<table>
<thead>
<tr>
<th>Culverts</th>
<th>0</th>
<th>LF of 18&quot;</th>
<th>$0.00</th>
<th>0</th>
<th>LF of 24&quot;</th>
<th>$0.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>LF of 30&quot;</td>
<td>$0.00</td>
<td>0</td>
<td>LF of 36&quot;</td>
<td>$0.00</td>
<td></td>
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<tr>
<td>0</td>
<td>LF of 42&quot;</td>
<td>$0.00</td>
<td>0</td>
<td>LF of 48&quot;</td>
<td>$0.00</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>LF of 54&quot;</td>
<td>$0.00</td>
<td>0</td>
<td>LF of 60&quot;</td>
<td>$0.00</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>LF of 66&quot;</td>
<td>$0.00</td>
<td>0</td>
<td>LF of 72&quot;</td>
<td>$0.00</td>
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<table>
<thead>
<tr>
<th>Half Rounds</th>
<th>0</th>
<th>LF of 24&quot;</th>
<th>$0.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>LF of 30&quot;</td>
<td>$0.00</td>
<td></td>
</tr>
<tr>
<td>0</td>
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<tr>
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<td>LF of 42&quot;</td>
<td>$0.00</td>
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<table>
<thead>
<tr>
<th>Culvert Stakes &amp; Markers</th>
<th>0</th>
<th>stakes</th>
<th>$0.00</th>
<th>0</th>
<th>markers</th>
<th>$0.00</th>
</tr>
</thead>
</table>

**ROCK**
- 114+00 to 163+15
  - 1,554 cy. of 1 1/4" Minus @ $13.34 per c.y. = $20,730.36
- Spot Rock 0+00 to 114+00
  - 200 cy. of 1 1/4" Minus @ $15.03 per c.y. = $3,006.00

**TOTAL ROCK**
- $23,736.36

### ADDITIONAL REQUIREMENTS

**TOTAL ADDITIONAL REQUIREMENTS**
- $0.00

### ABANDONMENT

<table>
<thead>
<tr>
<th>Required</th>
<th>Pre-Haul Maintenance-</th>
<th>$28,788.76</th>
<th>Required</th>
<th>Reconstruction -</th>
<th>$0.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Abandonment-</td>
<td>$0.00</td>
<td>Optional Reconstruction -</td>
<td>$0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required Construction -</td>
<td>$0.00</td>
<td>Optional Construction -</td>
<td>$0.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL ABANDONMENT**
- $28,788.76

**COST PER STATION**
- $176.46
### SUMMARY OF ROAD

**Sale:** Parched Larch  
**Road:** L-1530

<table>
<thead>
<tr>
<th></th>
<th>Pre-Haul Maintenance-</th>
<th>Required</th>
<th>Reconstruction</th>
<th>Optional</th>
<th>Construction</th>
<th>Subtotal</th>
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<tr>
<td>Required</td>
<td>0.00 miles</td>
<td>38+60</td>
<td>0.73 miles</td>
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<td>$81,425.89</td>
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<td>Optional</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00 miles</td>
<td>0.00</td>
<td>0.00</td>
<td>$81,425.89</td>
</tr>
</tbody>
</table>

### PRE-HAUL MAINTENANCE

**CLEARING**

**MISC.**

**ENDHAUL**

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.** $0.00

### RECONSTRUCTION

**CLEARING/GRUBBING**

- Scattering Organic Debris -  
  - 1.77 acres @ $918.00 per acre = $1,624.86
  - 15 @ $90.00 each = $1,350.00

**EXCAVATION**

- Reconstruct and widen Road Prism/with ditchline -  
  - 38.60 stations @ $90.09 per station = $3,477.47

- Remove buried logs from fills -  
  - 12.0 hours @ $230.00 per hour = $2,760.00

- Grade and shape subgrade -  
  - 38.60 stations @ $15.65 per station = $604.09

**FILL**

- Earthwork embankment - spread w/cat and compact w/roller -  
  - 38.60 stations @ $35.00 per station = $1,351.00

**MISC.**

- Roll subgrade w/vibratory roller prior to rockin -  
  - 59.50 lbs @ $3.00 per lbs = $178.50

**ENDHAUL**

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.** $13,075.46

### CONSTRUCTION

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

**ENDHAUL**

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.** $0.00

### CULVERTS - MATERIALS & INSTALLATION

#### Culverts & Bands

- 360 LF of 18" @ $6,163.20 = $1,624.86
- 36 LF of 30" @ $1,203.60 = $1,350.00
- 48 LF of 42" @ $3,555.30 = $1,350.00
- 50 LF of 54" @ $6,694.10 = $6,694.10
- 0 LF of 66" @ $0.00 = $0.00

**Half Rounds**

- 0 LF of 24" @ $0.00 = $0.00
- 0 LF of 30" @ $0.00 = $0.00
- 0 LF of 36" @ $0.00 = $0.00

**TOTAL CULVERTS** $20,402.08

### ROCK

- 6+00 to 7+00: 20 cy. of 1 1/4" Minus @ $16.11 per c.y. = $322.20
- 12+00 to 28+00: 100 cy. of 1 1/4" Minus @ $16.11 per c.y. = $1,611.00
- 33+00 to 38+60: 2,273 cy. of 3" Jaw Run @ $16.41 per c.y. = $37,299.93

