## Washington DNR Timber Sales Program

# Updated information is being provided for (Red Rocket) timber sale documents as follows:

#### **Documents amended:**

| 2 ocuments unichaeu.                 |           |          |
|--------------------------------------|-----------|----------|
| <b>Brief Description</b>             | DATE      | Initials |
| Expiration Date should be 10/31/2026 | 2/26/2024 | kp       |
|                                      |           |          |
|                                      |           |          |



#### TIMBER NOTICE OF SALE

SALE NAME: RED ROCKET AGREEMENT NO: 30-104816

**AUCTION:** February 28, 2024 starting at 10:00 a.m., **COUNTY:** Jefferson

Olympic Region Office, Forks, WA

**SALE LOCATION:** Sale located approximately 20 miles southeast of Forks, WA

PRODUCTS SOLD

**AND SALE AREA:** All timber excluding downed red cedar, and trees marked with a band of blue paint or

bounded out by leave tree area tags; bounded by timber sale boundary tags, and the H-1040 in Unit 1; timber sale boundary tags, the H-1040 and the 2+30 Spur in Unit 2; timber sale boundary tags, timber type change and the Old Milwaukee Road in Unit 3; timber sale boundary tags in Unit 4; timber sale boundary tags, timber type change and the H-1044 in Unit 5; timber sale boundary tags and the H-1043.1 in Unit 6; timber sale boundary tags in Unit 7; timber sale boundary tags, timber type change and the H-1043.3 in Unit 8; timber sale boundary tags, timber type change in Unit 9;

All forest products above located on part(s) of Sections 2, 3, 4 and 5 all in Township 26 North, Range 11 West, Sections 34 all in Township 27 North, Range 11 West, W.M.,

containing 254 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 I | Ring | Total |    |    | N  | IBF by | Grad | le    |       |     |    |
|-------------|-------|------|-------|----|----|----|--------|------|-------|-------|-----|----|
| Species     | DBH C | ount | MBF   | 1P | 2P | 3P | SM     | 1S   | 2S    | 3S    | 4S  | UT |
| Douglas fir | 17.2  | 6    | 2,656 |    |    |    |        |      | 1,007 | 1,253 | 396 |    |
| Hemlock     | 14.9  | 6    | 1,881 |    |    |    |        |      | 574   | 969   | 338 |    |
| Spruce      | 11.2  |      | 141   |    |    |    |        |      |       | 52    | 82  | 7  |
| Red alder   | 11.2  |      | 85    |    |    |    |        |      |       |       | 68  | 17 |
| Redcedar    | 13.6  |      | 39    |    |    |    |        |      |       | 18    | 21  |    |
| Sale Total  |       |      | 4,802 |    |    |    |        |      |       |       |     |    |

MINIMUM BID: \$1,019,000.00 BID METHOD: Sealed Bids

**PERFORMANCE** 

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

**EXPIRATION DATE:** October 31, 2026 **ALLOCATION:** Export Restricted

**BID DEPOSIT:** \$101,900.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised

price.

**HARVEST METHOD:** Ground Based 100%. 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 and shovel logging must meet rutting and skidding requirements and

harvest plan must be submitted and approved by the Contract Administrator.

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#### TIMBER NOTICE OF SALE

Authority to use other equipment or to operate outside the equipment specifications

detailed above must be approved in writing by the State.

There are 30' Equipment Limitations Zones on all typed water.

**ROADS:** 9.75 stations of optional construction. 309.35 stations of optional prehaul maintenance.

3.20 stations of decommissioning. There will be no construction on the H-1043.2 from

October 15 - April 15.

ACREAGE DETERMINATION

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

**FEES:** \$81,634.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in

addition to the bid price.

SPECIAL REMARKS: There are locked gates on the Winfield North Pit gate. Contact Olympic Region Dispatch

Center at 360-374-2800 to check out an AA-1 key.

Purchaser will develop rock at Dry Creek Pit by July 31, 2024. See Road Plan for details.

Road Decommissioning is required.

