



TIMBER NOTICE OF SALE

SALE NAME: RAIL SPLITTER

AGREEMENT NO: 30-98509

AUCTION: February 27, 2020 starting at 10:00 a.m., COUNTY: Lewis Pacific Cascade Region Office, Castle Rock, WA

SALE LOCATION: Sale located approximately 21 miles west of Centralia, Washington

PRODUCTS SOLD AND SALE AREA: All timber, except leave trees marked with blue paint, trees bound by yellow "Leave Tree Area" tags, and all down timber existing 5 years prior to the day of sale, bound by the following: white "Timber Sale Boundary" tags, pink flagging, 6-year-old reprod, and the L-3000, L-3041, L-3042 roads, in Unit 1. White "Timber Sale Boundary" tags, and pink flagging in Unit 2. Orange "Right-of-Way Boundary" tags and orange flagging in Unit 3 (ROW), on part(s) of Sections 15, 16, 21 and 22 all in Township 14 North, Range 5 West, W.M., containing 103 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 with columns: Species, Avg DBH, Ring Count, Total MBF, and MBF by Grade (1P, 2P, 3P, SM, 1S, 2S, 3S, 4S, UT). Rows include Douglas fir, Hemlock, Silver fir, Red alder, Spruce, Red cedar, and Sale Total.

MINIMUM BID: \$1,070,000.00 BID METHOD: Sealed Bids

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

EXPIRATION DATE: October 31, 2021 ALLOCATION: Export Restricted

BID DEPOSIT: \$107,000.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Shovel, and Cable. This sale is estimated to be 77% shovel yarding and 23% cable and cable assist yarding. A detailed felling and yarding plan shall be required prior to any harvest activities. Ground-based yarding is restricted to slopes of 45% or less. For additional harvest requirements, refer to the H-140 clause in the contract.

ROADS: 46.55 stations of optional construction. 30.65 stations of optional reconstruction. 400.00 stations of required prehaul maintenance. 205.00 stations of optional prehaul maintenance. Rock used in accordance with the quantities on the ROCK LIST may be obtained from the Lincoln Quarry (Sec 15 T14N R05W W.M). Rock for construction and pre-haul maintenance used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense subject to written



TIMBER NOTICE OF SALE

approval from Contract Administrator. Road construction will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator. The hauling of forest products will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator. No hauling across the L-3043 road from November 1 to April 30 in Unit 2 unless authorized in writing by the State, per Clause H-131.

ACREAGE DETERMINATION

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

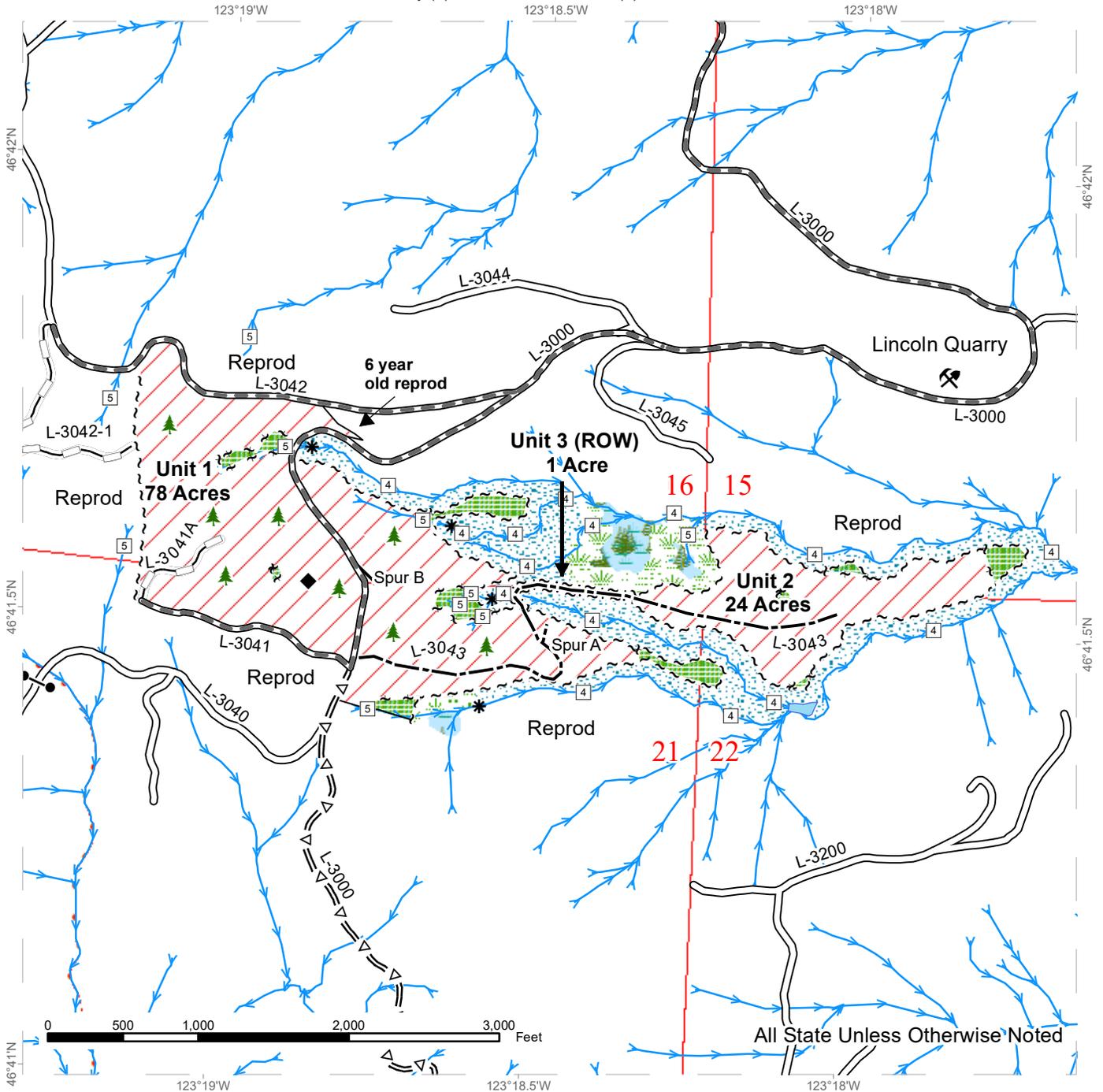
FEES: \$71,587.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: This sale has approximately 98 MBF of high quality 2 saw DF, 45 MBF of high quality 3 saw DF, 10 MBF of special mill SF, see cruise for details. See driving map for gate locations. PCP 1-1 gate keys may be obtained from the Pacific Cascade Region office.

TIMBER SALE MAP

SALE NAME: Rail Splitter
AGREEMENT #: 30-098509
TOWNSHIP(S): T14R5W
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Lewis
ELEVATION RGE: 1362-2388



All State Unless Otherwise Noted

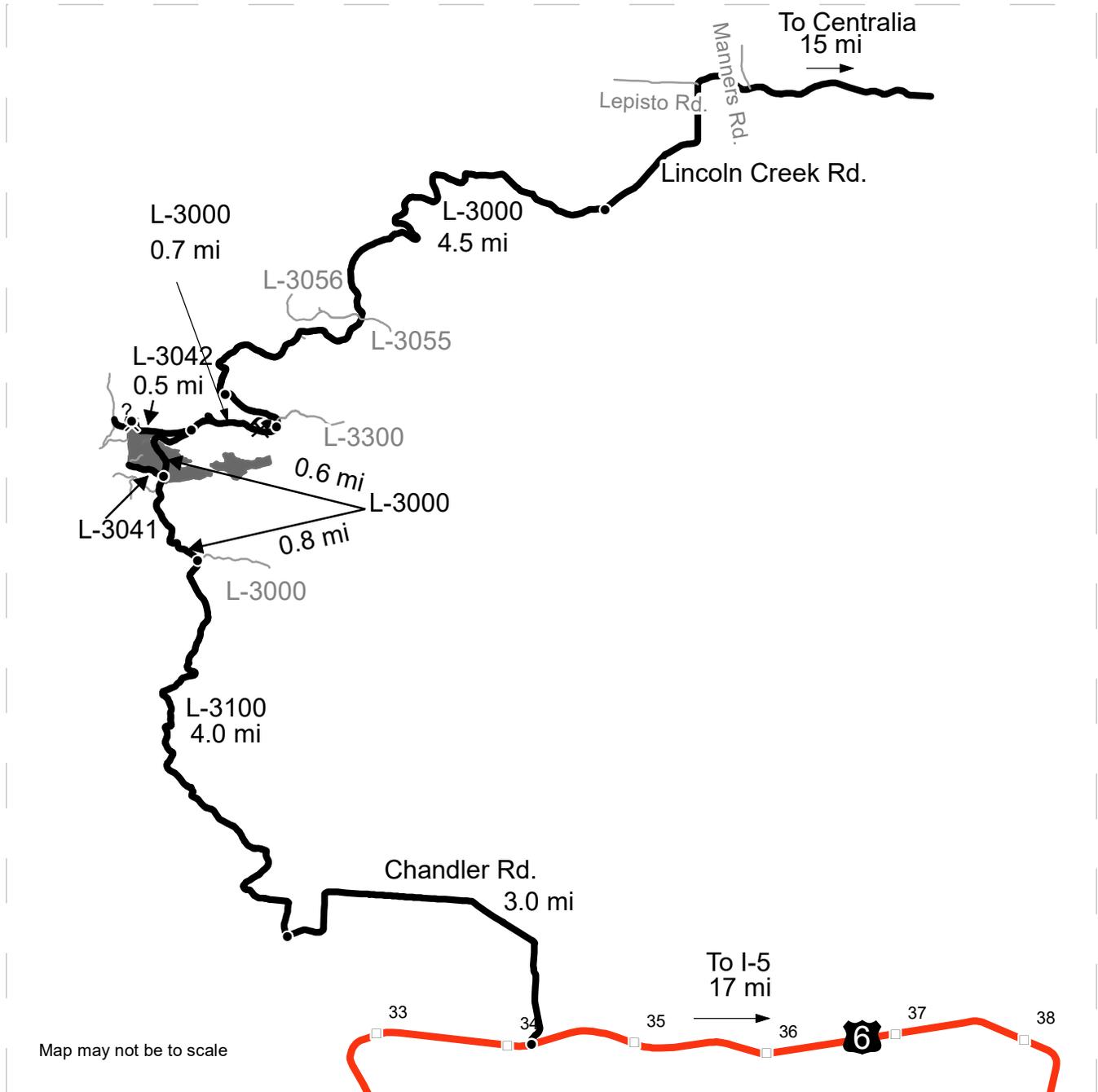
Sale Area	Sale Boundary Tags	Existing Roads	Survey Monument
Leave Tree Area	Leave Tree Tags	Required Pre-Haul Maintenance	Streams
Riparian Mgt Zone	Right of Way Tags	Optional Pre-Haul Maintenance	Stream Type
Forested Wetland	Timber Type Change	Optional Construction	Stream Type Break
Wetland Mgt Zone		Optional Reconstruction	
		Leave Tree Area <1/4-acre	
		Rock Pit	



DRIVING MAP

SALE NAME: Rail Splitter
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Map may not be to scale

- Timber Sale Unit
- Haul Route
- Other Road
- Milepost Markers
- Distance Indicator
- ? X Potential Rock Source
- ⛏ Rock Pit

DRIVING DIRECTIONS:

To Units 1, 2, and 3 (ROW)
 From I-5 take exit 77 and head west 17 miles on Highway 6.
 Turn right (North) onto Chandler Rd. and follow for 3 miles.
 Turn right onto the L-3100 and follow 4 miles turn left on L-3000 and follow for 0.8 miles to Units 1, 2, and 3 (ROW).



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-098509

SALE NAME: RAIL SPLITTER

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on February 27, 2020 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 marked with blue paint, trees bound by yellow "Leave Tree Area" tags, and all down timber existing 5 years prior to the day of sale, bound by the following: white "Timber Sale Boundary" tags, pink flagging, 6-year-old reprod, and the L-3000, L-3041, L-3042 roads, in Unit 1. White "Timber Sale Boundary" tags, and pink flagging in Unit 2. Orange "Right-of-Way Boundary" tags and orange flagging in Unit 3 (ROW),, located on approximately 103 acres on part(s) of Sections 15, 16, 21, and 22 all in Township 14 North, Range 5 West W.M. in Lewis 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, 2021.

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 \$953.00 per acre per annum for the acres on which an operating release has not been issued for all harvest units.
- 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-106 Adding Naturally Damaged Forest Products

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

G-111 Title and Risk of Loss

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

G-116 Sustainable Forestry Initiative® (SFI) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: BV-SFIS-US09000572.

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.

Road is defined as the road bed, including but not limited to its component parts, such as 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. 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.

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

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

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 Operation

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-3000, L-3041A, L-3042-1, L-3043, L-3100, Spur A and Spur B. 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-3000, 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 between the State and Weyerhaeuser Dated: 06/17/1969 Expires:
Indefinitely

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: Weyerhaeuser Company

Disclosed by Application No.: 50-035439
Granted: 4/2/1971
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Railroad
In Favor of: W. H. Abel
Disclosed by Application No.: 50-041386
Granted: 4/2/1971
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: Land Use License
In Favor of: Washington Department of Fish and Wildlife
Disclosed by Application No.: 60-096820
Granted: 4/23/2018
Expires: 6/30/2020

Lease, including the terms and provisions thereof,
For: Minor Forest Products
In Favor of: DNR – Pacific Cascade Region
Disclosed by Application No.: 35-RP0012
Granted: 10/7/2016
Expires: Indefinite

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 \$109,495.00. The total contract price consists of a \$0.00 contract bid price plus \$109,495.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066

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

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

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

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-013 Reserve Tree Damage Definition

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

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

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

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

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

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 12 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-035 Fall Trees Into Sale Area

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

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for all units. The plan shall address the felling 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-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using Cable systems, including ground based cable assist. Shovels may be used for ground bases operations. 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-131 Hauling Schedule

The hauling of forest products will not be permitted across the L-3043 road from November 1 to April 30 in Unit 2 unless authorized in writing by the State.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

Shovels with track mounted machines with hydraulic boom and grapple will be allowed.

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

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

Ground based yarding will not be permitted on sustained slopes over 45%.

Self-leveling ground based yarding equipment will not be permitted on sustained slopes over 60%.

Cable assist equipment will not be permitted on sustained slopes over 75%.

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

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

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 6/10/2019 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-3041A, L-3042-1, L-3043, L-3100, Spur A, Spur B. 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-030 Landing Debris Clean Up

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

S-035 Logging Debris Clean Up

Slash and debris created from harvest activities shall be treated in a manner approved in writing by the Contract Administrator.

S-050 Cessation of Operations for Low Humidity

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

S-060 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

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

S-110 Resource Protection

No ground based equipment may operate within 30 feet of Type 5 streams unless authority is granted in writing by the Contract Administrator.

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.

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, the Purchaser is responsible for notifying the following:

Appropriate Department of Ecology 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)

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 harvest units.

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Print Name

Date: _____
Address: _____

Eric Wisch
Pacific Cascade Region Manager

Date: _____

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

Sale Name: Rail Splitter TS	Region: Pacific Cascade
Agreement #: 30-098509	District: Lewis
Contact Forester: Marty Cozart Phone / Location: 360-669-3822	County(s): Lewis
Alternate Contact: David Sund Phone / Location: 360-880-5802	Other information:

Type of Sale: Lump Sum	
Harvest System: Ground based	77
Harvest System: Downhill Cable	0
Enter % of sale acres	
Harvest System: Uphill Cable	23

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest RW or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	Sec 16, 21, 22/ T14N/ R05W	03 01	109.3	25.4	6.4	0	0	77.5	GPS (Garmin)
2	Sec 15, 16, 21, 22/ T14N/ R05W	01 03	55.1	29.2	1.7	0	0	24.2	GPS (Garmin)
3 (ROW)	Sec 16, 21/ T14N/ R05W	03	1.3	0	0	0	0	1.3	GPS (Garmin)
TOTAL ACRES			165.7	54.6	8.1	0	0	103.0	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Variable retention harvest, boundary is marked with white "Timber Sale Boundary" tags and pink flagging. Leave trees are bounded by yellow "Leave Tree Area" tags and pink flagging. Single Leave Trees are marked with blue paint. Southern Boundary is the L-3041. Northern Boundary is the L-3042.		8 leave trees per acre (clumped) are bounded by yellow "Leave Tree Area" tags with pink flagging, 10 individual leave trees are marked with a single band of blue paint.
2	Variable retention harvest, boundary is marked with white "Timber Sale Boundary" tags and pink flagging. Leave trees are bounded by yellow "Leave Tree Area" tags and pink flagging.		8 leave trees per acre (clumped) are bounded by yellow "Leave Tree Area" tags with pink flagging, 0 individual leave trees are marked with a single band of blue paint.
3 (ROW)	Bounded by orange "Right-of-Way Boundary" tags and orange flagging.		

