Washington DNR Timber Sales Program

Updated information is being provided for (Barred Entry 30-104801) timber sale documents as follows:

Documents amended:

Brief Description	DATE	Initials
Expiration Date should be 10/31/2027	10/08/2024	kp



COUNTY: Jefferson

TIMBER NOTICE OF SALE

SALE NAME: BARRED ENTRY **AGREEMENT NO**: 30-104801

AUCTION: October 30, 2024 starting at 10:00 a.m.,

Olympic Region Office, Forks, WA

SALE LOCATION: Sale located approximately 26 miles southeast of Forks, WA

PRODUCTS SOLD

AND SALE AREA: All timber, except trees marked with a band of blue paint, bounded out by leave tree area

> tags or any downed red cedar: bounded by timber sale boundary tags, the H-1061 road, timber type change in Unit 1; timber sale boundary tags, the H-1000 & H-1800 roads in Unit 2; timber sale boundary tags, the H-1800 & H-1820 roads in Unit 3; timber sale boundary tags, the H-1000 road in Units 4 & 5; timber sale boundary tags, the H-1000 &

H-1066 roads in Unit 6; timber boundary tags, the H-1009 road in Unit 7.

All forest products above located on part(s) of Sections 1, 2, 11 and 12 all in Township 26 North, Range 11 West, Sections 36 all in Township 27 North, Range 11 West, Sections 29 and 32 all in Township 27 North, Range 10 West, W.M., containing 245

acres, more or less.

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert

no: BVC-SFIFM-018227)

ESTIMATED SALE VOLUMES AND QUALITY:

Avg Ring			Total	MBF by Grade									
Species DBH Count		MBF		1P	2P	3P	SM	1S	2S	3S	4S	UT	
Hemlock	17.2	6	3,371							1,622	1,346	396	7
Douglas fir	16.3	6	2,572							811	1,354	374	33
Spruce	18.9	5	221							85	120	17	
Red alder	11.3		138									136	2
Sale Total			6.302										

BID METHOD: Sealed Bids MINIMUM BID: \$743,000.00

PERFORMANCE

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

ALLOCATION: EXPIRATION DATE: October 31, 2027 **Export Restricted**

BID DEPOSIT: \$74,300.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised

price.

HARVEST METHOD: Ground based 50%/Uphill Cable 30%/Downhill Cable 20%

Forest products sold under this contract shall be harvested and removed using cable, cable-tethered, and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75 percent and less. Ground based equipment is limited to tracked equipment on sustained slopes that are 45 percent and less. Rubber tired skidders are restricted unless approved by the Contract Administrator. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

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TIMBER NOTICE OF SALE

30' Equipment Limitations Zones on all typed water, shovel logging must meet rutting and skidding requirements and harvest plans.

ROADS: 5.04 stations of required reconstruction. 3.00 stations of optional construction. 680.63

stations of required prehaul maintenance. 0.80 stations of optional prehaul maintenance. Pipe work on the H-1000, H-1617, and H-1520 must be completed between July 1st and Sept 30th. Temporary crossing on H-1520 must be installed and removed in one season. On the H-1000 at stations 174+70-185+30 any road work, right-of-way timber falling and yarding, rock pit operations, or operation of heavy equipment must be performed during the limited operating period if implemented during the nesting season. The limited operating period runs from two hours after sunrise to two hours before sunset between April 1 through September 23. This restriction does not apply to the hauling of timber,

rock, or equipment.

ACREAGE DETERMINATION

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

FEES: \$107,151.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in

addition to the bid price.

SPECIAL REMARKS: Logging operations that block travel on the H-1000 (Units 5 and 6) must be completed

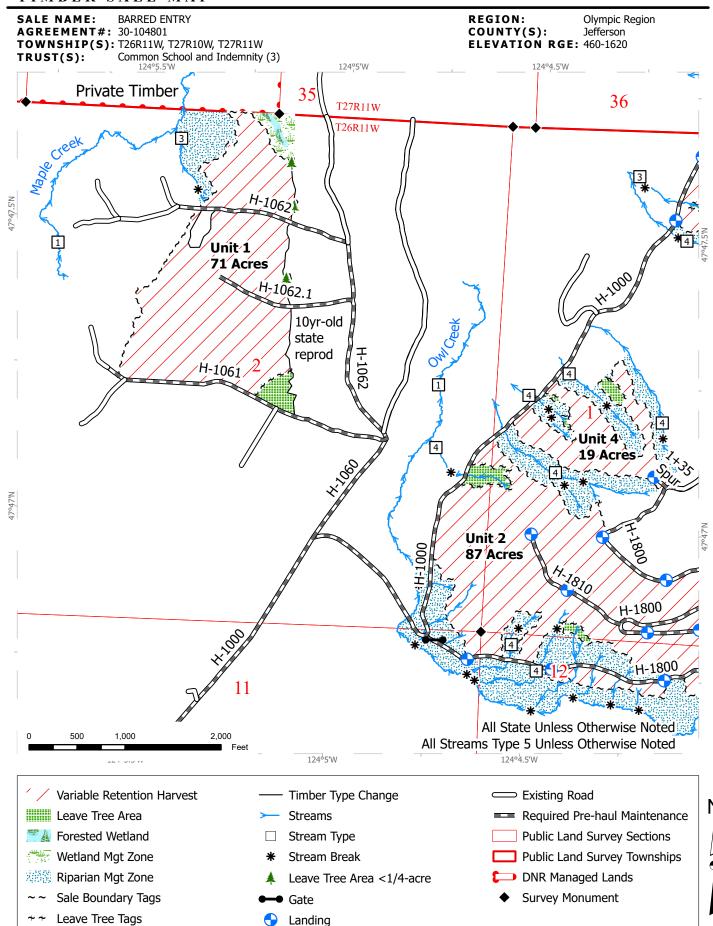
between January 1st and March 31st. Traffic shall not be stopped for more than one hour at a time. If a longer closure is required, closure time must be posted 14 days in advance. Use of flaggers shall be required when operations cause road closure, or when yarding across H-1000. The H-1000 shall remain open to traffic after work hours, on weekends,

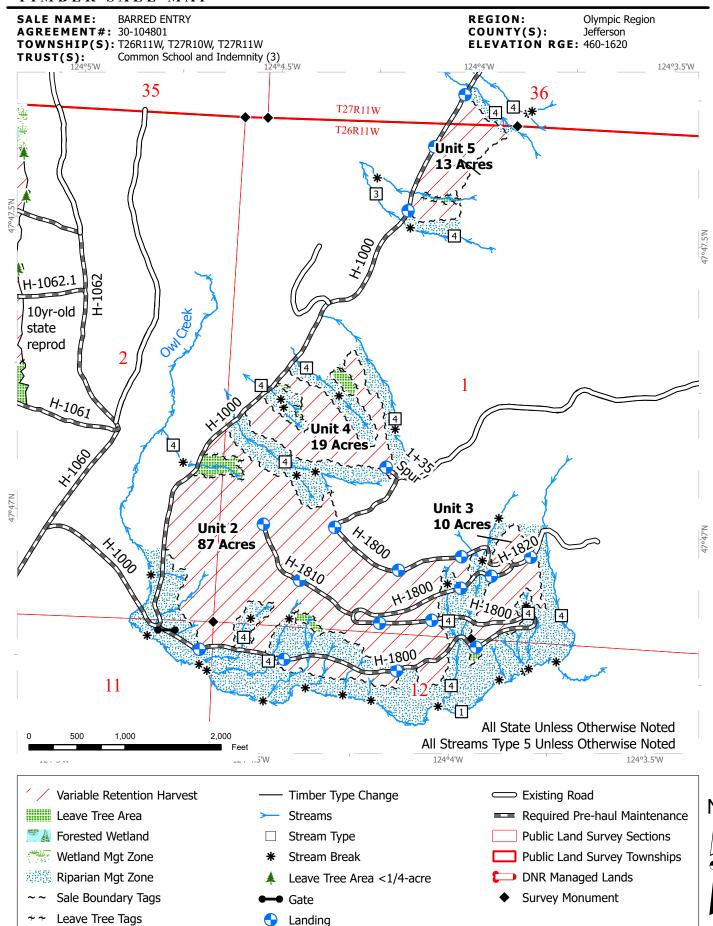
and on holidays. unless authorized in writing by the Contract Administrator.

There are locked gates on the H-1800 and North Winfield Pit. Contact Olympic Region

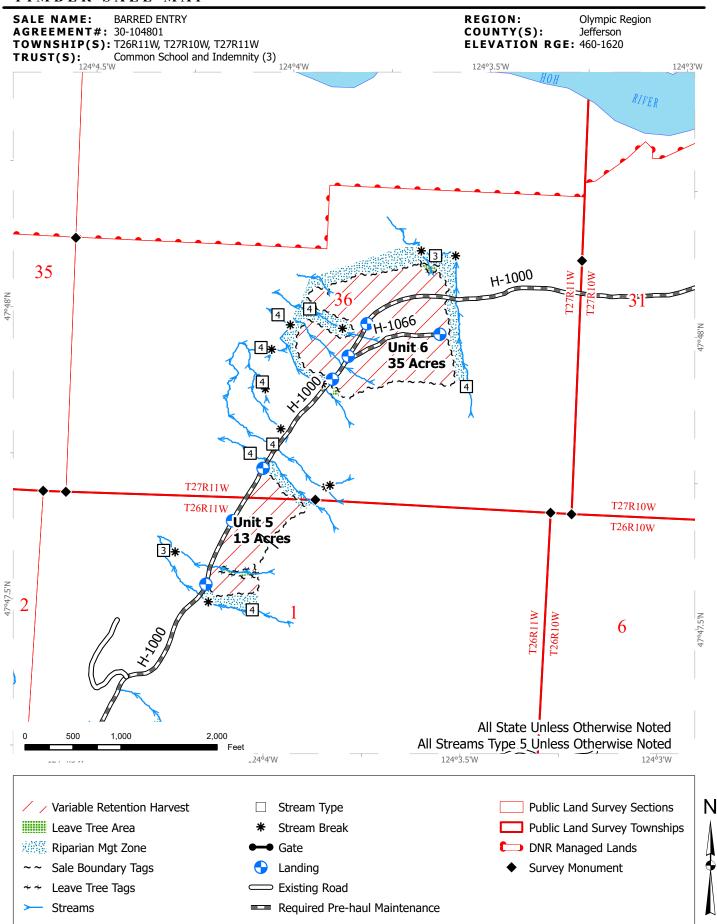
Dispatch Center at 360-374-2800 to obtain a AA1 key.

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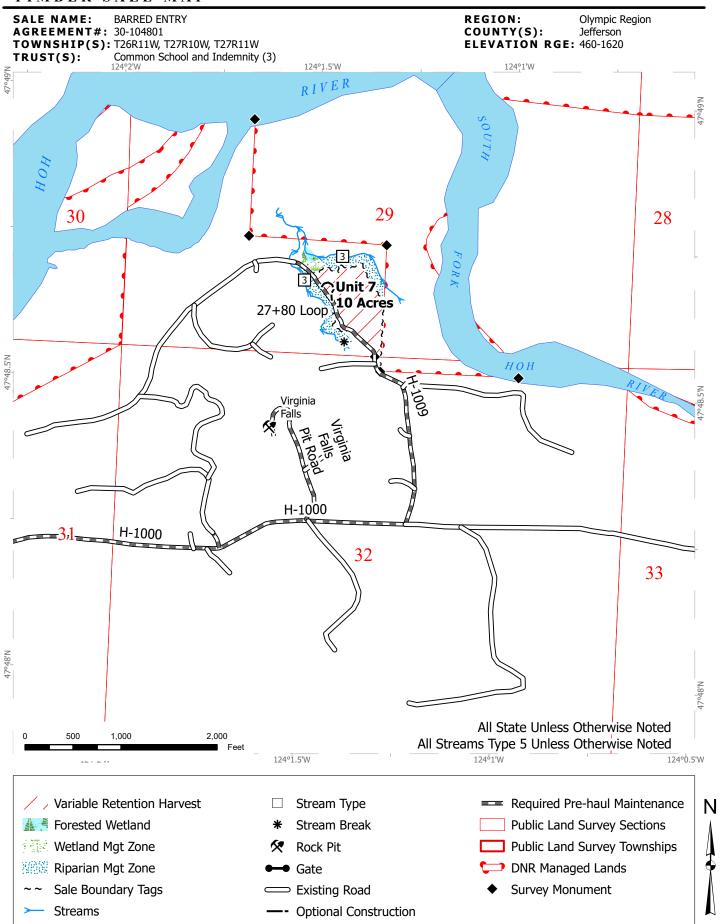




TIMBER SALE MAP



TIMBER SALE MAP



DRIVING MAP

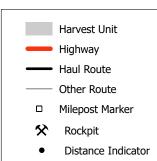
TRUST(S):

SALE NAME: BARRED ENTRY REGION: Olympic Region

AGREEMENT#: 30-104801 COUNTY(S): Jefferson TOWNSHIP(S): T26R11W, T27R10W, T27R11W ELEVATION RGE: 460-1620

 \widetilde{U} Virginia Falls 0.5mi 2.7mi *0901-*Н 178 0.4mi <u> 1</u>77 North Virginia 1.1mi Winfield 176 Hoh-Clearwater Mainline 6.5mi H-106 Red Creek 2.1mi H-1040 0.2mi H-1800 0.3mi 0.7mi 3.1mi Dry U

Map may not be to scale



Gate

DRIVING DIRECTIONS:

Common School and Indemnity (3)

Unit 1: Drive south on HWY 101 from Forks, WA for 15 miles. Turn left onto Hoh-Clearwater Mainline. Continue for 6.5 miles and turn left onto H-1000. Drive 3.1 miles, then keep left onto H-1060. Continue for 0.2 miles and take the first left onto H-1061. Drive 0.3 miles.

Unit 2: From H-1060 JCT, continue east on H-1000 for 0.3 miles. Keep right onto H-1800 and arrive.

Unit 3: From Unit 2, continue on H-1800 for 0.7 miles.

Unit 4: From Unit 3, continue on H-1800 for 2.1 miles.

Unit 5: From H-1800 JCT, continue on H-1000 for 1.1 miles.

Unit 6: From Unit 5, continue on H-1000 for 0.4 miles.

Unit 7: From Unit 6, continue on H-1000 for 2.7 miles and turn left onto H-1009. Continue for 0.5 miles.

North Winfield Pit: Turn left at MP1.5 Hoh-Clearwater Mainline

Red Creed Quarry: Turn left at MP4.5 Hoh-Clearwater Mainline. Drive 1 mile, and continue straight onto H-1043. Drive 0.6 miles and turn left onto H-1044. Drive 0.5 miles.

Dry Creek Pit: Drive 0.5 miles on H-1500 from JCT H-1000.

Virginia Falls Pit: From Unit 6, continue on H-1000 for 1.8 miles. Turn left on Virginia Falls Pit road. Drive 0.5 miles.



STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-0104801

SALE NAME: BARRED ENTRY

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.

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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 October 30, 2024 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 trees marked with a band of blue paint, bounded out by leave tree area tags or any downed red cedar: bounded by timber sale boundary tags, the H-1061 road, timber type change in Unit 1; timber sale boundary tags, the H-1800 & H-1800 roads in Unit 2; timber sale boundary tags, the H-1800 roads in Unit 3; timber sale boundary tags, the H-1000 road in Units 4 & 5; timber sale boundary tags, the H-1009 road in Unit 7.

All forest products described above located on approximately 245 acres on part(s) of Sections 1, 2, 11, and 12 all in Township 26 North, Range 11 West, Section 36 in Township 27 North, Range 11 West, Sections 29, and 32 all in Township 27 North, Range 10 West W.M. in Jefferson County(s) as designated on the sale area and as shown on the attached timber sale map.

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

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that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule Title

A SLASH PILING SPECS

B GREEN TREE RETENTION PLAN

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2027.

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.

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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 \$862.00 per acre per annum for the acres on which an operating release has not been issued.
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.
- G-053 Surveys Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.

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- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-061 Inadvertent Discovery of Cultural Resources

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

G-062 Habitat Conservation Plan

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

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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

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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

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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

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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 2022 Forest Management Standard under certificate number: BVC-SFIFM-018227.

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 Standard. Purchaser shall designate in writing the name(s) of the individual(s) who will be on-site and provide proof of their successful completion of an approved training program prior to active operations.

G-120 Responsibility for Work

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

G-121 Exceptions

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

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

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

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

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

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- 2. Caused by a single event from forces beyond the control of Purchaser, its employees, agents, or invitees, including independent contractors; and
- 3. Includes, but is not limited to natural disasters such as earthquakes, volcanic eruptions, landslides, and floods.

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

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

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

G-140 Indemnity

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

G-150 Insurance

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

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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.

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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

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Auto". Business auto coverage shall be written on ISO form CA 00 01, or substitute liability form providing equivalent coverage. If necessary the policy shall be endorsed to provide contractual liability coverage and cover a "covered pollution cost or expense" as provided in the 1990 or later editions of CA 00 01. Purchaser waives all rights against State for the recovery of damages to the extent they are covered by business auto liability or commercial umbrella liability insurance.

G-160 Agents

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

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

G-170 Assignment and Delegation

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

G-180 Modifications

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

G-190 Contract Complete

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

G-200 Notice

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

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

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

G-210 Violation of Contract

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

G-220 State Suspends Operations

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

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

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

If it reasonably appears that the damage that the State is suffering, or can reasonably be expected to suffer if the operation is allowed to continue, will prevent harvest for a period that will exceed 6 months, and Purchaser has complied with this contract, the

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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

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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; Hoh-Clearwater Mainline, H-1040, H-1043, H-1044, H-1000, H-1009, H-1060, H-1061, H-1062, H-1062.1, H-1066, H-1500, Old H-1500, H-1520, H-1521, H-1600, H-1617, H-1700, H-1800, H-1810, H-1820, 1+35 Spur, 0+80 Spur, 27+80 Loop, Virginia Falls Pit Road, Dry Creek Pit Road, Winfield Pit Road. 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, reestablish 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

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shall require performance or payment, as directed by the State, for their proportionate share of maintenance based on their use.

G-380 Road Easement and Road Use Permit Requirements

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

55-000467 Bert Cole Easement & Amendment

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:

DATA MISSING

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 \$163,869.00. The total contract price consists of a \$0.00 contract bid price plus \$163,869.00 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

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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 \$0.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

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

H-010 Cutting and Yarding Schedule

DATA MISSING will not be permitted from DATA MISSING to DATA MISSING Logging operations that block travel on the H-1000 (Units 5 and 6) must be completed between January 1st and March 31st. Traffic shall not be stopped for more than one hour at a time. If a longer closure is required, closure time must be posted 14 days in advance. Use of flaggers shall be required when operations cause road closure, or when

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yarding across H-1000. The H-1000 shall remain open to traffic after work hours, on weekends, and on holidays. unless authorized in writing by the Contract Administrator.

H-013 Reserve Tree Damage Definition

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

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

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

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

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

H-016 Skid Trail Requirements

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

Purchaser shall comply with the following during the yarding operation:

- a. A skid trail will not exceed 12 feet in width, including rub trees.
- b. Skid trails shall not cover more than 15 percent of the total acreage on one unit.
- c. Location of the skid trails must be marked by Purchaser and approved by the Contract Administrator.
- d. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.

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- e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.
- f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.
- g. Purchaser will not have more than two skid trails open to active skidding at any one time. All other skid trails used for skidding timber will be closed.
- h. Once a skid trail is closed, Purchaser will not reopen a skid trail unless approved in writing by the Contract Administrator.
- i. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.

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

H-017 Preventing Excessive Soil Disturbance

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

H-035 Fall Trees Into Sale Area

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

H-040 Purchaser Harvest Plan

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

H-051 Branding and Painting

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

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

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H-080 Snags Not to be Felled

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using cable, cable-tethered and ground based equipment. Cable-tethered equipment is limited to sustained slopes of 75% and less. Ground based equipment is limited to tracked equipment on sustained slopes that are 45% and less. Rubber tired skidders are restricted unless approved by the Contract Administrator. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

- 1. Purchaser must have utility lines located before:
 - a) Beginning road construction/reconstruction
 - b) Digging next to the following roads H-1000, H-1520
- 2. Purchaser shall immediately repair all gate damage resulting from operations to an equal or better condition than existed at the time of the sale.
- 3. While felling timber, 2 warning signs must be posted on the H-1000 road.
- 4. Yarding equipment shall not cross live streams without an FPHP.
- 5. Purchaser shall fully suspend one end of logs above the ground and over streams during logging operations.
- 6. The Purchaser shall notify all employees and contractors working on this sale that any danger tree, marked or unmarked, may be felled. Any felled marked danger tree shall be replaced with a suitable tree of similar size and species as approved by the Contract Administrator.

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

H-142 Wildlife Timing Restrictions

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

On the H-1000 at stations 174+70-185+30 any road work, right-of-way timber falling and yarding, rock pit operations, or operation of heavy equipment must be performed during the limited operating period if implemented during the nesting season. The limited operating period runs from two hours after sunrise to two hours before sunset

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between April 1 through September 23. This restriction does not apply to the hauling of timber, rock, or equipment.

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

H-190 Completion of Settings

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

H-220 Protection of Residual or Adjacent Trees

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

H-230 Tops and Limbs Outside the Sale Boundary

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

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 1/29/2024 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on All roads listed in the Road Plan, authorized in clause G-310, and not listed in clause C-060. All work shall be completed to the specifications detailed in the Road Plan. 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 H-1000, H-1500, H-1040, H-1043, H-1044, Winfield Pit Road, Dry Creek pit road, Winfield pit road and all other roads not listed in clause C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-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.

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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-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

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

S-131 Refuse Disposal

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

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

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

D-041 Reserve Tree Excessive Damage

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

SIGNATURES

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

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

	STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES			
Purchaser	William Wells Olympic Region Manager			
Print Name	Orympic Region Manager			
Date: Address:	Date:			

9/5/2024 25 of 28 Agreement No. 30-0104801

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

STATE OF				
COUNTY OF _)		
	day of			before me personally
			to me	known to be the of the corporation that
`	She was) (they were) au EREOF, I have hereunto			
year mst above wit	tten.			
		Notary I	Public in and	for the State of
		My appo	ointment exp	ires

9/5/2024 26 of 28 Agreement No. 30-0104801

Schedule A SLASH PILING SPECS

The areas shall be piled by creating circular piles of slash and brush conforming to the following specifications:

- 1. Piles shall be a minimum of 12 feet tall by 8 feet wide to a maximum of 30 feet tall and 16 feet wide. Piles shall be cone shaped and stable.
- 2. Piles shall be free of topsoil, large rotten logs and large stumps. No material larger than 8 inches in diameter shall be piled. Any burnable material shall be well scattered.
- 3. Piles shall not be placed on large stumps or logs.
- 4. Piles shall be stacked a minimum of 50 feet from all unit boundaries, Riparian Management Zones, leave tree areas and any standing timber; a minimum of 100 feet from any public roads and highways; and a minimum of 200 feet from any structures.
- 5. Piling shall be completed using an approved hydraulic shovel and grapples.
- 6. Slash and displaced soil shall be removed from swales and natural drainage channels concurrent with yarding.
- 7. Slash shall be placed in skid roads or ahead of machinery. Slash which accumulates on landings and/or roads shall be lopped and scattered within the harvest area or as designated by the Contract Administrator.
- 8. Slash generated during cable yarding shall be stacked in dirt free piles and shall not block roads or interfere with functioning of drainage structures, ditches, or stream channels.

9/5/2024 27 of 28 Agreement No. 30-0104801

Schedule B GREEN TREE RETENTION PLAN

Leave the following as directed by the Contract Administrator:

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

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

# of Individually Marked Trees	# of Clumps	# of Trees Clumped	Total # of Leave Trees
340	4	235	575
411	2	288	699
45	2	50	95
1	3	164	165
26	1	81	107
229	2	56	285
	Marked Trees 340 411 45 1 26	Marked Trees # of Clumps 340 4 411 2 45 2 1 3 26 1	Marked Trees # of Clumps Clumped 340 4 235 411 2 288 45 2 50 1 3 164 26 1 81

9/5/2024 28 of 28 Agreement No. 30-0104801



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Timber Sale Name:	
Application Number:	
EXCISE TAX APPLICABLE ACTIVITIES	
Construction: Road to be constructed (optional and required) but not aband	linear feet doned
Reconstruction: Road to be reconstructed (optional and required) but not aba	linear feet indoned
Abandonment: Abandonment of existing roads not reconstructed under the	linear feet contract
Decommission: Road to be made undriveable but not officially abandoned.	linear feet
Pre-Haul Maintenance: Existing road to receive maintenance work (optional and req	linear feet wired) prior to haul
EXCISE TAX EXEMPT ACTIVITIES	
Temporary Construction: Roads to be constructed (optional and required) and then all	linear feet bandoned
Temporary Reconstruction: Roads to be reconstructed (optional and required) and then	linear feet abandoned

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contact. 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)

Region:

PRE-CRUISE NARRATIVE

Sale Name: Barred Entry	Region: Olympic
Agreement #: 30-104801	District: Coast
Contact Forester: Dave Riley Phone / Location: 360-640-5370 – Forks, WA	County(s): Jefferson,
Alternate Contact: Mike Potter Phone / Location: 360-640-0722 - Forks, WA	Other information: Click here to enter text.