**BEDDING/BACKFILL - culverts**

- 255 cy. of 1 1/4" Minus @ $15.11 per c.y. = $3,853.05

**TOTAL ROCK** $47,564.35

### ADDITIONAL REQUIREMENTS

- Straw Mulching near streams -  
  - 0.35 acres @ $660.00 per acre = $231.00

**TOTAL ADDITIONAL REQUIREMENTS** $384.00

### ABANDONMENT

<table>
<thead>
<tr>
<th></th>
<th>Pre-Haul Maintenance-</th>
<th>Required</th>
<th>Reconstruction</th>
<th>Optional</th>
<th>Construction</th>
<th>Total</th>
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<tbody>
<tr>
<td>Required</td>
<td>$0.00</td>
<td>$81,425.89</td>
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<tr>
<td>Optional</td>
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<td>$0.00</td>
<td>$0.00</td>
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<td></td>
<td>$81,425.89</td>
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<tr>
<td>Required</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td></td>
<td>$81,425.89</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL ABANDONMENT** $0.00

**COST PER STATION** $2,109.48
### PRE-HAUL MAINTENANCE

#### CLEARING

**EXCAVATION**

**MISC.**

**ENDHAUL**

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, AND MISC.** $0.00

#### RECONSTRUCTION

**CLEARING/GRUBBING**

**EXCAVATION**

**FILL**

**MISC.**

**ENDHAUL**

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, AND MISC.** $0.00

#### CONSTRUCTION

**CLEARING/GRUBBING**

Scattering organic debris 2.42 acres $918.00 per acre $2,221.56

Endhaul organic debris 0.61 acres $5,500.00 per acre $3,365.00

Removal large stumps - 19 @ $90.00 each $1,710.00

**EXCAVATION**

Earthwork - common - 2,311 cy. $1.49 per c.y. $3,443.39

Earthwork - fractured rock - 2,976 cy. $2.62 per c.y. $7,797.12

Grade and shape subgrade - 26.40 stations @ $15.65 per station $413.16

**FILL**

Earthwork embankment - spread w/cat and compact w/roller 4,027 cy. $1.30 per c.y. $5,235.10

Waste Area Compaction - earthwork and organic debris 1,310 cy. $0.30 per c.y. $393.00

**MISC.**

Roll subgrade w/ vibratory roller prior to rocking - 41.8 hours @ $11.40 per hour $470.96

Construct turnouts - 2 @ $73.00 each $146.00

Construct landing - 6 @ $142.50 each $855.00

Grass seed - 41.8 lbs @ $3.00 per lbs $125.40

**ENDHAUL**

To Waste Area @ 3+45 on L-1532C 1,260 cy. $1.25 per c.y. $1,575.00

**TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, AND MISC.** $25,636.69

#### CULVERTS - MATERIALS & INSTALLATION

<table>
<thead>
<tr>
<th>Culverts &amp; Bands</th>
<th>LF of 18&quot;</th>
<th>LF of 24&quot;</th>
<th>LF of 30&quot;</th>
<th>LF of 36&quot;</th>
<th>LF of 42&quot;</th>
<th>LF of 48&quot;</th>
<th>LF of 60&quot;</th>
<th>LF of 72&quot;</th>
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<tbody>
<tr>
<td>170</td>
<td>$2,904.60</td>
<td>$726.50</td>
<td>$1,370.40</td>
<td>$3,305.50</td>
<td>$605.39</td>
<td>$1,370.40</td>
<td>$2,904.60</td>
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**Culvert Stakes & Markers**

<table>
<thead>
<tr>
<th>stakes</th>
<th>$56.00</th>
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**TOTAL CULVERTS** $15,891.79

#### ROCK

<table>
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<tr>
<th>ROCK</th>
<th>LF of 18&quot;</th>
<th>LF of 24&quot;</th>
<th>LF of 30&quot;</th>
<th>LF of 36&quot;</th>
<th>LF of 42&quot;</th>
<th>LF of 48&quot;</th>
<th>LF of 60&quot;</th>
<th>LF of 72&quot;</th>
<th>LF of 84&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>17+60 to 13+40</td>
<td>$2,904.60</td>
<td>$726.50</td>
<td>$1,370.40</td>
<td>$3,305.50</td>
<td>$605.39</td>
<td>$1,370.40</td>
<td>$2,904.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Dissipator/Headwall - culverts 175.0 cy. of Riprap HL @ $19.06 per c.y. $3,305.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Dissipator/Headwall - culverts 41.0 cy. of Riprap LL @ $18.73 per c.y. $805.39</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0+00 to 3+45</td>
<td>1,577 cy. of 3&quot; Jaw Run @ $16.99 per c.y. $26,793.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bedding/Backfill - culverts 195 cy. of 1 1/4&quot; minus @ $15.69 per c.y. $3,059.55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

**TOTAL ROCK** $35,364.07

#### ADDITIONAL REQUIREMENTS

| Compact backfill material | 195.0 cy. @ $0.60 per c.y. $117.00 |
| Straw Mulching near streams | 0.21 acres @ $660.00 per acre $438.00 |

**TOTAL ADDITIONAL REQUIREMENTS** $255.60

#### ABANDONMENT

Construct waterbar - 13 @ $78.00 per hour each $1,014.00

Construct Earthen Barrier - 21 @ $150.00 per hour each $3,150.00

Rip roadway - 23.15 stations @ $26.60 per station $615.79

Grass seed - 94.4 lbs @ $3.00 per lbs $283.20

Mulching - 0.50 acres @ $660.00 per acre $330.00

Remove culvert @ Station 15+01 and haul to Larch Corrections Camp 4.0 hours @ $382.00 per hour $1,528.00

Remove culverts from state lands - 6 @ $75.00 each $450.00

Excavation - Heavy abandonment and culvert removals 8.0 hours @ $172.00 per hour $1,376.00