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF, WH, SF / 3700 mbf		Logging Plan Map
2	DF, WH, SF / 1000 mbf		Logging Plan Map
3 (ROW)	DF, SF / 52 mbf		Logging Plan Map
TOTAL MBF	4752 mbf		

REMARKS:

To access the units use the L-3000 road system. Unit 2 is only accessible by walking in the L-3043 (new construction). Contact forester if you have any questions.

Prepared By: Emily Fales Date: 1/15/2019	Title: State Lands Forester I	CC:
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Cruise Narrative

Sale Name: Rail Splitter TS	Region: Pacific Cascade
App. #: 30-098509	District: Lewis
Lead Cruiser: Alex Chaney	Completion date: 08/27/2019
Other Cruisers: Dan Clark	

Unit acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1	77.5	Yes	
2	24.1	Yes	
3	1.3	Yes	
Total	102.9		

Unit cruise specifications:

Unit #	Sample type (VP, FP, ITS,100%)	Expansion factor (BAF, full/half)	Sighting height (4.5 ft, 16 ft.)	Grid size (Plot spacing or % of area)	Plot ratio (Cru./Tally)	Total number of plots
1	VP	46.94/27.78	16'	208'x208'	1:1	75
2	VP	46.94/27.78	16'	208'x208'	1:1	24
3	ITS	NA	NA	NA	NA	NA

Sale/Cruise Description:

Minor species cruise intensity:	Cruised on appropriate plots.						
Minimum cruise spec:	40% Of Form- Factor at 16 feet D.O.B or 5 inch Top, and merchantable top.						
Avg. ring count by sp:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DF =</td> <td style="width: 25%; text-align: center;">6</td> <td style="width: 15%;">WH =</td> <td style="width: 15%; text-align: center;">NA</td> <td style="width: 15%;">SS =</td> <td style="width: 15%; text-align: center;">NA</td> </tr> </table>	DF =	6	WH =	NA	SS =	NA
DF =	6	WH =	NA	SS =	NA		
Leave/take tree description:	Leave tree clumps are bounded with yellow "Leave Tree Area" tags and pink flagging, individual leave trees are marked with a single band of blue paint.						
Sort Description:	<p>HA – Logs meeting the following criteria: Surface characteristics for a high quality A sort will have sound tight knots not to exceed 1 ½" in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots and knot indicators ½" in diameter and smaller shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log. (min dia 8".)</p> <p>HB – Logs meeting the following criteria: Surface characteristics for a B sort will have sound tight knots not to exceed 1 ½" in diameter. May include logs with not more than two larger knots up to 2 ½" in diameter. Logs will have a growth ring count of 6 or more rings per inch in the outer third to end of the log. (min dia 8".)</p> <p>R – Logs meeting the following criteria: Gross diameter of 12 inches or greater, excessive knots greater than 2 ½ inches with recovery less than 65% of the net scale.</p> <p>D- Domestic logs</p>						

Field observations:

Rail Splitter TS

This sale consist of 2 units and 1 right of way w hich you can access from Chandler Rd or Lincoln Creek Rd.

Unit 1 is a 55 year old dominant Douglas fir stand w ith minor species being Western hemlock, Silver fir, Sitka Spruce, Red alder and Red cedar. All logs in this unit are domestic w ith Douglas fir having an average DBH of 21.3" w ith a bole height of 79ft. This stand has a decent amount of defect. Some of the defects I observed is old bear damage, storm damage, sw ollen butts, spike knots, forks, sw eep and some root rot. Some of the silver fir has frost check.

Unit 2 is a 60 year old stand w ith a good mix of Douglas fir and Western hemlock. The minor species include Silver fir, Sitka spruce, Red alder and Red cedar. Most of the logs in this unit w ere domestic w ith little high quality logs for Douglas fir. Some of the Silver fir is Special Mill quality. The average DBH for Western hemlock is 15.6" w ith a bole height of 87ft and the average DBH for Douglas fir is 22" w ith a bole height of 100ft. Unit 2 is a healthy looking stand.

Unit 3 is a 1.3 acre Right of way w ith very similar timber type as unit 2.

Overall this sale is made up of mostly Douglas fir and Western hemlock w ith domestic and some high quality logs. This sale is 77% ground based and 23% uphill cable. All roads are drivable but some need some pre-haul maintenance and there are no gates you need to pass through to access this sale.

Grants: 01, 03

Prepared by: Alex Chaney

Title: Timber Cruiser

T		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
T14N R05W S16 Ty00U1 77.50 T14N R05W S16 Ty00U2 24.10 T14N R05W S16 Ty00U3 1.30				Project: RAIL Acres 102.90										Page 1 Date 12/11/2019 Time 10:25:27AM								
Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
									5-7	8-11	12-15	16+	12-20	21-30	31-35	36-99						
DF	CU	CU			100.0	662											4	11		0.00	34.0	
DF	HB	2S	4	4.2	992	950	98				83	17					40	15	329	1.79	2.9	
DF	HB	3S	1		442	442	45			100							38	11	161	0.87	2.7	
DF	D	2S	58	6.6	14,590	13,627	1,402				55	45		2	3	5	90	37	15	310	2.05	44.0
DF	D	3S	23	4.9	5,869	5,579	574	24	76					2	6	15	77	36	8	91	0.77	61.6
DF	D	4S	5	1.3	1,277	1,261	130	89	11					24	39	20	16	25	6	30	0.38	42.1
DF	D	UT	9		1,908	1,908	196	4	14	24	58			71	18	2	9	18	13	122	1.50	15.6
DF	Totals			58	7.7	25,739	23,767	2,446	11	21	37	31		9	7	8	76	27	10	117	1.12	202.9
WH	CU	CU			100.0	393											5	8		0.00	29.7	
WH	D	2S	47	5.1	7,327	6,956	716				62	38		1	4	9	85	37	14	270	1.80	25.7
WH	D	3S	40	4.4	6,124	5,852	602	19	81							3	22	37	8	95	0.69	61.3
WH	D	4S	11	1.9	1,541	1,513	156	90	10					23	30	16	32	27	5	29	0.31	52.2
WH	D	UT	2		244	244	25	9	91					58	42			21	8	42	0.57	5.8
WH	Totals			36	6.8	15,629	14,566	1,499	17	35	30	18		4	7	15	74	28	8	83	0.76	174.7
SF	CU	CU															3	19		0.00	.2	
SF	HA	SM	5		98	98	10					100					40	27	1370	5.72	.1	
SF	D	2S	73	5.3	1,333	1,262	130			28	72			4	11	86		38	16	392	2.31	3.2
SF	D	3S	18	9.6	347	314	32	5	95					6	11	83		37	10	116	0.91	2.7
SF	D	4S	4		61	61	6	91	9					37	32	32		25	6	33	0.40	1.8
SF	Totals			4	5.7	1,839	1,735	179	4	17	20	58		1	5	10	84	34	12	217	1.50	8.0
RA	CU	CU			100.0	30											19	6		0.00	1.3	
RA	D	UT	36		202	202	21	46	54					12	5	83		28	6	48	0.63	4.2
RA	D	2S	16	9.8	95	86	9			100					34	66		31	12	140	1.36	.6
RA	D	3S	24	7.2	140	130	13			100					26	74		34	10	128	1.05	1.0
RA	D	4S	16	4.5	90	86	9			100						100		38	9	91	0.79	.9
RA	D	4S	8		42	42	4	100						24	73	3		24	5	27	0.36	1.6
RA	Totals			1	9.0	600	546	56	25	60	16			6	19	31	44	28	7	57	0.66	9.6
SS	CU	CU															2	23		0.00	.1	
SS	D	2S	91	9.2	177	160	17				100			33		25	42	29	20	397	3.37	.4
SS	D	3S	5		8	8	1			100					100			25	9	60	1.21	.1
SS	D	4S	3		5	5	1			100				100				18	9	40	0.92	.1
SS	D	UT	1		1	1	0			100						100		34	9	100	1.10	.0
SS	Totals			0	8.5	191	175	18		8	92			33	4	23	39	22	17	216	2.56	.8
RC	CU	CU															2	9		0.00	1.4	
RC	D	3S	75	6.7	108	101	10			8	46	45				100		40	13	280	2.60	.4
RC	D	4S	25		34	34	3	85	15					15		85		36	6	38	0.49	.9
RC	Totals			0	5.1	141	134	14	21	10	35	34		4		96		18	8	50	1.09	2.7
Totals					7.3	44,139	40,923	4,211	13	27	33	28		7	7	11	75	28	9	103	0.96	398.7

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT RAIL							DATE	12/11/2019	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
14N	05	16	SPLITTER	00U1	102.90	100	469	S	W		
14N	05W	16	SPLITTER	00U2							
14N	05W	16	SPLITTER	00U3							
			TREES	ESTIMATED			PERCENT				
			PER PLOT	TOTAL			SAMPLE				
			TREES	TREES			TREES				
TOTAL		100	469	4.7							
CRUISE		54	237	4.4	15,074		1.6				
DBH COUNT											
REFOREST											
COUNT		43	211	4.9							
BLANKS		3									
100 %											
STAND SUMMARY											
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
WHEMLOCK	81	65.9	16.9	84	24.9	102.0	15,629	14,566	3,850	3,770	
DOUG FIR	118	71.2	21.4	83	38.4	177.8	25,739	23,767	6,327	6,182	
PS FIR	18	2.9	24.0	95	1.9	9.2	1,839	1,735	407	407	
R ALDER	14	5.2	15.5	55	1.7	6.8	600	546	186	178	
S SPRUCE	3	.3	31.5	68	0.3	1.5	191	175	46	46	
WR CEDAR	3	1.0	18.4	55	0.4	1.8	141	134	52	52	
TOTAL	237	146.5	19.4	82	68.0	299.2	44,139	40,923	10,869	10,635	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF	SAMPLE TREES - BF				# OF TREES REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10			15
WHEMLOCK		68.2	7.6	290	314	337					
DOUG FIR		61.3	5.7	430	456	482					
PS FIR		63.0	15.3	641	757	872					
R ALDER		45.2	12.5	116	132	149					
S SPRUCE		19.1	13.2	526	607	687					
WR CEDAR		88.1	60.9	120	307	494					
TOTAL		73.2	4.8	391	411	430	214	53			24
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10			15
WHEMLOCK		62.3	6.9	75	81	86					
DOUG FIR		50.7	4.7	109	114	119					
PS FIR		48.1	11.7	148	168	188					
R ALDER		42.4	11.7	36	41	46					
S SPRUCE		1.3	.9	167	169	170					
WR CEDAR		77.5	53.6	51	111	170					
TOTAL		60.7	4.0	99	103	107	147	37			16
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10			15
WHEMLOCK		147.3	14.7	56	66	76					
DOUG FIR		77.5	7.7	66	71	77					
PS FIR		383.9	38.4	2	3	4					
R ALDER		382.0	38.2	3	5	7					
S SPRUCE		678.8	67.8	0	0	0					
WR CEDAR		585.2	58.5	0	1	2					
TOTAL		54.5	5.4	139	146	154	119	30			13
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10			15
WHEMLOCK		140.0	14.0	88	102	116					

TC PSTATS		PROJECT STATISTICS					PAGE	2		
		PROJECT		RAIL			DATE	12/11/2019		
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
14N	05	16	SPLITTER	00U1	102.90	100	469	S	W	
14N	05W	16	SPLITTER	00U2						
14N	05W	16	SPLITTER	00U3						
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REO.		INF. POP.	
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		74.9	7.5	164	178	191				
PS FIR		366.3	36.6	6	9	13				
R ALDER		366.2	36.6	4	7	9				
S SPRUCE		681.5	68.1	0	1	2				
WR CEDAR		492.5	49.2	1	2	3				
TOTAL		40.3	4.0	287	299	311	65	16	7	
CL	68.1	COEFF		NET BF/ACRE			# OF PLOTS REO.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK		144.7	14.5	12,460	14,566	16,672				
DOUG FIR		80.0	8.0	21,868	23,767	25,667				
PS FIR		401.3	40.1	1,039	1,735	2,430				
R ALDER		360.3	36.0	349	546	742				
S SPRUCE		691.0	69.0	54	175	295				
WR CEDAR		529.7	52.9	63	134	205				
TOTAL		51.8	5.2	38,806	40,923	43,040	107	27	12	
CL	68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REO.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK		142.2	14.2	3,234	3,770	4,305				
DOUG FIR		77.1	7.7	5,706	6,182	6,659				
PS FIR		385.2	38.5	250	407	564				
R ALDER		357.4	35.7	114	178	242				
S SPRUCE		678.7	67.8	15	46	77				
WR CEDAR		508.2	50.8	26	52	79				
TOTAL		46.4	4.6	10,143	10,635	11,128	86	21	10	

T14N R05W S16 T00U1 **T14N R05W S16 T00U1**
 Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt
 14N 05W 16 SPLITTER 00U1 77.50 75 148 S W

Spp	S T	So rt	Gr ad Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
									5-7	8-11	12-15	16+	12-20	21-30	31-35	36-99						
DF	CU	CU			100.0	817												4	10		0.00	40.5
DF	DM	2S	56	7.1	14,881	13,820	1,071			62	38			2	3	6	90	37	15	289	1.99	47.9
DF	DM	3S	27	5.2	6,913	6,555	508	24	76					1	3	14	82	36	9	94	0.80	69.7
DF	DM	4S	6	1.4	1,494	1,472	114	89	11					21	41	20	18	26	6	31	0.39	48.2
DF	DM	UT	11		2,450	2,450	190	3	12	25	60			73	15	2	9	17	14	134	1.67	18.3
DF	Totals		72	8.5	26,555	24,298	1,883	12	23	38	28			10	6	9	75	27	10	108	1.09	224.6
WH	CU	CU			100.0	30												1	9		0.00	11.2
WH	DM	2S	59	6.0	5,238	4,925	382			63	37			2	5	93		37	14	278	1.93	17.7
WH	DM	3S	31	3.4	2,697	2,605	202	21	79					8	17	75		36	8	91	0.74	28.6
WH	DM	4S	7	1.3	561	553	43	95	5					35	37	14	15	25	5	27	0.34	20.7
WH	DM	UT	3		203	203	16	15	85					32	68			24	8	43	0.55	4.7
WH	Totals		24	5.1	8,728	8,286	642	13	27	37	22			3	8	9	80	28	9	100	0.97	82.9
RA	DM	UT	53		268	268	21	46	54					12	5	83		28	6	48	0.63	5.6
RA	DM	2S	13	11.1	76	68	5			100						100		36	12	160	1.48	.4
RA	DM	3S	15	6.2	81	76	6			100						100		36	11	150	1.21	.5
RA	DM	4S	14		68	68	5			100						100		36	9	100	0.92	.7
RA	DM	4S	5		24	24	2	100						57	43			21	5	20	0.34	1.2
RA	Totals		1	2.6	517	503	39	29	58	13				9	5	44	42	29	7	60	0.73	8.3
SF	DM	2S	64	11.6	361	319	25			26	74					100		38	16	328	2.26	1.0
SF	DM	3S	29	23.7	187	143	11	14	86						5	95		37	9	89	0.92	1.6
SF	DM	4S	7		34	34	3	100						25		75		32	6	37	0.36	.9
SF	Totals		1	14.8	582	496	38	11	25	17	48			2	2	97		36	10	142	1.18	3.5
SS	CU	CU																2	23		0.00	.2
SS	DM	2S	92	9.2	228	207	16			100				34		25	41	29	20	396	3.36	.5
SS	DM	3S	4		10	10	1			100					100			25	9	60	1.21	.2
SS	DM	4S	4		7	7	1			100				100				18	9	40	0.92	.2
SS	Totals		1	8.5	246	225	17			8	92			34	5	23	38	22	17	215	2.57	1.0
RC	CU	CU																2	9		0.00	1.9
RC	DM	3S	58	6.9	67	62	5			100						100		40	14	270	2.83	.2
RC	DM	4S	42		45	45	3	85	15					15		85		36	6	38	0.49	1.2
RC	Totals		0	4.1	111	107	8	35	6	58				6		94		16	8	32	0.86	3.3
Type Totals					7.7	36,738	33,914	2,628	13	24	37	27		8	7	9	76	27	10	105	1.05	323.6