Type of Sale: Lump Sum	
Harvest System: Ground based Click here to enter text.	50%
Harvest System: Uphill Cable Click here to enter text.	30%
Enter % of sale acres	
Harvest System: Downhill Cable Click here to enter text.	20%

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #	Legal		Deductions fr लु (No harv					Acres	Acreage
Harve st R/W or RMZ WMZ	Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Previously Harvested VDT Gaps	Net Harvest Ac	Determinatio n (List method and error of closure if applicable)
1	T26R11W S02	03	90	11	3	4	1	71	GPS (Garmin)
2	T26R11W S01, 02, 11, 12	03	151	51	3	10	0	87	GPS (Garmin)
3	T26R11W S01, 12	03	35	22	1	2	0	10	GPS (Garmin)
4	T26R11W S01	03	36	16	1	0	0	19	GPS (Garmin)
5	T26R11W S01 T27R11W S36	03	18	3	1	1	0	13	GPS (Garmin)
6	T27R11W S36	03	53	14	1	3	0	35	GPS (Garmin)
7	T27R10W S29, 32	03	15	4	0	1	0	10	GPS (Garmin)
TOTAL ACRE S			398	121	10	21	1	245	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription:	Special	Other conditions (# leave trees,
	(Leave, take, paint color, tags, flagging	Management	etc.)
	etc.)	areas:	
1	Harvest Boundaries: Timber sale	NA	
	boundary tags, pink flagging, red		Scattered Leave Trees: 340
	flashers, blue paint, road.		Clumped Leave Trees: 235
2	Harvest Boundaries: Timber sale	NA	
	boundary tags, pink flagging, red		Scattered Leave Trees: 411
	flashers, blue paint, road.		Clumped Leave Trees: 288
3	Harvest Boundaries: Timber sale	NA	
	boundary tags, pink flagging, red		Scattered Leave Trees: 45
	flashers, blue paint, road.		Clumped Leave Trees: 50
4	Harvest Boundaries: Timber sale	NA	
	boundary tags, pink flagging, red		Scattered Leave Trees: 1
	flashers, blue paint, road.		Clumped Leave Trees: 164
5	Harvest Boundaries: Timber sale	NA	
	boundary tags, pink flagging, red		Scattered Leave Trees: 26
	flashers, blue paint, road.		Clumped Leave Trees: 81
6	Harvest Boundaries: Timber sale	NA	
	boundary tags, pink flagging, red		Scattered Leave Trees: 224
	flashers, blue paint, road.		Clumped Leave Trees: 91
7	Harvest Boundaries: Timber sale	NA	
	boundary tags, pink flagging, red		Scattered Leave Trees: 80
	flashers, blue paint, road.		Clumped Leave Trees: 0

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Volume Estimate	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF/WH	1800 MBF	None	Map included
2	DF/WH	2600 MBF	H-1800 locked seasonally with AA1 lock	Map included
3	DF/WH	250 MBF	H-1800 locked seasonally with AA1 lock	Map included
4	DF/WH	500 MBF	H-1800 locked seasonally with AA1 lock	Map included
5	DF/WH	400 MBF	None	Map included
6	DF/WH	1000 MBF	None	Map included
7	DF/WH	300 MBF	None	Map included
TOTAL MBF	Click here to enter total mbf.	6,850 MBF		

REMARKS:

Units 1 was thinned as a part of the H-1000 Again timber sale in FY2013 and contains gaps that were clear-cut and replanted as part of the thinning. These gaps are not included in the harvest acreage.

Prepared By: Dave Riley	Title: State Lands Forester	CC: Mike Potter
Date: 12/8/2023		

Timber Sale Cruise Report Barred Entry

Sale Name: BARRED ENTRY

Sale Type: LUMP SUM

Region: OLYMPIC
District: COAST

Lead Cruiser: Kevin Peterson

Other Cruisers: Cruise Narrative:

Location:

This sale is located south of Forks off of the H-1000. Access is good to all the units.

Cruise Design:

I used a 40 BAF for Unit 1 and 6. A 54.44/40 BAF combo for all other units, 40 BAF was used for picking up RA. Merch height was determined at 40% of the diameter at 16'. All butt logs were cruised in 40' lengths.

Timber Quality:

This sale is a mixture of 40-50 year old WH and DF with some RA and SS mixed throughout. Units 1 and 6 were thinned previously so the timber in those units is a little bigger. Common defects found were sweep, spike knots and forked tops.

Logging and Stand Conditions:

This sale uses 50% ground based, 30% uphill cable and 20% downhill harvest systems. The flat units are pretty easy to walk thru. Unit 2 gets really steep at points and has some brush patches as well.

Timber Sale Notice Volume (MBF)

				MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility	
WH	17.2	5.5		3,371	1,622	1,346	396	7	
DF	16.3	5.9		2,572	811	1,354	374	33	
SS	18.9	5.0		221	85	120	17		
RA	11.3			138			136	2	
ALL	16.2	5.7		6,303	2,518	2,819	923	43	

Timber Sale Notice Weight (tons)

	Tons by Grade								
Sp	All	2 Saw	3 Saw	4 Saw	Utility				
WH	35,530	16,350	14,526	4,558	96				
DF	24,513	7,382	13,308	3,615	207				
SS	1,894	648	1,080	166					
RA	1,505			1,491	14				
ALL	63,442	24,380	28,914	9,830	317				

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)	BA BA SE (sq ft/acre) (%) (I		V-BAR V-BAR SE (bf/sq ft) (%)		
241.7	2.5	106.9	1.1	25,623	2.6

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
BARRED ENTRY U1	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	71.0	70.7	36	12	0
BARRED ENTRY U2	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	88.0	87.1	44	14	2
BARRED ENTRY U3	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	10.0	10.5	5	5	0
BARRED ENTRY U4	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	19.0	18.9	10	5	0
BARRED ENTRY U5	B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	13.0	13.1	7	4	0
BARRED ENTRY U6	B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	35.0	39.3	20	8	0
BARRED ENTRY U7	B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	10.0	9.9	5	5	0
All		246.0	249.5	127	53	2

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.1	40	3,503	3,297	5.9	7,382.5	811.2
DF	LIVE	3 SAW	Domestic	8.6	39	5,706	5,504	3.5	13,308.1	1,354.0
DF	LIVE	4 SAW	Domestic	5.2	27	1,539	1,521	1.2	3,615.4	374.1
DF	LIVE	UTILITY	Pulp	5.1	22	135	135	0.0	206.7	33.2
RA	LIVE	4 SAW	Domestic	5.8	36	590	554	6.0	1,490.8	136.4
RA	LIVE	UTILITY	Pulp	5.0	18	8	8	0.0	14.4	2.0
SS	LIVE	2 SAW	Domestic	14.2	40	355	345	2.7	647.5	84.9
SS	LIVE	3 SAW	Domestic	9.2	39	492	486	1.2	1,080.4	119.6
SS	LIVE	4 SAW	Domestic	5.7	22	69	69	0.7	165.7	16.9
SS	LIVE	CULL	Cull	5.7	18	5	0	100.0	0.0	0.0

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
WH	LIVE	2 SAW	Domestic	13.3	40	6,935	6,594	4.9	16,350.4	1,622.1
WH	LIVE	3 SAW	Domestic	8.3	39	5,553	5,471	1.5	14,525.6	1,345.9
WH	LIVE	4 SAW	Domestic	5.4	30	1,613	1,608	0.3	4,557.9	395.5
WH	LIVE	UTILITY	Pulp	7.5	40	30	30	0.0	96.1	7.5

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Pulp	5.1	22	135	0.0	206.7	33.2
DF	5 - 8	LIVE	Domestic	5.9	31	3,504	1.1	8,731.3	861.9
DF	9 - 11	LIVE	Domestic	10.2	40	3,521	4.9	8,192.2	866.2
DF	12 - 14	LIVE	Domestic	13.0	40	3,008	5.3	6,780.7	740.1
DF	15 - 19	LIVE	Domestic	15.5	40	289	11.8	601.8	71.1
RA	5 - 8	LIVE	Pulp	5.0	18	8	0.0	14.4	2.0
RA	5 - 8	LIVE	Domestic	5.6	36	510	5.7	1,375.3	125.4
RA	9 - 11	LIVE	Domestic	9.2	40	44	10.3	115.6	10.9
SS	5 - 8	LIVE	Cull	5.7	18	0	100.0	0.0	0.0
SS	5 - 8	LIVE	Domestic	6.5	31	178	1.3	444.3	43.8
SS	9 - 11	LIVE	Domestic	10.7	40	377	1.1	801.8	92.7
SS	12 - 14	LIVE	Domestic	13.6	40	188	2.3	378.4	46.2
SS	15 - 19	LIVE	Domestic	15.8	40	157	3.3	269.2	38.7
WH	5 - 8	LIVE	Domestic	6.0	33	3,846	0.9	11,085.0	946.0
WH	5 - 8	LIVE	Pulp	7.5	40	30	0.0	96.1	7.5
WH	9 - 11	LIVE	Domestic	10.5	40	3,233	1.6	7,998.4	795.3
WH	12 - 14	LIVE	Domestic	13.2	40	5,544	4.0	13,955.2	1,363.8
WH	15 - 19	LIVE	Domestic	15.7	40	987	10.0	2,284.4	242.8
WH	20+	LIVE	Domestic	20.4	40	63	0.0	110.7	15.5

Unit Sale Notice Volume (MBF): BARRED ENTRY U1

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility		
WH	18.5	5.0		1,070	509	460	93	7		
DF	18.5	6.0		344	100	206	38			
RA	11.5			37			37			
ALL	17.5	5.5		1,452	610	667	168	7		

Unit Cruise Design: BARRED ENTRY U1

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	71.0	70.7	36	12	0

Unit Cruise Summary: BARRED ENTRY U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	38	120	3.3	1
DF	12	42	1.2	1
RA	4	8	0.2	0
ALL	54	170	4.7	2

Unit Cruise Statistics: BARRED ENTRY U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	133.3	60.9	10.1	113.1	9.8	1.6	15,074	61.6	10.3
DF	46.7	135.1	22.5	103.9	11.3	3.2	4,851	135.6	22.8
RA	8.9	418.2	69.7	59.1	11.2	5.6	526	418.3	69.9
ALL	188.9	28.0	4.7	108.3	16.5	2.2	20,450	32.5	5.2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	12	ALL	18.5	72	90	5,288	4,851	8.3	25.0	46.7	10.8	344.4
RA	LIVE	CUT	4	ALL	11.5	46	56	545	526	3.5	12.3	8.9	2.6	37.3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
WH	LIVE	CUT	38	ALL	18.5	72	89	15,600	15,074	3.4	71.4	133.3	31.0	1,070.2
ALL	LIVE	CUT	54	ALL	17.8	69	86	21,433	20,450	4.6	108.7	188.9	44.5	1,451.9
ALL	ALL	ALL	54	ALL	17.8	69	86	21,433	20,450	4.6	108.7	188.9	44.5	1,451.9

Unit Sale Notice Volume (MBF): BARRED ENTRY U2

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility		
DF	15.9	6.0		1,503	492	765	218	29		
WH	14.7	6.0		829	370	287	172			
SS	19.0			70		60	11			
RA	12.2			58			56	2		
ALL	15.3	6.0		2,461	862	1,112	456	31		

Unit Cruise Design: BARRED ENTRY U2

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	88.0	87.1	44	14	2

Unit Cruise Summary: BARRED ENTRY U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	46	139	3.2	1
WH	24	74	1.7	1
SS	1	6	0.1	0
RA	6	11	0.3	0
ALL	77	230	5.2	2

Unit Cruise Statistics: BARRED ENTRY U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	172.0	66.9	10.1	99.3	13.3	2.0	17,080	68.2	10.3
WH	91.6	115.2	17.4	102.9	15.9	3.2	9,421	116.3	17.7
SS	7.4	406.0	61.2	107.7	0.0	0.0	799	406.0	61.2
RA	10.0	260.6	39.3	66.3	24.4	10.0	663	261.7	40.5
ALL	281.0	29.1	4.4	99.5	17.2	2.0	27,963	33.8	4.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	46	ALL	15.9	64	80	17,686	17,080	3.4	124.7	172.0	43.1	1,503.0
RA	LIVE	CUT	6	ALL	12.2	49	59	711	663	6.9	12.3	10.0	2.9	58.3
SS	LIVE	CUT	1	ALL	19.0	68	86	799	799	0.0	3.8	7.4	1.7	70.3
WH	LIVE	CUT	24	ALL	14.7	60	74	9,648	9,421	2.4	77.7	91.6	23.9	829.0
ALL	LIVE	CUT	77	ALL	15.4	62	77	28,844	27,963	3.1	218.5	281.0	71.6	2,460.7
ALL	ALL	ALL	77	ALL	15.4	62	77	28,844	27,963	3.1	218.5	281.0	71.6	2,460.7

Unit Sale Notice Volume (MBF): BARRED ENTRY U3

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw				
WH	16.9			147	22	105	20				
DF	13.0			112	22	56	34				
RA	11.0			4			4				
ALL	14.5			264	44	161	59				

Unit Cruise Design: BARRED ENTRY U3

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	10.0	10.5	5	5	0

Unit Cruise Summary: BARRED ENTRY U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	12	12	2.4	0
DF	11	11	2.2	0
RA	1	1	0.2	0
ALL	24	24	4.8	0

Unit Cruise Statistics: BARRED ENTRY U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	130.7	47.5	21.2	112.7	6.8	2.0	14,726	48.0	21.3
DF	119.8	49.8	22.3	93.7	24.0	7.2	11,217	55.3	23.4
RA	8.0	223.6	100.0	53.0	0.0	0.0	424	223.6	100.0
ALL	258.4	34.5	15.4	102.0	20.7	4.2	26,367	40.2	16.0

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	11	ALL	13.0	56	70	11,523	11,217	2.7	129.9	119.8	33.2	112.2
RA	LIVE	CUT	1	ALL	11.0	44	52	485	424	12.5	12.1	8.0	2.4	4.2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
WH	LIVE	CUT	12	ALL	16.9	69	86	14,974	14,726	1.7	83.9	130.7	31.8	147.3
ALL	LIVE	CUT	24	ALL	14.5	61	75	26,982	26,367	2.3	225.9	258.4	67.4	263.7
ALL	ALL	ALL	24	ALL	14.5	61	75	26,982	26,367	2.3	225.9	258.4	67.4	263.7

Unit Sale Notice Volume (MBF): BARRED ENTRY U4

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility			
WH	17.5			383	197	156	30				
DF	17.2			233	63	132	35	4			
ALL	17.4			616	260	287	65	4			

Unit Cruise Design: BARRED ENTRY U4

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	19.0	18.9	10	5	0

Unit Cruise Summary: BARRED ENTRY U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	14	32	3.2	0
DF	10	23	2.3	0
ALL	24	55	5.5	0

Unit Cruise Statistics: BARRED ENTRY U4

Sp	BA (sq ft/acre)	BA CV (%)		V-BAR (bf/sq ft)	V-BAR CV (%)		Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	174.2	81.8	25.9	115.7	9.0	2.4	20,154	82.2	26.0
DF	125.2	96.2	30.4	98.0	10.3	3.3	12,276	96.8	30.6
ALL	299.4	17.7	5.6	108.3	12.7	2.6	32,430	21.7	6.2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	10	ALL	17.2	68	85	12,798	12,276	4.1	77.6	125.2	30.2	233.2
WH	LIVE	CUT	14	ALL	17.5	71	88	20,539	20,154	1.9	104.3	174.2	41.6	382.9
ALL	LIVE	CUT	24	ALL	17.4	70	87	33,337	32,430	2.7	181.9	299.4	71.8	616.2
ALL	ALL	ALL	24	ALL	17.4	70	87	33,337	32,430	2.7	181.9	299.4	71.8	616.2

Unit Sale Notice Volume (MBF): BARRED ENTRY U5

				М	MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw			
WH	14.4			256	110	106	40			
DF	13.2			157	36	92	28			
ALL	14.0			413	146	198	69			

Unit Cruise Design: BARRED ENTRY U5

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2C: VR, 2 BAF (54.44, 40 for some species) Measure/Count Plots, Sighting Ht = 4.5 ft	13.0	13.1	7	4	0

Unit Cruise Summary: BARRED ENTRY U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	15	23	3.3	0
DF	8	15	2.1	0
ALL	23	38	5.4	0

Unit Cruise Statistics: BARRED ENTRY U5

Sp	BA (sq ft/acre)	BA CV (%)			V-BAR CV (%)		Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	178.9	48.8	18.4	110.2	19.4	5.0	19,714	52.5	19.1
DF	116.7	78.2	29.6	103.3	17.8	6.3	12,049	80.2	30.2
ALL	295.5	20.9	7.9	107.5	18.8	3.9	31,763	28.1	8.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	8	ALL	13.2	58	72	12,194	12,049	1.2	122.8	116.7	32.1	156.6
WH	LIVE	CUT	15	ALL	14.4	60	73	20,385	19,714	3.3	158.2	178.9	47.1	256.3
ALL	LIVE	CUT	23	ALL	13.9	59	73	32,580	31,763	2.5	281.0	295.5	79.2	412.9
ALL	ALL	ALL	23	ALL	13.9	59	73	32,580	31,763	2.5	281.0	295.5	79.2	412.9

Unit Sale Notice Volume (MBF): BARRED ENTRY U6

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw			
WH	20.0	6.0		430	267	142	22			
DF	18.7	5.0		223	98	103	22			
RA	9.9			38			38			
SS	16.9	5.0		25	14	9	1			
ALL	16.4	5.3		717	379	253	84			

Unit Cruise Design: BARRED ENTRY U6

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (40) Measure/Count Plots, Sighting Ht = 4.5 ft	35.0	39.3	20	8	0

Unit Cruise Summary: BARRED ENTRY U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	13	48	2.4	1
DF	11	27	1.4	1
RA	4	7	0.4	0
SS	3	3	0.2	1
ALL	31	85	4.3	3

Unit Cruise Statistics: BARRED ENTRY U6

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	96.0	95.0	21.2	128.1	9.8	2.7	12,294	95.5	21.4
DF	54.0	115.9	25.9	118.0	6.5	2.0	6,372	116.1	26.0
RA	14.0	311.3	69.6	78.6	16.1	8.1	1,100	311.7	70.1
SS	6.0	244.2	54.6	118.1	23.1	13.4	709	245.3	56.2
ALL	170.0	27.4	6.1	120.4	16.6	3.0	20,475	32.0	6.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	11	ALL	18.7	77	97	6,529	6,372	2.4	28.3	54.0	12.5	223.0
RA	LIVE	CUT	4	ALL	9.9	48	58	1,172	1,100	6.1	26.2	14.0	4.4	38.5
SS	LIVE	CUT	3	ALL	16.9	72	90	739	709	4.2	3.9	6.0	1.5	24.8
WH	LIVE	CUT	13	ALL	20.0	80	99	12,772	12,294	3.7	44.0	96.0	21.5	430.3
ALL	LIVE	CUT	31	ALL	17.4	71	88	21,211	20,475	3.5	102.4	170.0	39.9	716.6
ALL	ALL	ALL	31	ALL	17.4	71	88	21,211	20,475	3.5	102.4	170.0	39.9	716.6

Unit Sale Notice Volume (MBF): BARRED ENTRY U7

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw			
WH	18.3			255	147	90	18			
SS	19.2			126	71	51	5			
ALL	18.6			381	218	141	23			

Unit Cruise Design: BARRED ENTRY U7

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B2: VR, 2 BAF (54.44, 40 for some species) Measure All, Sighting Ht = 4.5 ft	10.0	9.9	5	5	0

Unit Cruise Summary: BARRED ENTRY U7

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	20	20	4.0	0
SS	10	10	2.0	0
ALL	30	30	6.0	0

Unit Cruise Statistics: BARRED ENTRY U7

Sp	BA (sq ft/acre)	BA CV (%)			V-BAR CV (%)		Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	217.8	55.9	25.0	117.1	22.1	4.9	25,492	60.1	25.5
SS	108.9	93.5	41.8	115.9	24.8	7.9	12,622	96.8	42.6
ALL	326.6	16.7	7.5	116.7	22.6	4.1	38,115	28.1	8.5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
SS	LIVE	CUT	10	ALL	19.2	68	86	13,030	12,622	3.1	54.2	108.9	24.8	126.2
WH	LIVE	CUT	20	ALL	18.3	73	91	26,762	25,492	4.7	119.2	217.8	50.9	254.9
ALL	LIVE	CUT	30	ALL	18.6	72	89	39,792	38,115	4.2	173.4	326.6	75.8	381.1
ALL	ALL	ALL	30	ALL	18.6	72	89	39,792	38,115	4.2	173.4	326.6	75.8	381.1



F

	<u> </u>					
			Effective Date:	6/16/2024		
OFMAT	URLIE S		Expiration Date:	6/16/2027		
	plication/Notification f Decision	Shut Down Zone:	Shut Down Zone: MULTIPLE			
Notice of		EARR Tax Credit:	⊠ Eligible	□ Non-eligible		
			Reference:	DNR		
				Barred Entry		
Decision						
☐ Notification Accepted	Operations shall	I not begin before	the effective date.			
□ Approved	This Forest Prac	ctices Application	is subject to the cond	ditions listed bel	ow.	
☐ Disapproved	This Forest Prac	ctices Application	is disapproved for the	e reasons listed	below.	
☐ Withdrawn	Applicant has wi	ithdrawn the Fore	st Practices Applicati	on/Notification ((FPA/N).	
☐ Closed	All forest practic	es obligations are	e met.			
FPA/N Classification			Number of Yea	ars Granted on	Multi-Year Request	
Class II Class III	☐ Class IVG	☑ Class IVS	☐ 4 years	☐ 5 years		
Conditions on Approval/R	easons for Disap	proval				
Timing Limitations on Type S and F water(s): All work below the ordinary high water line shall only occur between July 1 and September 30.						
Issued By: Jenny Garsta	ng		Region: Olym	pic	<u> </u>	
Title: Forest Practices F	orester		Date: 6/16/202	24		
Copies to: □ La	Copies to: ☐ Landowner, Timber Owner and Operator					

FPA/N No: 2618363

2023 January - FPA/N Notice of Decision

Issued in person:

☑ LO ☒ TO ☒ OP

Page 1 of 2

6/15/2024

Date:

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES BARRED ENTRY TIMBER SALE ROAD PLAN JEFFERSON COUNTY COAST DISTRICT