**TOTAL ABANDONMENT** $5,746.99

**SUMMARY OF ROAD**

- **Parched Larch**
  - **Required Pre-Haul Maintenance** 0.00 miles 0.00 stations 0.00 miles
  - **Required Reconstruction** 0.00 miles 0.00 stations 0.00 miles
  - **Required Abandonment** 0.00 miles 0.00 stations 0.00 miles

- **L-1532C**
  - **Optional Pre-Haul Maintenance** 0.00 miles 0.00 stations 0.00 miles
  - **Optional Reconstruction** 0.00 miles 0.00 stations 0.00 miles
  - **Optional Abandonment** 0.00 miles 0.00 stations 0.50 miles

**SUBTOTAL** $82,895.14

**COST PER STATION** $3,139.97
# ROCK DEVELOPMENT COST SUMMARY

<table>
<thead>
<tr>
<th>Pit:</th>
<th>Jackson Pass</th>
<th>Location: NE¼ NE¼ Sec. 11, T02N, R04E, W.M.</th>
<th>Sale:</th>
<th>Parched Larch</th>
<th>Road: 8598, CY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrinkage</td>
<td>0.00</td>
<td></td>
<td>Drill Pct.:</td>
<td>100%</td>
<td>In Place Total:</td>
</tr>
<tr>
<td>Access Road</td>
<td>1.5 Stations</td>
<td>$151.11 /Station</td>
<td>$226.67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waste Area, Endhaul and place overburden</td>
<td>$3.27 /cu.yd x 2081.0 cu.yds.</td>
<td>= $6,804.87</td>
<td>$3.00 /cu.yd x 6031.0 cu.yds.</td>
<td>= $18,093.00</td>
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</tr>
<tr>
<td>Drill &amp; Shoot:</td>
<td>$2.00 /cu.yd x 0 cu.yds.</td>
<td>= $0.00</td>
<td>Push Rock:</td>
<td>$1.00 /cu.yd x 8598.0 cu.yds.</td>
<td>= $8,598.00</td>
</tr>
<tr>
<td>Load Crusher:</td>
<td>$0.60 /cu.yd x 8190.0 cu.yds.</td>
<td>= $4,914.00</td>
<td>Crush 3&quot; Jaw Rock:</td>
<td>$3.10 /cu.yd x 3893 cu.yds.</td>
<td>= $12,062.10</td>
</tr>
<tr>
<td>Crush 1 1/4&quot; Minus Rock:</td>
<td>$4.10 /cu.yd x 4299 cu.yds.</td>
<td>= $17,625.90</td>
<td>Load Dump Truck:</td>
<td>$0.60 /cu.yd x 8190.0 cu.yds.</td>
<td>= $4,914.00</td>
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<tr>
<td>Load Rip Rap</td>
<td>$2.00 /cu.yd x 408.0 cu.yds.</td>
<td>= $816.00</td>
<td>$0.00 /ton x 0 tons = $0.00</td>
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</tr>
<tr>
<td>Move In/Set-up Mobile Jaw</td>
<td>1 @ $646.00 = $646.00</td>
<td></td>
<td>Move In/Set-up Mobile 2 Stage Crusher</td>
<td>1 @ $846.00 = $846.00</td>
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<tr>
<td>Move In/Set-up 3 Stage Crusher</td>
<td>0 @ $0.00 = $0.00</td>
<td></td>
<td>Move In and set up Drill and Compressor</td>
<td>1 @ $270.76 = $270.76</td>
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</tr>
<tr>
<td>Move in Grader</td>
<td>0 @ $187.55 = $0.00</td>
<td></td>
<td>Move in D-8</td>
<td>1 @ $360.12 = $360.12</td>
<td></td>
</tr>
<tr>
<td>Move in Loader</td>
<td>1 @ $360.12 = $360.12</td>
<td></td>
<td>Move in Excavator</td>
<td>2 @ $329.37 = $658.74</td>
<td></td>
</tr>
<tr>
<td>Move in Trucks</td>
<td>5 @ $79.31 = $396.55</td>
<td></td>
<td>Move in Water Truck</td>
<td>0 @ $0.00 = $0.00</td>
<td></td>
</tr>
<tr>
<td>Move in Set-up Jaw Run</td>
<td>1 @ $187.55 = $187.55</td>
<td></td>
<td>Subtotal</td>
<td>$7,404.54</td>
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</tr>
<tr>
<td>Move in Set-up Mobile Jaw</td>
<td>1 @ $646.00 = $646.00</td>
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<td>TOTAL PRODUCTION COSTS</td>
<td>$77,592.83</td>
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## TOTAL PRODUCTION COSTS

### Subtotal

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<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1500 267+14 to 316+64 1 1/4&quot; Minus</td>
<td>$1.92</td>
<td>$1.70</td>
<td>$9.02</td>
<td>$12.64</td>
<td>1605</td>
<td>15</td>
<td>2558</td>
<td>$20,287.20</td>
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<tr>
<td>L-1560 0+00 to 90+75 Spot Rock 1 1/4&quot; Minus</td>
<td>$3.48</td>
<td>$1.70</td>
<td>$9.02</td>
<td>$14.20</td>
<td>150</td>
<td>15</td>
<td>8908</td>
<td>$2,130.00</td>
</tr>
<tr>
<td>L-1532 0+00 to 55+25 Spot Rock 1 1/4&quot; Minus</td>
<td>$5.26</td>
<td>$1.70</td>
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<td>$15.98</td>
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<td>15</td>
<td>16208</td>
<td>$1,278.40</td>
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<tr>
<td>L-1532 Landing 3&quot; Jaw Run</td>
<td>$5.70</td>
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<td>$9.02</td>
<td>$16.17</td>
<td>41</td>
<td>15</td>
<td>17970</td>
<td>$662.97</td>
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<tr>
<td>L-1600 114+00 to 163+15 1 1/4&quot; Minus</td>
<td>$2.62</td>
<td>$1.70</td>
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<td>15</td>
<td>5406</td>
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<tr>
<td>L-1600 Spot Rock 0+00 to 114+00 1 1/4&quot; Minus</td>
<td>$4.31</td>
<td>$1.70</td>
<td>$9.02</td>
<td>$15.03</td>
<td>200</td>
<td>15</td>
<td>12335</td>
<td>$3,006.00</td>
</tr>
<tr>
<td>L-1530 6+00 to 7+00 1 1/4&quot; Minus</td>
<td>$5.39</td>
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<td>20</td>
<td>15</td>
<td>16705</td>
<td>$322.20</td>
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<td>L-1530 12+50 to 15+50 1 1/4&quot; Minus</td>
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TOTAL ROCKING COSTS $131,023.35
ROCK DEVELOPMENT COST SUMMARY