TC TSTATS		STATISTICS							PAGE	1	
		PROJECT RAIL							DATE	12/11/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
14N	05W	16	SPLITTER	00U1	77.50	75	305	S	W		
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL		75	305	4.1							
CRUISE		40	148	3.7	9,368		1.6				
DBH COUNT											
REFOREST											
COUNT		32	140	4.4							
BLANKS		3									
100 %											
STAND SUMMARY											
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
DOUG FIR	91	80.4	21.3	79	43.1	198.9	26,555	24,298	6,778	6,596	
WHEMLOCK	41	32.2	18.8	79	14.3	61.8	8,728	8,286	2,259	2,253	
R ALDER	7	5.1	15.7	50	1.7	6.9	517	503	175	175	
PS FIR	5	1.6	21.1	80	0.9	3.9	582	496	148	148	
S SPRUCE	2	.3	31.5	68	0.3	1.9	246	225	59	59	
WR CEDAR	2	1.2	16.7	52	0.4	1.8	111	107	46	46	
TOTAL	<i>148</i>	<i>120.9</i>	<i>20.4</i>	<i>78</i>	<i>60.9</i>	<i>275.2</i>	<i>36,738</i>	<i>33,914</i>	<i>9,464</i>	<i>9,277</i>	
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		53.5	5.6	360	382	404					
WHEMLOCK		59.7	9.3	309	341	372					
R ALDER		52.6	21.4	89	113	137					
PS FIR		47.5	23.6	303	396	489					
S SPRUCE		20.8	19.5	519	645	771					
WR CEDAR		108.1	101.3	170	170	342					
TOTAL		<i>58.0</i>	<i>4.8</i>	<i>342</i>	<i>359</i>	<i>376</i>	<i>134</i>	<i>34</i>	<i>15</i>		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		46.3	4.9	97	102	107					
WHEMLOCK		53.4	8.3	84	91	99					
R ALDER		41.9	17.0	32	38	45					
PS FIR		38.3	19.0	90	111	133					
S SPRUCE		1.7	1.6	165	168	171					
WR CEDAR		105.3	98.6	1	72	143					
TOTAL		<i>50.4</i>	<i>4.2</i>	<i>93</i>	<i>97</i>	<i>101</i>	<i>102</i>	<i>25</i>	<i>11</i>		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		65.3	7.5	74	80	86					
WHEMLOCK		182.9	21.1	25	32	39					
R ALDER		385.0	44.4	3	5	7					
PS FIR		431.6	49.8	1	2	2					
S SPRUCE		608.2	70.2	0	0	1					
WR CEDAR		552.9	63.8	0	1	2					
TOTAL		<i>43.2</i>	<i>5.0</i>	<i>115</i>	<i>121</i>	<i>127</i>	<i>75</i>	<i>19</i>	<i>8</i>		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REO.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		63.9	7.4	184	199	214					
WHEMLOCK		183.8	21.2	49	62	75					
R ALDER		371.8	42.9	4	7	10					

TC TSTATS				STATISTICS			PAGE	2		
				PROJECT RAIL			DATE	12/11/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
14N	05W	16	SPLITTER	00U1	77.50	75	305	S	W	
CL:	68.1 %	COEFF		BASAL AREA/ACRE			# OF PLOTS REO.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
PS FIR		382.9	44.2	2	4	6				
S SPRUCE		608.6	70.2	1	2	3				
WR CEDAR		493.3	56.9	1	2	3				
TOTAL		40.3	4.7	262	275	288	65	16	7	
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REO.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		66.7	7.7	22,428	24,298	26,167				
WHEMLOCK		193.5	22.3	6,436	8,286	10,136				
R ALDER		366.5	42.3	290	503	716				
PS FIR		389.2	44.9	273	496	718				
S SPRUCE		615.4	71.0	65	225	385				
WR CEDAR		507.7	58.6	44	107	169				
TOTAL		46.7	5.4	32,088	33,914	35,740	87	22	10	
CL:	68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REO.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		65.7	7.6	6,096	6,596	7,096				
WHEMLOCK		189.0	21.8	1,762	2,253	2,744				
R ALDER		367.2	42.4	101	175	249				
PS FIR		386.7	44.6	82	148	214				
S SPRUCE		608.3	70.2	17	59	100				
WR CEDAR		503.8	58.1	19	46	73				
TOTAL		44.1	5.1	8,805	9,277	9,748	78	19	9	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT		RAIL		DATE	12/11/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
14N	05W	16	SPLITTER	00U2	24.10	24	142	S	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	24	142	5.9							
CRUISE	13	67	5.2		5,514		1.2			
DBH COUNT										
REFOREST										
COUNT	11	71	6.5							
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
WHEMLOCK	30	172.1	15.6	87	57.6	227.0	37,024	33,966	8,785	8,462
DOUG FIR	24	45.1	22.0	100	25.3	118.7	24,382	23,226	5,191	5,155
PS FIR	8	5.8	25.9	105	4.1	21.1	4,725	4,606	991	991
R ALDER	4	5.5	14.7	70	1.7	6.5	835	651	214	179
WR CEDAR	1	.4	30.0	81	0.4	2.0	247	231	75	75
TOTAL	67	228.8	17.3	89	90.1	375.2	67,213	62,680	15,255	14,861
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK	76.6	14.2		247	288	329				
DOUG FIR	44.9	9.6		683	756	828				
PS FIR	54.3	20.5		786	989	1,191				
R ALDER	28.6	16.3		103	123	142				
WR CEDAR										
TOTAL	78.4	9.6		479	530	581	246	61	27	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK	71.5	13.3		61	70	79				
DOUG FIR	41.6	8.9		150	165	180				
PS FIR	43.2	16.3		170	203	236				
R ALDER	31.9	18.2		27	33	40				
WR CEDAR										
TOTAL	69.4	8.5		109	119	129	192	48	21	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK	71.8	15.0		146	172	198				
DOUG FIR	122.3	25.5		34	45	57				
PS FIR	320.8	66.8		2	6	10				
R ALDER	395.5	82.4		1	5	10				
WR CEDAR	489.9	102.1			0	1				
TOTAL	45.4	9.5		207	229	250	86	21	10	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK	71.6	14.9		193	227	261				
DOUG FIR	113.0	23.5		91	119	147				
PS FIR	278.7	58.1		9	21	33				
R ALDER	376.9	78.5		1	6	12				
WR CEDAR	489.9	102.1			2	4				
TOTAL	34.3	7.1		348	375	402	49	12	5	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK	71.9	15.0		28,878	33,966	39,054				

TC TSTATS				STATISTICS			PAGE	2	
				PROJECT	RAIL		DATE	12/11/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
14N	05W	16	SPLITTER	00U2	24.10	24	142	S	W
CL:	68.1 %	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR		115.3	24.0	17,649	23,226	28,803			
PS FIR		275.2	57.3	1,966	4,606	7,247			
R ALDER		371.4	77.4	147	651	1,155			
WR CEDAR		489.9	102.1		231	466			
TOTAL		36.6	7.6	57,898	62,680	67,462	56	14	6
CL:	68.1 %	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK		71.9	15.0	7,194	8,462	9,729			
DOUG FIR		115.3	24.0	3,917	5,155	6,393			
PS FIR		282.0	58.8	409	991	1,573			
R ALDER		363.6	75.7	43	179	314			
WR CEDAR		489.9	102.1		75	151			
TOTAL		36.2	7.5	13,741	14,861	15,981	55	14	6

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	RAIL			DATE	12/11/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
14N	05W	16	SPLITTER	00U3	1.30	1	22	S	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	1	22	22.0							
CRUISE	1	22	22.0	192	11.5					
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
100 %										
STAND SUMMARY										
SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
WHEMLOCK	10	104.6	17.8	92	43.0	181.7	30,443	29,292	7,221	7,221
PS FIR	5	30.0	25.4	105	20.9	105.3	23,280	22,380	5,048	5,048
DOUG FIR	3	6.0	19.5	95	2.8	12.5	2,280	2,200	543	543
R ALDER	3	6.0	17.8	69	2.5	10.4	1,180	1,140	353	353
S SPRUCE	1	.8	30.0	72	0.7	3.8	446	408	131	131
TOTAL	22	147.4	19.8	94	70.6	313.7	57,629	55,420	13,296	13,296
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REO.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK	87.2	29.0		199	280	361				
PS FIR	53.2	26.4		549	746	943				
DOUG FIR	75.8	52.4		174	367	559				
R ALDER	34.5	23.9		145	190	235				
S SPRUCE										
TOTAL	82.0	17.9		326	397	468	281	70	31	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REO.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
WHEMLOCK	76.4	25.4		51	69	87				
PS FIR	45.9	22.8		130	168	207				
DOUG FIR	68.6	47.4		48	90	133				
R ALDER	35.4	24.5		44	59	73				
S SPRUCE										
TOTAL	70.8	15.4		83	98	113	210	52	23	

Species Summary - Trees, Logs, Tons, CCF, MBF

T14N R05W S16 Ty00U	77.5
T14N R05W S16 Ty00U	24.1
T14N R05W S16 Ty00	1.3

Project **RAIL**
Acres **102.90**

Page No **1**
Date: **12/11/2019**
Time **10:25:31AM**

Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
DOUG FIR	7,324	17,388	18,556	86.86	36.59	1.14	6,511	6,361	2,649	2,446
WHEMLOCK	6,780	14,921	12,676	57.21	26.00	0.80	3,961	3,879	1,608	1,499
PS FIR	303	805	1,200	138.38	52.05	1.50	419	419	189	179
R ALDER	538	857	527	34.01	21.37	0.72	192	183	62	56
S SPRUCE	28	70	122	168.16	67.68	2.58	47	47	20	18
WR CEDAR	100	128	127	53.71	42.20	1.15	54	54	15	14
Totals	15,074	34,168	33,208	72.60	32.03	0.99	11,184	10,944	4,542	4,211

Wood Type Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
C	14,535	33,311	32,682	74.03	32.30	1.00	10,992	10,761	4,480	4,155
H	538	857	527	34.01	21.37	0.72	192	183	62	56
Totals	15,074	34,168	33,208	72.60	32.03	0.99	11,184	10,944	4,542	4,211



Forest Practices Application/Notification Notice of Decision

FPA/N No: 2937034
 Effective Date: 11/27/2019
 Expiration Date: 11/27/2022
 Shut Down Zone: 655, 651N
 EARR Tax Credit: Eligible Non-eligible
 Reference: Rail Splitter
 30-098509

Decision

- Notification Operations shall not begin before the effective date.
- Approved This Forest Practices Application is subject to the conditions listed below.
- Disapproved This Forest Practices Application is disapproved for the reasons listed below.
- Closed Applicant has withdrawn FPA/N.

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: Alex Lilla

Region: Pacific Cascade

Title: Forest Practices Forester

Date: 11/27/2019

Copies to: Landowner, Timber Owner and Operator.

Issued in person: Landowner Timber Owner Operator By: 

Appeal Information

You have thirty (30) days to appeal this Decision and any related State Environmental Policy Act determinations to the Pollution Control Hearings Board in writing at the following addresses:

Physical address: 1111 Israel Rd. SW, Ste 301, Tumwater, WA 98501

Mailing address: P.O. BOX 40903, OLYMPIA, WA 98504-0903

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

At the same time you file an appeal with the Pollution Control Hearings Board, also send a copy of the appeal to the Department of Natural Resources' region office and the Office of the Attorney General at the following addresses:

Office of the Attorney General
Natural Resources Division
1125 Washington Street SE
PO Box 40100
Olympia, WA 98504-0100

And

Department Of Natural Resources
Pacific Cascade Region
PO Box 280
Castle Rock WA 98611

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: <http://www.dnr.wa.gov/businesspermits/forestpractices>. Notify DNR of new Operators within 48 hours.

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

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

Before the sale or transfer of land or perpetual timber rights subject to continuing forest land 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 forest land obligation, the seller must pay the buyer's costs related to continuing forest land obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forest land obligation against the seller.

Failure by the seller to send the required notice to the 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 forest land obligation prior to sale.

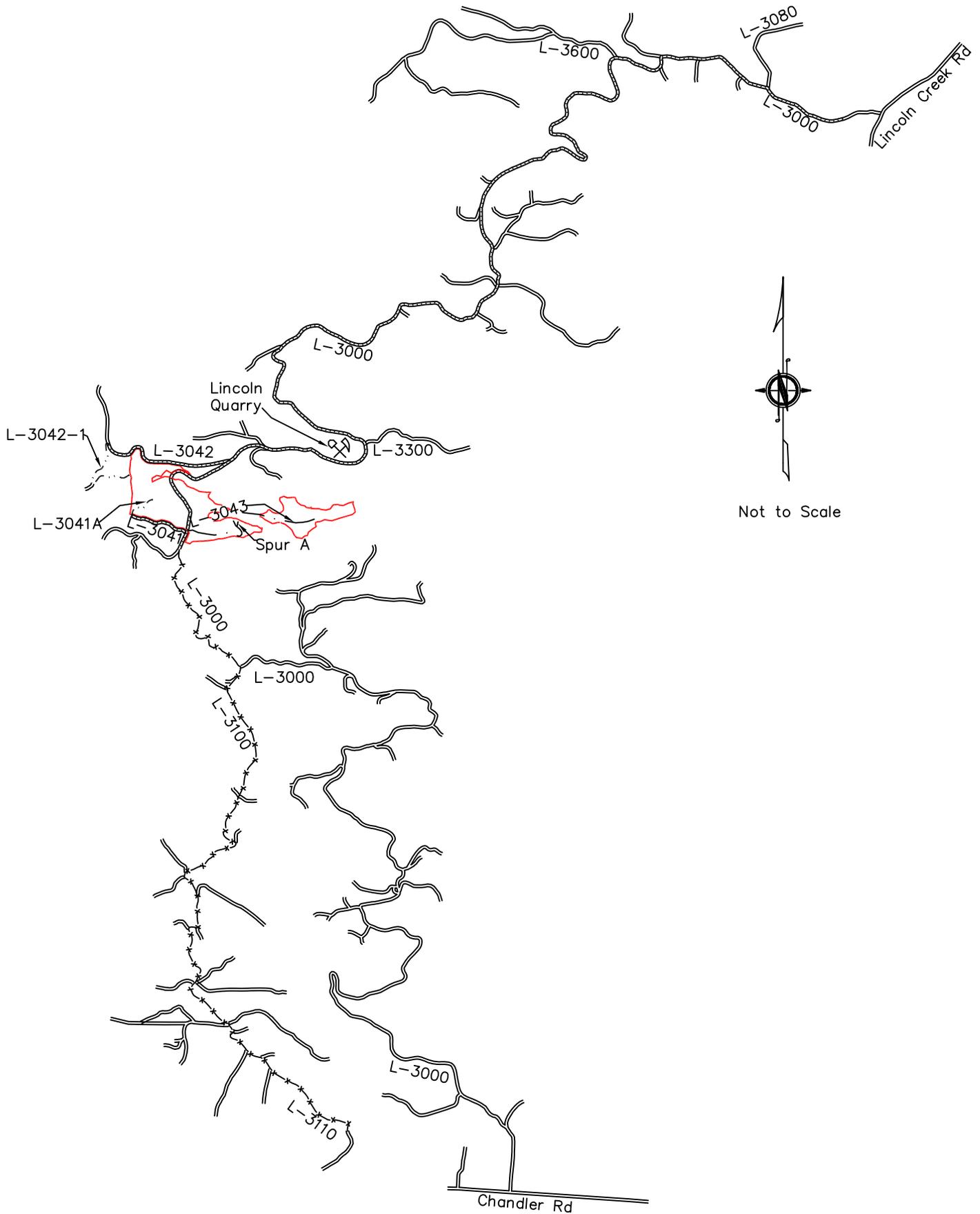
DNR affidavit of mailing:

On this day _____,	I placed in the United States mail at _____ Castle Rock _____, WA,
(date)	(post office location)
postage paid, a true and accurate copy of this document. Notice of Decision FPA # _____	
_____ (Printed name)	_____ (Signature)