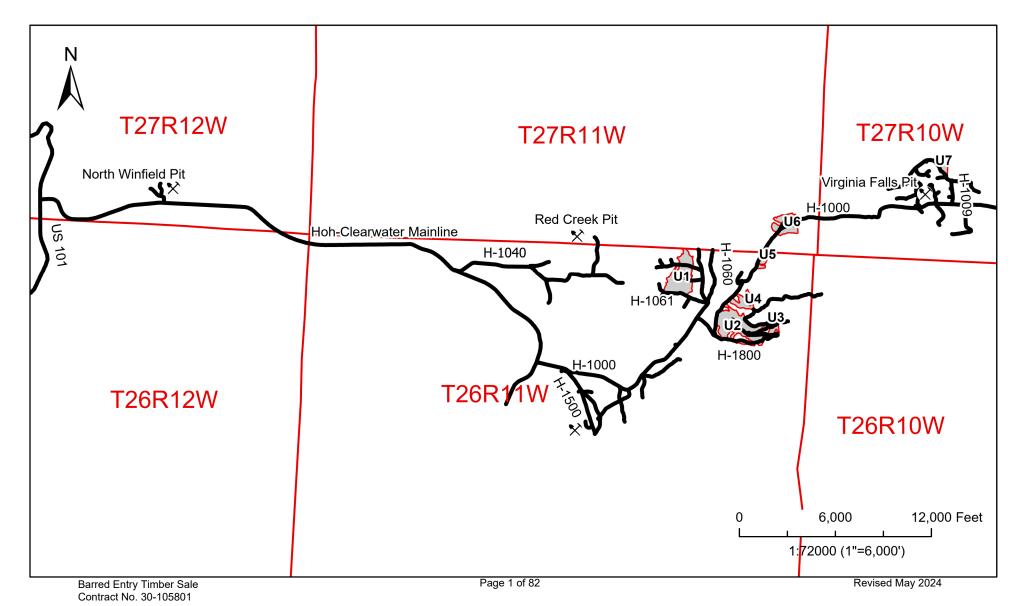
AGREEMENT NO.: 30-104801

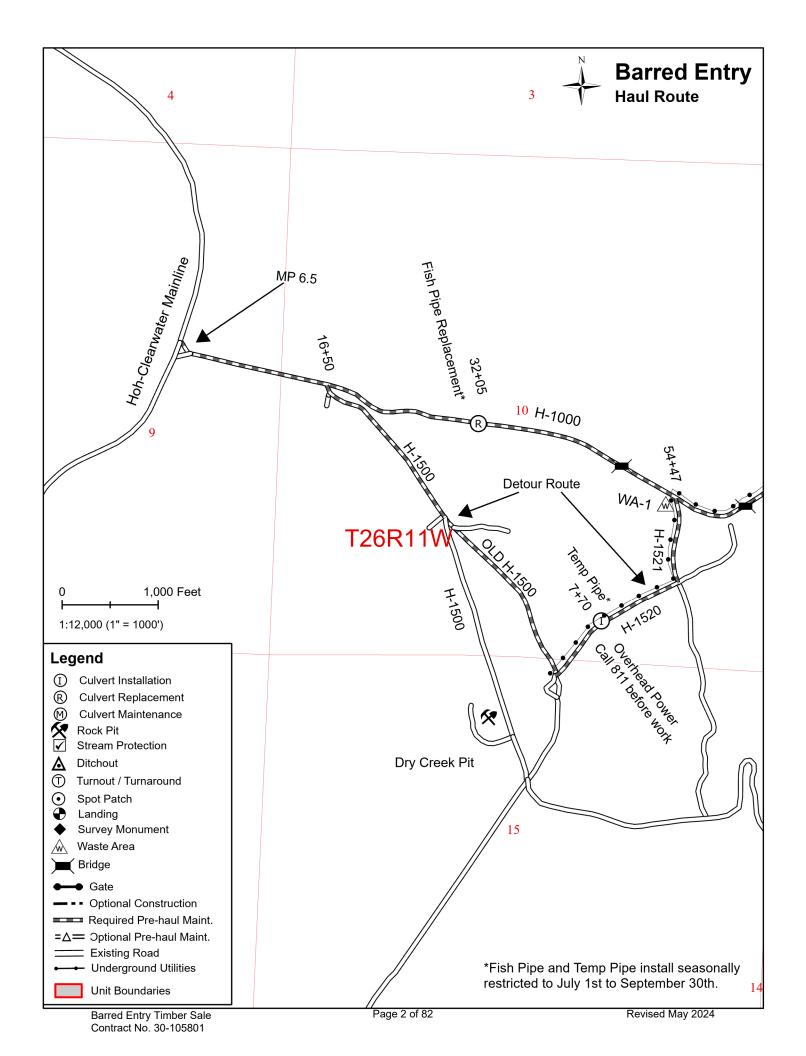
DATE 29 JANUARY 2024

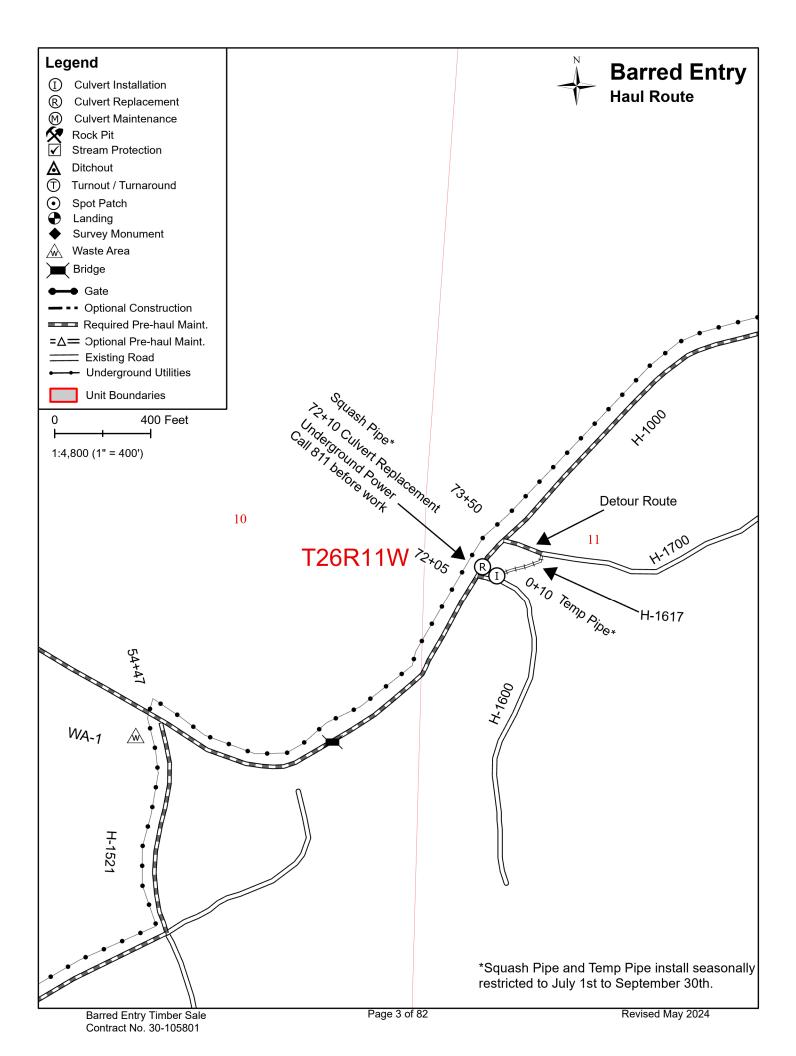
Project Map

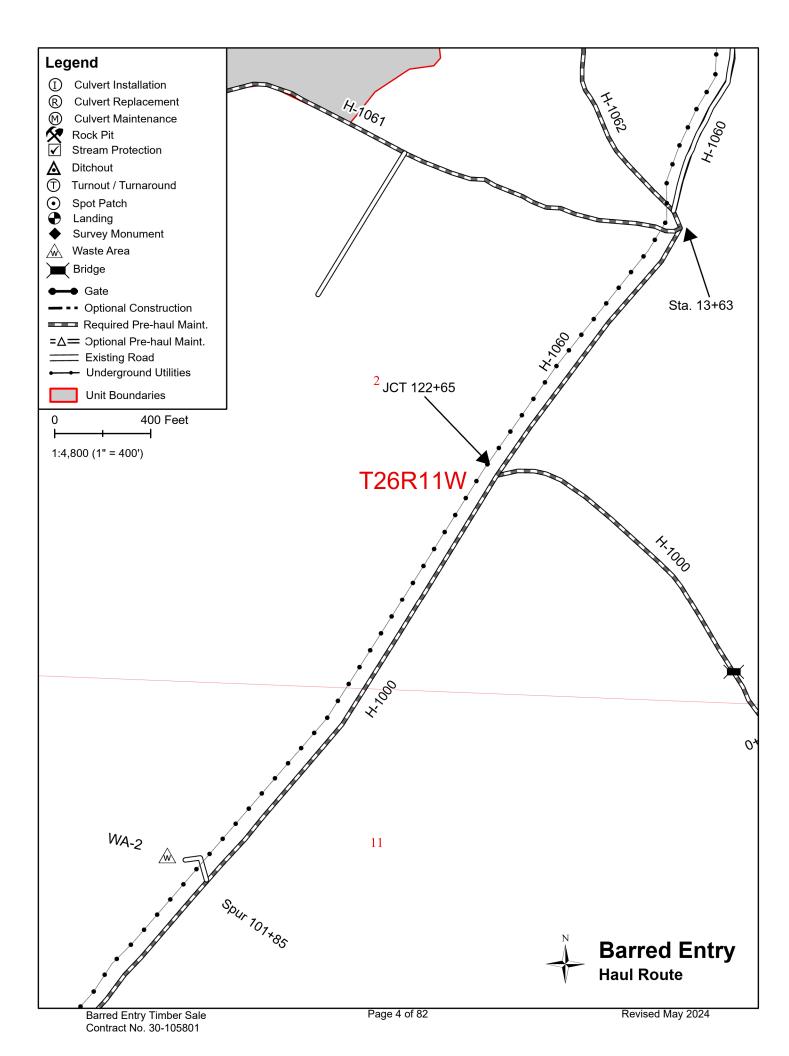
DRAWN AND COMPILED BY: MAIJA GRIFFIOEN

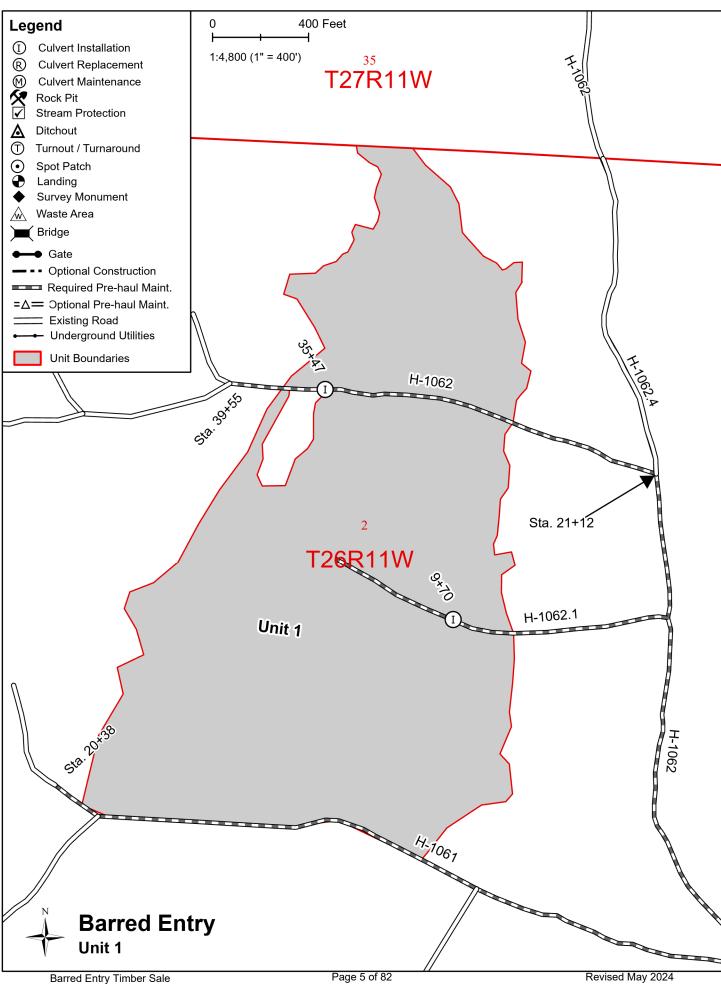
DISTRICT ENGINEER: BILL MEHL

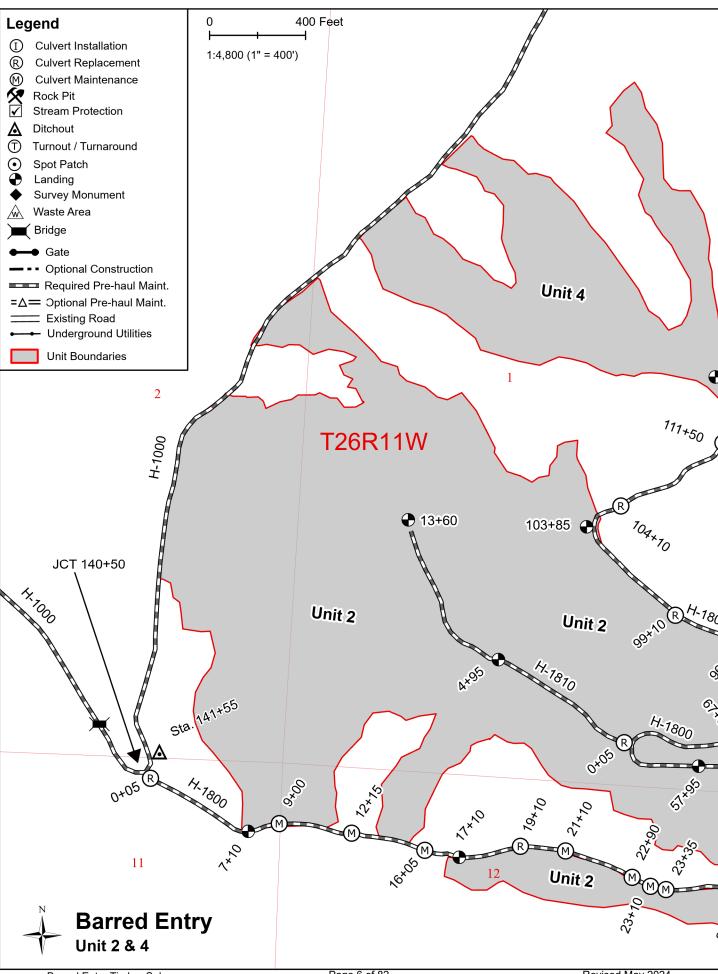


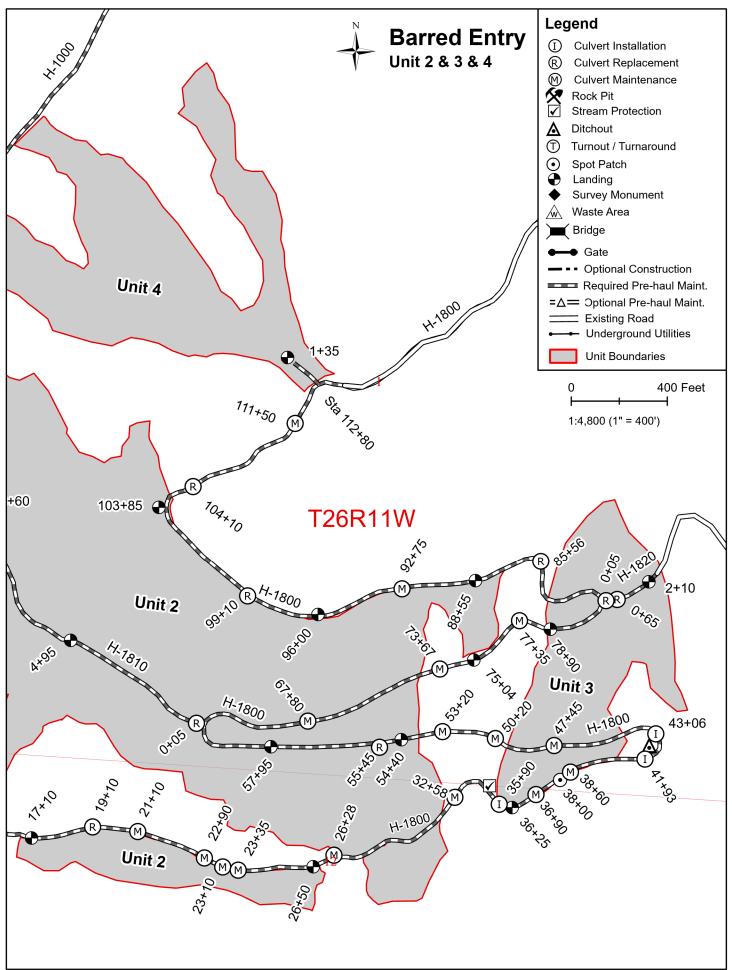


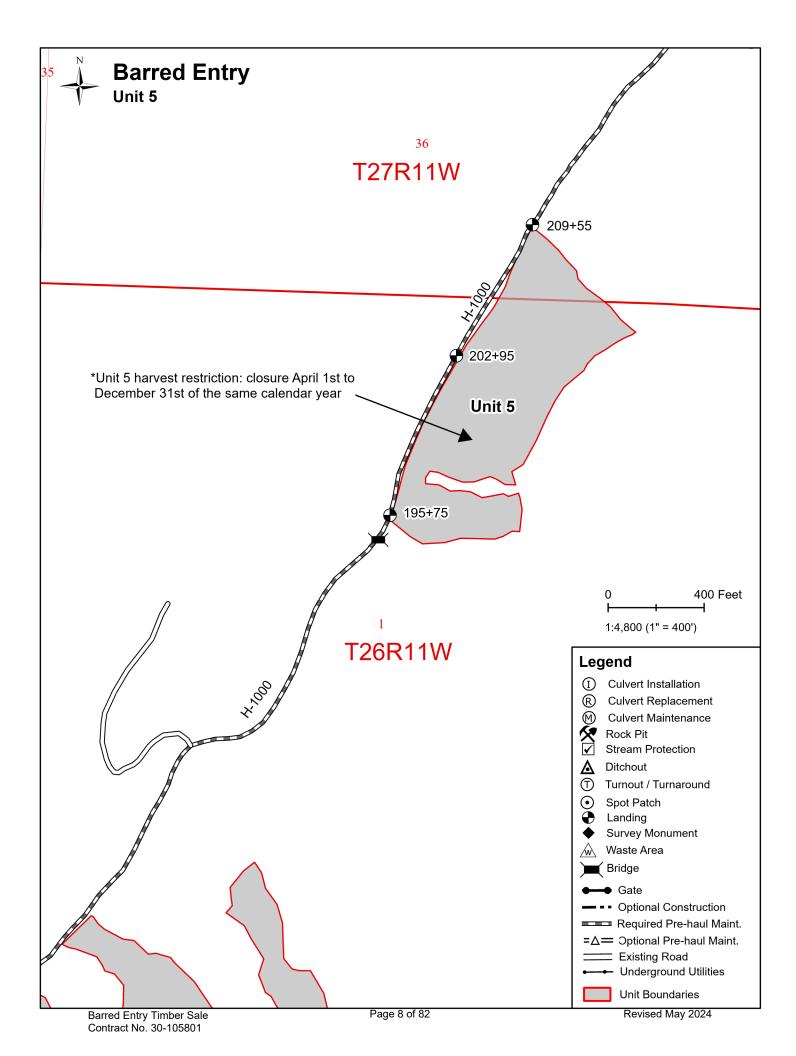


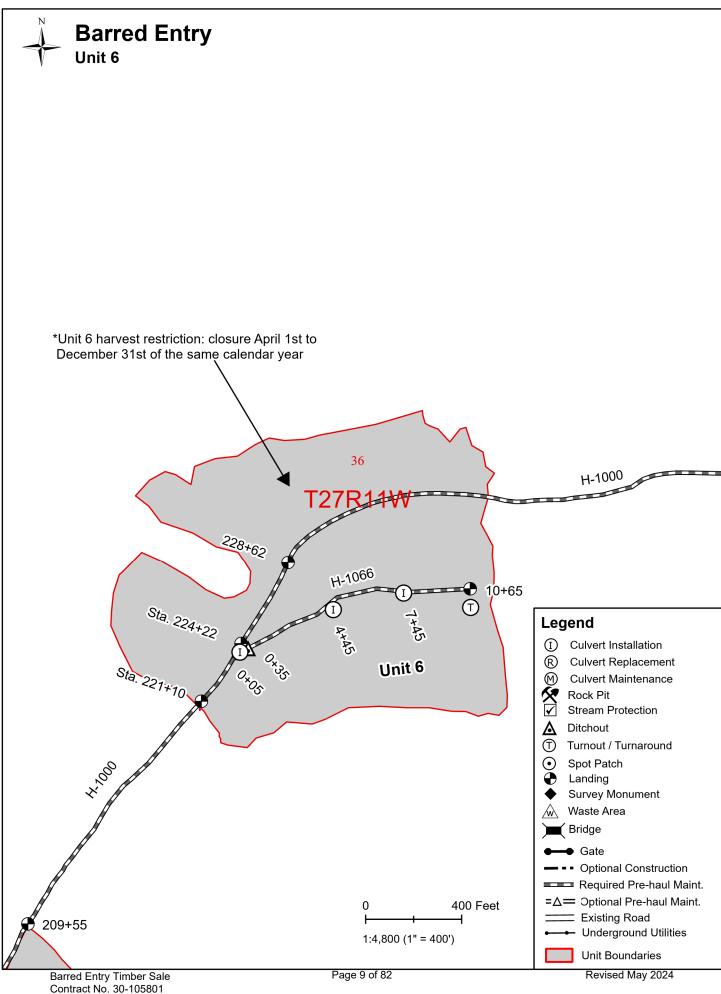


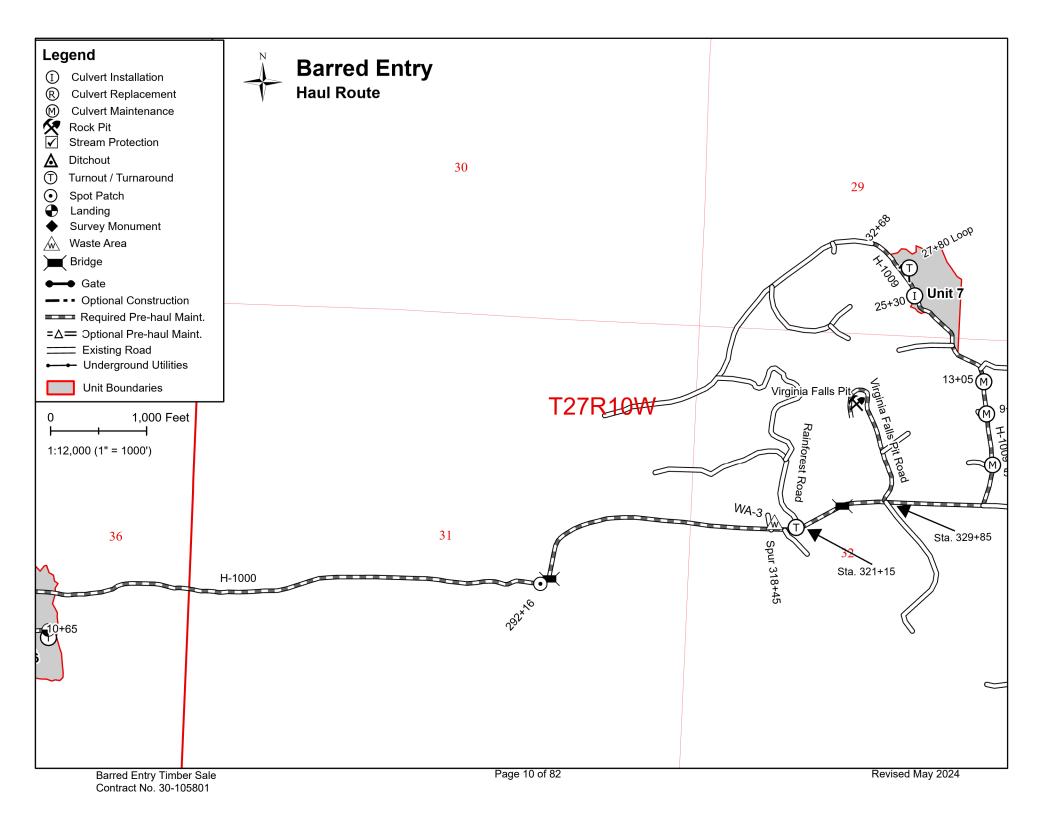


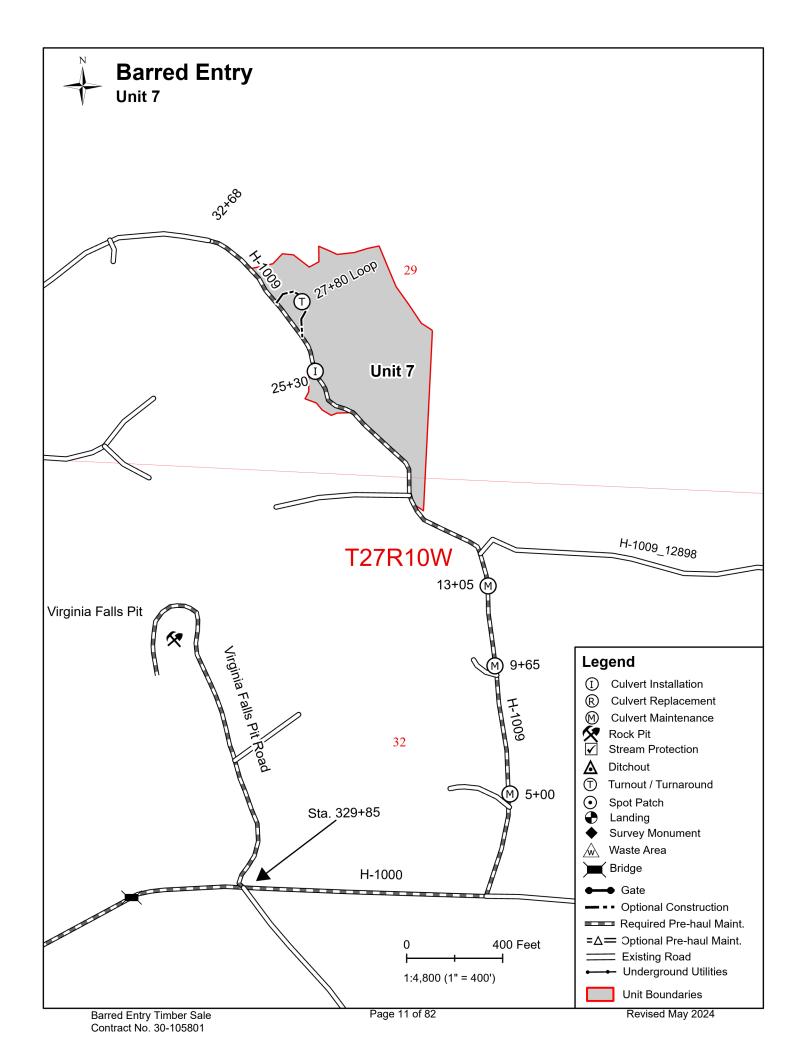


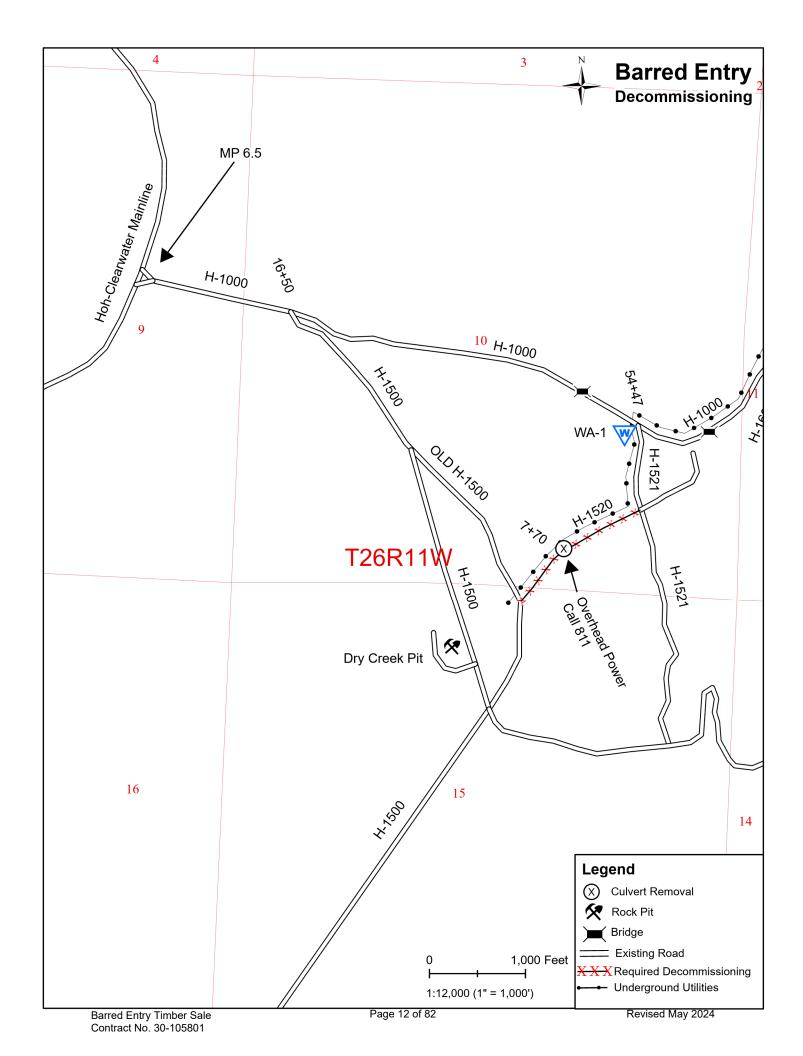


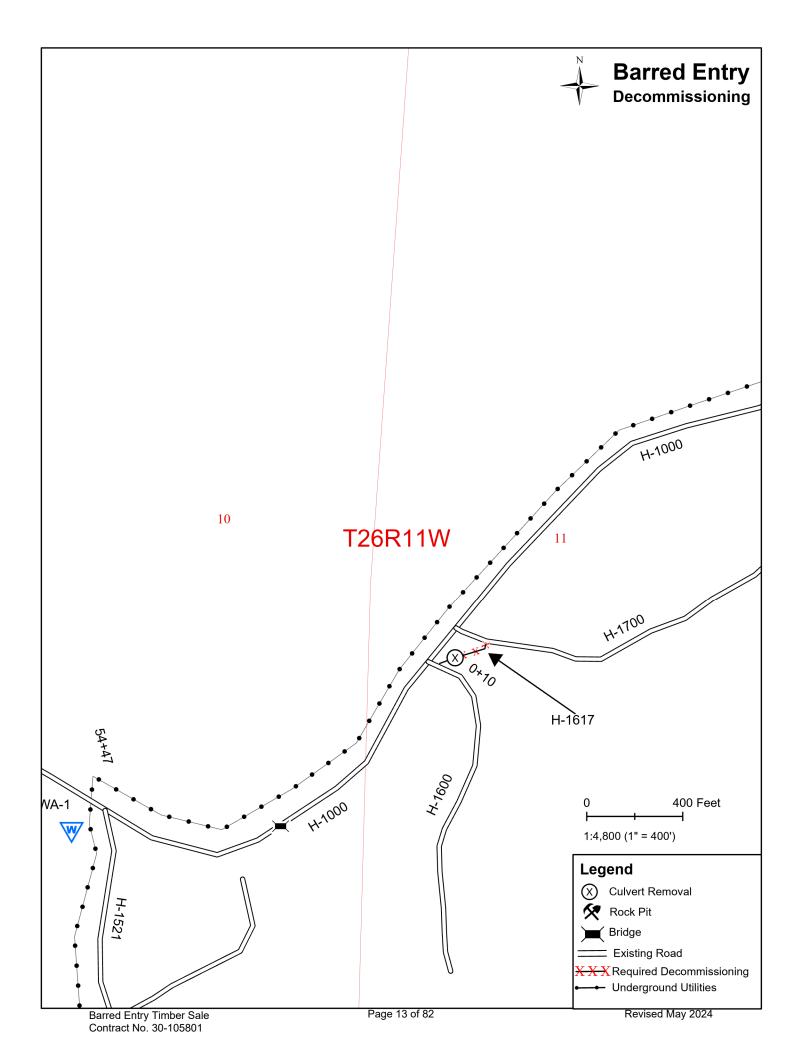












STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

BARRED ENTRY TIMBER SALE ROAD PLAN JEFFERSON COUNTY COAST DISTRICT

AGREEMENT NO.: 30-104801 DISTRICT ENGINEER: BILL MEHL

DATE: JANUARY 29TH, 2024 DRAWN & COMPILED BY: MAIJA GRIFFIOEN

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.