Existing 2 1/2" Minus Stockpile

Pit: Existing Pit Run & Riprap Stockpiles
Location: 41+35 on L-1050

Sale: Parched Larch
Stockpile: 7+10 on L-1050

Location: 867. c.y.

Swell: 1.30
Shrinkage: 1.16
Drill Pct.: 0%

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden
in Waste Area, spread and compact.

$0.00 /cu.yd x 0 cu.yds. = $0.00

Drill & Shoot:

3.00 /cu.yd x 0 cu.yds. = $0.00

Rip Rock:

2.00 /cu.yd x 0 cu.yds. = $0.00

Push Rock:

0.60 /cu.yd x 0 cu.yds. = $0.00

Load Crusher:

0.60 /cu.yd x 0 cu.yds. = $0.00

Crush 3" Rock:

3.10 /cu.yd x 0 cu.yds. = $0.00

Load Dump Truck - 2 1/2" Minus/Pit Run:

$0.60 /cu.yd x 745 cu.yds. = $447.00

Load Dump Truck - Riprap:

$2.00 /cu.yd x 0 cu.yds. = $0.00

$0.00 /ton x 0 tons = $0.00

$0.00 /ton x 0 tons = $0.00

$0.00 /cu.yd x 0 cu.yds. = $0.00

Subtotal $691.00

Move In/Set-up Jaw

0 @ $0.00 = $0.00

Move In/Set-up 2 Stage Crusher

0 @ $0.00 = $0.00

Move In/Set-up 3 Stage Crusher

0 @ $0.00 = $0.00

Move In and set up Drill and Compressor

0 @ $0.00 = $0.00

Move in Roller and Compactor

0 @ $0.00 = $0.00

Move in Grader

0 @ $0.00 = $0.00

Move in D-8

0 @ $0.00 = $0.00

Move in Loader

1 @ $353.29 = $353.29

Move in Excavator

0 @ $0.00 = $0.00

Move in Trucks

5 @ $77.03 = $385.15

Move in Water Truck

0 @ $0.00 = $0.00

Subtotal $738.44

Base Cost= $1.65 Per Cu.Yd.

TOTAL PRODUCTION COSTS $1,429.44

ROCK DEVELOPMENT COST SUMMARY

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<tr>
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Total C.Y. 867.0
Sub Total $7,214.60

TOTAL ROCKING COSTS $7,214.60
## Road Building Move-In Calculations

**Sale:** Parched Larch

### LOWBOY HAUL (Round Trip)

<table>
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<tr>
<th>DIST. (mi)</th>
<th>ROADWAY</th>
<th>AVE SPEED (mph)</th>
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<td>7.8</td>
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<td>2.0</td>
<td>Steep Grades</td>
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### Equipment Move-In Costs

<table>
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<tr>
<th>No.</th>
<th>DESCRIPTION</th>
<th>Move in Cost</th>
<th>Pilot Cars</th>
<th>Move ($/mile)</th>
<th>Begin Mileage</th>
<th>End Mileage</th>
<th>Total Miles</th>
<th>Area Cost</th>
<th>Total Cost</th>
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<td>0</td>
<td>Brush Cutter</td>
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<td>0.00</td>
<td>0.00</td>
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<tr>
<td>0</td>
<td>Loader (Med. &amp; Large)</td>
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<td>Rollers &amp; Compactors</td>
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**TOTAL MOVE-IN COSTS:** $3,596.53
WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: Pacific Cascade

Timber Sale Name: PARCHED LARCH

Application Number: 30-101895

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 0 linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: 3,860 linear feet
Road to be reconstructed (optional and required) but not abandoned

Abandonment: 0 linear feet
Abandonment of existing roads not reconstructed under the contract

Decommission: 0 linear feet
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: 50,155 linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: 2,640 linear feet
Roads to be constructed (optional and required) and then abandoned

Temporary Reconstruction: 0 linear feet
Roads to be reconstructed (optional and required) and then abandoned

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

(Revised 9/18)
**WTL Transaction Approval Request**

<table>
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<tr>
<th><strong>File Reference #</strong></th>
<th>YC2021-200-1190</th>
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<tr>
<td><strong>Name of Other Party</strong></td>
<td>State of Washington - Department of Natural Resources</td>
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<tr>
<td><strong>Type of Transaction</strong></td>
<td>Temporary Road Use Permit</td>
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<td><strong>Term</strong></td>
<td>November 1, 2021 - June 30, 2026</td>
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<td><strong>Consideration</strong></td>
<td>$13,866.41</td>
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<tr>
<td><strong>Location</strong></td>
<td>Section 35 Township 03 North Range 04 East, Clark County, Washington</td>
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**Transaction Description**

This road use permit has been requested by State of Washington - Department of Natural Resources for the Parched Larch timber sale to haul timber and rock, and eventually replant the sale unit. Payment will be made upon thirty (30) days of the sale selling.