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Modification Date: dril490 11/15/2023

Prepared By: dril490

SALE NAME: Red Rocket **REGION:** Olympic Region AGREEMENT #: COUNTY(S): Jefferson ELEVATION RGE: 520-790 30-104816 TOWNSHIP(S): T26R11W, T27R11W TRUST(S): Common School and Indemnity (3) 124°8.5'W T27R11W Old Wilwankee Road 32 34 33 Unit 4 83 acres 31 acres Unit 1 2 acres Hoh-Clearwater Mainline H-1043 T26R11 3,000 124°7.5'W 124°7'W All State Unless Otherwise Noted Variable Retention Harvest ~ ~ Sale Boundary Tags Landing Leave Tree Area Leave Tree Tags Existing Road Timber Type Change Riparian Mgt Zone Optional Construction Forested Wetland **Public Land Survey Townships** =∆= Optional Pre-Haul Maintenance Wetland Mgt Zone الملكة **Public Land Survey Sections** Stream Type Stream Break **DNR Managed Lands** Bridge Streams Survey Monument

Culvert

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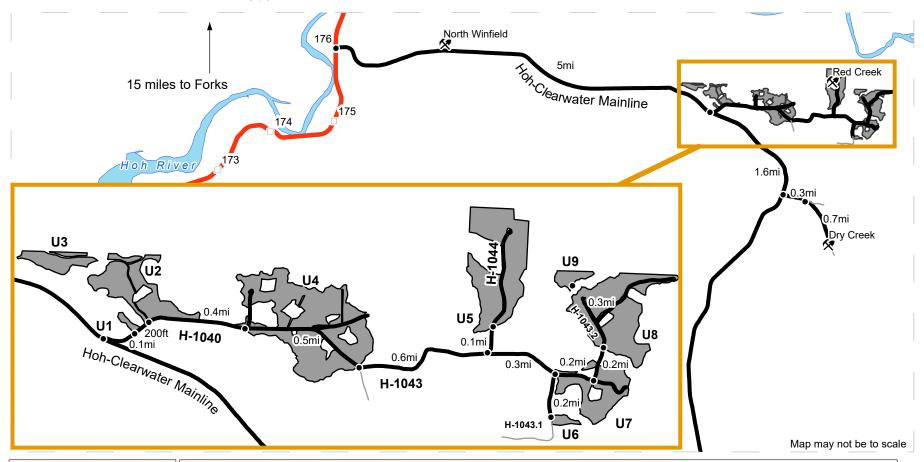
Streams

SALE NAME: RED ROCKET AGREEMENT#: 30-104816

TOWNSHIP(S): T26R11W, T27R11W

TRUST(S): Common School and Indemnity (3)

REGION: Olympic Region
COUNTY(S): Jefferson
ELEVATION RGE: 520-790





#### **DRIVING DIRECTIONS:**

**Unit 1:** Drive south from Forks, WA for 15 Miles. Turn left onto Hoh-Clearwater Mainline. Drive 5 miles and turn left onto H-1040. Drive 0.1 miles.

Unit 2: Continue on H-1040 for 200ft.

Unit 3: Drive northwest on H-1040.1 for 0.3 miles. Turn left on Old Milwaukee road and continue for 0.2 miles.

**Unit 4:** From unit 2, continue east on H-1040 for 0.4 miles.

Unit 5: Continue on H-1040 for 0.5 miles. Turn left onto H-1043. Continue for 0.6 miles and turn left onto H-1044. Drive 0.1 miles.

Unit 7: From JCT H-1043/H1044 continue east on H-1043. Road narrows. Continue for 0.3 miles.

Unit 6: Drive south onto H-1043.1 and continue for 0.2 miles.

Unit 8: From JCT H-1043.1, drive east on H-1043 for 0.2 mi. Drive north on H-1043.2 for 0.2 miles.

Unit 9: Continue northwest on H-1043.2 through unit 8 for 0.3 miles.

Red Creek Quarry: Located adjacent to unit 5

North Winfield pit: From JCT H-1040 drive west on Hoh-Clearwater Mainline for 3.6 miles.

**Dry Creek pit:** From JCT H-1040 drive east on Hoh Mainline for 1.6 miles. Turn left onto H-1000 and drive 0.3 miles

Turn right onto H-1500 and drive 0.7 miles.