Road	<u>Stations</u>	<u>Type</u>
H-1000	0+00 - 334+22	Pre-Haul Maintenance
H-1500	0+00 – 18+70	Pre-Haul Maintenance
OLD H-1500	0+00 – 20+30	Pre-Haul Maintenance
H-1520	0+00 – 16+45	Pre-Haul Maintenance
H-1520	7+00 – 8+00	Reconstruction
H-1521	0+00 – 8+84	Pre-Haul Maintenance
H-1600	0+00 – 0+25	Pre-Haul Maintenance
H-1617	0+00 - 4+04	Reconstruction
H-1700	0+00 – 1+75	Pre-Haul Maintenance
H-1060	0+00 – 13+63	Pre-Haul Maintenance
H-1061	0+00 – 20+38	Pre-Haul Maintenance
H-1062	0+00 – 39+55	Pre-Haul Maintenance
H-1062.1	0+00 – 14+64	Pre-Haul Maintenance
H-1800	0+00 - 114+42	Pre-Haul Maintenance
H-1810	0+00 – 13+60	Pre-Haul Maintenance
H-1820	0+00-2+60	Pre-Haul Maintenance
1+35 Spur	0+00 – 1+35	Pre-Haul Maintenance
H-1066	0+00 – 10+65	Pre-haul Maintenance
Virginia Falls Pit Road	0+00 – 16+55	Pre-haul Maintenance
H-1009	0+00 – 32+75	Pre-Haul 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.

Road	<u>Stations</u>	<u>Type</u>
27+80 Loop	0+00 – 3+00	Construction
0+80 Spur	0+00 - 0+80	Pre-Haul Maintenance

0-4 CONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
27+80 Loop	0+00 – 3+00	See Below
Total:	3+00	

Construction includes, but is not limited to:

Clearing, grubbing, right-of-way debris disposal, excavation and/or embankment to subgrade, end hauling material for construction, compacting road surfaces, constructing ditchlines, constructing ditchouts, constructing turnouts and turnarounds, curve widening, acquisition and installation of drainage structures, application of rock, spreading grass seed and hay.

0-5 RECONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
H-1520	7+00 – 8+00	See Below
H-1617	0+00 – 4+04	See Below
Total:	5+04	

Reconstruction includes, but is not limited to:

Installing additional culvert, realigning road segments, application of rock, removing culvert.

0-6 PRE-HAUL MAINTENANCE

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

Road	<u>Stations</u>	<u>Requirements</u>
H-1000	0+00 – 334+22	Grade and shape road in accordance with clause 2-5. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Clean culverts in accordance with clause 2-6 and Culvert List. Maintain erosion control structures in accordance with clause 2-8, 8-1 and as directed by Contract Administrator.
H-1500	0+00 – 18+70	Grade and shape road in accordance non-asphalt portions of the road with clause 2-5.
OLD H-1500	0+00 – 20+30	Grade and shape road in accordance with clause 2-5. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Brush road in accordance with Clause 3-1 and Brushing Detail.
H-1520	0+00 – 7+00 8+00 – 16+45	Grade and shape road in accordance with clause 2-5. Clean culverts in accordance with clause 2-6 and Culvert List. Remove all

		vegetative material, dirt, mud, and other debris on existing road surface in accordance with clause 2-9. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list.
H-1521	0+00 – 16+45	Grade and shape road in accordance with clause 2-5. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list.
H-1600	0+00 – 0+25	Grade and shape road in accordance with clause 2-5. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list.
H-1700	0+00 – 1+75	Grade and shape road in accordance with clause 2-5. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Construct flared intersection in accordance with clause 4-23.
H-1060	0+00 – 13+63	Grade and shape road in accordance with clause 2-5. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list.
H-1061	0+00 – 20+38	Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Remove all vegetative material, dirt, mud, and other debris on existing road surface in accordance with clause 2-9. Brush road in accordance with Clause 3-1 and Brushing Detail. Clean ditches, headwalls, and catch basins in accordance with Clause 2-7.
H-1062	0+00 – 39+55	Grade and shape road in accordance with clause 2-5. Clean culverts in accordance with clause 2-6 and Culvert List. Clean ditches, headwalls, and catch basins in accordance with Clause 2-7. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Brush road in accordance with Clause 3-1 and Brushing Detail.
H-1062.1	0+00 – 14+64	Clean culverts in accordance with clause 2-6 and Culvert List. Clean ditches, headwalls, and catch basins in accordance with Clause 2-7. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Brush road in accordance with Clause 3-1 and Brushing Detail.
H-1800	0+00 – 114+42	Grade and shape road in accordance with clause 2-5. Clean culverts in accordance with clause 2-6 and Culvert List. Clean ditches, headwalls, and catch basins in accordance

		with Clause 2-7. Maintain erosion control structures in accordance with clause 2-8, 8-1 and as directed by Contract Administrator. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list.
H-1810	0+00 – 13+60	Clean culverts in accordance with clause 2-6 and Culvert List. Clean ditches, headwalls, and catch basins in accordance with Clause 2-7. Remove all vegetative material, dirt, mud, and other debris on existing road surface in accordance with clause 2-9. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Brush road in accordance with Clause 3-1 and Brushing Detail.
H-1820	0+00 – 2+60	Clean culverts in accordance with clause 2-6 and Culvert List. Clean ditches, headwalls, and catch basins in accordance with Clause 2-7. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Brush road in accordance with Clause 3-1 and Brushing Detail.
Spur 1+35	0+00 – 1+35	Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list.
H-1066	0+00 – 10+65	Clean culverts in accordance with clause 2-6 and Culvert List. Clean ditches, headwalls, and catch basins in accordance with Clause 2-7. Remove all vegetative material, dirt, mud, and other debris on existing road surface in accordance with clause 2-9. Construct ditch outs in accordance with Clause 4-29 and 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list.
Virginia Pit Road	0+00 – 16+55	Grade and shape road in accordance with clause 2-5. Brush road in accordance with Clause 3-1 and Brushing Detail.
H-1009	0+00 – 32+68	Clean culverts in accordance with clause 2-6 and Culvert List. Clean ditches, headwalls, and catch basins in accordance with Clause 2-7. Apply rock in accordance with Rock List. Compact rock in accordance with Compaction list. Brush road in accordance with Clause 3-1 and Brushing Detail.

Maintenance includes, but is not limited to:

Brushing right-of-way, right-of-way debris disposal, cleaning ditches, constructing ditches, installing additional culverts, widening road segments, constructing headwalls,

cleaning culvert inlets and outlets, cross drain culvert replacement, installing erosion control materials and sediment removal structures, spot rocking, grading and shaping existing road surface and turnouts, constructing additional turnouts, compaction of road surface, application of rock, acquisition and application of grass seed and hay.

0-7 POST-HAUL MAINTENANCE

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

0-9 DECOMMISSIONING

This project includes, but is not limited to decommissioning listed in Clause 9-20 ROAD DECOMMISSIONING.

0-13 STRUCTURES

The Purchaser shall acquire and install all structures. Requirements for these structures are listed in Section 7 Structures.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

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

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

Unless controlled by construction stakes or design data (plan, profile, and cross-sections), road work shall be performed in accordance with the dimensions shown on the Typical Section Sheet and the specifications within this Road Plan.

1-5 DESIGN DATA

Design data is available upon request at the Department of Natural Resources Olympic Region Office in Forks, WA.

1-6 ORDER OF PRECEDENCE

Any conflict or inconsistency in this Road Plan shall 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.

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

The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before the closure of any road. Road work shall not close any road for more than 5 consecutive days.

<u>Road</u>	Number of Allowable Closed Days
H-1000	5; After detours are constructed

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

The Purchaser is responsible for the repair or replacement of all materials, roadway infrastructure, and road components damaged during roadwork or operation activities. Repairs and replacements shall be directed by the Contract Administrator. Repairs to structural materials will be made according to the manufacturer's recommendation and shall not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any 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.

1-11 FPHP REQUIREMENTS

The following work is subject to requirements under a Forest Practice Hydraulics Project Approval issued by the State of Washington to be completed between July 1st and September 30th of the same calendar year.

FPA Crossing Identifier	Road	<u>Stations</u>	Work Type
C-1	H-1000	31+85 – 32+25	Fish Pipe Replacement
C-2	H-1520	72+05 – 72+25	Temp Pipe Install

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

Road work must be in accordance with the State's marked location. All road work is marked as follows:

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

1-16 CONSTRUCTION STAKES SET BY STATE

Purchaser shall perform work on the following road(s) in accordance with the construction stakes set in the field for grade and alignment. Reconstruction of existing road grades must conform to the original location except where construction staked or designed.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
H-1000	0+00 – 334+22	Construction Stakes
H-1500	0+00 – 18+70	Construction Stakes
OLD H-1500	0+00 - 20+30	Construction Stakes
H-1520	0+00 – 16+45	Construction Stakes
H-1520	7+00 – 8+00	Construction Stakes
H-1521	0+00 – 8+84	Construction Stakes
H-1600	0+00 – 0+25	Construction Stakes
H-1617	0+00 – 4+04	Construction Stakes
H-1700	0+00 – 1+75	Construction Stakes
H-1060	0+00 – 13+63	Construction Stakes
H-1061	0+00 – 20+38	Construction Stakes
H-1062	0+00 – 39+55	Construction Stakes
H-1062.1	0+00 – 14+64	Construction Stakes
H-1800	0+00 – 114+42	Construction Stakes
H-1810	0+00 – 13+60	Construction Stakes
H-1820	0+00 – 2+60	Construction Stakes
Spur 112+80	0+00 – 1+40	Construction Stakes
H-1066	0+00 – 9+61	Construction Stakes
H-1009	0+00 – 32+68	Construction Stakes
27+80 Loop	0+00 – 3+00	Construction Stakes

1-18 REFERENCE POINT DAMAGE

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

SUBSECTION TIMING

1-20 COMPLETE BY DATE

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

1-21 HAUL APPROVAL

The Purchaser shall not use roads under this Road Plan without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

On all roads, the Purchaser shall notify the Contract Administrator a minimum of 3 calendar days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Written approval by Contract Administrator needs to be given at these phases of road work:

- Subgrade approval
- Drainage installation
- Subgrade compaction
- Rock application

Rock compaction

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

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

Road	<u>Stations</u>	<u>Activity</u>	Closure Period
H-1000	16+50 – 54+47	Culvert Installation	October 1 st – June 30 th
H-1520	7+00 – 8+00	Culvert Installation	October 1 st – June 30 th
H-1000	72+05 – 73+50	Culvert Installation	November 1 st – March 31 st
H-1617	0+00 - 0+20	Culvert Installation	November 1 st – March 31 st
H-1000	195+75 – 209+55 and 221+37 – 232+22	Timber harvest and loading	April 1 st – December 31 st For harvesting units 5 & 6

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 Activity Timing Restriction, the Purchaser shall provide a maintenance plan to include further protection of State resources. The Contract Administrator must approve the maintenance plan in writing, and preventative measures shall be put in place, before operation in the closure period. The Purchaser shall be 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 shall be developed. All parties shall follow this plan.

1-27 LIMITED OPERATING PERIOD FOR MARBLED MURRELET

On the following road(s), any road work, right-of-way timber falling and yarding, rock pit operations, or operation of heavy equipment must be performed during the limited operating period if implemented during the nesting season. The limited operating period runs from two hours after sunrise to two hours before sunset between April 1 through September 23. This restriction does not apply to the hauling of timber, rock, or equipment.

Road	<u>Stations</u>
H-1000	174+70 – 185+30

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 shall suspend road work or hauling of right-of-way timber, forest products, or rock under the following conditions:

 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, the Purchaser will be required to cease operations, or perform corrective maintenance or repairs, subject to specifications within this Road Plan. Before and during any suspension, the 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, as approved in writing by Contract Administrator, shall be used.

If tracked equipment is used on bridge or asphalt surfaces, Purchaser shall immediately cease all road work and hauling operations. Any dirt, rock, or other material tracked or spilled on bridge or asphalt surface(s) shall be removed immediately. Any damage to the surface(s) shall be repaired at the Purchaser's expense as directed by the Contract Administrator.

1-33 SNOW PLOWING RESTRICTION

On all roads, snow plowing shall be permitted only after the execution of a Snow Plowing Agreement, which is available from the Contact Administrator upon request. Purchaser shall request a Snow Plowing Agreement each time plowing occurs. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

SUBSECTION OTHER INFRASTRUCTURE

1-41 REQUIREMENTS FOR PAVED ROAD APPROACHES

Requirements for the paved road approaches:

Purchaser shall build up approaches to allow a smooth grade transition. The top of the rock road surfacing must be kept level with the surface of the paved roads at all times.

1-43 ROAD WORK AROUND UTILITIES

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

Road	<u>Stations</u>	<u>Utility</u>	Utility Contact
H-1520	7+00 – 8+00	PUD No 1 of Clallam	811 and 1-800-542-
		County, Overhead Power	7859
H-1000	72+05 – 73+50	PUD No 1 of Clallam	811 and 1-800-542-
		County, Overhead Power	7859

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.

C-060	De	sian	ated	Ro	ads
		OIST!	atou		uuu

<u>Stations</u>
0+00 - 334+22
0+00 – 18+70
0+00 - 61+65
0+00 - 32+32
0+00 – 24+90
0+00 – 4+75
0+00 – 5+25

2-4 PASSAGE OF LIGHT VEHICLES

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

Road	<u>Stations</u>
H-1000	0+00 – 334+22
H-1500	0+00 – 18+70
OLD H-1500	0+00 – 20+30
H-1521	0+00 – 8+84
H-1520	0+00 – 16+45
H-1060	0+00 – 13+63
H-1062	0+00 – 22+58
H-1600	0+00 – 0+92
H-1617	0+00 – 3+35
H-1700	0+00 – 3+06

2-5 MAINTENANCE GRADING – EXISTING ROAD

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

Road	<u>Stations</u>	<u>Requirements</u>
H-1000	140+50 –	Grade and shape and compact existing road surface
	334+22	

H-1500	0+00 – 18+70	Grade and shape and compact existing road surface
OLD H- 1500	0+00 – 20+30	Grade and shape and compact existing road surface
H-1521	0+00 - 8+84	Grade and shape and compact existing road surface
H-1520	0+00 – 16+45	Grade and shape and compact existing road surface
H-1600	0+00 - 0+92	Grade and shape and compact existing road surface
H-1700	0+00 - 3+06	Grade and shape and compact existing road surface
H-1800	0+00 - 114+42	Grade and shape and compact existing road surface
H-1060	0+00 – 13+63	Grade and shape and compact existing road surface
H-1062	0+00 – 21+12	Grade and shape and compact existing road surface

2-6 CLEANING CULVERTS

On the following road(s), all inlets and outlets of culverts shall be cleaned before the start of timber haul and shall be subject to the written approval of the Contract Administrator.

Road	<u>Stations</u>
All	See Culvert List

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

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

Road	<u>Stations</u>	Left or Right	<u>Comments</u>
H-1800	0+00 – 114+42	L&R	As needed or directed by C/A
H-1810	0+00 – 13+60	L&R	As needed or directed by C/A
H-1820	0+00 – 2+60	L&R	As needed or directed by C/A
H-1061	0+00 – 20+38	L&R	As needed or directed by C/A
H-1062	0+00 – 39+55	L&R	As needed or directed by C/A
H-1062.1	0+00 – 14+64	L&R	As needed or directed by C/A
H-1009	0+00 – 32+68	L&R	As needed or directed by C/A

2-8 MAINTAINING EROSION CONTROL STRUCTURES

On the following road(s), Purchaser shall clean and maintain all erosion control devices. Work shall be completed before the start of timber haul and shall be done in accordance with all pertaining clauses contained in this Road Plan. Excavated material shall be disposed of in accordance with Clause 4-35 through Clause 4-38.

Road	<u>Stations</u>	<u>Comments</u>
H-1000	141+00 – 141+40	Silt fences R

H-1800	35+20 – 35+50	Silt fences L

2-9 REMOVING VEGETATIVE MATERIAL

On the following road(s), Purchaser shall remove all vegetative material, dirt, mud, and other debris on the existing road surface with a minimum loss of rock. Material removed shall be disposed of in accordance with Clause 3-21 through Clause 3-25 and Clause 4-36 through Clause 4-38. Roads to be shaped in accordance with Typical Sheet specifications.

<u>Road</u>	<u>Stations</u>
H-1520	0+00 – 7+00
	8+00 – 16+45
H-1617	0+00 – 3+35
H-1061	0+00 – 20+38
H-1066	0+00 – 9+61
H-1810	0+00 - 13+60

SECTION 3 - CLEARING, GRUBBING, AND DISPOSAL

SUBSECTION BRUSHING

3-1 BRUSHING

On the following road(s), vegetative material up to 5 inches in diameter, including limbs, shall be cut as shown on the Brushing Detail. Brushing shall be achieved by mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation shall not be disturbed unless directed by the Contract Administrator.

Road	<u>Stations</u>
OLD H-1500	0+00 – 20+30
H-1810	0+00 – 13+60
H-1820	0+00 – 2+60
H-1061	0+00 – 20+38
H-1062	0+00 – 39+55
H-1062.1	0+00 – 14+64
Virginia Pit Road	0+00 – 16+55
H-1009	0+00 - 32+68

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal shall not be used for brushing. Excavator buckets, log loaders and similar equipment shall not be used for brushing.

3-3 BRUSH REMOVAL

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

SUBSECTION CLEARING

3-5 CLEARING

Purchaser shall fall all vegetative material larger than 5 inches DBH or over 15 feet high between the marked right-of-way boundaries or 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

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

3-8 PROHIBITED DECKING AREAS

Right-of-way timber shall not be decked in the following areas:

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

SUBSECTION GRUBBING

3-10 GRUBBING

Remove all stumps between the grubbing limits specified on the Typical Section Sheet. Those stumps outside the grubbing limits but with undercut roots shall also be removed. Stump removal shall be accomplished using a hydraulic mounted excavator unless authorized, in writing, by the Contract Administrator. Grubbing shall be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

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

3-13 STUMPS FOR PUNCHEON MATERIAL

On the following road(s), stumps from within the grubbing limits may be overturned and driven flush with the ground surface for use as subgrade puncheon material.

<u>Road</u>	<u>Stations</u>
27+80 Loop	<u>0+00 – 3+00</u>

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

In the following waste area(s), the removal of stumps is not required within waste areas if they are cut flush with the ground.

Road	<u>Waste Area</u>	<u>Stations</u>
H-1521	WA1	0+05 – 0+75
Spur 101+85	WA2	0+10 – 0+50
Spur 318+45	WA3	0+10 – 0+50

SUBSECTION ORGANIC DEBRIS

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clauses G-010 Products Sold And Sale Area or G-011 Right To Remove Forest Products And Contract Area, that is larger than one cubic foot in volume within the grubbing Typical Section Sheet.

3-21 DISPOSAL COMPLETION

All disposal of organic debris, shall be completed before the application of rock.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

Waste areas for organic debris at the following locations shall be located as listed below.

Road	<u>Stations</u>
H-1521	0+05 – 0+75
Spur 101+85	0+10 - 0+50
Spur 318+45	0+10 - 0+50

3-23 PROHIBITED DISPOSAL AREAS

Organic debris shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert.
- Within 50 feet of a live stream, or wetland.
- On road subgrades road prism 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 will fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

Organic debris shall not be buried unless otherwise stated in this Road Plan.

3-25 SCATTERING ORGANIC DEBRIS

Organic debris shall be scattered outside of the grubbing limits in accordance with Clause 3-23 unless otherwise detailed in this Road Plan and as directed by the Contract Administrator.

SUBSECTION PILE

3-31 PILING

Organic debris shall be piled no closer than 20 feet from standing timber and no higher than 20 feet in areas specified in Clause 3-22 Designated Waste Area For Organic Debris. Piles shall be free of rock and soil.

SECTION 4 - EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

All roads shall be constructed, reconstructed, and maintained using a track mounted hydraulic excavator unless stated otherwise within this Road Plan, or permission to do otherwise is granted in writing by the Contract Administrator.

4-2 PIONEERING

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

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

The following road grade and alignment standards shall be followed:

- Grade and alignment shall have smooth continuity, without abrupt changes in direction.
- Maximum grade shall not exceed 18 percent favorable and 16 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Sag vertical curves shall not have a grade change greater than 5% in 100 feet.
- Crest vertical curves shall not have a grade change greater than 4% in 100 feet.

4-4 SWITCHBACK STANDARDS

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

- Adverse grades on switchbacks shall not exceed 10%.
- Favorable grades through switchbacks shall not exceed 12%.
- Transition grades entering and leaving switchbacks shall not exceed a 5% grade change.
- Transition grades required to meet switchback grade limitations shall be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

Unless construction staked or designed excavation slopes shall be constructed no steeper than shown on the following table:

	<u>Excavation</u>	Excavation Slope
Material Type	Slope Ratio	<u>Percent</u>
Common Earth (on side slopes up to 55%)	1:1	100
Common Earth (56% to 70% side slopes)	³ ⁄ ₄ :1	133
Common Earth (on slopes over 70%)	1⁄₂:1	200
Fractured or loose rock	1⁄₂:1	200
Hardpan or solid rock	1⁄4:1	400

4-6 EMBANKMENT SLOPE RATIO

Unless construction staked or designed embankment slopes shall be constructed no steeper than shown on the following table:

	<u>Embankment</u>	<u>Embankment</u>
<u>Material Type</u>	Slope Ratio	Slope Percent
Sandy Soils	2:1	50
Common Earth and Rounded Gravel	1½:1	67
Angular Rock	11⁄4:1	80

4-7 SHAPING CUT AND FILL SLOPE

Excavation and embankment slopes shall be constructed 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

Turnouts shall be intervisible with maximum of 1,000 feet between turnouts unless shown otherwise on drawings. Locations shall be adjusted to fit the final subgrade alignment and sight distances. Turnout locations shall be subject to written approval by the Contract Administrator.

4-22 TURNAROUNDS

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

4-23 SUBGRADE FLARE FOR INTERSECTIONS

The H-1617 intersections shall be constructed/reconstructed to include additional intersection flare.

SUBSECTION DITCH CONSTRUCTION

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

The Purchaser shall construct ditches into the subgrade as specified on the Typical Section Sheet. Excavated slopes shall be consistent with Clause 4-5 Cut Slope Ratio. Ditches shall be constructed concurrently with construction of the subgrade.

4-27 DITCH WORK – MATERIAL USE PROHIBITED

On all roads, pulling ditch material across the road or mixing in with the road surface will not be allowed. Excavated material shall be disposed of as specified in Clause 4-36 through Clause 4-38.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Ditchouts shall be constructed at locations shown on the list below, and as needed to fit as built conditions. Ditchouts shall be constructed in a manner that diverts ditch water onto the forest floor and shall have excavation backslopes no steeper than a 1:1 ratio. L or R denotes ditchout left or ditchout right heading in.

<u>Road</u>	<u>Stations</u>
H-1000	141+55 R
H-1066	0+35 R

SUBSECTION WASTE MATERIAL (DIRT)

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

4-37 WASTE AREA LOCATION

Waste material shall be deposited in the listed designated areas. The amount of material to be contained in a waste area shall be at the discretion of the Contract Administrator. Note: All amount values are estimated bank yards.

Waste Area	Waste Generated From	Estimated Volume	Waste Area
<u>Location</u>	<u>Road</u>		Permitted Vol.
WA1	Culvert Replacement H- 1000 Sta 32+05 Detour and Temp Pipe H- 1520	350	2,000
WA2	Culvert Replacement H- 1000 Sta 72+10	100	2,000
WA3	H-1066	300	1,000

4-38 PROHIBITED WASTE DISPOSAL AREAS

Waste material shall not be deposited in the following areas:

- Within 5 feet of a cross drain culvert
- Within 50 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.

4-39 WASTE AREA COMPACTION

Excavated material may be deposited adjacent to the road prism on side slopes up to 45% if the waste material is compacted and free of debris. On side slopes of 45% or more, all excavation shall be end hauled or pushed to designated waste areas. All waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over the entire width of the lifts, with the exception of side hill embankments too narrow to accommodate excavation equipment which may be placed by end-dumping or sidecasting until sufficiently wide to support the equipment.

SUBSECTION BORROW

4-45 SELECT BORROW

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

4-46 COMMON BORROW

Common borrow shall consist of soil, and/or aggregate that is non-plastic and shall contain no more than 5% clay, organic debris, or trash by volume. The material is considered non-plastic if the fines (passes the U.S. #40 sieve) in the sample cannot be rolled between the hand and a smooth surface into a thread at any moisture content.

4-47 NATIVE MATERIAL

Native material shall be excavated material free of organic debris, trash, and rocks greater than 12" in any dimension.

4-48 BORROW MATERIAL

Borrow material shall contain no more than 5% clay, organic debris, or trash by volume.

SUBSECTION SHAPING

4-55 ROAD SHAPING

The road subgrade and surface shall be shaped as shown on the Typical Section Sheet. The subgrade and surface shape shall ensure runoff in an even, un-concentrated manner, and shall be uniform, firm, and rut-free.

4-56 DRY WEATHER SHAPING

At any time of year, 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.

4-59 EXISTING ASPHALT ROAD SAWCUT

On the following road(s), the asphalt surface shall be saw cut before removing for culvert removal and installation. During the reshaping process, asphalt shall be end-hauled to Dry Creek Pit as designated by DNR engineer.