**Approval Initiator**

Amanda Sandhop

**Location**

Yacolt Tree Farm in the Lower Columbia Region

**Telephone**

360-442-4334

**Date**

06/02/2021

**NAME** | **INSTRUCTIONS** | **APPROVED** | **DATE APPROVED**
---|---|---|---
Land Use Manager - Amanda Sandhop |  | Amanda Sandhop | 6/2/2021
Area Manager - Jerry Workman | Please approve, forward to next on list, and copy Amanda Sandhop | Jerry Workman | 6/2/2021
Region Manager - Travis Ridgway |  | Travis Ridgway | 6/2/2021
VP WTL - Not needed for this doc. |  |  | 

**Post Approval**

Phyllis Strausser

Nothing needed for this document.

Amanda Sandhop

Record document in Land Use Database and collect payment.
TEMPORARY ROAD USE PERMIT

This Temporary Road Use Permit (this "Permit"), dated as of November 1, 2021 (the "Effective Date"), is made by and between WEYERHAEUSER COMPANY, a Washington corporation ("Weyerhaeuser") with an address of P.O. Box 667, Longview, WA 98632, and STATE OF WASHINGTON – DEPARTMENT OF NATURAL RESOURCES, a state forest program ("Permittee"), with an address of 1111 Washington Street, Olympia, WA 98504.

1. ROAD USE PERMIT AREA & PERMITTED USES. Weyerhaeuser grants Permittee the non-exclusive right to enter and be upon those Weyerhaeuser roads located in Section 35, Township 03 North Range 04 East, Clark County, Washington depicted on the maps attached as Exhibit A (each a "Permit Road" or collectively, the "Permit Roads") for the limited purpose of ingress to and egress from the property depicted on the map attached as Exhibit A.

This Permit is for the sole purpose of providing Permittee and its authorized contractors and subcontractors at all tiers (individually and collectively, "Contractors") commercial vehicular ingress and egress to and from its property for purposes of forestry activities as defined in the Washington Administrative Code Chapter 222-16-010 including road maintenance, reconstruction, construction, and access related to the planning of forestry activities. This route may be subject to temporary closure for culvert replacement between July 1 – September 20. Permittee shall notify Weyerhaeuser representative, Kristi Tausch (253) 209-1988, seventy-two (72) hours prior of any access, road maintenance, construction, or haul. Notification does not guarantee access route will be open.

Permittee shall keep Weyerhaeuser informed of the identities of all Contractors that use the Permit Roads under the terms of this Permit. All vehicles using the Permit Roads shall carry a copy of this Permit. Other than use by Contractors, this Permit does not include any rights of third-party road use. This Permit confers no right of access for any reason to any Weyerhaeuser or other property other than the Permit Roads. The permission granted to Permittee in this Permit is limited to the Permit Roads. Weyerhaeuser makes no representation or warranty as to its ownership rights in the Permit Roads. All requirements in this Permit shall apply to Contractors, and Permittee shall be responsible for adherence to the terms of this Permit by all Contractors.

2. TERM. This Permit shall expire on June 30, 2026, unless terminated earlier under this section.

Weyerhaeuser may suspend Permittee’s activities under this Permit immediately by written notice of any default. Suspension will continue until the default is remedied. Any time after ten (10) days from such a suspension notice, if Permittee is still in default, Weyerhaeuser may terminate Permittee’s rights under this Permit. Weyerhaeuser’s right to suspend and terminate Permittee’s rights under this paragraph are in addition to all other available remedies. The following events shall constitute events of default:
(a) Failure to comply with any of the terms or conditions of this Permit; and
(b) Commencement of any proceeding or petition under the Bankruptcy Code or any other federal or state bankruptcy, insolvency, receivership, or similar law.
3. **PERMIT FEES.** On or prior to the Effective Date, Permittee shall pay a fee of **$13,866.41** for the use of the Permit Roads during the term of this Permit. Consideration of permit fees to be paid upon thirty (30) days of Parched Larch timber sale selling. In addition, should the activities authorized under this Permit include the hauling of timber, other forest products, rock, sand, gravel and/or other products, Permittee shall pay Weyerhaeuser the amounts shown on Exhibit B to this Permit and provide Weyerhaeuser with monthly reports showing amounts of products hauled basis, unless directed otherwise by Weyerhaeuser.

4. **INSURANCE.** Before entering using a Permit Road under this Permit, Permittee shall obtain and maintain in full force and effect during the term of this Permit, at Permittee’s sole expense, the following insurance coverages:

   a) If, under this Permit, Permittee will operate equipment not licensed for use on public highways, the minimum coverages and limits will be: Comprehensive or Commercial General Liability (occurrence form), covering bodily injury and property damage liability, including contractual, products, completed operations, broad form property damage, and independent operator/contractors, with minimum limits of at least $1,000,000 per occurrence and $1,000,000 general aggregate. Weyerhaeuser shall be designated as an Additional Insured evidenced by copy of the Additional Insured Endorsement attached to the Certificate of Insurance and the endorsement is to include that the insurance will cover "Weyerhaeuser Company and its subsidiaries and affiliates." The endorsement may be specific to this Permit (CG 20 10 0704, or equivalent) or may be a Blanket Additional Insured Endorsement applicable to all agreements entered into by Permittee, again equivalent to the CG 20 10 07 04. Permittee’s insurance or self-insurance shall be primary, and Weyerhaeuser’s insurance or self-insurance is excess over other available coverage.

   b) If, under this Permit, Permittee will operate equipment which is licensed for use on public highways, the minimum coverages and limits will be: Comprehensive Automobile Liability covering owned, hired, and non-owned vehicles with minimum limits of: (a) For heavy vehicles, equal to or more than 12,000 pounds (gross vehicle weight): combined single limit of $1,000,000; or (b) For light vehicles, less than 12,000 pounds (gross vehicle weight): combined single limit of $300,000.