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## STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

## BILL OF SALE AND CONTRACT FOR FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-0104816

SALE NAME: RED ROCKET

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 February 28, 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 excluding downed red cedar, and trees marked with a band of blue paint or bounded out by leave tree area tags; bounded by timber sale boundary tags, and the H-1040 in Unit 1; timber sale boundary tags, the H-1040 and the 2+30 Spur in Unit 2; timber sale boundary tags, timber type change and the Old Milwaukee Road in Unit 3; timber sale boundary tags in Unit 4; timber sale boundary tags, timber type change and the H-1044 in Unit 5; timber sale boundary tags and the H-1043.1 in Unit 6; timber sale boundary tags in Unit 7; timber sale boundary tags, timber type change and the H 1043.3 in Unit 8; timber sale boundary tags, timber type change in Unit 9;

All forest products above located on approximately 254 acres on part(s) of Sections 2, 3, 4, and 5 all in Township 26 North, Range 11 West, Section 34 in Township 27 North, Range 11 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

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timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

#### G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule Title

A Slash Piling Specs.

B Green Tree Retention Plan

#### G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2026.

## 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 \$813.00 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

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

## G-061 Inadvertent Discovery of Cultural Resources

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

#### G-062 Habitat Conservation Plan

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

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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

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and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

#### G-064 Permits

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

## G-065 Regulatory Disclaimer

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

## G-066 Governmental Regulatory Actions

#### a. Risk

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

#### b. Sale Area

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

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

#### c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall cause the timber sale area subject to governmental regulation or order to be measured. The State shall calculate the percentage of the total sale area subject to the governmental regulation or order. The State shall reduce the total contract price by that calculated percentage. However, variations in species, value, costs, or other items pertaining to the affected sale area will be analyzed and included in the adjustment if deemed appropriate by the State. The State will further reduce the total contract price by the reasonable cost of

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unamortized roads Purchaser constructed but was unable to fully use for removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

#### G-070 Limitation on Damage

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

#### G-080 Scope of State Advice

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

#### G-091 Sale Area Adjustment

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

#### G-101 Forest Products Not Designated

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

The pricing schedule has not been set for the sale.

#### G-111 Title and Risk of Loss

Title to the forest products under this contract passes to the Purchaser after they are removed from the sale area, if adequate advance payment or payment security has been provided to the State under this contract. Purchaser bears all risk of loss of, or damage to, and has an insurable interest in, the forest products described in this contract from

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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;
- 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.

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

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

#### G-140 Indemnity

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

#### G-150 Insurance

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

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

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

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

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

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

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

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

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

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

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

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that include, but are not limited to, fire suppression expenses, accidental timber trespasses, and wildfire property damage with limits of not less than \$2,000,000.00 each occurrence.

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

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

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

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

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

#### G-160 Agents

The State's rights and duties will be exercised by the Region Manager at Forks, Washington. The Region Manager will notify Purchaser in writing who is responsible for administering the contract. The Region Manager has sole authority to waive,

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modify, or amend the terms of this contract in the manner prescribed in clause G-180. No agent, employee, or representative of the State has any authority to bind the State to any affirmation, representation, or warranty concerning the forest products conveyed beyond the terms of this contract.

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

## G-170 Assignment and Delegation

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

#### G-180 Modifications

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

#### G-190 Contract Complete

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

#### G-200 Notice

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

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

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

#### G-210 Violation of Contract

a. If Purchaser violates any provision of this contract, the Contract Administrator, by written notice, may suspend those operations in violation. If the violation is capable of being remedied, Purchaser has 30 days after receipt of a suspension notice to remedy the violation. If the violation cannot be remedied (such as a violation of WAC 240-15-015) or Purchaser fails to remedy the violation within 30 days after receipt of a suspension notice, the

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State may terminate the rights of Purchaser under this contract and collect damages.

- b. If the contract expires pursuant to clause G-030 or G-031 without Purchaser having performed all its duties under this contract, Purchaser's right to operate is terminated and Purchaser shall not have the right to remedy the breach. This provision shall not relieve Purchaser of any payment obligations.
- c. The State has the right to remedy the breach in the absence of any indicated attempt by Purchaser or if Purchaser is unable, as determined by the State, to remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within 30 days of receipt of billing.
- d. If Purchaser's violation is a result of a failure to make a payment when due, in addition to a. and b. above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due.