Road	<u>Stations</u>	
H-1000	31+95 – 32+15	
H-1000	72+06 – 72+12	

SUBSECTION COMPACTION

4-60 FILL COMPACTION

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

4-61 SUBGRADE COMPACTION

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

4-62 DRY WEATHER COMPACTION

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

4-63 EXISTING SURFACE COMPACTION

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

4-64 WASTE MATERIAL COMPACTION

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

4-65 CULVERT BACKFILL COMPACTION

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

4-66 COMPACTION BY METHOD

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

SECTION 5 – DRAINAGE

5-1 REMOVAL OF SHOULDER BERMS

On the following road(s), berms shall be removed from road shoulders to permit the escape of runoff. Material shall be disposed of in accordance with Clauses 4-35 through 4-38. The construction of ditchouts will be required where ponding will result from the effects of sidecast debris.

Road	<u>Stations</u>
H-1800	As Directed by C/A

5-3 PUNCHEON PLACEMENT

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

<u>Road</u>	<u>Stations</u>
27+80 Loop	0+00 – 3+00

5-4 PUNCHEON RESTRICTED

At no time shall puncheon be used in the subgrade, unless approved by the Contract Administrator or as listed in Clause 5-3.

SUBSECTION CULVERTS

5-5 CULVERTS

Culverts shall be installed as part of this contract. Culverts shall be installed concurrently with subgrade work and shall 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 shall be adjusted to fit as-built conditions and shall not terminate directly on unprotected soil. Culverts shall be new and meet the material specifications in Clauses 10-15 through 10-24.

5-6 USED CULVERT MATERIAL

The Purchaser may install used culverts on the following roads. All other roads shall have new culverts installed.

Road	<u>Stations</u>
H-1520	7+70
H-1617	0+05

5-7 TEMPORARY STREAM CULVERT INSTALLATION

On the following roads, temporary stream culverts shall be located in the natural channel of the stream. Temporary culverts shall be installed as shown in the Type Ns Np Detail and Temporary Log Fill Stream Crossing Detail. Temporary culverts shall be removed as directed by the Contract Administrator.

Road	<u>Stations</u>
H-1520	7+70
H-1617	0+05

5-11 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the Culvert List and Rock List that are not installed shall become the property of the State. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-12 CONTINGENCY CULVERTS

The following culverts will be supplied by the Purchaser and will be available for installation on any road listed in the TYPICAL SECTION SHEET as directed by the Contract Administrator. Unused pipes will be located at Dry Creek Pit or as directed by C/A prior to contract expiration.

Road	<u>Size</u>
As Directed	3 culverts 18" x 30'
By C/A	

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

Installation shall be in accordance with the Typical Cross Drain Culvert Installation Detail, Typical Type Ns Np Culvert Installation Detail, the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures", and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe shall be installed in a manner consistent with the manufacturer's recommendations.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

Installation of culverts 30 inches in diameter and over shall be subject to written approval by the District Engineer or their designee before backfilling.

5-17 CROSS DRAIN SKEW AND SLOPE

Cross drains on road grades in excess of 3% shall 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. Where the cross drain is at the low point in the road, culverts shall not be skewed. Cross drain culverts shall 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 shall be installed with a depth of cover of not less than 18 inches of compacted depth over the top of the culvert at the shallowest point. Stream crossing culverts shall be installed with a depth of cover specified in the Engineer's design, Type Ns Np Typical Detail Sheet, or to the minimum depth recommended by the culvert manufacturer for the type of cover material over the pipe, whichever is greater.

SUBSECTION ENERGY DISSIPATERS

5-20 ENERGY DISSIPATERS

Energy dissipaters shall be installed to prevent erosion and are subject to approval by the Contract Administrator. Rock shall weigh at least 10 pounds and be placed by zero-drop-height method. Energy dissipater shall extend a minimum of ¾ foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet.

5-21 DOWNSPOUTS AND FLUMES

Downspouts and flumes longer than 10 feet shall be staked on both sides at maximum intervals of 10 feet with 6-foot heavy-duty steel posts or 1 $\frac{1}{2}$ " X $\frac{3}{16}$ " angle iron, and fastened securely to the posts with No. 10 galvanized smooth wire, or bolted using minimum $\frac{5}{16}$ " bolts and 2 washers per bolt, in accordance with the Culvert Installation Typical Details Page.

SUBSECTION CATCH BASINS, HEADWALLS, AND ARMORING

5-25 CATCH BASINS

Catch basins shall be constructed to resist erosion. Approximate dimensions are 1-2 feet deep, 1-2 feet wide, and 2-4 feet long.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Headwalls shall be constructed in accordance with the Typical Cross Drain Culvert Installation Detail at all cross drain culverts that specify the placement of rock. Rock used for headwalls shall consist of oversize or quarry spall material. Rock shall be placed on shoulders, slopes, and around culvert inlets and outlets. Rock shall not restrict the flow of water into culvert inlets or catch basins. No end dumping of rock is allowed.

5-27 ARMORING FOR STREAM CROSSING CULVERTS

At the following culvert(s), rip rap shall be set in place immediately following construction of the embankment. Rock shall be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the Typical Type Ns Np Culvert Installation Detail as directed by the Contract Administrator. Rock shall not restrict the flow of water into culvert inlets or catch basins. Rock shall be set in place by machine. Placement shall be by zero-drop-height method only. No placement by end dumping or dropping of rock shall be allowed.

Road	<u>Stations</u>	Rock Type
H-1000	72+10	Rip Rap as per plan

SECTION 6 - ROCK AND SURFACING

SUBSECTION ROCK SOURCE

6-2 ROCK SOURCE ON STATE LAND

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

<u>Source</u>	<u>Location</u>	Rock Type
North Winfield Pit	T27N R12W Sec35	Reject and 1.5" Crushed

Red Creek Pit	T27N R11W Sec34	Quarry Spalls, LL riprap
Dry Creek Pit	T26N R11W Sec15	Pit Run and 4" Jaw Run
Virginia Falls Pit	T27N R10W Sec32	Pit Run

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the Rock List may be obtained from the following existing stockpile(s) on state land at no charge to the Purchaser. Purchaser shall remove no more than 3,990 cubic yards of 1.5"minus crushed rock, unless authorized by the Contract Administrator.

<u>Source</u>	<u>Location</u>	Quantity (yd³)
North Winfield Pit	T27N R12W Sec35	4,050 yd ³
Red Creek Pit	T27N R11W Sec34	100 yd ³
Dry Creek Pit	T26N R11W Sec15	5,230 yd ³
Virginia Falls Pit	T27N R10W Sec32	410 yd ³

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the Rock List may be obtained from any commercial source at the Purchaser's expense. Rock sources will be subject to written approval by the Contract Administrator before their use.

SUBSECTION ROCK SOURCE DEVELOPMENT

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

All rock source development and use shall be in accordance with a written Rock Source Development and Reclamation Plan prepared by the State and included in this Road Plan. Rock source operations shall be conducted as directed by the Contract Administrator and in accordance with the plan. Upon completion of operations, the rock source shall be left in the condition specified in the Rock Source Development and Reclamation Plan, and approved in writing by the Contract Administrator. The Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the rock source.

6-12 ROCK SOURCE SPECIFICATIONS

Rock sources shall be in accordance with the following unless otherwise specified in Rock Source Development and reclamation plan:

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

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

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

SUBSECTION ROCK GRADATIONS

6-25 FINES

% Passing U.S. #40 sieve 100% % Passing U.S. #200 sieve 0%

The portion of aggregate retained on the No. 200 sieve may not contain more than 0.2 percent organic debris and trash. All percentages are by weight.

6-29 1 ½-INCH MINUS CRUSHED ROCK

% Passing 1 ½" square sieve
% Passing 1" square sieve
% Passing U.S. #4 sieve
% Passing U.S. #40 sieve
% Passing U.S. #200 sieve
100%
50 - 85%
30 - 50%
16% maximum
5% maximum

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

6-39 4-INCH JAW RUN ROCK

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

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

6-43 QUARRY SPALLS

% Passing 12" square sieve 100%

% Passing 8" square sieve 10% maximum

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

6-48 2 ½-FOOT MINUS ENGINEERED STREAMBED MATERIAL

% Passing 30" square sieve	80 - 95%
% Passing 12" square sieve	70 - 90%
% Passing 5" square sieve	40 - 60%
% Passing 1" square sieve	15 - 35%
% Passing U.S. #4 sieve	5 - 20%
% Passing U.S. #200 sieve	5% maximum

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

6-50 LIGHT LOOSE RIP RAP

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

At Least/Not More Than	<u>Weight Range</u>	<u>Size Range</u>
20% / 90%	300 lbs. to 1 ton	12"- 36"

6-52 OVERSIZE

% Passing 8" square sieve	100%
% Passing 4" square sieve	0%

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

6-53 REJECT

% Passing U.S. #4 sieve	100%
% Passing U.S. #200 sieve	100%

SUBSECTION ROCK MEASUREMENT

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

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

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

Subgrade drainage installation including grading and compaction, shall be completed and approved in writing by the Contract Administrator, before rock application.

6-71 ROCK APPLICATION

Rock shall be applied in accordance with the specifications and quantities shown on the Rock List. Rock shall be spread, shaped, and compacted full-width concurrent with rock hauling operations. Rock shall be compacted in accordance with Compaction List, in lifts not to exceed 6 inches.

6-72 ROCK APPLICATION AFTER HAULING

On the following road(s), upon completion of all hauling operations, Purchaser shall apply 1 ¹/₂" minus crushed rock in accordance with the quantities shown on the Rock List.

Road	<u>Stations</u>	Amount yd ³
H-1000	140+50 – 334+22	3880
H-1800	0+00 – 114+42	100
H-1060	0+00 – 13+63	20
H-1062	0+00 – 21+12	30

6-73 ROCK FOR WIDENED PORTIONS

Turnarounds, turnouts, and areas with curve widening shall have rock applied to the same depth and specifications as the traveled way.

6-78 ROCK FOR SPOT PATCHING

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

SECTION 7 – STRUCTURES

SUBSECTION SIGNS

7-2 SIGN INSTALLATION (NON-HIGHWAY)

The Purchaser shall be responsible for the purchase, installation, and maintenance of the following road signs. Signs shall be installed a minimum of 7 days before road closure. Signs shall be at least 2 feet in any direction and shall be orange with black lettering.

Road	<u>Station</u>	<u>Sign</u>
H-1000	16+50 and 54+47	Road Closure Detour Ahead
H-1000	72+05 and 73+50	Road Closure Detour Ahead
H-1500	0+00 and 18+70	Detour Ahead
OLD H-1500	20+30	Detour Ahead
H-1521	8+84	Detour Ahead
H-1600	0+25	Detour Ahead
H-1700	1+75	Detour Ahead

SUBSECTION STREAM CROSSING STRUCTURES GENERAL

7-5 STRUCTURE DEBRIS

The Purchaser shall ensure that debris from the installation or removal of structures does not enter any stream. Components removed from the existing structures(s) shall be

placed at designated site(s), as directed in writing by the Contract Administrator. The Purchaser is responsible for maintaining a clean jobsite, with all materials stored away from any high water mark or other area presenting a risk of the materials entering a stream. Debris entering any stream shall be removed immediately and placed in the site(s) designated for stockpiling or disposal. The Purchaser is responsible for retrieving all material carried downstream from the jobsite by the stream current.

7-6 STREAM CROSSING INSTALLATION

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

7-7 BANK PROTECTION FOR STREAM CROSSING STRUCTURES

Bank protection shall be designed and constructed to prevent the undermining of the structure.

SUBSECTION ACCEPTANCE

7-15 DRAWING AND CALCULATION REVIEW FOR ACCEPTANCE

The Purchaser shall prepare and submit three sets of complete design drawings and calculations for the superstructure and substructure, including footings, foundation and bank protection. All drawings and calculations shall be prepared, stamped, and signed by a Registered Professional Engineer in the State of Washington. The superstructure shall be designed by a Professional Structural or Civil Engineer licensed in the state of manufacture. Drawings can be in either electronic or hard copy form and shall be no smaller than 11" X 17" sheets.

Submittals shall be sent to:

Department of Natural Resources
Attn.: Bill Mehl
411 Tillicum Lane
Forks, WA 98331
360-640-2363
Bill.mehl@dnr.wa.gov

Reports and plans will be accepted or rejected within 10 working days of receipt. Delays in work because of the possibility of rejection, revision, and resubmittal of documents are deemed a risk of the Purchaser and shall not be the basis for claims of additional compensation. Within 15 working days of final acceptance, Purchaser shall submit three complete sets of final plans. Any omissions to the plans shall be the responsibility of the Purchaser to correct and resubmit a finalized set of plans.

7-16 STRUCTURE ACCEPTANCE

The District Engineer or their designee will inspect the structure upon delivery. Acceptance will be issued if the structure meets all specifications and certifications.

7-20 REQUIRED NOTIFICATION AND APPROVAL

Purchaser shall provide the District engineer or their designee 5 day notification prior to beginning road work on the H-1000, H-1520, and H-1617. Purchaser shall receive

approval for completed road work on the H-1000, H-1520, and H-1617 roads from the District engineer or their designee prior to log haul on those roads.

SUBSECTION BRIDGE MAINTENANCE

7-30 BRIDGE MAINTENANCE

On the following road(s), bridge maintenance, as listed below, is required as part of this contract. All old bridge material shall be removed from state land by the Purchaser before the termination of the contract.

Road	<u>Station</u>	Requirements	Detail Sheet
H-1000	All Bridges	Clean off all moss, organic matter, and dirt accumulations from all running surfaces.	N/A

SUBSECTION LARGE CULVERTS

7-55 LARGE CULVERT INSTALLATION

On the following road(s), Purchaser shall install large culverts as specified below. The installation of the culvert shall follow the appropriate detail sheet. Culvert designs shall meet or exceed the following specifications:

Road	H-1000	H-1000
<u>Station</u>	32+05	72+10
<u>Type</u>	Box Culvert	Pipe-arch
Material and Coating Type*	Aluminum	Aluminized steel
Span (in.)	120	64
Rise (in.)	58	43
Length (ft.)	40	30
Depth of Cover Material (ft.)	2.5	1.0
End design	N/A	N/A
<u>Corrugations</u>	yes	yes
<u>Gauge</u>		12
Detail Sheet	See Plan Sheets	See Plan Sheets

^{*} See Clause 10-15 Corrugated Steel Culvert or Clause 10-18 Corrugated Steel Structural Plate

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

Steel pipe, pipe arches, and structural plate culverts shall be installed according to the National Corrugated Pipe Association Installation Manual, and are subject to the inspection and approval of the Contract Administrator before placement and backfill. The latest edition of the NCSPA Installation Manual can be found at www.ncspa.org.

7-57 CULVERT SHAPE CONTROL

Purchaser shall monitor the culvert shape during backfill and compaction. Special attention shall be paid to maintaining the structure's rise dimensions, concentricity and smooth, uniform curvature. If compaction methods are resulting in peaking and/or deflection of the culvert, Purchaser shall, in consultation with the District Engineer or their designee, modify their compaction method to achieve the appropriate end-result. The National Corrugated Steel Pipe Association "Installation Manual for Corrugated Steel Pipe, Pipe Arches, and Structural Plate" includes guidance on how to monitor culvert shape control and recommends corrective actions to take when shape control problems arise.

7-58 MATERIAL INSIDE CULVERT

Purchaser shall furnish and install rock in accordance with detail sheets listed below and quantities in the Rock List. Rock shall be placed inside the following culvert(s) as specified in the detail sheets.

<u>Road</u>	<u>Station</u>	Detail Sheet Name
H-1000	32+05	Barred Entry Fish Pipe Install

SUBSECTION GATE CLOSURE

7-70 GATE CLOSURE

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

Road	Station	<u>Comment</u>
H-1800	0+00	Locked after work hours
		and on weekends

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

On the following road(s), Purchaser shall install sediment control structures as listed below.

Road	<u>Stations</u>	<u>Comments</u>
H-1000	141+00 – 141+40	Silt fences R
H-1800	35+20 – 35+50	Silt fences L

8-2 PROTECTION FOR EXPOSED SOIL

Purchaser shall furnish and evenly spread a 3-inch layer of hay to all exposed soils at stream culvert installations. Soils shall not be allowed to sit exposed during any rain event.

SUBSECTION REVEGETATION

8-15 REVEGETATION

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

8-16 REVEGETATION SUPPLY

All seed, mulch, hay, matting, etc. will be provided by the Purchaser.

8-17 REVEGETATION TIMING

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

8-18 PROTECTION FOR SEED

Purchaser shall provide a protective cover over the revegetated area. The protective cover may consist of, but not be limited to, such items as dispersed hay mulch 3" thick or jute matting.

8-19 ASSURANCE FOR SEEDED AREA

The Purchaser shall be responsible to ensure a uniform and dense crop of grass. The Purchaser shall reapply the seed and/or mulch in areas that have been damaged through any cause, before approval from the Contract Administrator. The Purchaser shall restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the seed and/or mulch at no additional cost to the state.

SUBSECTION SEED, FERTILIZER, AND MULCH

8-25 GRASS SEED

Purchaser shall evenly spread the seed mixture listed below on all exposed soils at a rate of 60 pounds per acre of exposed soil.

Seed S	<u>Species</u>	% by Weight
•	Perennial Ryegrass	40.00
•	Creeping Red Fescue	40.00
•	White Dutch Clover	10.00
•	Colonial Bentgrass	10.00

Grass seed shall 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

SECTION 9 - POST-HAUL ROAD WORK

SUBSECTION STRUCTURES

9-2 CULVERT REMOVAL FROM LIVE STREAM

On the following road(s), Purchaser shall remove existing culverts from live streams and leave the resulting channel open with excavation slope and excavated channel width as specified. Excavated material shall be end hauled to an approved waste area designated in Clause 4-37 Waste Area Location. Culvert removal from live streams shall be in accordance with the Detail Sheets.

Road	<u>Stations</u>	Excavated Channel Width	<u>Slope</u> <u>Ratio</u>	<u>Comments</u>
H-1520	7+70	6	1:1	Activity Timing Restriction applies
H-1617	0+10	3	1:1	Standard culvert removal, see detail sheet

9-3 REMOVAL OF CULVERT MATERIAL FROM STATE LAND

Culvert material removed from roads becomes the property of the Purchaser and must be removed from state land.

SUBSECTION POST-HAUL MAINTENANCE

9-5 POST-HAUL MAINTENANCE

Post-haul maintenance shall be performed in accordance with the Forest Access Road Maintenance Specifications and as specified below.

Road	<u>Stations</u>	Additional Requirements
All	All	Clean culverts, clean ditches, grade road shape and compact as directed by the Contract Administrator
H-1000	140+50 – 334+22	Apply post haul rock as per Clause 6-72. Clean bridge deck
H-1000	All Bridges	Perform maintenance as per Clause 7-30.
H-1800	0+00 - 114+42	Apply post haul rock as per Clause 6-72.
H-1060	0+00 - 13+63	Apply post haul rock as per Clause 6-72.
H-1062	0+00 – 21+12	Apply post haul rock as per Clause 6-72.

SUBSECTION POST-HAUL LANDING MAINTENANCE

9-10 LANDING DRAINAGE

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

9-11 LANDING EMBANKMENT

On all roads, landing embankments shall be sloped to original construction specifications.

SUBSECTION DECOMMISSIONING AND ABANDONMENT

9-20 ROAD DECOMMISSIONING

The following road(s) shall be decommissioned by the Purchaser before the termination of this contract.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
H-1520	0+00 – 16+15	Light
H-1617	0+00 – 4+04	Light

9-22 LIGHT DECOMMISSIONING

Decommissioning shall consist of:

- 1. Remove all culverts. Resulting back slopes shall be 1:1 or shallower for cross drains and 1.5:1, or as specified in approved drawings, for all live stream culvert removals. Material removed shall be placed on the roadbed and compacted, with slopes of 2:1 or shallower, or end-hauled to designated waste areas. Culverts removed shall become the property of the Purchaser and removed from State land.
- 2. Construct non-drivable water bars as directed by the Contract Administrator. On grades in excess of 3%, non-drivable water bars shall be skewed 30 degrees from the perpendicular of the road centerline.
- 3. Restore all ditchouts to drain water.
- 4. Repair or construct ditchlines.
- 5. Remove any berms, except as directed.
- 6. Restoration of natural stream channels across road prism, as directed by the Contract Administrator.
- 7. Removing all fill material as approved by the Contract Administrator.
- 8. All material from fill removals, culvert removals, and bridge removals shall be placed on roadbed and compacted, except that material listed in Clause 4-37.
- 9. Purchaser shall furnish and apply grass seed to all areas of exposed soil, including but not limited to: water bars, waste piles, and culvert removal sites. Grass seed shall be applied at a rate of 60 pounds per acre.
- 10. Block road to vehicular traffic using logs, slash, and stumps, as directed by the Contract Administrator.

SECTION 10 MATERIALS

SUBSECTION GEOTEXTILES

10-6 GEOTEXTILE FOR TEMPORARY SILT FENCE

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

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

SUBSECTION CULVERTS

10-15 CORRUGATED STEEL CULVERT

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

10-16 CORRUGATED ALUMINUM CULVERT

Aluminum culverts shall meet AASHTO M-196 (ASTM A-745) specifications.

10-17 CORRUGATED PLASTIC CULVERT

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

10-19 CORRUGATED ALUMINUM STRUCTURAL PLATE

Structural plate culverts shall be aluminum alloy meeting AASHTO M-219 (ASTM A-746) specifications.

10-20 FLUME AND DOWNSPOUT

Downspouts and flumes shall meet the AASHTO specification designated for the culvert. Plastic downspouts and flumes shall be Type S – double walled with a corrugated exterior and smooth interior.

10-21 METAL BAND

Metal coupling and end bands shall meet the AASHTO specification designated for the culvert and shall have matching corrugations. On culverts 24 inches and smaller, bands shall have a minimum width of 12 inches. On culverts over 24 inches, bands shall have a minimum width of 24 inches.

10-22 PLASTIC BAND

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

10-23 RUBBER CULVERT GASKETS

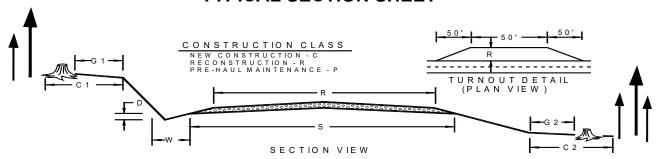
Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands.

10-24 GAGE AND CORRUGATION

Metal culverts shall conform to the following specifications for gage and corrugation as a function of diameter.

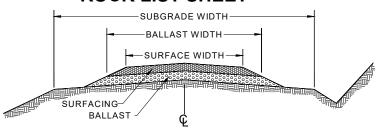
<u>Diameter</u>	<u>Gage</u>	<u>Corrugation</u>
18"	16 (0.064")	2 ² / ₃ " X ¹ / ₂ "
24" to 42"	14 (0.079")	2 ² / ₃ " X ¹ / ₂ "
48" to 54"	12	5" X 1"
60" +	10	5" X 1"

TYPICAL SECTION SHEET



ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	CROWN AT CL (in)	БІТСН WIDTH (W)	DITCH DEPTH (D)	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (C1)	ROAD FILL CLEARING (C2)
H-1000	0+00	334+22	Р		16'	3"	3'	1'				
H-1500	0+00	18+70	Р		14'	3"	3'	1'				
OLD H-1500	0+00	20+30	Р		14'	3"	3'	1'				
H-1520	0+00	16+45	Р		14'	3"	3'	1'				
H-1520	7+00	8+00	R	17'	12'	3"	3'	1'	5'	5'	10'	5'
H-1521	0+00	8+84	Р		14'	3"	3'	1'				
H-1600	0+00	0+25	Р		14'	3"	3'	1'				
H-1617	0+00	4+04	R	17'	12'	3"	3'	1'	5'	5'	10'	5'
H-1700	0+00	1+75	Р		14'	3"	3'	1'				
H-1060	0+00	13+63	Р		14'	3"	3'	1'				
H-1061	0+00	20+38	Ρ		14'	3"	3'	1'				
H-1062	0+00	39+55	Р		14'	3"	3'	1'				
H-1062.1	0+00	14+64	Р		14'	3"	3'	1'				
H-1800	0+00	114+42	Р		14'	3"	3'	1'				
H-1810	0+00	13+60	Р		14'	3"	3'	1'				
H-1820	0+00	2+60	Р		14'	3"	3'	1'				
H-1066	0+00	9+61	Р		14'	3"	3'	1'				
Virginia Fall Pit	0+00	16+55	Р		14'	3"	3'	1'				
H-1009	0+00	32+68	Р		14'	3"	3'	1'				
27+80 Loop	0+00	3+00	С	17'	12'	3"	3'	1'	5'	5'	10'	5'

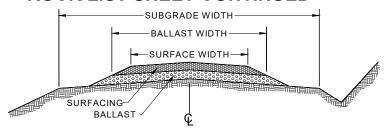
ROCK LIST SHEET



SECTION VIEW

- 1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
- 2. All depths are compacted depths.
- 3. Rock slopes shall be $1\frac{1}{2}$ (H): 1 (V).
- 4. All rock sources are subject to approval by the Contract Administrator.
- 5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ¼" minus to 4" minus per Line 6. Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.

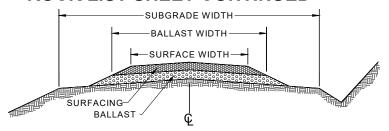
ROAD NAME	START STATION	END STATION	(#) HIUM SUNCE WILLE		Pitrun WID I H (ft)	Pitrun DEP I H (in)	Pitrun Quantitv(vd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity	Crushed Subtotal(yd³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantity(yd³)
H-1000															
Misc	140+50	334+22	5					200							
Culvert Replace	31+85	32+25		;5				140;40	2				35	3;4	90;20
Culvert Replace	72+05	72+25	5					30	2				40		
Ditch out	141+55								6				10		
Landing	195+75		5					30							
Landing	202+95		5					30							
Landing	209+55		5					30							
Landing	221+10		5					30							
Landing	224+22		5					30							
Landing	228+62		5					30							
Spot Patch	292+16		7					20							
Turnaround	321+15		7					30							
Post-Haul	140+50	334+22							2	12	4	20	3880		
H-1500															
Misc	0+00	18+70	5					50							
H-1500 OLD															
Misc	0+00	20+30	5					100							
H-1520															
Lift	0+00	16+45							2	12	6	35	580		
Totals:								790					4545		110



SECTION VIEW

- 1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
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- 4. All rock sources are subject to approval by the Contract Administrator.
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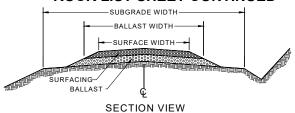
ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed	Crushed Subtotal(yd³)	Oversize/ Rip rap	Oversize/Rip Rap Quantitv(vd³)
H-1520															
Temp Culvert	7+70								6				20		
H-1521															
Misc	0+00	8+84		5				110							
H-1600															
Misc	0+00	0+25		5				10							
H-1617															
Lift	0+00	4+04							2	12	12	70	280		
Culvert	0+10								6				20		
Intersection	0+00			5				50							
Intersection	4+04			5				50							
H-1700															
Misc	0+00	1+75		5				30							
H-1060															
Misc	0+00	13+63		5				20							
Post-Haul	0+00	13+63							2				20		
H-1061															
Lift	0+00	20+38		5	12	6	35	700							
H-1062															
Misc	0+00	21+12		5				100							
Lift	21+12	39+55		5	12	6	35	700							
Totals:								1770			-	-	340		



SECTION VIEW

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- 4. All rock sources are subject to approval by the Contract Administrator.
- 5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ¼" minus to 4" minus per Line 6. Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.