On or before entering Weyerhaeuser property in connection with this Permit, Permittee shall furnish Weyerhaeuser with a Certificate of Insurance evidencing compliance herewith. Permittee shall give Weyerhaeuser at least thirty (30) days written notice prior to cancellation of said coverage, either in whole or in part, and the failure of Permittee to give said notice as required shall be considered a breach of this Permit by Permittee. Permittee shall ensure that all Contractors’ insurance coverages and endorsements consistent with the above. Insurance companies providing coverage for Permittee and subcontractors shall have a Best’s rating of no less than A- VII. Permittee’s and Contractor’s insurance companies shall waive right of subrogation against Weyerhaeuser and its subsidiaries and affiliates. All insurance or self-insurance of Weyerhaeuser and its subsidiaries and affiliates shall be excess of any insurance provided by Permittee or its Contractors.
5. COMPLIANCE WITH ALL LAWS. Permittee shall comply with all applicable federal, state, and local laws and regulations in connection with the activities under this Permit, including without limitation those pertaining to fire prevention and suppression, safety, water quality, other environmental resources, and endangered species.

6. SUSPENSION OF USE. Permittee agrees to immediately suspend use of the Permit Roads:
(a) from time to time whenever Permittee observes conditions under which use of the Permit Roads would result in damage thereto; or
(b) Permittee is requested by Weyerhaeuser to do so based on either the potential for damage to Permit Roads or danger of wildfire, which requests may be made from time to time in Weyerhaeuser’s sole discretion.

7. SAFETY. Permittee shall comply with the safety rules listed below:
   a. Maximum speed is 25 mile-per-hour on all primary roads. Individual road conditions, weather, and limited visibility will require slower speeds.
   b. All vehicle occupants must wear seat belts on Weyerhaeuser roads.
   c. Drive with lights "on."
   d. Drive on the right.
   e. Be prepared to stop in no more than half your sight distance.
   f. Do not block roads or otherwise interfere with forestry operations.
   g. Take all reasonable precaution to prevent unauthorized persons from using the Permit Road(s) and from entering Weyerhaeuser or other lands by means of the Permit Road(s).
   h. Keep the Permit Road(s) open and not obstruct them at any time without Weyerhaeuser’s prior written permission.
   i. Strictly comply with all additional safety rules and road use regulations provided to Permittee by Weyerhaeuser, which safety rules may be revised from time to time at the sole discretion of Weyerhaeuser.
   j. Suspend use of the Permit Road(s) whenever the use, due to weather conditions, will cause excessive damage to the Permit Road(s).
   k. After passing through, leave all gates in open or closed position as found prior to passing through, unless otherwise instructed by Weyerhaeuser to follow a different local gate policy.

8. ROAD MAINTENANCE.
   [ X ] Permittee shall maintain and leave the Permit Road(s) at in the same condition as on the day this Permit is entered into or better. If any portions of the Permit Roads are maintained by a third party, Permittee shall pay to the maintaining party Permittee's equitable share of the cost of such maintenance, to be agreed upon by the parties concerned. Acceptable road conditions for maintenance performed by the Permittee or a Third Party include the following:
   a. Culverts need to be open, free flowing, and in good working order. If they become damaged, they shall be cut back, repaired, or replaced.
b. Cutbanks shall be clean and free of debris to prevent debris from entering and blocking the ditch.

c. Ditches shall be free of all debris, well defined, and in good working order. They need to be able to accept and transport water to the nearest culvert or outlet and shall be cleaned if not functional.

d. Road surfaces shall be smoothed and shaped. Surface repair must be made if necessary.

e. Road maintenance activities shall minimize erosion and sediment delivery that impacts water quality. Such activities may include spreading an approved rock grade on road surfaces, water barring road, or placement of hay bales in ditches.

All road maintenance work performed by Permittee will be done in a manner that is consistent with the applicable requirements of the Sustainable Forestry Initiative (SFI®).

[ ] Weyerhaeuser will maintain the Permit Road(s).

9. **FIRE PROTECTION.** Permittee shall comply with all laws and regulations pertaining to fire protection and suppression and take every possible precaution to prevent fires from igniting on or spreading onto Weyerhaeuser’s property. If a fire should occur on or near the Permit Road, Permittee shall immediately notify Weyerhaeuser’s Mackenna Milosevich at (360) 823-3403 and appropriate government agencies and shall make every reasonable effort to help suppress or contain the fire, provided the same can be done safely. Permittee will be liable for and reimburse Weyerhaeuser for all damages (including loss or damage of timber, and fire suppression costs) resulting from fires caused by Permittee’s activities without regard to Permittee’s negligence, except to the extent such fires were the result of the sole negligence of Weyerhaeuser.

10. **HAZARDOUS MATERIALS.** Permittee shall not dump, spill or otherwise allow the release of any petroleum products, chemicals or other substances considered hazardous or regulated under federal or state law on Weyerhaeuser’s property, and will follow all laws governing the transport, use, storage and handling of all petroleum products, chemicals and other such substances. In the case of any leak, over-fill, or accidental spill on or adjacent to Weyerhaeuser property, Permittee will immediately clean up the same, and report it to Weyerhaeuser (in addition to reporting it to the applicable governmental agency if required under applicable law).

11. **FIREARMS AND WEAPONS.** Permittee shall not possess, use or display firearms or weapons on Weyerhaeuser property while operating under this Permit.