RAIL SPLITTER

OVERVIEW ROAD PLAN MAP

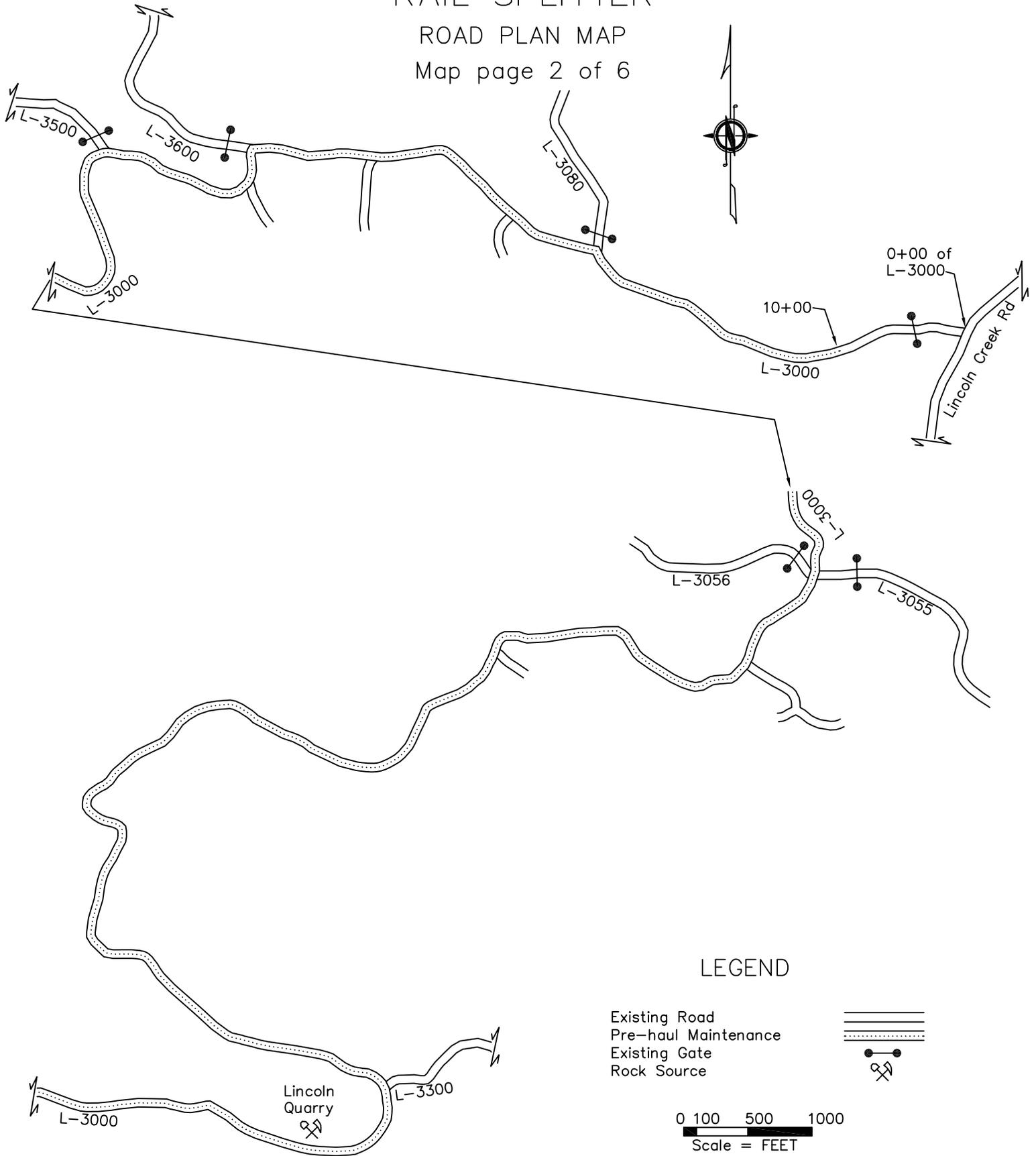
Map page 1 of 6



RAIL SPLITTER

ROAD PLAN MAP

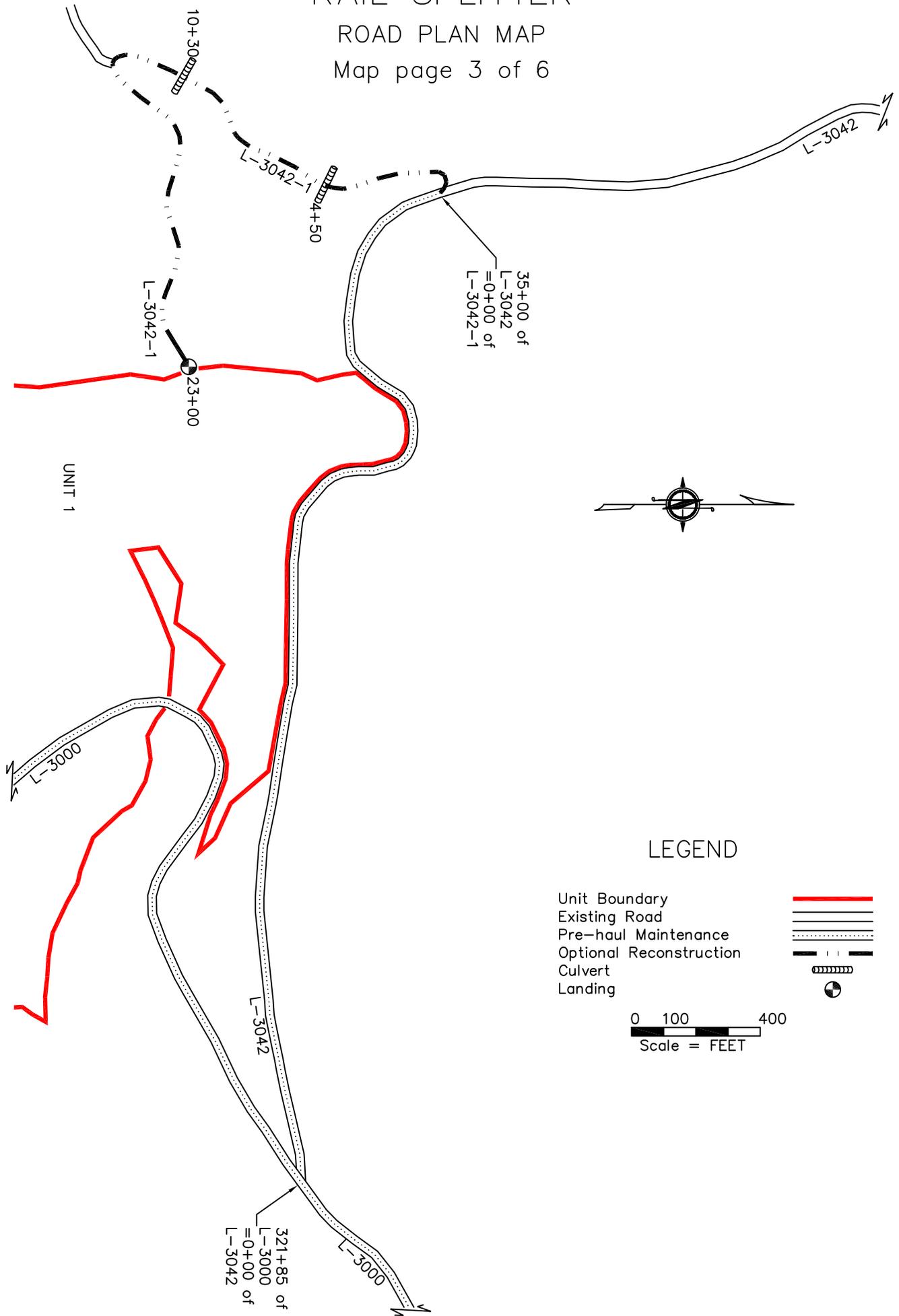
Map page 2 of 6



RAIL SPLITTER

ROAD PLAN MAP

Map page 3 of 6



LEGEND

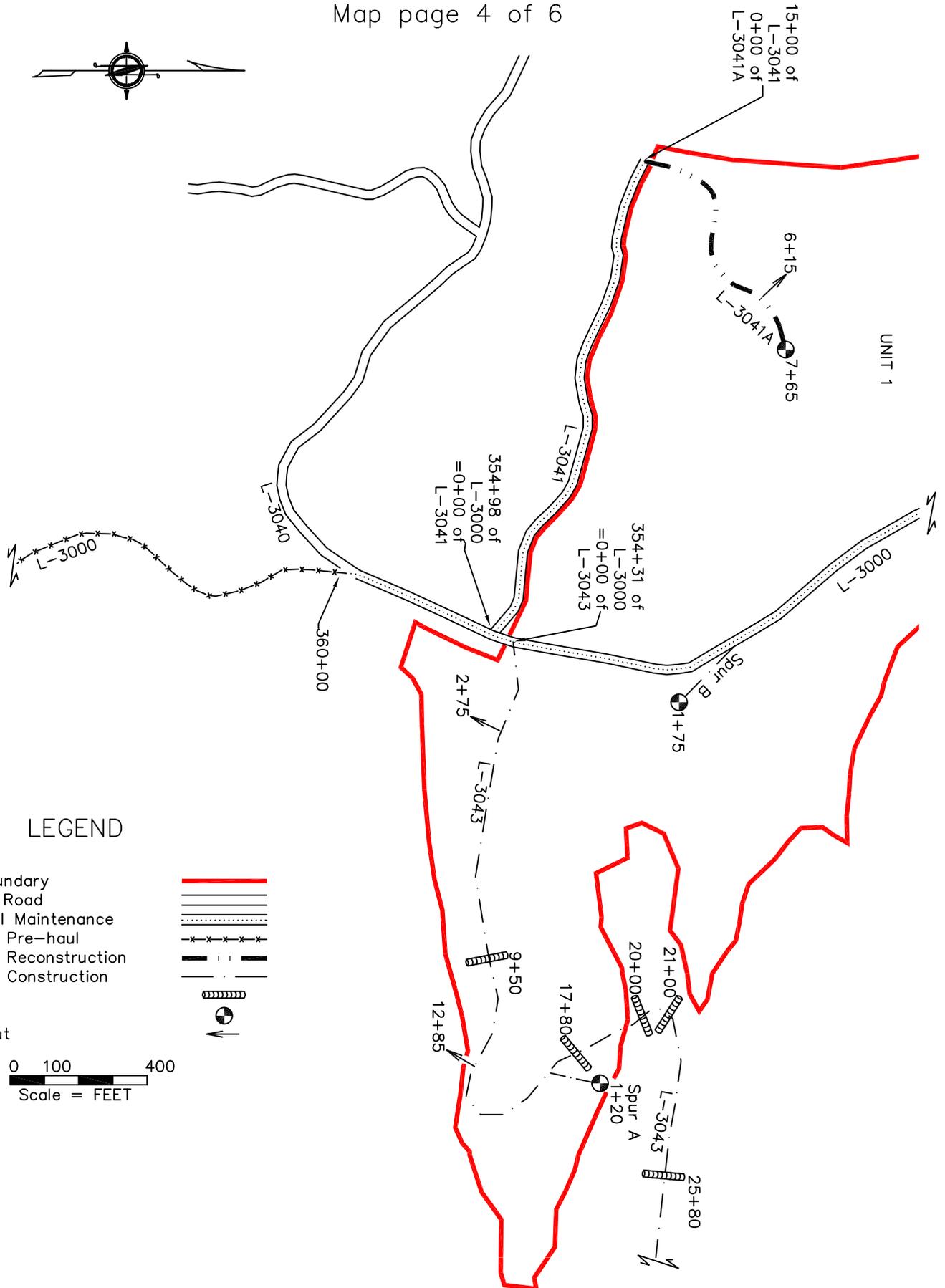
- Unit Boundary
- Existing Road
- Pre-haul Maintenance
- Optional Reconstruction
- Culvert
- Landing

0 100 400
Scale = FEET

RAIL SPLITTER

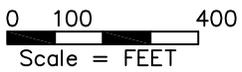
ROAD PLAN MAP

Map page 4 of 6



LEGEND

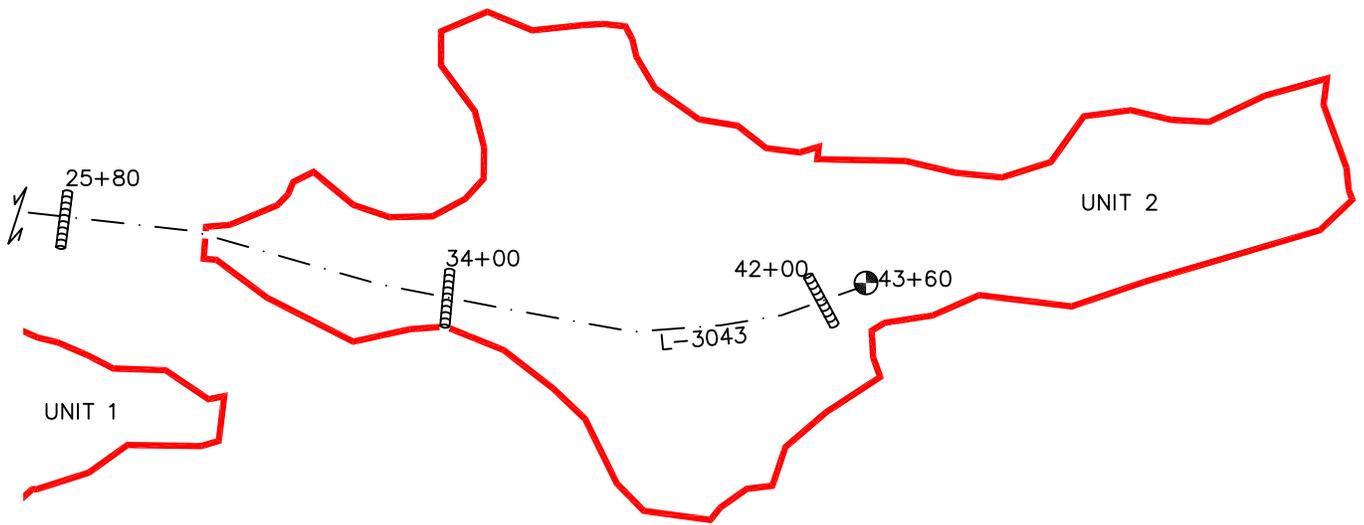
- Unit Boundary
- Existing Road
- Pre-haul Maintenance
- Optional Pre-haul
- Optional Reconstruction
- Optional Construction
- Culvert
- Landing
- Ditch Out



RAIL SPLITTER

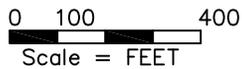
ROAD PLAN MAP

Map page 5 of 6



LEGEND

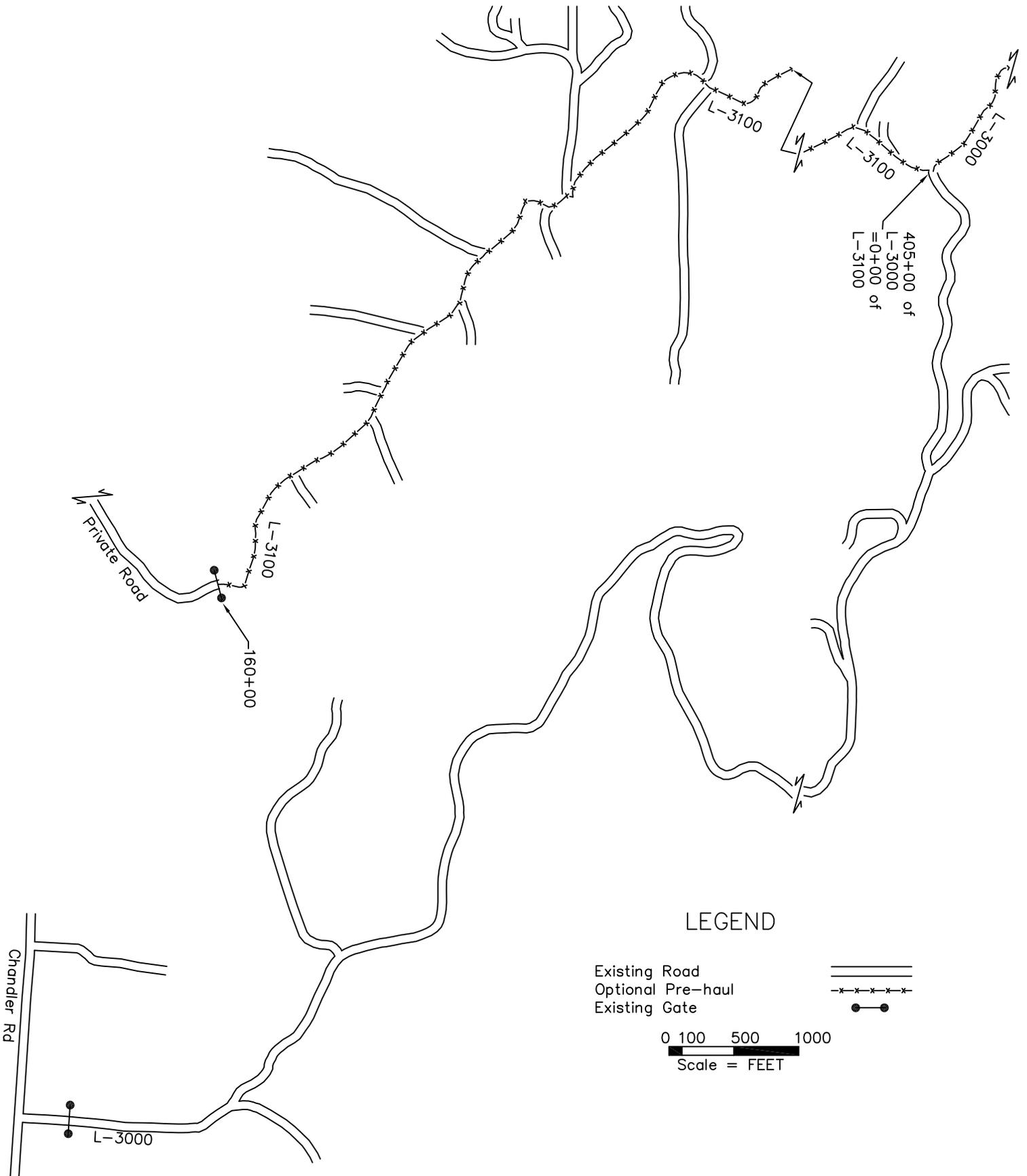
- Unit Boundary 
- Optional Construction 
- Culvert 
- Landing 
- Ditch Out 



RAIL SPLITTER

ROAD PLAN MAP

Map page 6 of 6



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

RAIL SPLITTER TIMBER SALE ROAD PLAN
LEWIS COUNTY
LEWIS DISTRICT
PACIFIC CASCADE REGION

AGREEMENT NO.: 30-098509

STAFF ENGINEER: CHRIS WERNER

DRAWN & COMPILED BY: ALICIA COMPTON

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
L-3000	10+00 to 360+00	Prehaul Maintenance
L-3041	0+00 to 15+00	Prehaul Maintenance
L-3042	0+00 to 35+00	Prehaul Maintenance

0-3 OPTIONAL ROADS

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

<u>Road</u>	<u>Stations</u>	<u>Type</u>
L-3000	360+00 to 405+00	Prehaul Maintenance
L-3100	0+00 to 160+00	Prehaul Maintenance
L-3041A	0+00 to 7+65	Reconstruction
L-3042-1	0+00 to 23+00	Reconstruction
L-3043	0+00 to 43+60	Construction
Spur A	0+00 to 1+20	Construction
Spur B	0+00 to 1+75	Construction

0-4 CONSTRUCTION

Construction includes, but is not limited to clearing, grubbing, right-of-way debris disposal, excavation and/or embankment to subgrade, ditch construction, ditch-out construction, landing construction, acquisition and installation of drainage structures; acquisition, processing and application of rock and grass seeding.