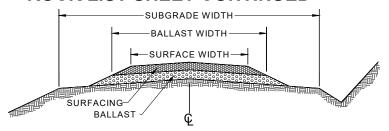
ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed	Crushed Subtotal(yd³)	Oversize/ Rip rap	Oversize/Rip Rap Quantity(yd³)
H-1062															
Culvert Install	35+47								6				30		
Post-Haul	0+00	21+12							2				30		
H-1800															
Lift	0+00	114+42							6	12	4	20	2280		
Culvert Replace	0+05								6				40		
Landing	7+10								6				20		
Landing	17+10								6				20		
Culvert Replace	19+10								6				20		
Landing	26+50								6				20		
Culvert Install	35+90								6				20		
Landing	36+25								6				40		
Spot Patch	38+00								6				30		
Culvert Install	41+93								6				30		
Culvert	43+06								6				30		
Landing	54+40								6				30		
Culvert Replace	55+45								6				30		
Landing	57+95								6				30		
Landing	75+04								6				30		
Landing	78+90								6				30		
Totals:													2760		



- 1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
- 2. All depths are compacted depths.
- 3. Rock slopes shall be 1½ (H): 1 (V).
- 4. All rock sources are subject to approval by the Contract Administrator.
- 5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from 1/4" minus to 4" minus per Line 6.
- Oversize is defined as oversize, quarry spalls, light loose rip rap, or heavy loose rip rap per Line 6.

 6. Rock sources= 1: North Winfield Pit Reject, 2: North Winfield Pit 1.5" Crushed, 3: Red Creek Pit 2' Spalls, 4: Red Creek Pit LL Riprap, 5: Dry Creek Pit Pitrun, 6: Dry Creek Pit 4" Jawrun, 7: Virginia Falls Pit Pitrun

ROAD NAME	START STATION	END STATION	SIIBGBADE WIDTH	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Ouantitv(vd³/cta)	Pitrun SUBTOTAL(vd³)	Crushed SOURCE	Crushed WIDTH	Crushed DEPTH	Crushed	Crushed Subtotal(yd³)	Oversize/ Rip Rap Source	Oversize/Rip Rap Quantity(yd³)
H-1800															
Culvert Replace	85+56								6				30		
Landing	88+55								6				30		
Landing	96+00								6				30		
Culvert Replace	99+10								6				20		
Landing	103+85								6				30		
Culvert Replace	104+10								6				20		
Post-Haul	0+00	114+42							2				100		
H-1810															
Lift	0+00	13+60							6	12	10	55	750		
Culvert Replace	0+05								6				20		
Landing	4+95								6				30		
Landing	13+60								6				30		
H-1820															
Lift	0+00	2+10							6	12	6	35	75		
Culvert Replace	0+05								6				20		
Culvert Replace	0+65								6				20		
Landing	2+10								6				30		
1+35 Spur															
Lift									6	12	8	45	60		
Landing									6				30		
H-1066															
Lift	0+00	10+65		7	12	12	70	680							
Culvert Install	0+05								6				30		
Culvert Install	4+45								6				20		
Totals:								680					1375		



SECTION VIEW

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ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	Pitrun SOURCE	Pitrun WIDTH (ft)	Pitrun DEPTH (in)	Pitrun Quantity(yd³/sta)	Pitrun SUBTOTAL(yd³)	Crushed SOURCE	Crushed WIDTH (ft)	Crushed DEPTH (in)	Crushed Quantity (yd³/sta)	Crushed Subtotal(yd³)	Oversize/ Rip rap Source	Oversize/Rip Rap Quantitv(vd³)
H-1066 Culvert Install	7+45								6				20		
Landing	9+65								6				30		
Turnaround	9+65								6				50		
H-1009	0.00												- 00		
Misc	0+00	32+68		7				50							
Culvert Install	25+30	0_ 00		7				30							
27+80 Loop															
Lift	0+00	3+00		7	12	18	110	330							
0+80 Spur															
Misc	0+00	0+80		5				30							
H-1062.1															
Lift	0+00	14+64		5	12	6	35	515							
Culvert Install									6				20		
Contingency									6				60		
Culverts															
-								055					100		
Totals:								955					160		

ROCK LIST SHEET GRAND TOTAL

Source	Quantity (yd³)
1: North Winfield Pit Reject	60
2: North Winfield Pit 1.5" Crush	4,965
3: Red Creek 2' Spalls	90
4: Red Creek Pit LL Riprap	20
5: Dry Creek Pit Run	2,915
6: Dry Creek Jaw Run 4"	4,205
7: Virginia Falls Pit Run	1,090

CULVERT LIST

				JUL		:KI	LIST		
ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	DOWNSPOUT LENGTH (ft)	RIP RAP - INLET (cy)	RIP RAP – OUTLET (cy)	BACKFILL MATERIAL	NOTES
H-1000*	32+05	4'10"x10'	40			30	30	JR	Aluminum Box Culvert Replacement for Fish Pipe
H-1000*	72+10	54" (64"x43")	30			20	20	JR	Squash Pipe
H-1520*	7+70	36	40						Temp Culvert Install
H-1617*	0+10	24	40						Temp Culvert Install
H-1066	0+05	24	40					JR	Cross-drain Culvert Install
H-1066	4+45	18	30					JR	Cross-drain Culvert Install
H-1066	7+45	18	30					JR	Cross-drain Culvert Install
H-1009	5+00	18	30						Culvert Maint, Clean Inlet, and outlet
H-1009	9+65	18	30						Culvert Maint, Clean Inlet, and outlet
H-1009	13+05	18	30						Culvert Maint, Clean Inlet, and outlet
H-1009	25+30	24	30						Cross-drain Culvert Install
H-1062.1	9+70	18	30					JR	Cross-drain Culvert Install
H-1062	35+47	18	30					JR	Cross-drain Culvert Install
H-1800*	0+05	36	30					JR	Culvert Replacement
H-1800	9+00	18	30						Culvert Maint, Clean Inlet
H-1800*	12+15	18	30	30					Culvert Maint. Clean Inlet, replace flume
H-1800*	16+05	18	30						Culvert Maint, Clean Inlet
H-1800*	19+10	24	30					JR	Culvert Replacement
H-1800*	21+10	24	30						Culvert Maint, Clean Inlet
H-1800*	22+90	18	30						Culvert Maint, Clean Inlet
H-1800	23+10	24	30						Culvert Maint, Clean Inlet
H-1800	23+35	18	30						Culvert Maint, Clean Inlet
H-1800	26+28	18	30						Culvert Maint, Clean Inlet
H-1800*	32+85	36	30						Culvert Maint, Clean Inlet
H-1800	35+90	18	30					JR	Cross-drain Culvert Install
H-1800	36+90	24	30						Culvert Maintenance

CULVERT LIST Continued

ROAD NAME	STATION	CULVERT DIAMETER (in)	CULVERT LENGTH (ft)	FLUME LENGTH (ft)	DOWNSPOUT LENGTH	RIP RAP - INLET (cy)	RIP RAP – OUTLET (cy)	BACKFILL MATERIAL	NOTES
H-1800	38+60	18	30						Culvert Maintenance
H-1800*	41+93	24	50					JR	Culvert Install
H-1800*	43+06	24	50					JR	Culvert Install
H-1800	47+45	18	30						Culvert Maintenance
H-1800*	50+20	30	30						Culvert Maintenance
H-1800*	52+30	24	30						Culvert Maintenance
H-1800	55+45	18	40						Cross-drain Culvert Replacement
H-1800	67+80	18	30						Culvert Maintenance
H-1800*	73+67	18	30						Culvert Maintenance
H-1800*	77+35	18	30						Culvert Maintenance
H-1800*	85+56	36	40	30					Culvert and Flume Replacement
H-1800	92+75	24	30						Culvert Maintenance
H-1800	99+10	18	30						Cross-drain Culvert Replacement
H-1800	104+10	24	30						Cross-drain Culvert Replacement
H-1800	111+50	18	30						Culvert Maintenance
H-1810	0+05	12	40						Cross-drain Culvert Replacement
H-1820	0+05	12	40						Cross-drain Culvert Replacement
H-1820	0+65	18	30						Cross-drain Culvert Replacement
		4.5							
Contingency	XXX	18	30					JR	
Contingency	XXX	18	30					JR	
Contingency	XXX	18	30					JR	

All rip rap shall be Oversize unless specified in the Rock List, or in the field. All backfill shall be native material (NT) unless specified otherwise. CR= 1 $\frac{1}{4}$ "- crushed rock, PR = pit run JR = 4" Jaw Run. * = Typed Water.

Plans to be furnished by:	Sheet 1 of 5	NOTE: This app		Pit Work	ROAD DEACTIV	MOBILIZATION:	COST PER STATION:	TOTAL COSTS	OVERHEAD:	MISC. EXPENSES	STRUCTURES:	CULVERTS AND FLUMES		Oversize:		Surface:		Ballast:	ROCK TOTALS (Cu. Yds.)/ROCK CO	DITCH CLEANING/CONSTRUCTION:	ROAD GRADING	EXCAVATION AND FILL:	ROAD BRUSHING:	CLEARING AND GRUBBING	SIDESLOPE:	NUMBER OF STATIONS:	ROAD TYPE:	ROAD NAME:		SALE NAME: Barred Entry	
lished bu:		praisal has			VATIONAN	-	TATION:	Ñ		Ö		DFLUMES		6		260		13093	SPA maji	VG/CONST	טַ	NOFILL:	ğ	GRUBBI		TATIONS:				arred Entry	
		no allowan			AD ABANDO									₹		9,195		4,065		RUCTION:				ភ							
		This appraisal has no allowance for profit and risk.			ROAD DEACTIVATION AND ABANDONMENT COSTS:		1,296	3,888	417	ಹ	0	0	0	0	0	0	2,944	330	0	0	0	339	0	171	0.00%	ω	Construction	27+80 Loop	126KIIW/Sec11	CONTRACT#: 30-104801	
		risk.		*	87		4,824	4,824	439	2,520	0	1,170	0	0	0	0	648	33	0	0	21	0	27	0	0.00%	_	Recon.	H-1520	=	30-104801	MUS
					#	\$7,400	2,165	8,747	795	250	0	1,200	1,304	ē	컰	20	4,850	283	0	0	82	0	Ħ	0	2,00%	4	Recon.	H-1617			MARY - R
Compiled by:	Cost per Sta. =	Total Sta. =	Total Costs =	Road Standard Const.			349	116,724	8,646	2,953	87,000	0	816	88	375	50	7,843	620	0	0	9,091	0	0	0	0.00%	334	Prehaul	H-1000		REGION:	SUMMARY - Road Development Costs
o "	\$1,912.56	ω	\$5,737.69	Const.			49	925	23	109	0	0	0	0	0	0	360	5	0	0	38	0	0	0	2,000%	ថ	Prehaul	H-1500		Olympic	nt Costs
	\$3,059.58	5	\$15,420.30	Reconst.			67	1,359	ġ	13	0	0	0	0	0	0	719	100	0	0	421	0	0	0	0.00%	20	Prehaul	OLD H-1500			
	\$394.90	680	\$268,705.02	Prehaul			391	6,041	447	9	0	0	0	0	300	40	4,462	576	0	0	320	0	420	0	0.00%	여	Prehaul	H-1520		DISTRICT	
	\$86.92	680		Posthaul			88	710	53	52	0	0	0	0	0	0	423	50	0	0	18 3	0	0	0	0.00%	9	Prehaul	H-1521		DISTRICT: Olympic	
							972	243	ಹ	0	0	0	0	0	0	0	225	20	0	0	0	0	0	0	0.00%	0	Prehaul	H-1600			
	TOTA	_					184	321	24	0	0	0	0	0	0	0	298	30	0	0	0	0	0	0	0.00%	2	Prehaul	H-1700			
	L COIST PE	OTAL COST	SALEVOL	TOTAL			88	1,204	8	8	0	0	0	0	0	0	221	20	0	532	283	0	0	0	0.00%	4	Prehaul	H-1060			
Date:	TOTAL COST PER STATION=	TOTAL COST PERMBF =	SALE VOLUMEMBF =	TOTAL (All Roads) =			\$344	\$144,986	\$11,097	\$6,190	\$87,000	\$2,370	2,120	\$160		\$110		\$2,114		\$532	\$10,791	\$339	\$557	\$171	0.00%	421.18		TOTAL:			
Date: 01/00/00	\$326.45	\$54.97	6,303	\$346,477			303	194,092	14,864	5,271	0	16,841	\$0.00	0	\$1,860.00	150	\$132,589.04	10,979		10,911	11,270	0	487	0	0	640		SHEET #2-4	TOTAL		
														2		2	-	2													

\$49.73																
\$49.73									640.18	Stations 640.18						
\$49.73									Costs \$194,092	Costs						
\$49.73									Total							
	\$49.97	\$39.23	\$257.56	\$1,225.82	\$313.88	\$50.39	\$51.78	\$1,454.68	\$1,885.32	\$1,950.88	\$565.56	\$141.78	\$397.07	\$145.71	TATION:	COST PER STATION:
\$1,050.30	\$681.06	\$5,665.96	\$49,894.33 \$5,665.96	\$1,654.86	\$251.10	\$1,650.24	\$856.88	\$15,492.35	\$4,901.84	\$26,531.97	\$64,711.66	\$2,075.67	\$15,704.10	\$2,969.61	TS:	TOTAL COSTS
					+											
\$86.72	\$56.23	\$467.83	\$4,119.72	\$122.58	\$18.60	\$122.24	\$63.47	\$1,147.58	\$363.10	\$1,965.33	\$4,793.46	\$153.75	\$1,163.27	\$219.97		OVERHEAD:
\$123.55	\$79.74	\$844.86	\$1,133.26	0	0	\$72.00	\$0.00	\$1,636.56	0	0	\$1,149.36	0	\$231.37	\$0.00	ES:	MISC. EXPENSES
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.,	STRUCTURES:
0	0	0	0	0	0	780	0	2,760	1,020	240	10,360	780	900	0	D FLUMES:	CULVERTS AND FLUMES
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ď	Oversize:
0	0	0	0	0	0	0	0	\$1,860.00	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	C	Surface:
\$402.00	\$262.40	\$1,358.00	\$40,623.60	\$1,495.56	\$232.50	\$676.00	0	\$8,087.80	\$3,417.34	\$23,796.24	\$41,573.60	0	\$9,504.00	\$1,160.00		
30	20	100	3,880	91	30	80	0	742	219	1,578	3,310	0	800	100		Ballast:
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ROCK TOTALS (Cu. Yds.)/ROCK COS	ROCK TOTAL:
0	0	0	0	0	0	0	0	0	\$101.40	\$530.40	\$4,462.38	\$1,141.92	\$3,084.90	N: \$1,589.64	DITCH CLEANING/CONSTRUCTION:	DITCH CLEAN
\$438.03	\$282.69	\$2,995.27	\$4,017.75	0	0	0	\$343.25	0	0	0	\$2,373.07	0	\$820.27	0	NG:	ROAD GRADING:
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	AND FILL:	EXCAVATION AND FILL:
0	0	0	0	\$36.72	0	0	\$450.16	0	0	0	0	0	0	0	ING:	ROAD BRUSHING:
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ID GRUBBING:	CLEARING AND GRUBBING
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		SIDESLOPE:
21	14	144	194	_	-	쓚	17	=	w	14	114	15	40	20	TATIONS:	NUMBER OF STATIONS
Posthaul	Posthaul Posthaul		Posthaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul	Prehaul		ROAD TYPE:
H-1062	H-1060	H-1800	H-1000	0+80 Spu 1+35 Spur)+80 Spu	i H-1009	ua Falls Pi	H-1066	H-1820	H-1810	H-1800	H-1062.1	H-1062	H-1061		ROAD NAME:
													Sec11	1: T26R11W Sec11	LEGAL DESCRIPTION:	
						Olympic	DISTRICT: Olympic			Olympic	REGION: Olympic		30-104801	2	Barred Entry C	SALE NAME:
										nent Costs	SUMIMAKY - Koad Development Costs	KY - Koac	SUMMA			

FISH STREAM WORK PROVISIONS

- 1. TIMING LIMITATIONS: The fish culvert project may begin July 1 and shall be completed by September 30.
- 2. Work shall conform to plans and specifications in the road plan.
- 3. Prior to the commencement of in-stream work, the Purchaser shall isolate the work area in a manner that fish cannot enter the work area, capture and safely move fish and other fish life from the work area. The Purchaser shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water downstream of the work area.

TEMPORARY STREAM FLOW BYPASS

- 4. All in-stream work shall be conducted in the dry or in isolation from the stream flow by the installation of a bypass flume/pipe or by pumping the flow around the work area, back into the stream below the work area. Waste water pumped from within the work area shall terminate on the forest floor, sufficient distance from the stream to filter sediment prior to entering the stream.
- 5. The temporary bypass to divert flow around the work area shall be in place prior to initiation of other work in the wetted perimeter.
- 6. A sandbag revetment or similar device shall be installed at the bypass inlet to divert the entire flow through the bypass.
- 7. The bypass shall be of sufficient size to pass all flows and debris for the duration of the project.
- 8. If a pump is used for diverting water from the stream where fish are present, as per RCW 77.57.010 and 77.57.070, the pump intake shall be equipped with a fish guard to prevent passage of fish into the diversion pump. The pump intake shall be screened with 1/8 inch mesh to prevent fish from entering the pump. Velocity through the screened intake shall be less than 0.4 feet per second. Screens shall be maintained to prevent injury or entrapment of juvenile fish.

WATER QUALITY

9. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

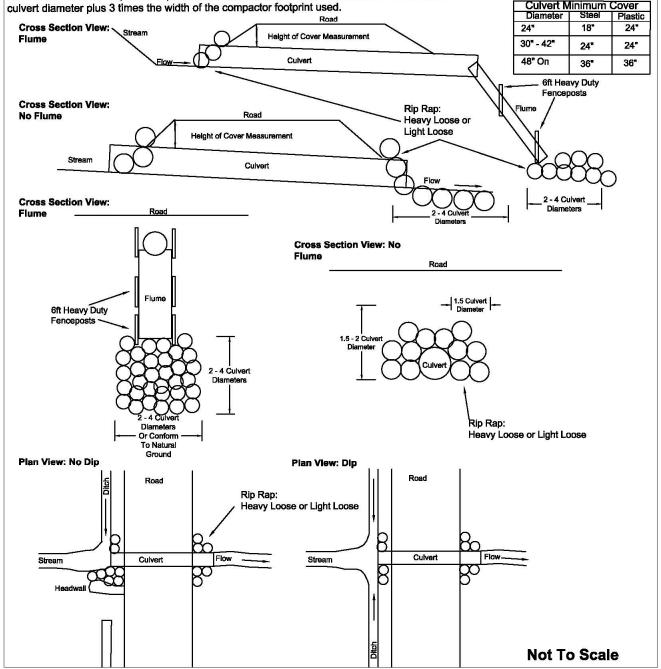
COMPACTION LIST

Road	Stations	Туре	Max Depth per Lift (In)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
Construction	All	Culvert Backfills	6	Jumping Jack	N/A	3	N/A
Construction	All	Subgrade, Embankment	6				
Construction	All	Rock Placement	6	\/ibroton/			
Pre-haul Maintenance	All	Existing Pre-haul Surface	6	Vibratory Smooth Drum	6,000	3	3
Pre-haul Maintenance, Post-haul Maintenance	All	Rock Lifts	6	Roller			
Pre-haul Maintenance	All	Culvert Backfills	6	Jumping Jack	N/A	3	N/A
Waste Areas	See Clause 4-37	Waste Material	24	Excavation Equipment	See	Clause 4	4-39

Typical Type Ns, Np Culvert Installation Detail Sheet.

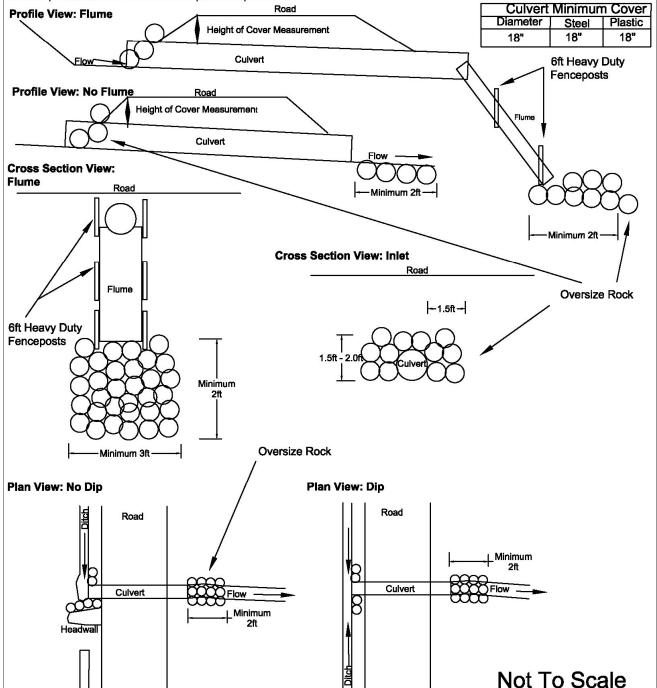
- -Water shall be diverted away from the work site before any "in stream" work begins, and shall continue until culvert installation is complete.
- -Culvert lay shall match stream gradient up to 5%.
- -Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.
- -Rip rap shall be placed using a "zero height drop method", and shall be set in conjunction with the culvert installation.
- -Rip rap shall be placed at headwalls, along the fill at the inlet, and at the end off flumes in accordance with this Detail. On culverts with no flume rip rap shall be placed along the fill at the outlet, unless there is stream drop or it is called for in the Road Plan, at which point it will be installed as an energy dissipater at the end of the culvert as specified in this Detail. All rip rap distance to be determined by the Contract Administrator or the District Engineer.

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

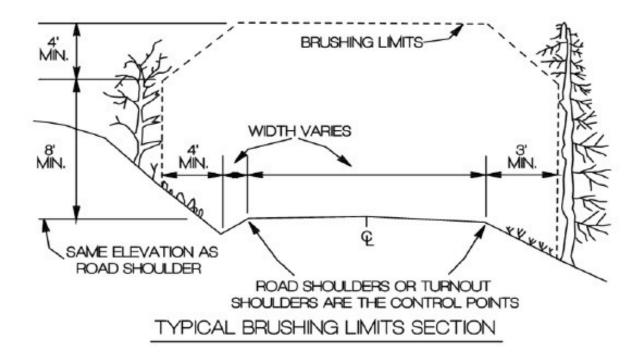


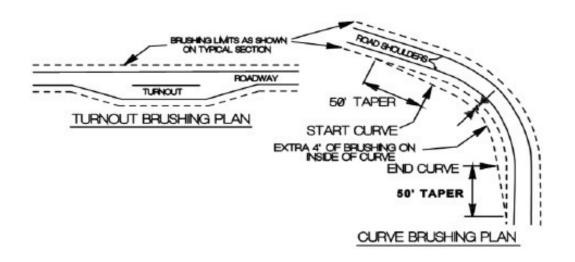
Typical Cross Drain Culvert Installation Detail Sheet

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

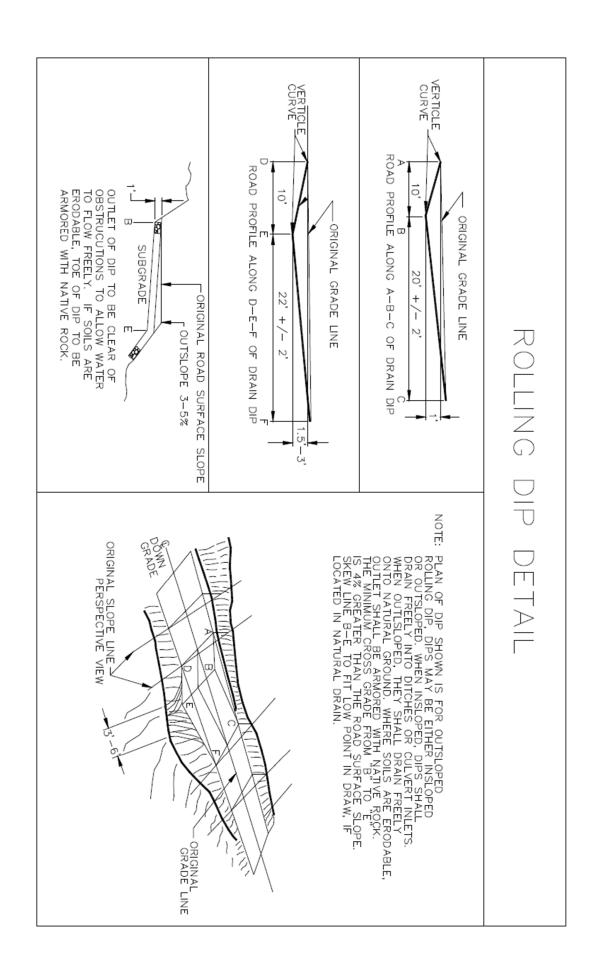


BRUSHING DETAIL

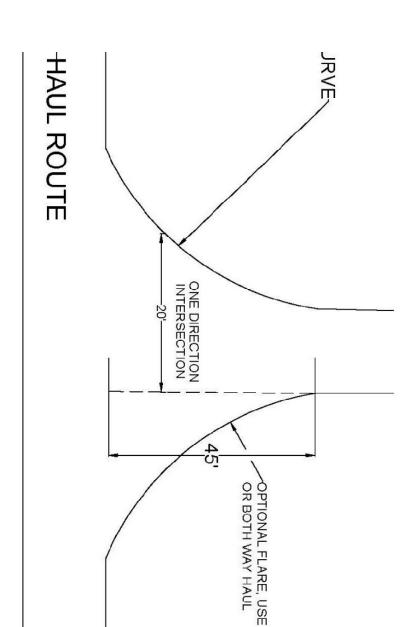




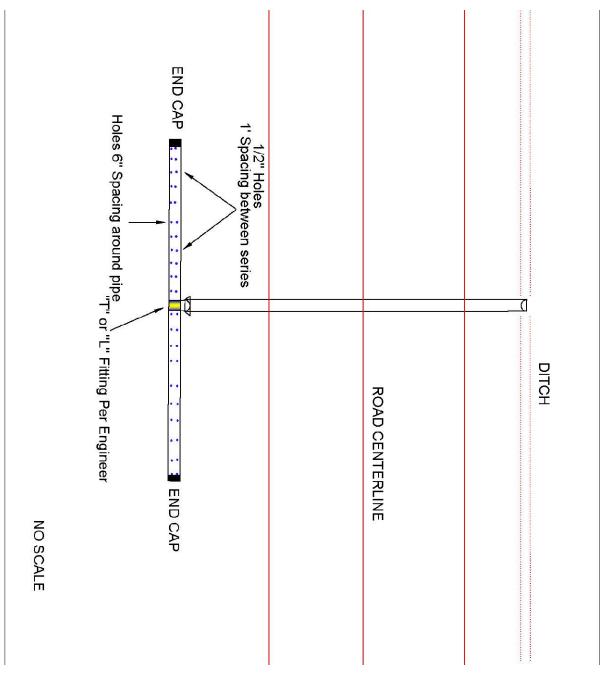
- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8" OF THE
- GROUND, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.
 2) ALL BRUSH, TREES, LIMBS, ETC. SHALL BE REMOVED FROM THE ROAD SURFACE.
- 3.) ALL BRUSH, TREES, LIMBS, ETC. THAT MAY RESTRICT THE FLOW OF WATER SHALL BE REMOVED FROM THE DITCH LINE.
- 4) ALL DEBRIS THAT MAY ROLL OR MIGRATE INTO THE DITCHLINE SHALL BE REMOVED.