#### G-220 State Suspends Operations

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

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

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

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

#### G-230 Unauthorized Activity

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

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#### G-240 Dispute Resolution

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

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

#### G-250 Compliance with All Laws

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

#### G-260 Venue

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

#### G-270 Equipment Left on State Land

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

#### G-280 Operating Release

An operating release is a written document, signed by the State and Purchaser, indicating that Purchaser has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Purchaser and State may agree to an operating release for this sale, or portion of this sale, prior to the contract

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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-1040.1, 2+30 Spur, H-1040.2, H-1040.3, H-1040-4, H-1042, H-1042.1, H-1043.1, H-1043.2, H-1043.3, 4+10 Spur, H-1044, H-1044.1, H-1044.2, H-1044.3, Old Milwaukee Road, H-1500, Dry Creek and North Winfield Pit access roads.. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

#### G-330 Pre-work Conference

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

#### G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, 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 shall require performance or payment, as directed by the State, for their proportionate share of maintenance based on their use.

#### G-370 Blocking Roads

Purchaser shall not block the H-1040, H-1043 and the H-1044, unless authority is granted in writing by the Contract Administrator.

#### G-380 Road Easement and Road Use Permit Requirements

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

55-000467 Bert and Norma Cole

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#### 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 \$124,852.00. The total contract price consists of a \$0.00 contract bid price plus \$124,852.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

#### THE PURCHASE PRICE SHALL NOT BE AFFECTED BY ANY FACTORS.

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

#### P-045 Guarantee of Payment

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

#### P-050 Billing Procedure

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

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#### P-080 Payment Account Refund

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

## P-090 Performance Security

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

#### P-100 Performance Security Reduction

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

#### Section H: Harvesting Operations

#### H-013 Reserve Tree Damage Definition

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

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

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

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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.
- 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.

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#### 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-040 Purchaser Harvest Plan

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

## H-051 Branding and Painting

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

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

#### H-080 Snags Not to be Felled

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

#### H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using 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 and shovel logging must meet rutting and skidding requirements and harvest plan must be submitted and approved by the Contract Administrator.

There is a 30' Equipment Limitations Zones on all typed water. 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 shall immediately repair all gate damage resulting from operations to an equal or better condition than existed at the time of the sale.

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- 2. While felling timber, one Warning sign must be posted on the H-1040 road.
- 3. Yarding equipment shall not cross live streams without a FPHP.
- 4. 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-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 12/8/2023 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on all roads listed 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.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on Hoh-Clearwater Mainline, H-1040, H-1043, H-1044, H-1000, H-1500, Dry Creek pit access road and the North Winfield pit access road. 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.

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#### C-080 Landing Locations Approved Prior to Construction

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

#### C-140 Water Bars

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

#### Section S: Site Preparation and Protection

## S-001 Emergency Response Plan

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

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

#### S-010 Fire Hazardous Conditions

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

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

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

#### S-030 Landing Debris Clean Up

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

#### S-050 Cessation of Operations for Low Humidity

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

## S-060 Pump Truck or Pump Trailer

Purchaser shall provide a fully functional pump truck or pump trailer equipped to meet the specifications of WAC 332-24-005 and WAC 332-24-405 during the "closed"

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season" or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

#### S-130 Hazardous Materials

## a. Hazardous Materials and Waste - Regulatory Compliance

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

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

#### b. Hazardous Materials Spill Prevention

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

## c. Hazardous Materials Spill Containment, Control and Cleanup

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

## d. Hazardous Material Release Reporting

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

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

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#### -DNR Contract Administrator

## S-131 Refuse Disposal

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

## Section D: Damages

#### D-013 Liquidated Damages or Failure to Perform

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

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

#### D-041 Reserve Tree Excessive Damage

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

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## **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:   |  |  |  |

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

| STATE OF        |   |          |             |              |                     |        |
|-----------------|---|----------|-------------|--------------|---------------------|--------|
| COUNTY OF       |   | )        |             |              |                     |        |
| On thisappeared | day of  |          | , 20        | _, before    | me perso            | onally |
|                 |   |          |             | ne known     | to be<br>corporatio | the    |
|                 | the was) (they were) aut<br>REOF, I have hereunto<br>ten. |          |             |              | eal the da          | ıy and |
|                 |   | Notary P | ublic in ar | nd for the S | tate of             |        |
|                 |   | My anno  | intment ex  | x nires      |                     |        |

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## 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.