0-5 RECONSTRUCTION

Reconstruction includes, but is not limited to clearing trees from road prism, Desod road, ditch reconstruction, installation of drainage structures, application and compaction of rock and grass seeding exposed soils.

0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
L-3000	10+00 to 360+00	Grade, shape and compact. Apply spot rock per ROCK LIST.
L-3000	360+00 to 405+00	Grade, shape and compact.
L-3100	0+00 to 160+00	Grade, shape and compact.
L-3041	0+00 to 15+00	Grade, shape and compact. Apply spot rock per ROCK LIST.
L-3042	0+00 to 35+00	Grade, shape and compact. Apply spot rock per ROCK LIST.

0-7 POST-HAUL MAINTENANCE

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

0-12 DEVELOP ROCK SOURCE

Purchaser shall develop an existing rock source. Rock source development will involve stripping and removing overburden, drilling and shooting rock per quantities and sizes specified in the ROCK LIST. 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 any submitted plan that changes the scope of work or environmental condition from the original road plan.

1-2 UNFORESEEN CONDITIONS

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

1-3 ROAD DIMENSIONS

Purchaser shall perform road work in accordance with the dimensions shown on the TYPICAL SECTION SHEET and the specifications within this road plan.

1-4 ROAD TOLERANCES

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

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-7 TEMPORARY ROAD CLOSURE

Purchaser shall notify the Contract Administrator a minimum of 7 calendar days before the closure of any road. Construction may not close any road for more than 21 consecutive calendar days.

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.

1-15 ROAD MARKING

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

- Road centerline marked with wooden stakes, orange flagging, orange paint for Construction and Reconstruction.
- Prehaul maintenance is marked with wooden stakes, orange flagging, orange paint.

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.

1-20 COMPLETE BY DATE

Purchaser shall complete road work before the start of timber haul.

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 7 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
- Rock application

1-25 ACTIVITY TIMING RESTRICTION

The specified activities are not allowed during the listed closure period(s) unless authorized in writing by the Contract Administrator. Restrictions for hauling forest products are specified in Contract Clause H-130 HAULING SCHEDULE.

<u>Road</u>	<u>Stations</u>	<u>Activity</u>	<u>Closure Period</u>
All Roads	All Stations	Road Work	November 1 to April 30

1-26 OPERATING DURING CLOSURE PERIOD

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

1-29 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 pit run roads.
- Wheel track rutting exceeds 4 inches on crushed rock roads.
- Wheel track rutting exceeds 4 inches on native surface roads.
- Surface or base stability problems persist.
- Weather is such that satisfactory results cannot be obtained in an area of operations.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

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

1-32 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 surface(s) and have surface(s) evaluated for any damage caused by transporting equipment. Any damage to the surface(s) will be repaired, at the Purchaser's expense, as directed by the Contract Administrator.

Purchaser shall have bridges load rated by a Registered Professional Engineer licensed in the State of Washington. All load rating reports, calculations, or drawings must be stamped by the licensed engineer and submitted to the Contract Administrator prior to allowing any work to continue. All damage to the bridge from transporting equipment will be repaired at the Purchaser's expense.

Purchaser shall have asphalt surfaces reviewed by a third party, specializing in asphalt construction and repair. The third party's scope of the damage and repairs must be agreed upon between the Purchaser and the Contract Administrator. Damage to the asphalt from transporting equipment will be repaired at the Purchaser's expense.

1-33 SNOW PLOWING RESTRICTION

Snowplowing will be allowed after the execution of a SNOW PLOWING AGREEMENT, which is available from the Contract 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.

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 road(s) in a condition that will allow the passage of light administrative vehicles.

2-5 MAINTENANCE GRADING – EXISTING ROAD

Purchaser shall use a grader to shape the existing surface before timber haul. Purchaser shall accomplish all grading using a motor grader with a minimum of 175 horsepower.

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.

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET and within waste and debris areas. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Purchaser shall remove stumps using a hydraulic mounted excavator unless authorized in writing by the Contract Administrator. Stumps over 24 inches diameter must be split. Stumps over 48 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 and as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps must be positioned upright, on stable locations.

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 limits as shown on the TYPICAL SECTION SHEET.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, except by burning, before timber haul.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

Waste areas for organic debris are located within the cleared right-of-way or in natural openings as designated and at areas approved in writing by the Contract Administrator.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

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

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris in natural openings and as directed by the Contract Administrator. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

3-31 PILING

Purchaser shall pile organic debris no closer than 20 feet from standing timber and no higher than 10 feet in areas specified in Clause 3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS. Piles must be free of rock and soil.

SECTION 4 – EXCAVATION

4-2 PIONEERING

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

- Drainage must be provided on all uncompleted construction.
- Road pioneering operations may not undercut the final cut slope or restrict drainage.
- 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 15 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 6% in 100 feet.

4-5 CUT SLOPE RATIO

Purchaser shall construct excavation slopes no steeper than shown on the following table:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>	<u>Excavation Slope Percent</u>
Common Earth	1:1	100
Fractured or loose rock	½:1	200
Hardpan or solid rock	¼:1	400

4-6 EMBANKMENT SLOPE RATIO

Purchaser shall construct embankment slopes no steeper than shown on the following table:

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

4-21 TURNOUTS

Purchaser shall construct turnouts intervisible with a maximum distance of 1,000 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.

4-22 TURNAROUNDS

Turnarounds must be no larger than 40 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.

4-27 DITCH WORK – MATERIAL USE PROHIBITED

Purchaser shall not pull ditch material across the road or mix in with the road surface. Excavated material must be scattered outside the grubbing limits.

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. Locations may not be changed without written approval from the Contract Administrator.

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 areas identified or approved by the Contract Administrator. 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.

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas:

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

4-47 NATIVE MATERIAL

Native material consists of naturally occurring material that is free of organic debris, trash, and rocks greater than 6 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. Purchaser shall accomplish all shaping using a motor grader with a minimum of 175 horsepower.

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.

4-61 SUBGRADE COMPACTION

Purchaser shall compact constructed and reconstructed subgrades deeper than 5 feet at the road shoulder 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 applications.

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 10-17 through 10-22.

5-6 CULVERT TYPE

Purchaser shall install culverts made of plastic in accordance with Clauses 10-17 through 10-22.

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 and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations.

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

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

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all 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. Energy dissipaters must extend a minimum of 1 foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet. Rock must be set in place by machine. Placement must be by zero-drop-height method 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 2 feet wide and 4 feet long.

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 days before starting any operations in the listed locations.

<u>Source</u>	<u>Location</u>
Lincoln Quarry	Sec. 15 T14R05W

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 DEVELOPMENT PLAN, and approved in writing by the Contract Administrator. Purchaser shall notify the Contract Administrator a minimum of 5 days before starting any operations in the rock source.

6-12 ROCK SOURCE SPECIFICATIONS

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

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

Material	Maximum Slope Ratio (Horiz. :Vert.)	Maximum Slope Percent
Sand	2:1	50
Gravel	1.5:1	67
Common Earth	1:1	100
Fractured Rock	0.5:1	200
Solid Rock	0:1	vertical

- Pit walls must be maintained in a condition to minimize the possibility of the walls sliding or failing.
- All vehicle access to the top of the pit faces must be blocked.

6-14 DRILL AND SHOOT

Rock drilling and shooting must meet the following specifications:

- Purchaser shall block access roads and trails before blasting operations.

6-20 ROCK CRUSHING OPERATIONS

Rock crushing operations must conform to the following specifications:

- Operations and placement of oversize material must be conducted in or near the rock source site, as approved in writing by the Contract Administrator.
- The crushing operation must be concluded within 30 working days from the time it begins.

6-22 FRACTURE REQUIREMENT FOR ROCK

A minimum of 50% by visual inspection of coarse aggregate must have at least one fractured face. Coarse aggregate is the material greater than 1/4-inch in size.

6-23 ROCK GRADATION TYPES

Purchaser shall manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality when placed in hauling vehicles.

6-32 2 ½-INCH MINUS CRUSHED ROCK

% Passing 2 ½" square sieve	100%
% Passing 2" square sieve	65 - 95%
% Passing 1" square sieve	50 – 80%
% Passing U.S. #4 sieve	30 – 50%
% Passing U.S. #40 sieve	16% maximum
% Passing U.S. #200 sieve	8% maximum

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

6-41 SELECT PIT RUN ROCK

No more than 50 percent of the rock may be larger than 6 inches in any dimension and no rock may be larger than 10 inches in any dimension. Select Pit Run rock may not contain more than 5 percent by weight of organic debris, dirt, and trash. Rock may require processing to meet this specification.

6-43 QUARRY SPALLS

% Passing 8" square sieve	100%
% Passing 3" square sieve	40% maximum
% Passing 3/4" square sieve	10% maximum

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

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths, are defined as the compacted depth(s) using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are 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 ROCK and QUARRY SPALLS 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 and shall give them to the Contract Administrator on a weekly basis during rocking operations.

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for compaction before rock application.

6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. The Contract Administrator will direct locations for rock that is to be applied as spot patching. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

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.

SECTION 7 – STRUCTURES

7-5 STRUCTURE DEBRIS

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

7-6 STREAM CROSSING INSTALLATION

Purchaser shall install stream crossing structures in accordance with the manufacturer's requirements.

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 at culvert installations. 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 resulting from road work activities. Using manual dispersal. Other methods of covering must be approved in writing by the Contract Administrator. Required seed not spread by the termination of this contract will become the property of the state.

<u>Road</u>	<u>Location</u>	<u>Qty (lbs)*</u>	<u>Type</u>
All Roads	All Stations	140	Grass seed

*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.

8-18 PROTECTION FOR SEED

Purchaser shall provide a protective cover for seed on all exposed soils within 50 feet of streams or wetlands if revegetation occurs between July 1 and March 31. The protective cover may consist of straw. Seed must be covered before the first anticipated storm event. Seed may not be allowed to sit exposed during any rain event. The protective cover requirement may be waived in writing by the Contract Administrator if Purchaser is able to demonstrate a revegetation plan that will result in the establishment of a uniform dense crop (at least 50% coverage) of 3-inch tall grass by October 31.

8-19 ASSURANCE FOR SEEDED AREA

Purchaser shall ensure the growth of a uniform and dense crop (at least 50% coverage) of 3-inch tall grass. 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 addition cost to the state.

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soils 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.

Kind and Variety of Seed in Mixture	% by Weight
Perennial Rye	35-45
Red Fescue	30-40
Highland Bent	5-15
White Clover	10-20
Inert and Other Crop	0.5

SECTION 9 – POST-HAUL ROAD WORK

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.

SECTION 10 MATERIALS

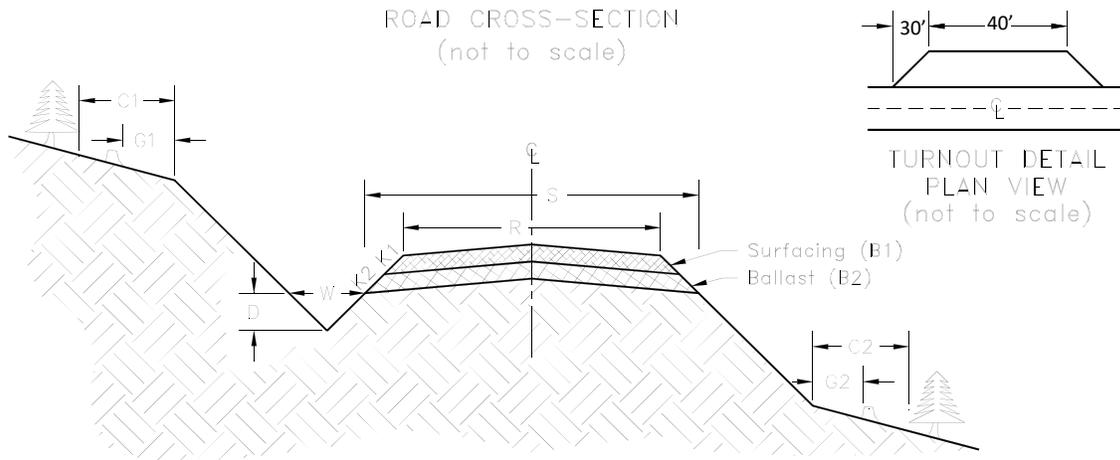
10-17 CORRUGATED PLASTIC CULVERT

Polyethylene culverts must meet AASHTO M-294 specifications. Culverts must be Type S – double walled with a corrugated exterior and smooth interior.

10-22 PLASTIC BAND

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

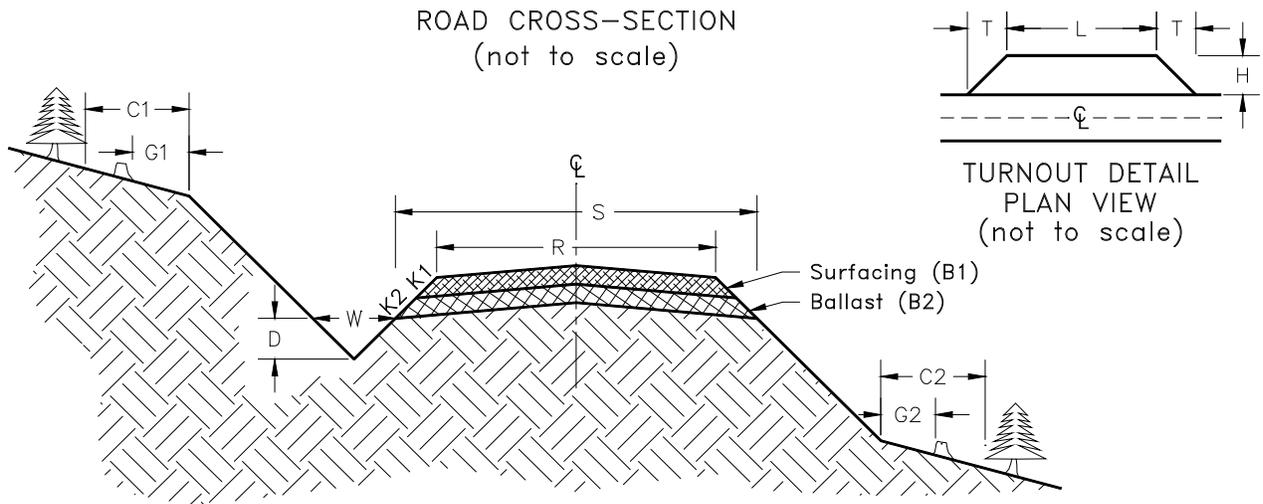
TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width	Road Width	Ditch		Crown in. @ CL	Grubbing Limits		Clearing Limits	
						Width	Depth		G1	G2	C1	C2
				S	R	W	D					
L-3000	10+00	360+00	A	18'	14'	3'	1'	4"				
**L-3000	360+00	405+00	A	18'	14'	3'	1'	4"				
**L-3100	0+00	160+00	A	17'	14'	3'	1'	4"				
L-3041	0+00	15+00	A	15'	12'	3'	1'	4"				
L-3042	0+00	35+00	A	15'	12'	3'	1'	4"				
*L-3041A	0+00	7+65	C	15'	12'	3'	1'	4"	5'	5'	10'	10'
*L-3042-1	0+00	23+00	C	15'	12'	3'	1'	4"	5'	5'	10'	10'
*L-3043	0+00	43+60	C	16'	12'	3'	1'	4"	5'	5'	10'	10'
*Spur A	0+00	1+20	C	16'	12'	3'	1'	4"	5'	5'	10'	10'
*Spur B	0+00	1+75	C	16'	12'	3'	1'	4"	5'	5'	10'	10'

* Optional Constuction/Reconstruction – If Roads are built the rock is REQUIRED per the ROCK LIST.
 ** Optional Prehaul Maintenance – If roads are used for ANY haul then maintenance is REQUIRED per CLAUSE 0-6.