12. **HOUSEKEEPING.** Permittee shall not leave or dispose of any debris, garbage or other materials, or burn the same, on Weyerhaeuser’s property.

13. **NOTICES.** All notices provided for in this Permit, except notices regarding fire suppression or hazardous materials spills, must be written and given by either personal hand-delivery (including Federal Express or other recognized, national overnight mail carrier), or regular U.S. mail, postage prepaid to the address above. All notices regarding fire suppression or hazardous materials must be reported in person or by telephone as
soon as possible. All notices must be given to the persons whose signatures appear at the end of this Permit.

14. **NO HARVESTING OR RELATED ACTIVITIES PERMITTED.** Permittee shall not conduct any harvesting operations upon the Permitted Roads or on any other Weyerhaeuser property including unloading, refueling or other activities related to Permittee’s activities other than ingress and egress from the adjoining property.

15. **NON-ASSIGNMENT.** Permittee may not assign its rights under this Permit without Weyerhaeuser’s prior written consent, which consent may be withheld in Weyerhaeuser’s sole and absolute discretion, and Weyerhaeuser may consider any attempted assignment without this consent to be void and to terminate this Permit.

16. **INDEMNITY BY THE STATE.** State shall defend, indemnify and hold harmless the Grantor from all claims that arise out of the negligence of the State or its Permittees in their use of the permit. A “claim” as used in this selection means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorney’s fees, attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property including the resulting loss of use.

Notwithstanding the foregoing, State’s obligation to defend, indemnify, and hold harmless the Grantor from any judgment, decree or arbitration award shall extend only to the percentage of negligence of the State and its Permittee in contribution to such claim. State waives its immunity under Title 51 RCW only to the extent it is required to indemnify, defend and hold harmless Grantor and its Permittee. This indemnification shall survive the expiration or termination of the permit.

17. **ASSUMPTION OF RISK.** Permittee acknowledges that the Permit Road(s) are used for logging, forestry, and industrial operations and are maintained, if at all, only to standards generally required for such uses. Permittee further acknowledges and understands that Weyerhaeuser has made no representations or warranties as to the present or future condition of its property or the Permit Road(s), the character of traffic on its property or Permit Road(s), or any other factor affecting Permittee’s risks in undertaking activities under this Permit. Permittee understands that Weyerhaeuser may provide information about the foregoing from time to time, but Permittee agrees it will and may not rely thereon and will conduct its own evaluation of conditions on the Permit Roads and other Weyerhaeuser property. On behalf of itself and its Permittee Parties, Permittee assumes all risk of personal injury, including death, and damage to the property of Permittee and any other Permittee Party, and agrees that neither Permittee nor any of the other Permittee Parties will assert a claim against Weyerhaeuser or its affiliates on account of any property damage or personal injury, including death, or other loss resulting from a condition of or traffic on a Permit Road or other Weyerhaeuser property. In addition, Permittee shall be liable for and pay for all damage to Weyerhaeuser's property or other assets resulting directly or indirectly from Permittee’s acts or omissions under this Permit, even if not attributable to negligence by Permittee.

18. **RELATIONSHIP OF PARTIES.** This Permit is not intended to create and shall not be construed to create any partnership or association for profit between Permittee and Weyerhaeuser, and any liabilities hereunder shall be several and not joint.
19. **CONFIDENTIALITY.** The terms of this Permit may not be disclosed by Permittee to persons other than Contractors who will be using the Permit Roads without Weyerhaeuser’s prior written consent, except in situations required by law or a court of competent jurisdiction.

20. **RECORDING.** Permittee may not record this Permit in any public records.

21. **INTEGRATED AGREEMENT; MODIFICATION.** This Permit constitutes the entire agreement and understanding of the parties with respect to the subject matter of the Permit. This Permit may not be modified except in writing signed by the parties. The parties agree to execute any additional documents reasonably necessary to effectuate the provisions and purposes of this Permit.

22. **INTERPRETATION.** Each party acknowledges that it and its legal counsel have had the opportunity to review this Permit. The parties agree that the terms and conditions of this Permit shall not be construed against any party on the basis of such party’s drafting, in whole or in part, of such terms and conditions.

23. **WAIVER.** Failure of either party to insist upon the strict performance of any of the terms and conditions of this Permit, or failure to exercise any rights or remedies provided in this Permit or by law, or to notify the other party in the event of breach, shall not release the other party of any of its obligations under this Permit, nor shall any purported oral modification or rescission of this Permit by either party operate as a waiver of any of the terms hereof. No waiver by either party of any breach, default, or violation of any term, warranty, representation, agreement, covenant, right, condition, or provision of this Permit shall constitute waiver of any subsequent breach, default, or violation of the same or other term, warranty, representation, agreement, covenant, right, condition, or provision.

24. **SEVERABILITY.** If any provision of this Permit is held to be invalid or unenforceable, this provision shall not affect or invalidate the remainder of this Permit, and to this end the provisions of this Permit are declared to be severable. If any such invalidity becomes known or apparent to the parties, the parties agree to negotiate promptly in good faith in an attempt to amend such provision as nearly as possible to be consistent with the intent of this Permit.

25. **GOVERNING LAW & VENUE.** The validity, construction, and performance of this Permit shall be governed by and construed in accordance with the laws of the state in which the Permit Road(s) are located, without regard to its conflict of laws rules. The parties agree to submit to the jurisdiction of any state or federal court within such state in any action or dispute resolution process arising out of the terms, enforcement, or breach of this Permit.