TYPICAL INTERSECTION

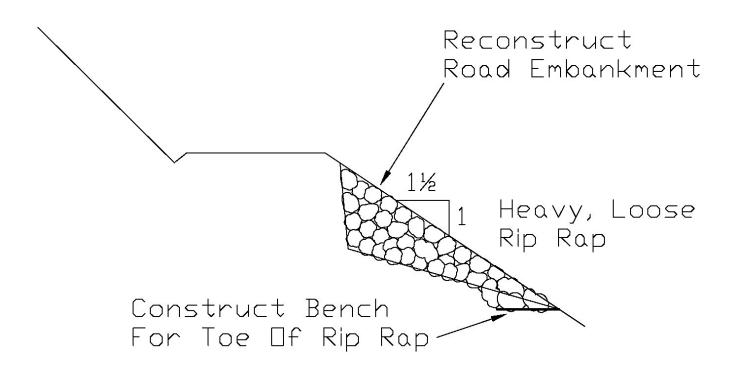


NOT TO SCALE



Typical Embankment Key Detail

Except where designed otherwise, road reconstruction with rip rap keyed toe and embankment.



FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Cuts and Fills

- Maintain slope lines to a stable gradient compatible with the cut slope/fill slope ratios.
 Remove slides from ditches and the roadway. Repair fill-failures in accordance with Clause 4-6 Embankment Slope Ratio, and with 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 culvert headwalls to a level slightly below the road shoulder with material that will resist erosion. This is to allow for culverts that are overtopped to keep the water in the ditchline.
- Maintain energy dissipaters at culvert outlets with non-erodible material or rock.
- Keep ditches, culverts, and other drainage structures clear of obstructions and functioning as intended.
- Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This shall be done even during periods of inactivity.

Preventative Maintenance

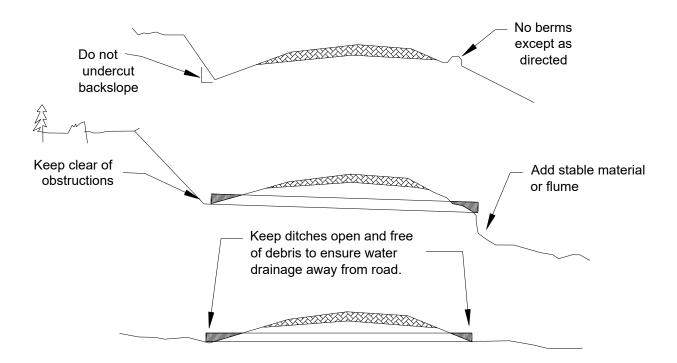
Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

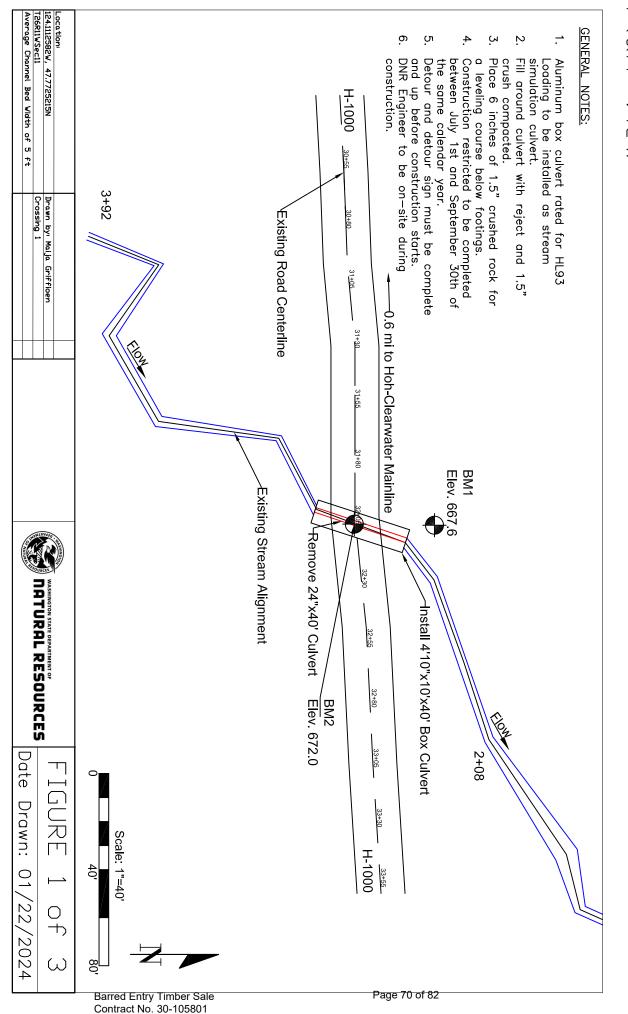
At the conclusion of logging operations, ensure all conditions of these specifications have been met.

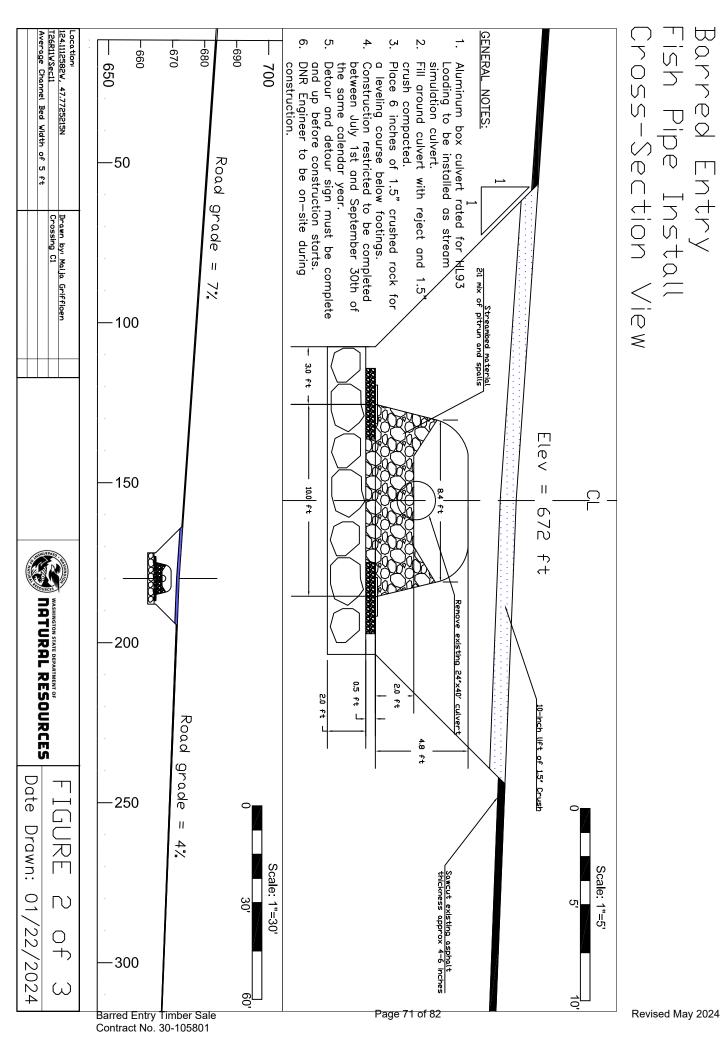
Debris

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



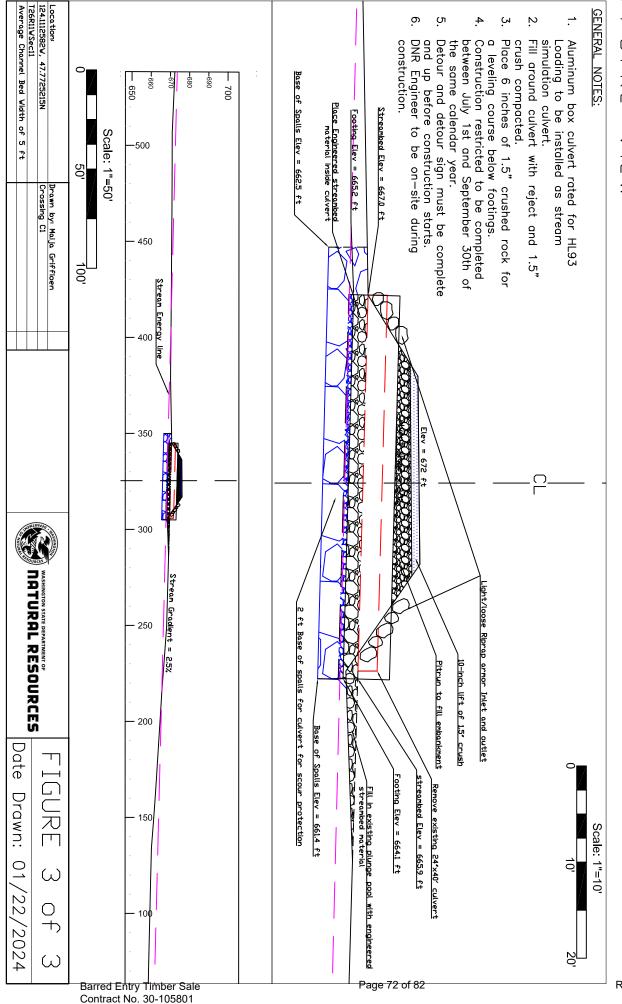
Barred Entry Fish Pipe Install Sta 32+05 Plan View



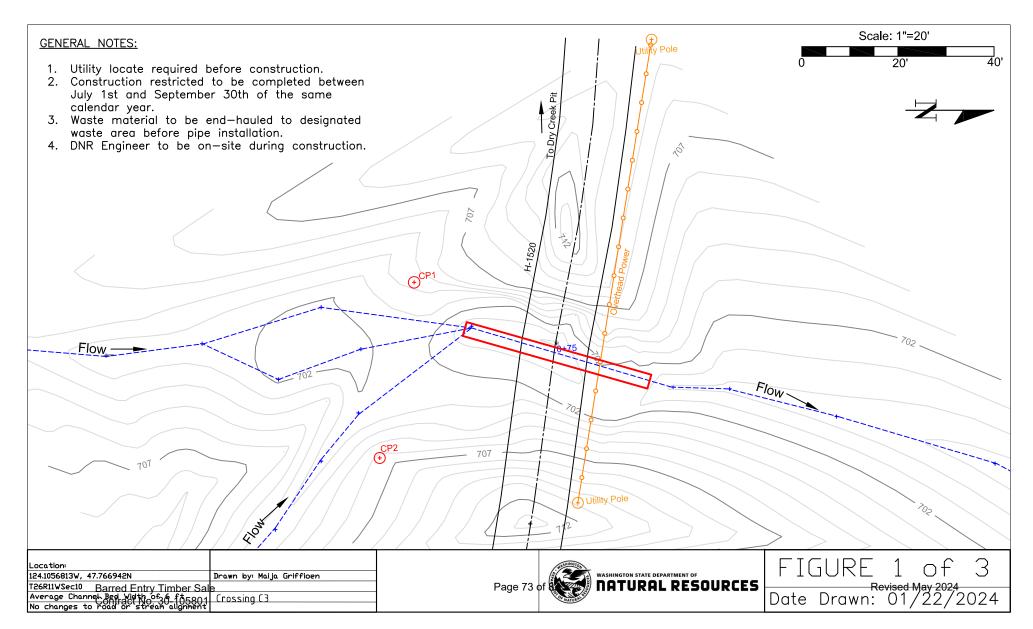


Barred Entry

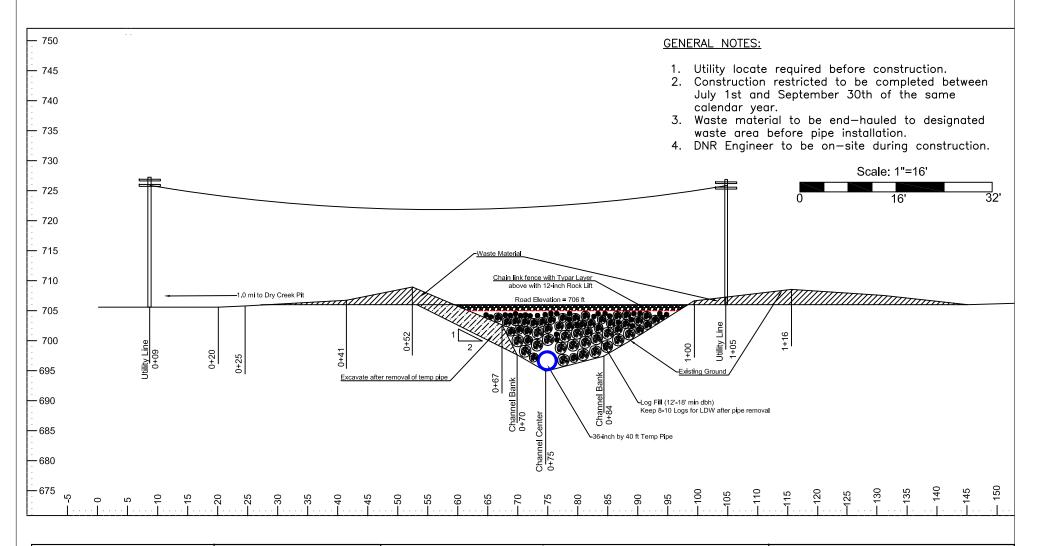
Barred Entry Fish Pipe Install Profile View



Barred Entry Dry Creek Temporary Crossing Plan View



Barred Entry Dry Creek Temporary Crossing Cross-Section View



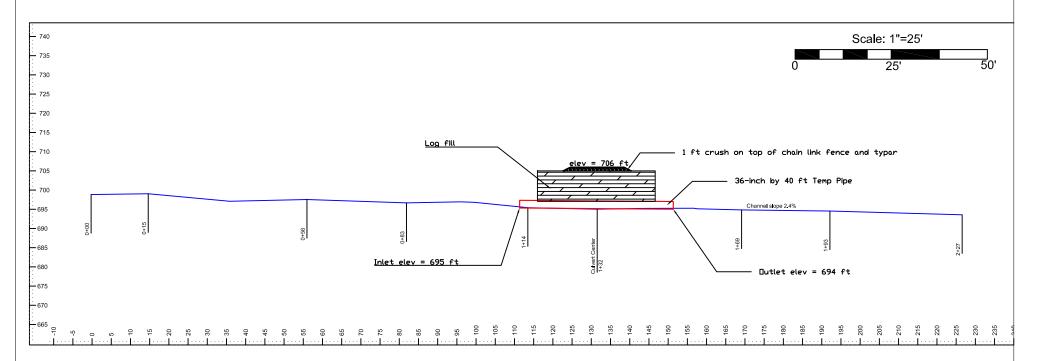
Location:	
124.1056813W, 47.766942N	Drawn by: Maija Griffioen
T26R11WSec10	
Average Channela Beeld Withth voting 15th Sale	Crossina C3
No changes to rough on Eltream allamment	3



Barred Entry Dry Creek Temporary Crossing Profile View

GENERAL NOTES:

- 1. Utility locate required before construction.
- 2. Construction restricted to be completed between July 1st and September 30th of the same calendar year.
- 3. Waste material to be end—hauled to designated waste area before pipe installation.
- 4. DNR Engineer to be on-site during construction.



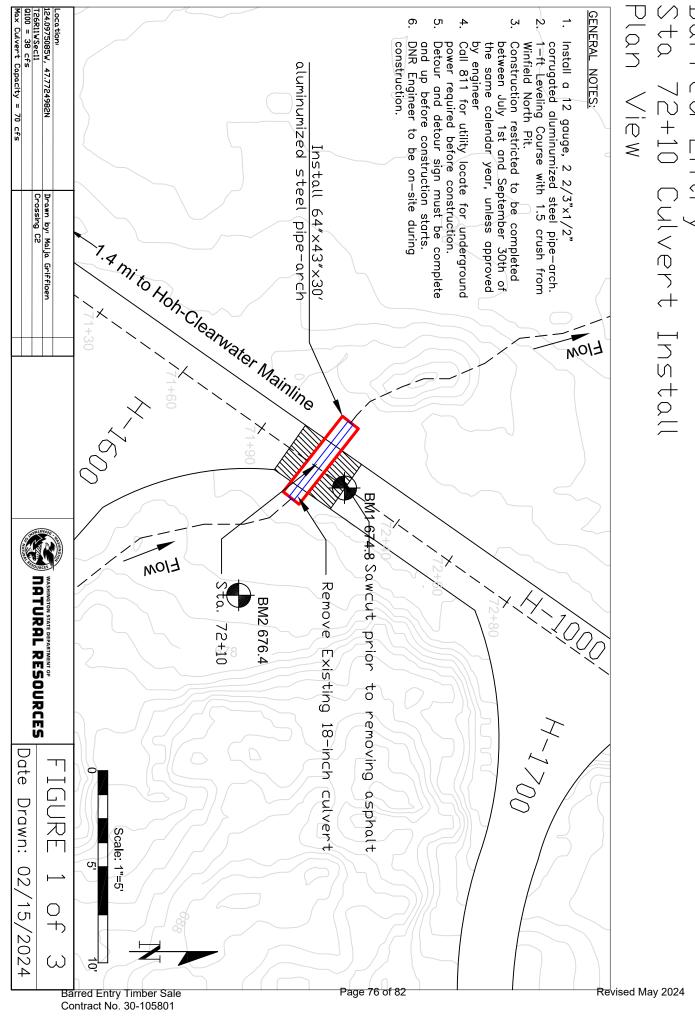
Location:	
124.1056813W, 47.766942N	Drawn by: Maija Griffioen
T26R11WSec10 Average Channel Barred Hothy of imper Sale No changes to Cold art stream algebrate	Crossing C3



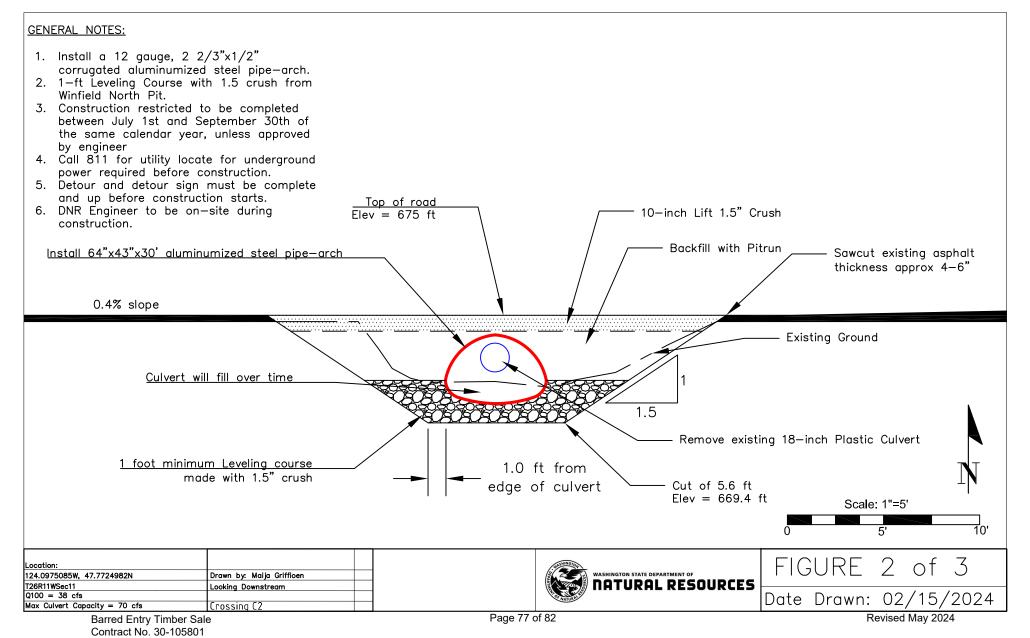
FIGURE 3 of 3

Date Drawn: 01/22/2024

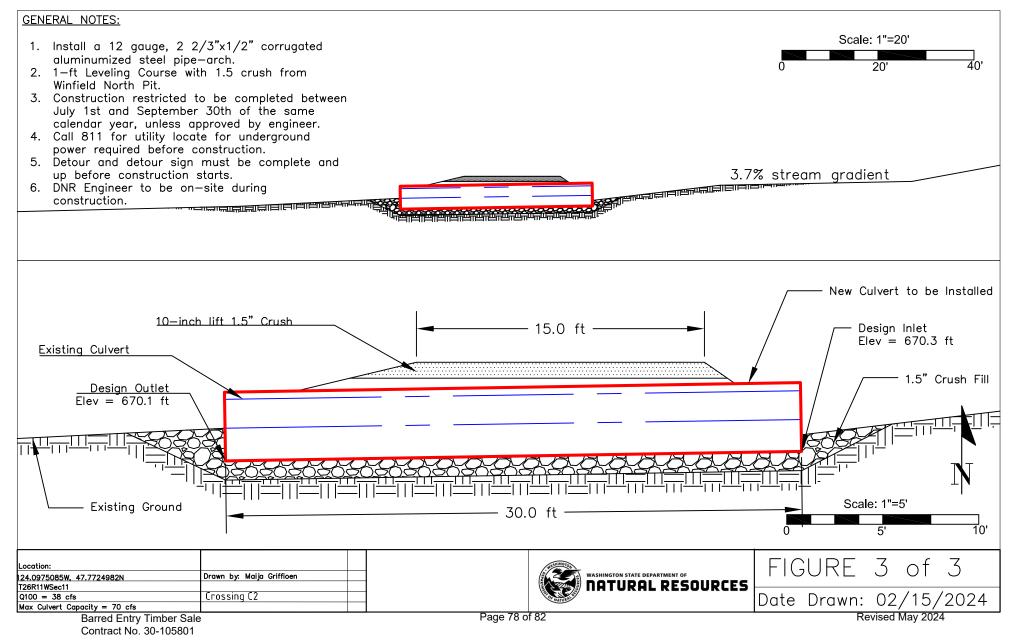
Barred Entry Sta 72+10 Cul Culvert Install

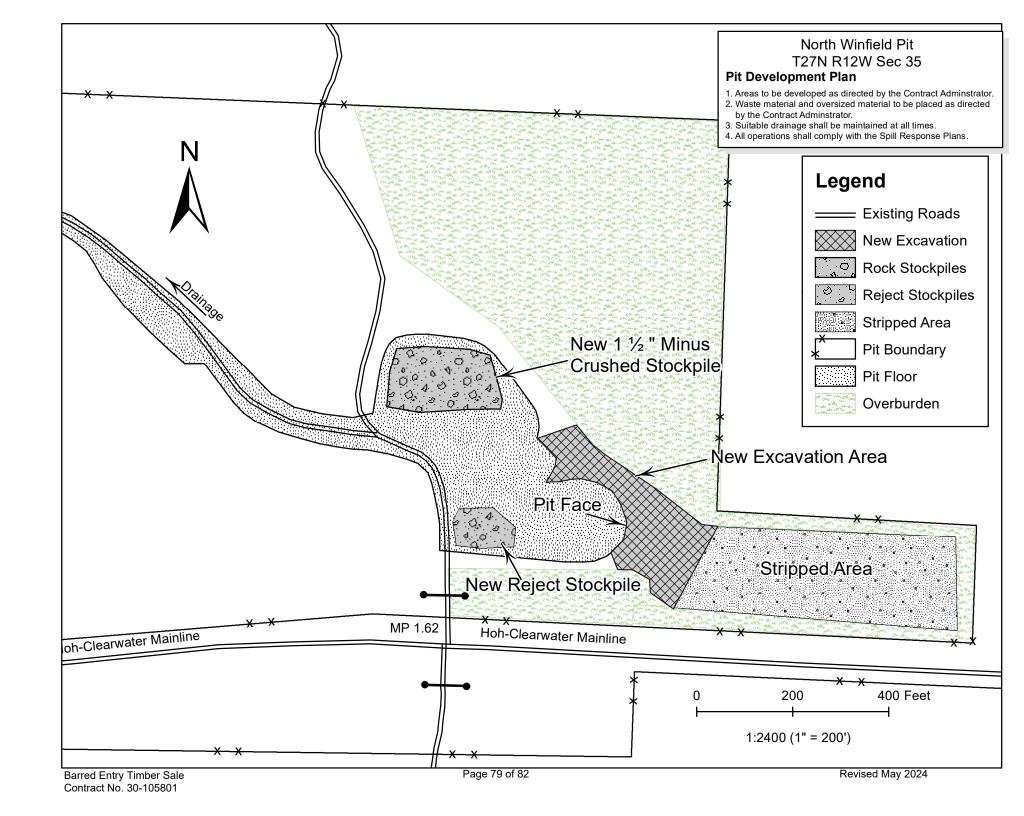


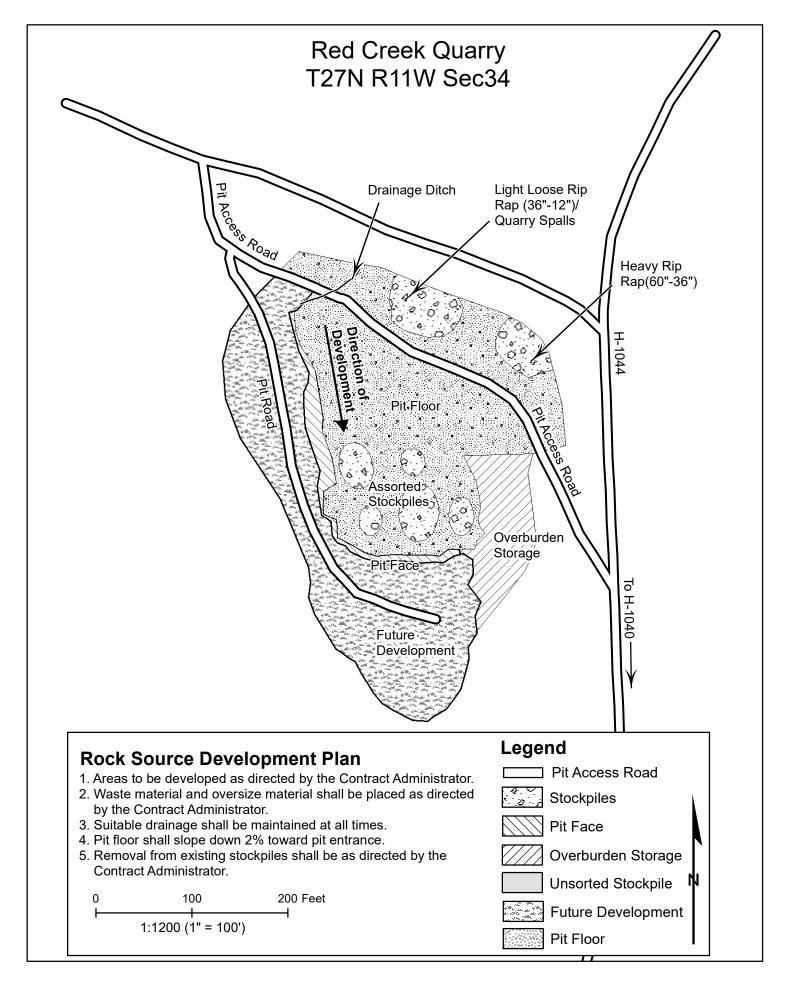
Barred Entry Sta 72+10 Culvert Install Cross-Section View