ROCK LIST
(Page 1 of 2)

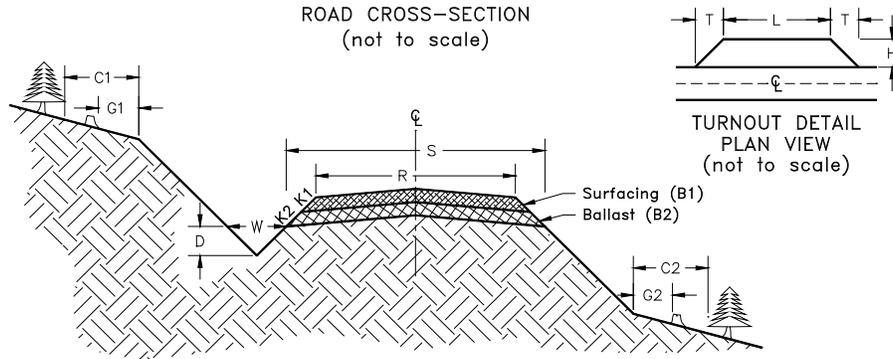


BALLAST

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source
			K2	B2	Select Pit Run (SPR)			
L-3041A	0+00	7+65	1 ½ : 1	9"	46	7.65	350	Lincoln Quarry
L-3042-1	0+00	23+00	1 ½ : 1	9"	46	23.00	1060	Lincoln Quarry
L-3043	0+00	43+60	1 ½ : 1	15"	81	43.60	3530	Lincoln Quarry
Spur A	0+00	1+20	1 ½ : 1	15"	81	1.20	95	Lincoln Quarry
Spur B	0+00	1+75	1 ½ : 1	15"	81	1.75	140	Lincoln Quarry
LANDINGS					75	5	375	Lincoln Quarry
TURNAROUNDS					50	6	300	Lincoln Quarry
TURNOUTS					50	7	350	Lincoln Quarry
INTERSECTIONS					50	5	250	Lincoln Quarry

SPR BALLAST TOTAL **6,450** Cubic Yards

ROCK LIST (Page 2 of 2)



SURFACE

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y./ Station	# of Stations	C.Y. Total	Rock Source
			K1	B1	2 ½ INCH MINUS			
L-3000	10+00	360+00	1 ½ : 1	500 yds ³ SPOT ROCK				Lincoln Quarry
L-3041	0+00	15+00	1 ½ : 1	6"	30	15.00	450	Lincoln Quarry
L-3042	0+00	35+00	1 ½ : 1	6"	30	35.00	1050	Lincoln Quarry

2 ½ INCH MINUS SURFACE TOTAL **2,000** Cubic Yards

QUARRY SPALLS

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y./ Station	# of Stations	C.Y. Total	Rock Source
			K1	B1	QUARRY SPALLS			
CULVERTS					1	8	8	Lincoln Quarry
					2	1	2	Lincoln Quarry

QUARRY SPALLS TOTAL **10** Cubic Yards

CULVERT LIST

Road Number	Location	Culvert		Length (ft)			Riprap (C.Y.)			Backfill Material	Placement Method
		Dia.	Gauge	Culvert	Downspt	Flume	Inlet	Outlet	Type		
L-3041A	6+15	DOL									
L-3042-1	4+50	18"		30'			.5	.5	QS	NT	ZDH
L-3042-1	10+30	18"		30'			.5	.5	QS	NT	ZDH
L-3043	2+75	DOR									
L-3043	9+50	18"		30'			.5	.5	QS	NT	ZDH
L-3043	12+85	DOR									
L-3043	17+80	18"		30'			.5	.5	QS	NT	ZDH
L-3043	20+00	18"		30'			.5	.5	QS	NT	ZDH
L-3043	21+00	36"		50'			1	1	QS	NT	ZDH
L-3043	25+80	18"		40'			.5	.5	QS	NT	ZDH
L-3043	34+00	18"		30'			.5	.5	QS	NT	ZDH
L-3043	42+00	18"		30'			.5	.5	QS	NT	ZDH

Key:

- QS - Quarry Spalls
- NT - Native (bank run)
- SL - Select Fill
- ZDH - Zero Drop Height
- LL - Light Loose Riprap

COMPACTION LIST

Road	From Station	To Station	Type	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
ALL ROADS	ALL STATIONS		Pre-haul Surface		Vibratory Smooth Drum	20000	4	5
ALL ROADS	ALL STATIONS		Subgrade/Rock	8"	Vibratory Smooth Drum	20000	4	5
WASTE AREAS AND EMBANKMENTS				24"	Vibratory Smooth Drum	20000	4	5

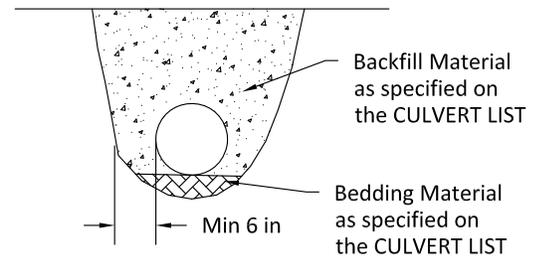
CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 1 OF 2

INSTALLATION REQUIREMENTS:

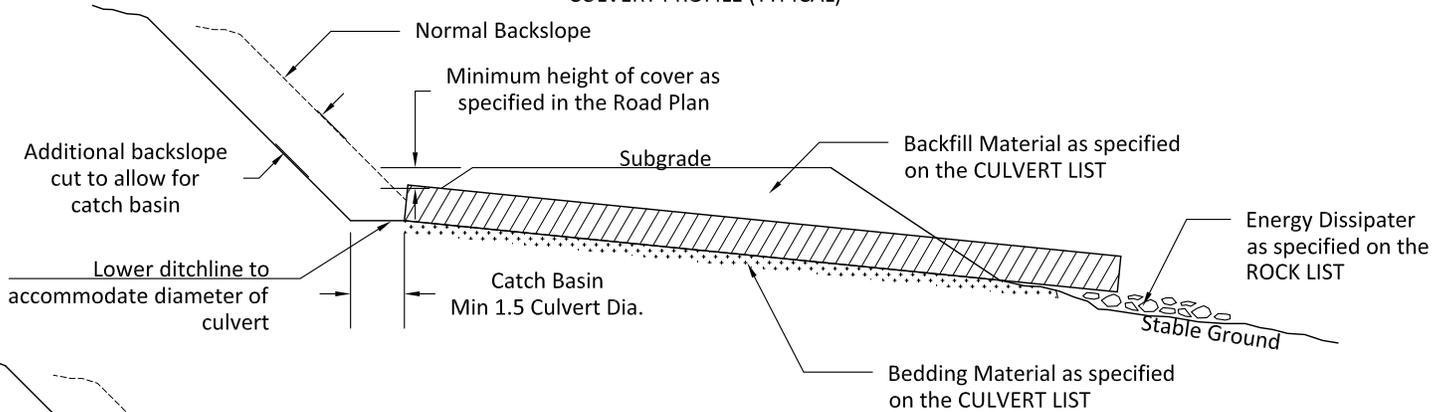
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly 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 COMPACTION LIST.

ALL DRAWINGS ARE NOT TO SCALE

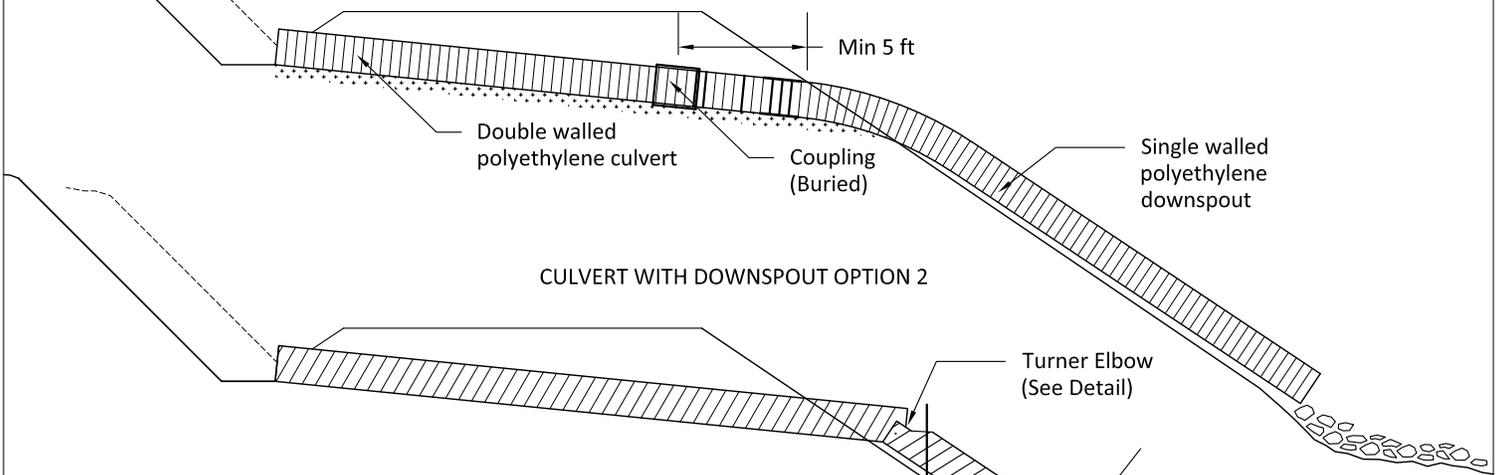
CROSS SECTION



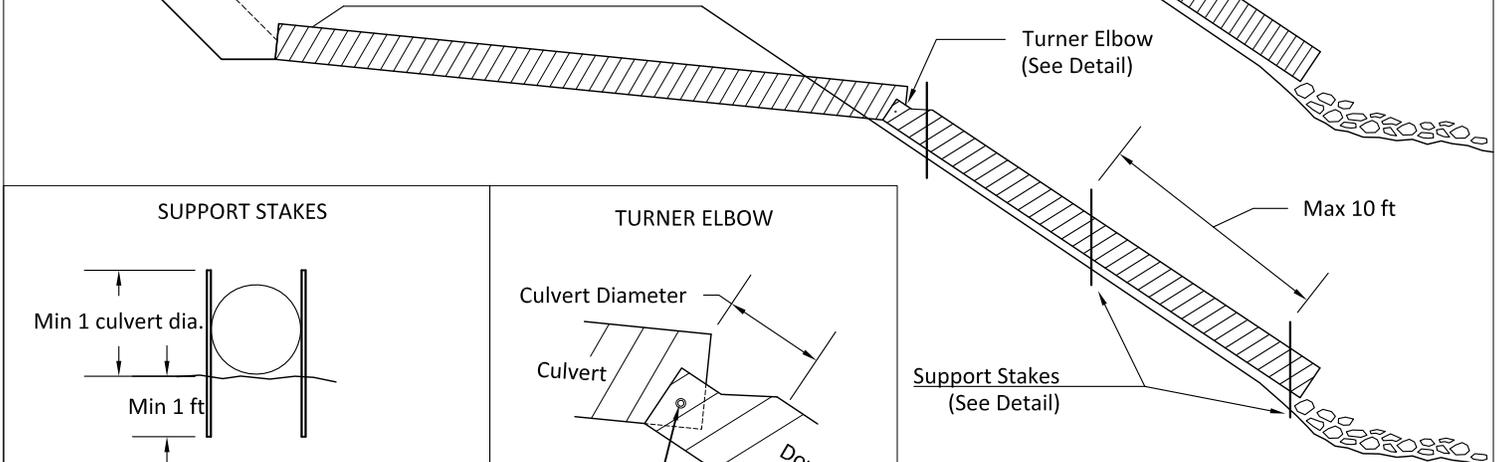
CULVERT PROFILE (TYPICAL)



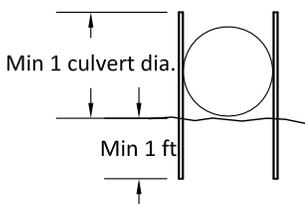
CULVERT WITH DOWNSPOUT OPTION 1



CULVERT WITH DOWNSPOUT OPTION 2

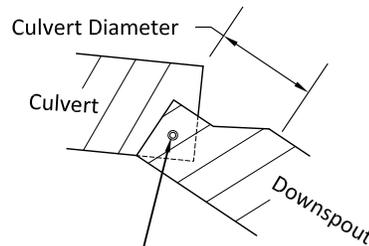


SUPPORT STAKES



Stake Material: T-post with rust protection coating.
Connections: Bolt support stakes to the culvert with $\frac{5}{8}$ " 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.

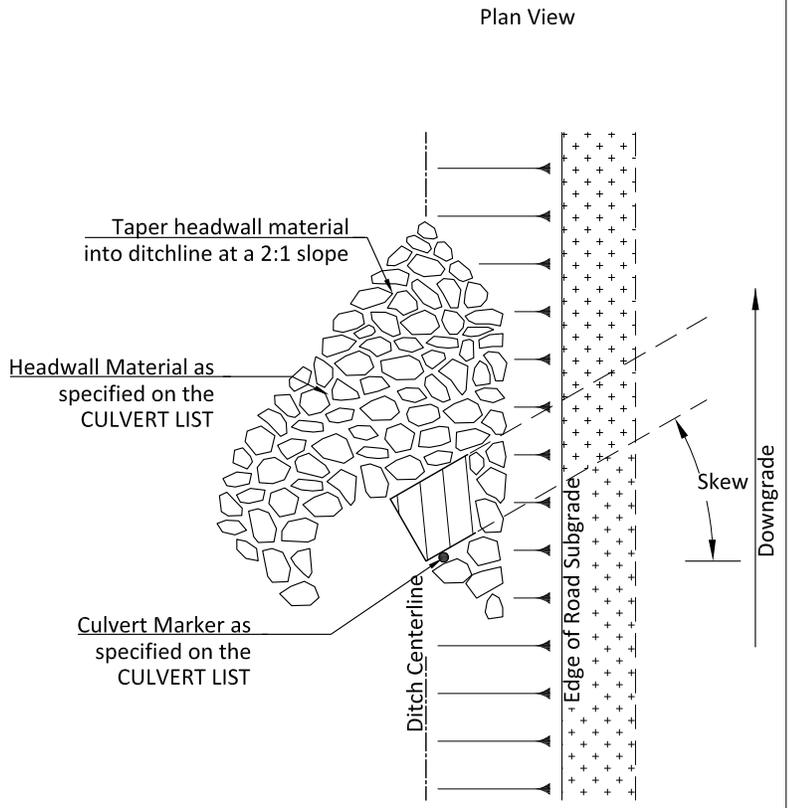
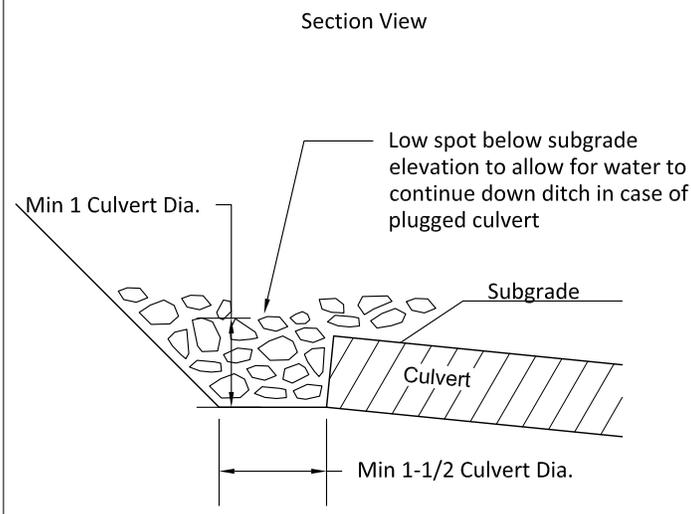
TURNER ELBOW



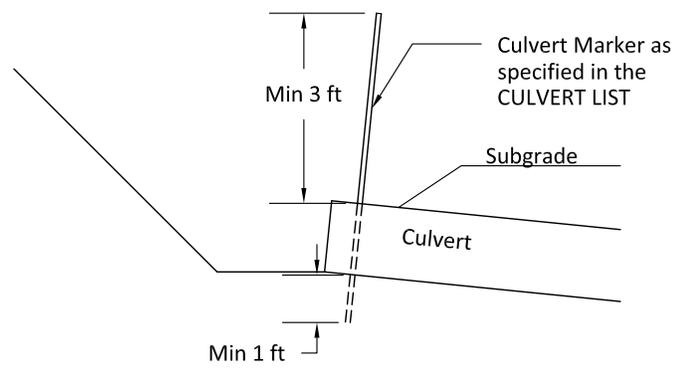
Bolted with $\frac{5}{8}$ " galvanized bolts and washers (both sides)
Downspout must be 6 inches larger in diameter than the culvert.

CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 2 OF 2

HEADWALLS

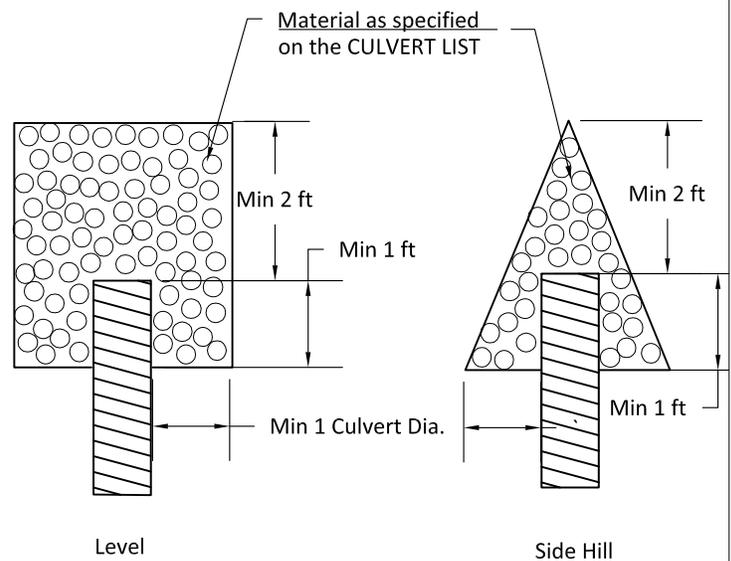


CULVERT MARKERS



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



Min Energy Dissipater Depth: 1 Culvert Dia.

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 1 of 2

Cuts and Fills

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

Surface

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

Drainage

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

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 2 of 2

Preventative Maintenance

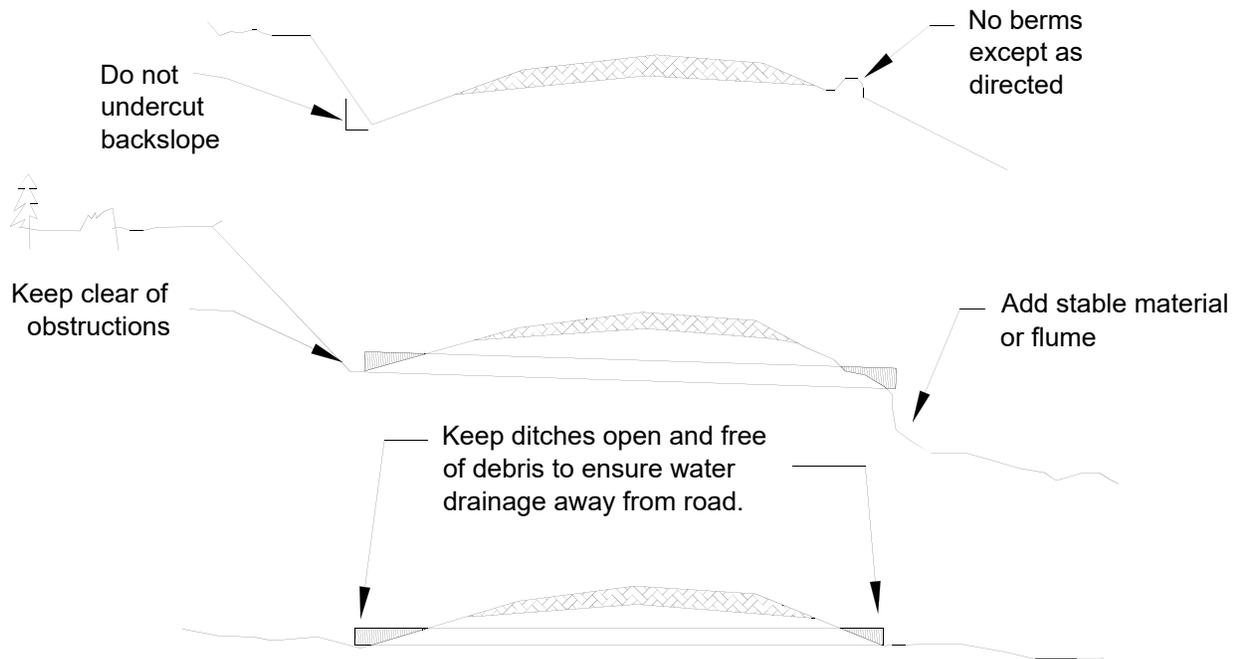
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

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.



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

LINCOLN QUARRY DEVELOPMENT PLAN

Section 15, Township 14 North, Range 05 West, W.M.
(Page 1 of 3)

1. Mining will be in the Development Area.
2. All vegetation including stumps shall be cleared a minimum of 20 feet beyond the top of all working faces. Trees shall be cleared to a minimum of $\frac{3}{4}$ of the height of the tallest tree adjacent to the pit. The Purchaser shall maintain a minimum of 15 foot wide stripped area from the pit face at all times.
3. Overburden shall be pushed or end hauled to the designated waste area and compacted. Minimal acceptable compaction is achieved by placing waste material in 2 foot or shallower lifts and routing excavation equipment over entire width of the lifts.
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 are.
5. Quarry faces shall not exceed 20 feet in height and shall be sloped no steeper than 1/2:1. Faces with heights over 20 feet shall be sloped at $\frac{1}{4}$:1.
6. Working bench width shall be a minimum of 20 feet.
7. The quarry floor shall have continuity of slope be left in a smooth and neat condition, providing drainage to the south at a minimum of 2 percent.
8. 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, oversize material shall be placed as directed by the Contract Administrator.
9. Reclamation will not be required following use.
10. 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.
 - b. "Safety Standards for Construction Work" (296-155 WAC), Washington Department of Labor and Industries.

LINCOLN QUARRY DEVELOPMENT PLAN

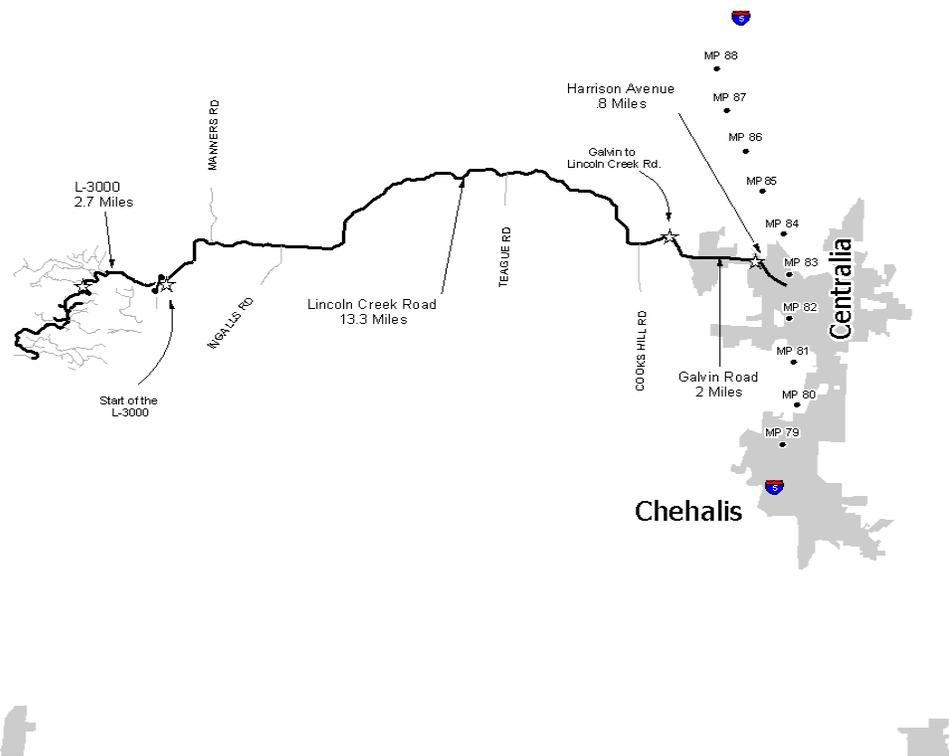
NE ¼, SW ¼, Section 15, Township14 North, Range 5 west, W.M.

(Page 2 of 3)

11. The quarry area shall be worked and left in a condition that future operations may proceed in an orderly manner.
12. At the end of operations, quarry faces and walls shall be scaled and cleared of loose and overhanging material, benches shall have safety berms constructed or access blocked to highway vehicles. Upon completion of operations in the pit, the area will be left in a condition that will not endanger public safety, damage property, or be hazardous to animal or human life.
13. 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.
14. At the completion of rock source operations, Purchaser shall ask Contract Administrator for written approval of final rock source condition and compliance with the terms of this plan.

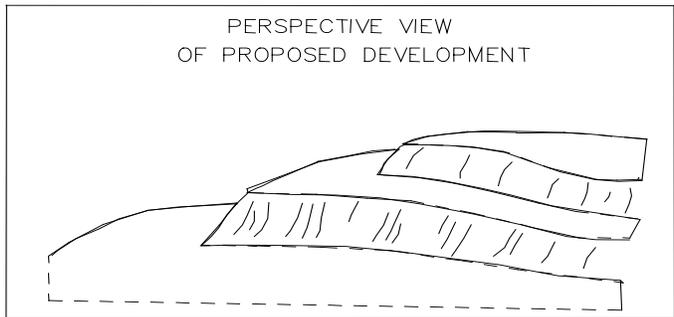
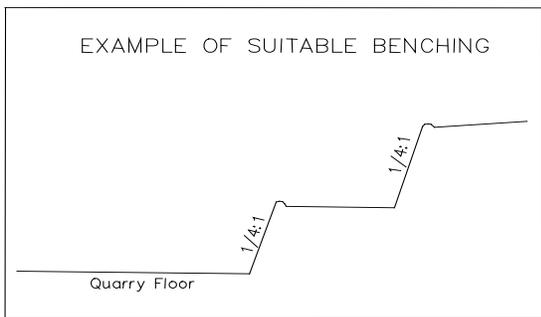
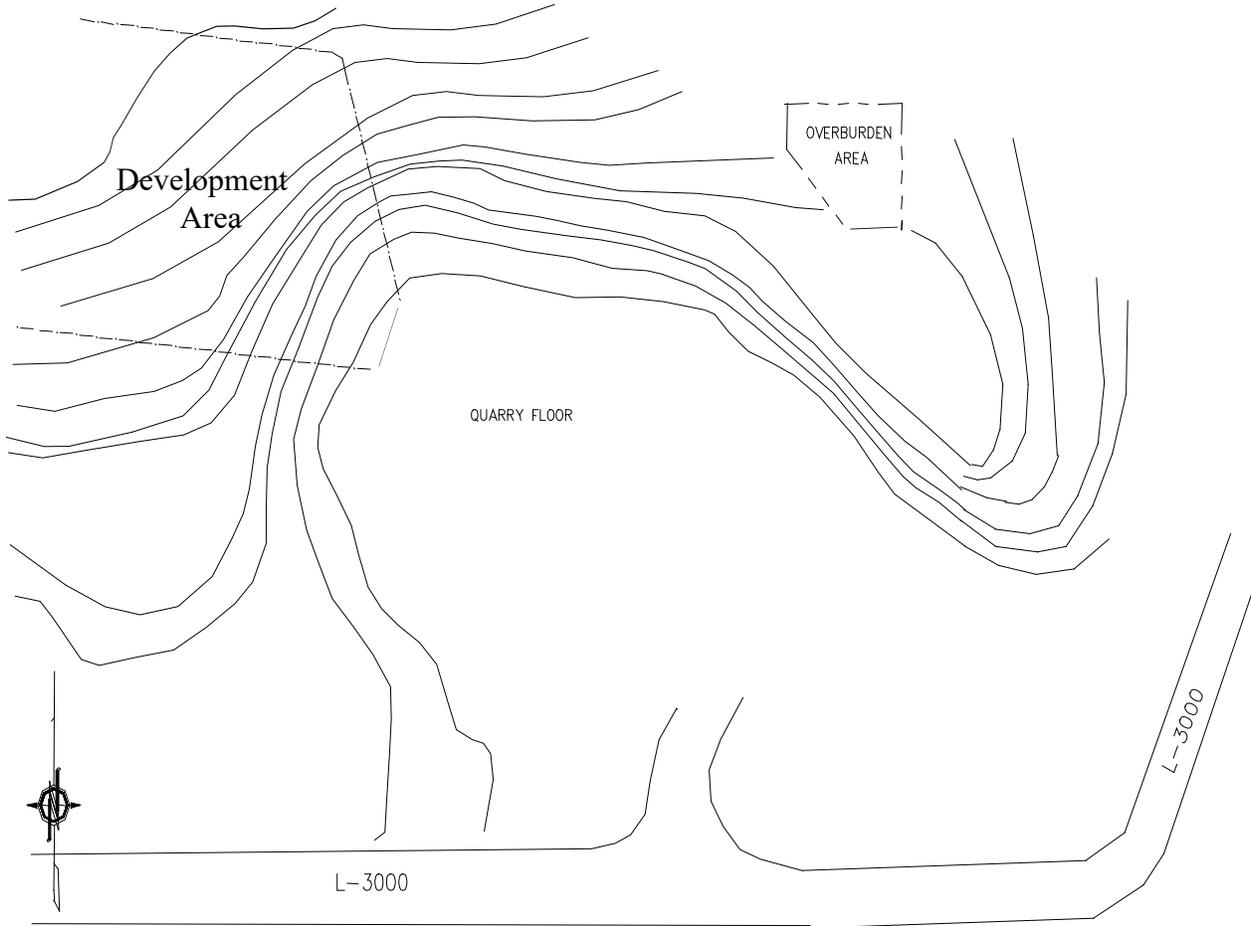
Date of update 4/15/2019 CW

VICINITY MAP
NOT TO SCALE



LINCOLN QUARRY DEVELOPMENT PLAN

Section 15, Township 14 North, Range 05 West, W.M.
(Page 2 of 2)



DEPARTMENT OF NATURAL RESOURCES

SUMMARY - Road Development Costs

REGION: PACIFIC CASCADE

DISTRICT: LEWIS

SALE/PROJECT NAME: Rail Splitter

CONTRACT NUMBER: 30-098509

LEGAL DESCRIPTION: T14R05W

ROAD NUMBER:

Required: L-3000 (Sta. 10+00-360+00), L-3041, L-3042

Optional: L-3000 (Sta. 360+00-405+00), L-3100, L-3041A, L-3042-1, L-3043, Spur A, Spur B

ROAD STANDARD:	Construction	Reconstruction	Pre-haul maintenance
NUMBER OF STATIONS:	<u>46.55</u>	<u>30.65</u>	<u>605.00</u>
SIDESLOPE:	<u>25%</u>	<u>20%</u>	<u>20%</u>
CLEARING AND GRUBBING:	<u>\$9,871</u>	<u>\$4,038</u>	
EXCAVATION AND FILL:	<u>\$12,409</u>	<u>\$7,241</u>	
MISC. MAINTENANCE:	<u>\$420</u>	<u>\$0</u>	<u>\$4,840</u>
ROCK TOTALS:			
Required:	<u>\$71,062</u>	<u>\$30,998</u>	<u>\$42,401</u>
Optional:	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total:	<u>\$71,062</u>	<u>\$30,998</u>	<u>\$42,401</u>
CULVERTS AND FLUMES:	<u>\$5,620</u>	<u>\$1,320</u>	<u>\$0</u>
	<u>\$0</u>	<u>\$0</u>	<u>\$ -</u>
GENERAL EXPENSES:	<u>\$8,944</u>	<u>\$3,924</u>	<u>\$4,252</u>
MOBILIZATION:	<u>\$2,662</u>	<u>\$2,662</u>	<u>\$2,662</u>
TOTAL COSTS:	<u><u>\$110,988</u></u>	<u><u>\$50,184</u></u>	<u><u>\$54,154</u></u>
COST PER STATION:	<u>\$2,384</u>	<u>\$1,637</u>	<u>\$90</u>

ROAD DEACTIVATION AND ABANDONMENT COSTS: \$0

NOTE: Profit and risk are included
in equipment rates used for this appraisal.