26. **ATTORNEYS’ FEES.** Should any legal action or proceeding be commenced by either party to enforce all or any provision of this Permit, or in connection with any alleged dispute, breach, default, or misrepresentation in connection with this Permit, the prevailing party shall be entitled to recover reasonable attorneys’ fees and costs incurred in connection with such action or proceeding, including costs of pursuing or defending any legal action, including, without limitation, any appeal, discovery or negotiation and preparation of settlement arrangements, in addition to such other relief as may be granted.
27. **COMPLIANCE WITH ALL LAWS; ENDANGERED SPECIES.** Permittee agrees to use the Permitted Roads for the purpose authorized in this Agreement strictly in accordance to all Federal, State and local laws, rules and regulations.

Permittee shall promptly report to Weyerhaeuser any observations of the presence or other evidence of habitation by a federally designated threatened or endangered species on or along the Permit Roads.

28. **HEADINGS.** The headings in this Permit are for convenience only and are not intended to, and shall not be construed to, limit, enlarge, or affect the scope or intent of this Permit nor the meaning of any of its provisions.

29. **COUNTERPARTS.** This Permit may be executed in one or more counterparts, each of which shall be deemed an original, and all of which counterparts together shall constitute the same instrument which may be sufficiently evidenced by one counterpart.

30. **IMPROVEMENTS/CONSTRUCTION.** For the purposes of this Permit, “improvement” is defined as the work necessary to surface, resurface, widen, recondition or replace the Permit Roads and appurtenant Permit Roads facilities (such as bridges, culverts, gates, ditches and brushing) to a higher or greater standard than that prevailing on the date of this Agreement; notwithstanding the foregoing, the Permit Roads shall not be improved without Weyerhaeuser’s consent which may be withheld in its sole discretion. Any improvement shall be at the sole cost and expense of the improving party. When any existing or planned use of lands accessed by the Permit Roads described herein will result in use of the Permit Roads in excess of its current design elements, design standards, and/or road maintenance standards, the party responsible for such existing or planned use shall likewise be responsible for any additional costs that are necessary to meet design elements, design standards, and/or road maintenance standards that can accommodate such existing or planned use (as well as other existing uses). Prior to Permittee improving or constructing the Permit Roads, Permittee must, (i) obtain permission from Weyerhaeuser, which may be withheld in its sole discretion, and (ii) make improvements based on the standards provided by Weyerhaeuser. If Weyerhaeuser consents thereto, any paving of the Roads shall be done to a highway standard that provides for yearlong use of trucks and other heavy equipment associated with forestry management and timber harvesting activities and any other standards requested by Weyerhaeuser. Nothing herein shall be deemed to grant Permittee a right to improve or construct Permit Roads without Weyerhaeuser’s consent which may be withheld in its sole and absolute discretion.

31. **SIGNATURE PAGE FOLLOWS.**
IN WITNESS WHEREOF, the parties have executed this Road Use Permit as of the Effective Date.

WEYERHAEUSER COMPANY

By: __________________________
Date:   __________________________
Name: Travis Ridgway
Its: Lower Columbia Regional Manager
Address: P.O. Box 667, Longview, WA 98632
Phone: (360) 442-4330
E-mail: travis.ridgway@weyerhaeuser.com

STATE OF WASHINGTON,
DEPARTMENT OF NATURAL RESOURCES

By: __________________________
Date:   __________________________
Name: Eric Wisch
Its: PC Region Manager
Address: 601 Bond Road
        Castle Rock, WA 98611
Phone: 360-577-2025

By: __________________________
Date:   __________________________
Name: Amanda Sandhop
Its: Land Use Manager
Address: P.O. Box 667, Longview, WA 98632
Phone: (360)442-4334
E-mail: amanda.sandhop@weyerhaeuser.com
EXHIBIT A
MAP OF PERMIT ROADS

L-1560

Legend
- DNR trust lands
- Existing roads
- RUP existing road
EXHIBIT B
PERMIT FEES

Road use specifics for YC2021-200-1190
Calculations Using BLM Fee Schedule Rates

Road Segment
- 4347.288 feet of existing road use segments
- Hauling 3.117 mmbf of timber
- Hauling ~5211 cubic yards of rock with surface maintenance
- Admin Fee of $500.00
- November 1, 2021 – June 30, 2026
  - November 2021- October 2023 for Harvesting
  - November 2023 – June 30, 2026 for Re-forestry

Total
- (3,117 mbf * $2.12 * 0.82 miles) = $5,418.59
- (5211 cy * $1.86 * 0.82 miles) = $7,947.82
- $5,418.59 + $7,947.82 + $500.00 = $13,866.41

Consideration of permit fees to be paid upon thirty (30) days of Parched Larch timber sale selling.
EXHIBIT C
Provided Information

Required RUP Information

Timber Sale Name: Parched Larch

Legal Description: (For both the road and the Timber sale):
Road: Sec 35 T3N R4E
Sale: Section 27 and 34 of T3N R4E
Length of Road ~4400'
Width of ROW: 60'

How much Timber Volume will be hauled out?:
3MMBF

Will there be any rock haul across the Landowner? If so, how many CY?
Yes, ~approximately 5211 cubic yards

Will there be RW timber (what age) that will need to be removed from Landowners’ Land?
No.

How long do you need the permit for? What month does the sale sell?
November 2021 to October 2023 (for harvest needs), to June 2026 (for planting needs)

Is it Existing Road? For existing road, I can use mileage (or feet) estimations
Yes, approximately 4400'

Will there be new construction on Landowners’ Land? If so, how much? For new road I will need a copy of the traverse with stationing.
No new construction. Will be conducting grade, shape and compact of existing roadway. Spot rocking as directed by the contract administrator.

What are your plans for end of the sale (leave road, abandon, etc.)?
No change. Maintain haul route as needed during and after harvest activity.

I need a GOOD map with the road or new construction highlighted. Maps on TSO.