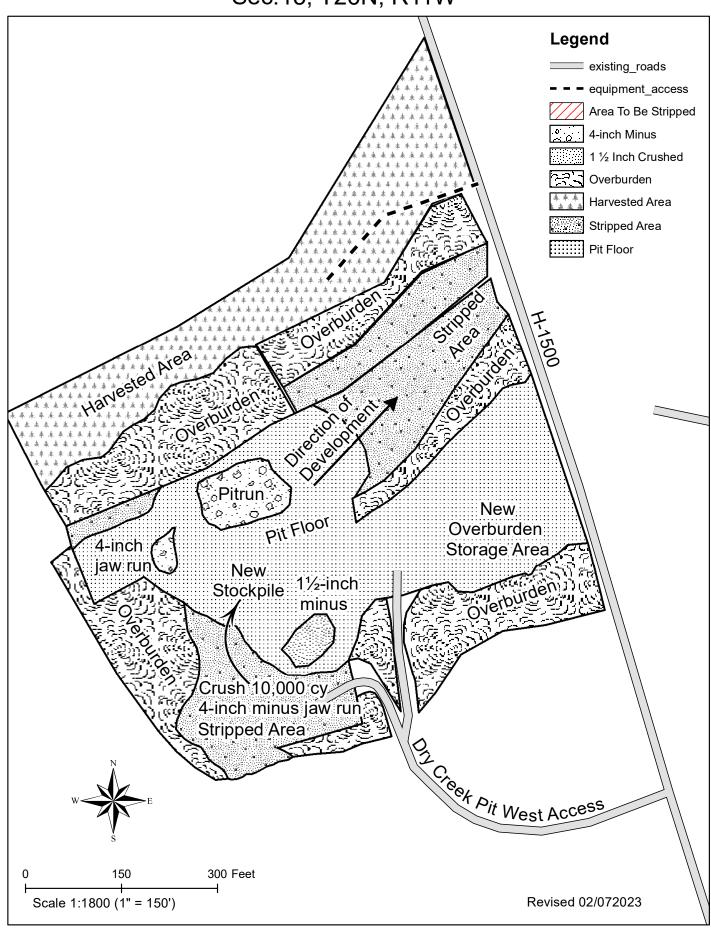
Barred Entry Sta 72+10 Culvert Install Stream Profile View

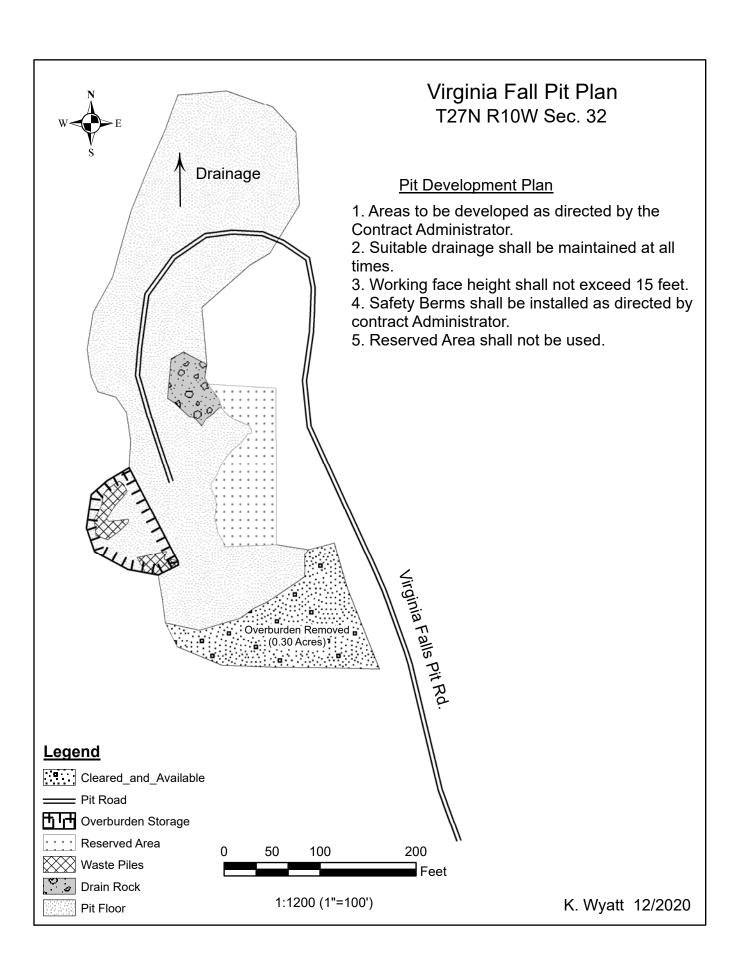


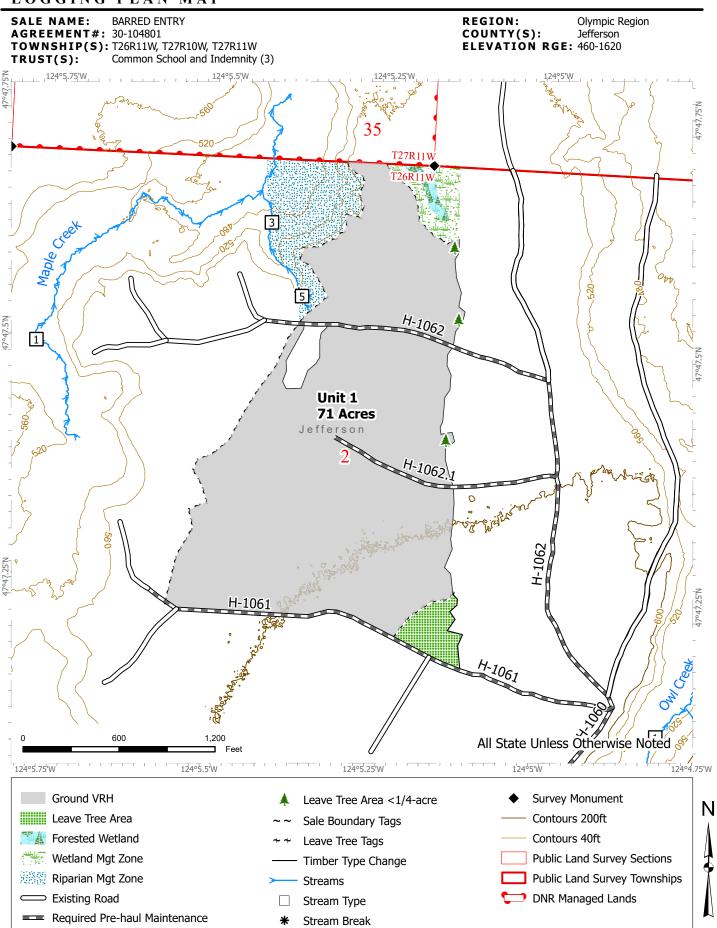




Dry Creek Pit Plan Sec.15, T26N, R11W



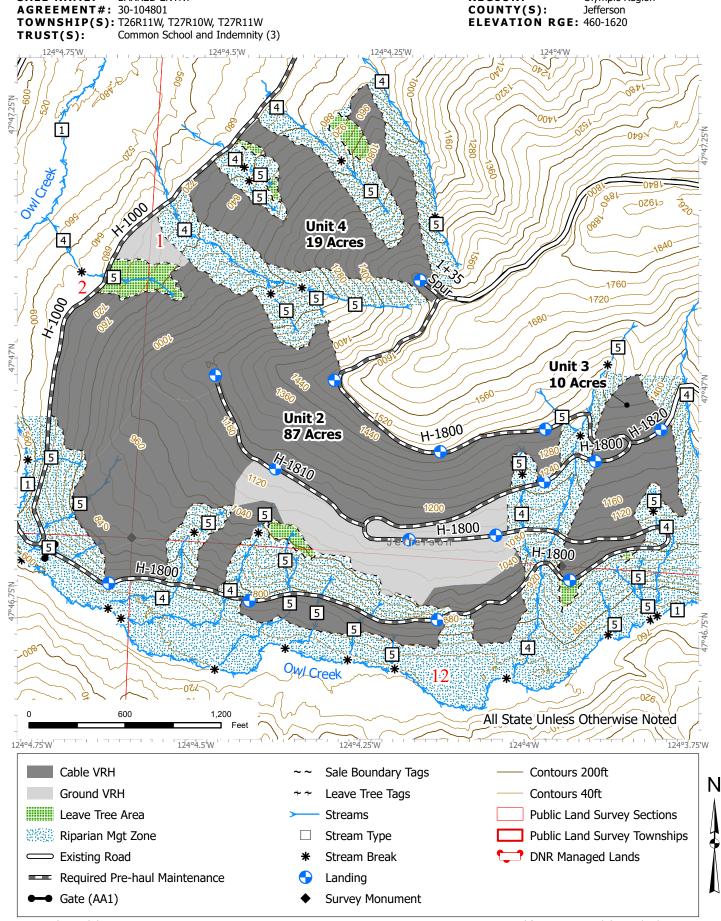




Prepared By: dril490 Modification Date: dril490 5/20/2024

SALE NAME:

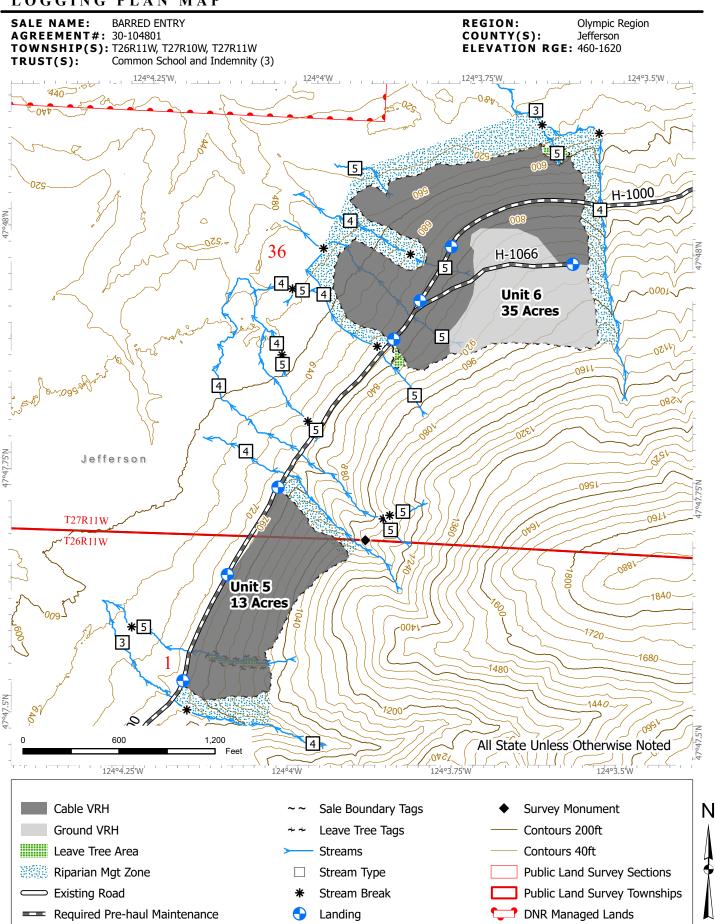
BARRED ENTRY



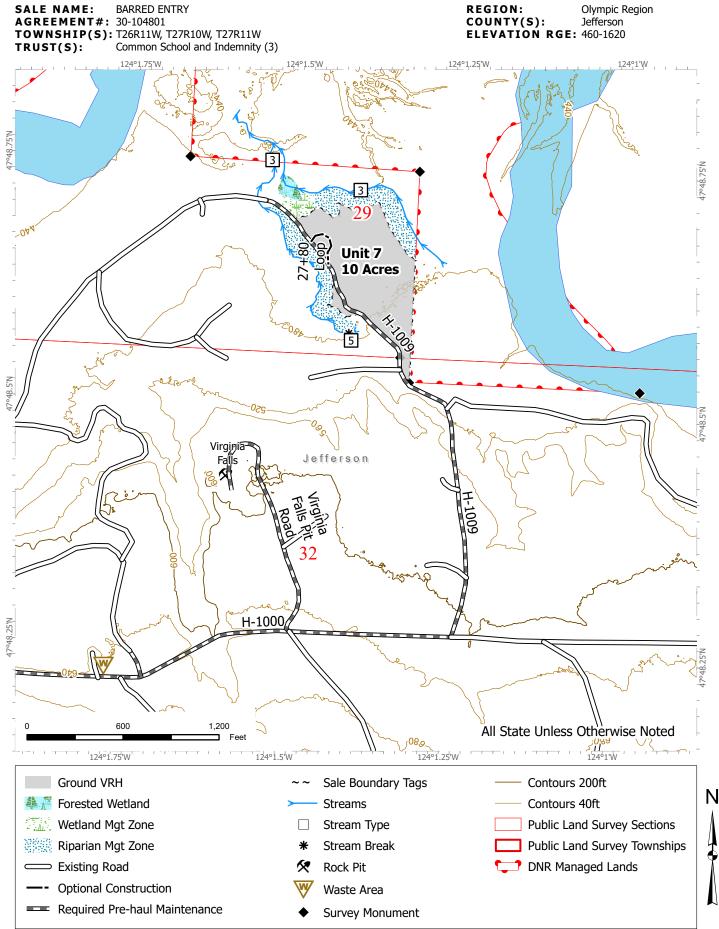
REGION:

Olympic Region

Prepared By: dril490 Modification Date: dril490 5/20/2024



Prepared By: dril490 Modification Date: dril490 5/20/2024



Prepared By: dril490 Modification Date: dril490 5/20/2024

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON

FOR JEFFERSON COUNTY

STATE OF WASHINGTON,

Petitioner, No. 7251

15 vs.

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ORDER CORRECTING
JUDGMENT AND DECREE
OF APPROPRIATION

BERT L. COLE, et al.

Defendants.)

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This matter coming on regularly for hearing in open court upon the motion of the petitioner for an Order correcting the JUDGMENT AND DECREE OF APPROPRIATION entered in this cause on the 3rd day of October, 1966, petitioner appearing by its attorneys, John J.

O'Connell, Attorney General and J. R. Pritchard, Assistant Attorney General, and the defendants not appearing but consenting, pro se, to the entry of this Order, it appearing to the Court that, by reason of mistake and inadvertence, the last paragraph of Exhibit 1 to the said JUDGMENT AND DECREE OF APPROPRIATION contains error which, in the interests of justice, needs be corrected, and the Court being fully advised,

NOW, THEREFORE, IT IS ORDERED, ADJUDGED, AND DECREED That the

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JOHN J. O'CONNELL, Attorney General J. R. PRITCHARD, Assistant Temple of Justice, Olympia, Wash. 98501 Telephone 753-5318, Area Code 206

ORDER FOR CORRECTION OF JUDGMEN'T

3 4 last sentence of Exhibit 1 to the JUDGMENT AND DECREE OF APPROPRIATION 5 entered herein on the 3rd day of October, 1966, be, and hereby is 6 corrected to read: 7 Defendants to have, in addition to such monetary damages 8 as the court shall adjudge herein, a nonexclusive easement for the use of said FR-H-1000 land management road as it 9 passes over and across lands owned by petitioner in Sections 34, 35, and 36, Township 27 North, Range 12 West, 10 W.M., subject to defendants' paying their proportionate share of the costs of maintaining said road, said share 11 to be measured by the ratio of defendants' heavy hauling thereon to all heavy hauling thereon. 12 DONE IN OPEN COURT this 25th day of September -// 13 14 1967. 15 16 17 18 Presented by: 19 JOHN J. O'CONNELL Attornev 20 21 22 PRITCHARD Assistant Attorney General 23 24 Approved as to form and content, 25 notice of presentment waived: 26 27 BERT L'. COLE Defendant, pro se 28 29 30 31 32

ORDER FOR CORRECTION OF JUDGMENT - 2

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	THE STATE OF WASHINGTON Sepular Tide CRESON COUNTY Cole Easing
IN THE SUPERIOR COURT OF	THE STATE OF WASHINGTON
for Jefff	Cole County
STATE OF WASHINGTON,	
Petitioner,)	No. 7251
vs.	SATISFACTION OF
BERT L. COLE, et al.,	Commis
Respondents.)	T

This certifies that the Judgment and Decree of Appropriation entered herein in open court on the 3rd day of October, 1966, awarding \$168.00 to respondents as full compensation for their interest in real estate condemned by petitioner has been fully paid and satisfied.

Executed this / 9 th day of October, 1966.

BERT L. COLE
Bort L. Cole, Respondent

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON FOR JEFFERSON COUNTY

STATE OF WASHINGTON,) ''
Petitioner,	No. 725/
vs.) JUDGMENT AND DECREE) OF APPROPRIATION
BERT L. COLE and NORMA COLE, husband and wife,	
Defendants.)

This cause of action coming on duly and regularly for trial on the day of trial of 19 CG, before the above entitled court, sitting without a jury, trial by jury not having been demanded, to ascertain, determine, and award the compensation to be made in money to the owners, tenants, encumbrancers, and other persons interested therein, for the taking or injuriously affecting of lands, real estate, premises, and other property as damages for the establishment of a land management road; the petitioner appearing by J. R. Pritchard, Assistant Attorney General, and the defendants, who failed to appear either personally or by their attorneys; and

The court being satisfied by proof that all parties interested in the lands, real estate, and premises and other property described in the petition of the petitioner on file herein and hereinafter specifically set forth, have been duly served with notice in this action as required by law; and

having been further satisfied by competent proof that the contemplated use for which said lands, real estate, premises, and other property are sought to be appropriated is really a public use, namely a land management road, and accordingly having heretofore made and entered in this action its order adjudicating public use; and

dence offered on behalf of petitioners (defendants having presented no evidence) concerning the lands, real estate, premises, and other property sought to be appropriated and used by the said petitioner for the above mentioned purposes, and the court having found and assessed the damages including the value of the land appropriated, resulting to all persons and parties interested therein by reason of such appropriation of lands, real real estate, and premises, in the sum of

as the total amount to be paid by the petitioner in this action to the defendants, Bert L. Cole and Norma Cole, husband and wife;

Now Therefore, in accordance with the foregoing findings, the court being fully advised,

is the total amount of compensation, including costs to be paid into the registry of the court herein by petitioner, for the defendants Bert L. Cole and Norma Cole, husband and wife, and all other persons interested therein for the appropriation

and use by the said petitioner as a land management road of the following lands, real estate, premises, and other property being acquired herein from said defendants in Jefferson County, Washington, to-wit:

That portion of the North Half of the Northeast Quarter (N¹2 NE¹4), Section 1, Township 26 North, Range 12 West, W.M., included within the limits of a strip of land 100 feet width, having 50 feet of such width on each side of the following described centerline:

Beginning at a point on the north line of said Section 1 which is north 88° 44' west 1855.7 feet from the northeast corner thereof, said point of beginning being a point on a 1° curve to the left, the tangent to said point on said curve bears south 61° 53' east and running thence on an arc of said 1° curve to the left 1963.6 feet to a point on the east line of said Section 1 which is south 573.7 feet from the northeast corner thereof, the tangent to said 1° curve at said point bears south 81° 31' east, having an area of 4.5 acres, more or less.

upon the payment into the registry of the above entitled court of the sum of _______ with costs herein taxed at _______, the petitioner, State of Washington, shall be and become vested with a nonexclusive easement in perpetiuty over and across the 4½ acres of land described herein, said easement being under the terms and conditions of Exhibit 1 to this Judgment and Decree of Appropriation, which said exhibit is by this reference made a part hereof, and shall be entitled to enter into possession of and at all times thereafter use and possess the land included within the easement herein, and that such payment shall be in full for the taking, condemnation,

and appropriation and use of the same.

It is further Ordered, Adjudged, and Decreed that upon payment of the said award and judgment into the registry of the court in this cause, the clerk thereof, be, and hereby is, ordered and directed to satisfy said judgment and to hold such sum of money for distribution subject to further order of this court.

Done in Open Court this 3 day of October 1966.

SlosEph H. Johnston

EXHIBIT 1

The following are the terms and conditions of the nonexclusive easement in perpetuity over and across the lands described in Exhibit A, above, for which petitioner prays in the petition to which this Exhibit B is attached:

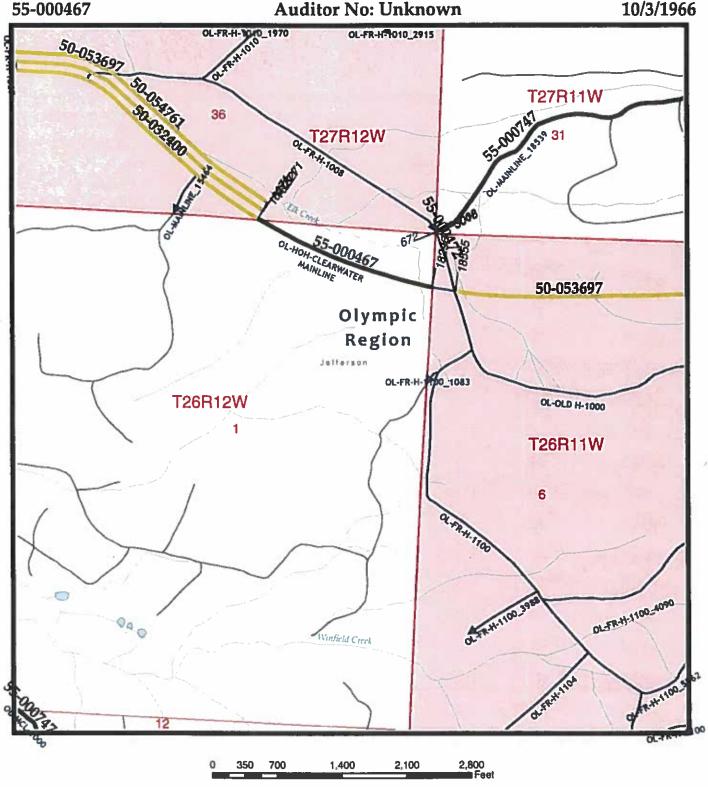
Petitioner to have all rights, privileges, and authority for the full use and enjoyment of land management road FR-H-1000 as it passes over and across the lands described in Exhibit A, above, for any and all purposes deemed necessary or desirable by petitioner in connection with the control, management, and administration of lands owned by, or under the control of, petitioner, with the right in petitioner to extend any or all of such rights, privileges, and authority to such other person, agency, or corporation as petitioner, in its absolute discretion, desires.

The defendants to have reserved to themselves, their successors and assigns, the right to cross and recross the said land management road FR-H-1000, on grade or otherwise, without charge, for any and all purposes deemed necessary or desirable by defendants in connection with the management and administration of their lands or the resources thereof; providing only, that such crossing or recrossing will not interfere unduly with the use of said road by petitioner.

Defendants to have reserved to themselves, their

successors and assigns, the right to use, maintain, patrol, reconstruct and repair the said land management road FR-H-1000 for any and all purposes; providing only, they shall perform, or cause to be performed, their proportionate share of the maintenance and resurfacing of the said land management road FR-H-1000, or any portion thereof used by them, as it passes over and across the lands aforesaid, made necessary by heavy hauling thereon, their said share to be computed on the ratio of their heavy hauling to all heavy hauling thereon, to the end that said road shall be in at least as good condition at the time their heavy hauling ends as it was at the time their heavy hauling commenced.

Defendants to have, in addition to such monetary damages as the court shall adjudge herein, a nonexclusive easement for the use of said FR-H-1000 land management road as it passes over and across lands owned by petitioner in Sections 34, 35, and 36, Township 27 North, Range 12 West, W.M., subject to defendants paying their proportionate share of the costs of said road.



1: Primary Highway/All-Weather/Hard Surface

3: Light-Duty Road/All-Weather/Improved

- 4: Unimproved Road/Fair or Dry Weather

-- 5: 4 wheel drive

2: Secondary Highway/All-Weather/Hard Surface

Right of Way Easements Road by USGS Class

Grant Code

1: Acquired by DNR

2: Granted by DNR

3: Merged in Title

DNR Routes

Route Direction

DNR Managed Lands

Granted Trust Lands

Forest Board Trust Lands

NAP / NRCA

Other DNR-Managed Lands;