TOTAL (All Roads) =	<u>\$215,326</u>
TOTAL w/o Optional Rock (All Roads) =	<u>\$215,326</u>
SALE VOLUME MBF =	<u>4,211</u>
TOTAL COST PER MBF =	<u>\$51.13</u>
TOTAL COST PER MBF w/o Optional Rock =	<u>\$51.13</u>

Compiled by: Chris Werner

Date: 01/00/00

SALE NAME: Rail Splitter

CONTRACT NUMBER: 30-098509

Total stations Pre-Haul Maintenance = 605.00

I. MISC. MAINTENANCE ITEMS:

	Cost/ Station	Total Stations	Sub Total
mechanical brushing (\$/sta) =	25.00		\$0
hand brushing =			\$0
ditch cleaning (\$/sta) =	55.00		\$0
Sediment Traps (ea.) =	60.00		\$0
grading (\$/sta) =	6.00	605.00	\$3,630
compacting (\$/sta) =	2.00	605.00	\$1,210

Misc TOTAL = \$4,840

III. BALLAST AND SURFACING :

Ballast source: Lincoln Quarry
 Surface source:
 Riprap source :

Description	cu.yds/sta x stations =	cubic yards
Ballast (4" Jaw Run)		0
Surfacing (2 1/2"-)		0
Stockpile (2 1/2"-)		

UNIT COSTS	Ballast	Surfacing	Quarry Spalls
Drill & Shoot		\$5.00	
Dig and load		\$1.50	
Crushing		\$5.50	
Purchase			
Haul *		\$4.63	
Spread		\$1.50	
Compact		\$1.50	
Strip			
Reclamation			
Use tax		\$0.08	
TOTAL (\$/cy)	\$0.00	\$21.20	\$0.00

* Haul Formula: (R.T.Miles/MPH+Delay)/(\$/hr / Cy/load)

R.T. Miles = 5.0
 Ave. Speed = 19
 Delay (Hrs.) = 0.2
 Cost / Hour = \$100.00
 CY / Load = 10

Ballast (4" Jaw Run) Cu. yds @ \$0.00 /cu. yd = \$0
 Surfacing (2 1/2"-) 2000 Cu. yds @ \$21.20 /cu. yd = \$42,401
 Quarry Spalls Cu. yds @ \$0.00 /cu. yd = \$0

Rock total = \$42,401

IV. CULVERTS AND FLUMES:

Description	Qty.	Gauge	Diameter (in.)	No/Length (ft)	Installed Cost/ft	Sub-total
CPP						\$0
						\$0
						\$0
						\$0
						\$0
Bands & Gaskets						\$0

Culvert total = \$0

V. STRUCTURES

Description	Type	Width	Length	Cost/ft.	Sub-total
					\$0
					\$0
					\$0

Sub-TOTAL = \$47,241

VI. GENERAL EXPENSES:

Overhead & General Exp. Add 9% \$4,252

VII. MOBILIZATION:

Total Mobilization = \$7,985 Mobilization sub-total = \$2,661.67

Road No. 0
 Standard: Pre-haul maintenance
 Stations: 605.00

SHEET TOTAL = \$54,154

By: Chris Werner

Sheet 4 of 5

Date: 01/00/00

VII. MOBILIZATION:	Description	\$ per Move	# of Moves	Sub-total
	Dump Trucks	100	3	\$300
* Move in costs are averaged over all three sheets.	Grader	160	1	\$160
	Compactor	450	1	\$450
	Excavator	450	2	\$900
	Dozer (D8)	450	1	\$450
	Front end loader	450	1	\$450
	Rock crusher	\$4,000	1	\$4,000
	Drill	\$1,000	1	\$1,000
	Dozer (D5)	\$275	1	\$275
	Construction Mobilization sub-total =		\$2,661.67	
	Reconstruction Mobilization sub-total =		\$2,661.67	
	Pre-haul Mobilization sub-total =		\$2,661.67	
	Total Mobilization =		<u>\$7,985</u>	



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

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

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

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

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

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

EXCISE TAX EXEMPT ACTIVITIES

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

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

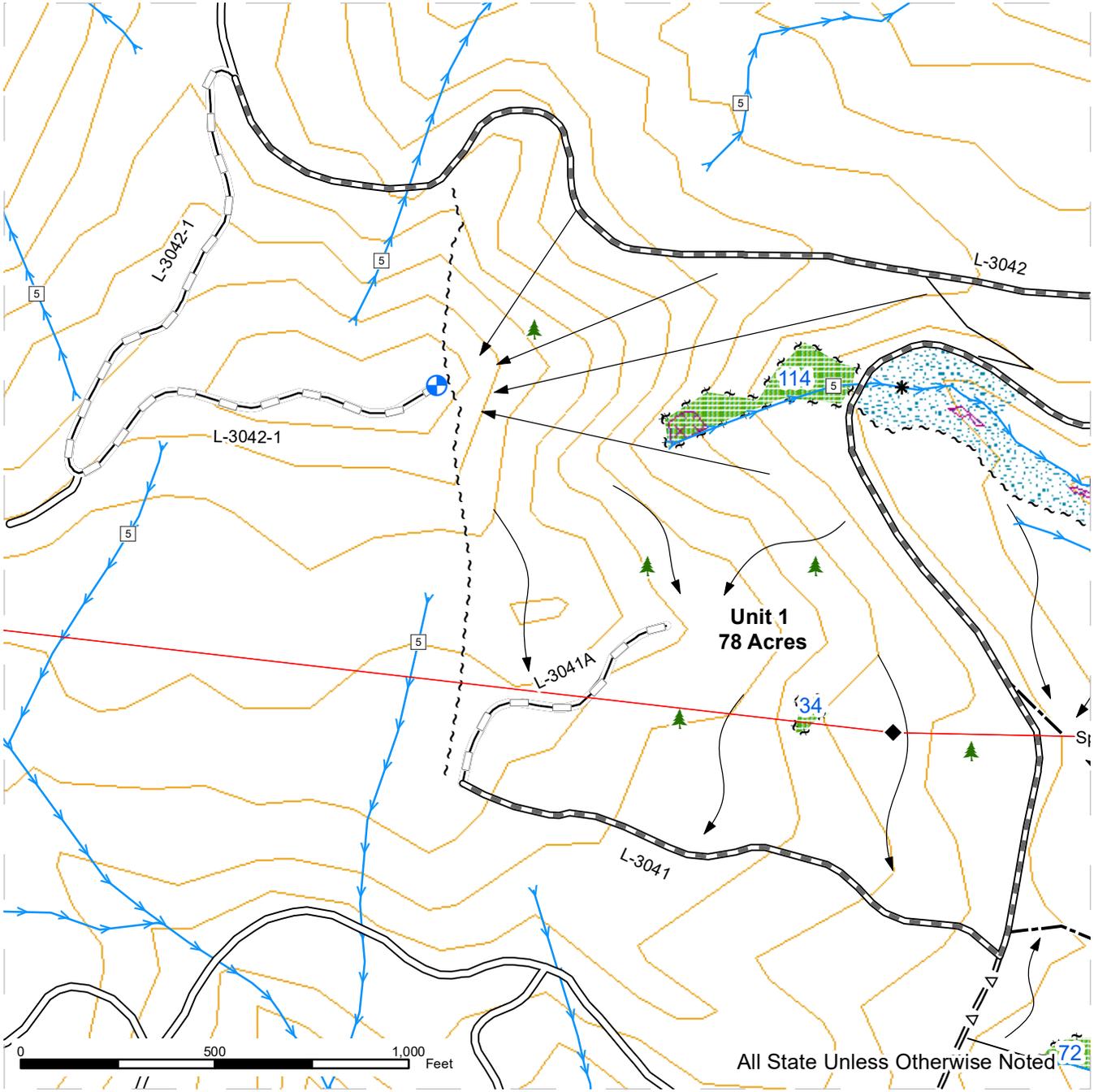
All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact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

(Revised 9/18)

LOGGING PLAN MAP

SALE NAME: Rail Splitter
AGREEMENT#: 30-098509
TOWNSHIP(S): T14R5W
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Lewis
ELEVATION RGE: 1362-2388

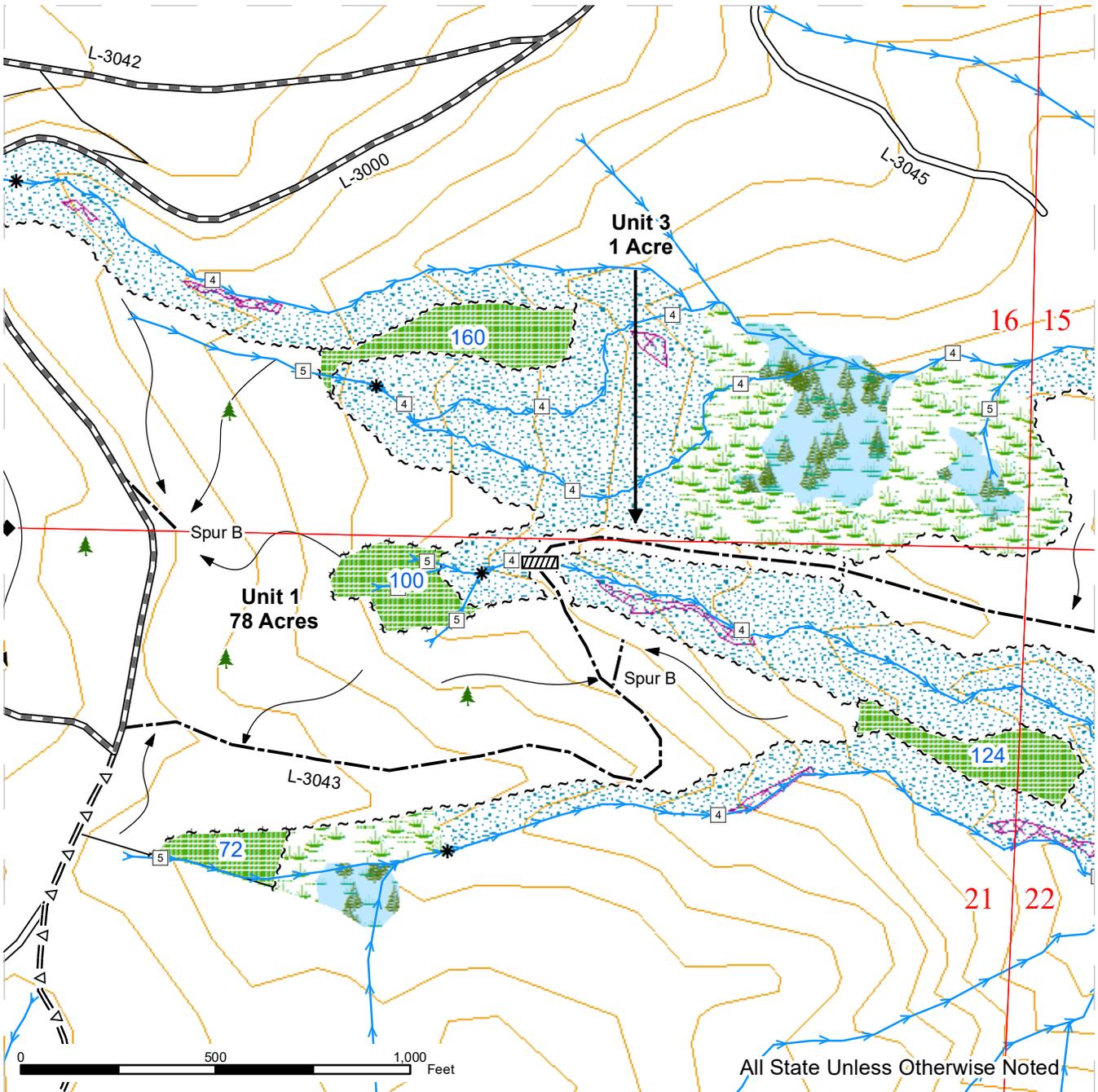


~ ~ ~ Sale Boundary Tags	Leave Tree Area	Streams	Landing - Proposed
— Timber Type Change	Riparian Mgt Zone	□ Stream Type	Leave Tree Area <1/4-acre
+ + Leave Tree Tags	Potentially Unstable Slopes	* Stream Type Break	
Ground Harvest	Existing Roads	◆ Survey Monument	
→ Cable Harvest	Required Pre-Haul Maintenance		
	Optional Pre-Haul Maintenance		
	Optional Construction		
	Optional Reconstruction		

LOGGING PLAN MAP

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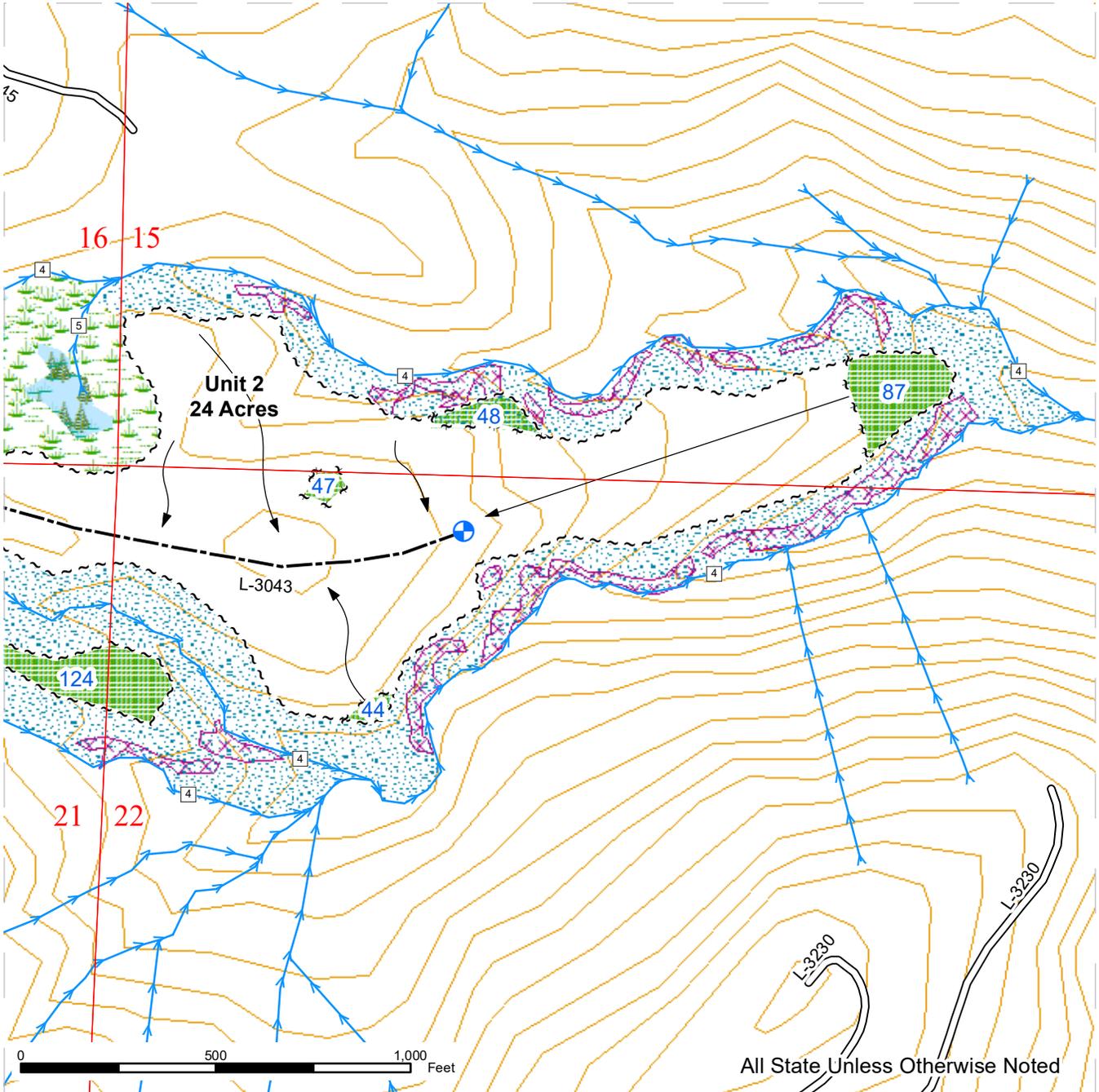


~ ~ ~ Sale Boundary Tags	Leave Tree Area	Streams	Culvert
— Timber Type Change	Riparian Mgt Zone	□ Stream Type	▲ Leave Tree Area <1/4-acre
~ ~ ~ Leave Tree Tags	Forested Wetland	* Stream Type Break	◆ Survey Monument
~ ~ ~ Right of Way Tags	Wetland Mgt Zone	Existing Roads	
Ground Harvest	Potentially Unstable Slopes	Required Pre-Haul Maintenance	
▶ Cable Harvest	Optional Construction	Optional Pre-Haul Maintenance	

LOGGING PLAN MAP

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All State Unless Otherwise Noted

~ ~ ~ Sale Boundary Tags	Leave Tree Area	Streams	Landing - Proposed
~ ~ Leave Tree Tags	Riparian Mgt Zone	Stream Type	
Ground Harvest	Forested Wetland	Stream Type Break	
Cable Harvest	Wetland Mgt Zone		
	Potentially Unstable Slopes		
	Existing Roads		
	Optional Construction		