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## 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 |             | # of Trees | Total # of  |
|--------|-------------------|-------------|------------|-------------|
| Unit # | Marked Trees      | # of Clumps | Clumped    | Leave Trees |
|        |                   |             |            |             |
| 1      | 24                | 0           | 0          | 24          |
| 2      | 90                | 5           | 165        | 255         |
| 3      | 48                | 1           | 42         | 90          |
| 4      | 533               | 2           | 154        | 687         |
| 5      | 249               | 2           | 267        | 516         |
| 6      | 8                 | 1           | 8          | 16          |
| 7      | 38                | 1           | 163        | 201         |
| 8      | 219               | 2           | 185        | 404         |
| 9      | 41                | 0           | 0          | 41          |

12/18/2023 28 of 28 Agreement No. 30-0104816



#### WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

## FOREST EXCISE TAX ROAD SUMMARY SHEET

**Region:** 

| Timber Sale Name:   |                                     |
|---|-------------------------------------|
| Application Number:   |                                     |
| EXCISE TAX APPLICABLE ACTIVITIES  |                                     |
| Construction: Road to be constructed (optional and required) but not aband              | linear feet<br>loned                |
| Reconstruction: Road to be reconstructed (optional and required) but not aba            | linear feet<br>ndoned               |
| Abandonment: Abandonment of existing roads not reconstructed under the o                | linear feet<br>contract             |
| <b>Decommission:</b> Road to be made undriveable but not officially abandoned.          | linear feet                         |
| Pre-Haul Maintenance: Existing road to receive maintenance work (optional and require)  | linear feet<br>uired) prior to haul |
| EXCISE TAX EXEMPT ACTIVITIES  |                                     |
| Temporary Construction: Roads to be constructed (optional and required) and then ab     | linear feet<br>andoned              |
| Temporary Reconstruction: Roads to be reconstructed (optional and required) and then of | linear feet<br>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)

## **PRE-CRUISE NARRATIVE**

| Sale Name: Red Rocket  | Region: Olympic                              |
|--|--|
| Agreement #: 30-104816   | District: Coast                              |
| Contact Forester: <b>Dave Riley</b> Phone / Location: <b>360-640-5370 – Forks Office</b> | County(s): Choose a county, Jefferson        |
| Alternate Contact: Mike Potter Phone / Location: 360-640-0722 – Forks Office             | Other information: Click here to enter text. |

| Type of Sale: Lump Sum                                 |      |
|--|------|
| Harvest System: Ground based Click here to enter text. | 100% |

# UNIT ACREAGES AND METHOD OF DETERMINATION:

| Unit #                          | Legal  |                | sal                     | Dedu              |                     | rom Gros<br>vest acre  | ss Acres<br>es)                 | cres              | Acreage<br>Determinatio                            |
|---------------------------------|--|----------------|-------------------------|-------------------|---------------------|------------------------|---------------------------------|-------------------|--|
| Harvest<br>R/W or<br>RMZ<br>WMZ | Description (Enter only one legal for each unit) Sec/Twp/Rng | Grant or Trust | Gross Proposal<br>Acres | RMZ/<br>WMZ Acres | Leave Tree<br>Acres | Existing<br>Road Acres | Thinning<br>Gap Acres<br>(2013) | Net Harvest Acres | n (List method and error of closure if applicable) |
| 1                               | T26R11W Sec 5  | 03             | 12                      | 10                | 0                   | 0                      | 0                               | 2                 | GPS<br>(Garmin)                                    |
| 2                               | T26R11W Sec 4,5  | 03             | 52                      | 16                | 1                   | 2                      | 2                               | 31                | GPS<br>(Garmin)                                    |
| 3                               | T26R11W Sec 5  | 03             | 21                      | 9                 | <1                  | 1                      | 0                               | 11                | GPS<br>(Garmin)                                    |
| 4                               | T26R11W Sec 4  | 03             | 111                     | 16                | 1                   | 3                      | 8                               | 83                | GPS<br>(Garmin)                                    |
| 5                               | T26R11W Sec 3<br>T27R11W Sec 34                              | 03             | 68                      | 12                | 2                   | 2                      | 0                               | 52                | GPS<br>(Garmin)                                    |
| 6                               | T26R11W Sec 3  | 03             | 5                       | 2                 | <1                  | 0                      | 0                               | 2                 | GPS<br>(Garmin)                                    |
| 7                               | T26R11W Sec 3,2  | 03             | 58                      | 29                | 2                   | 2                      | 3                               | 22                | GPS<br>(Garmin)                                    |
| 8                               | T26R11W Sec 3,2  | 03             | 92                      | 39                | 3                   | 2                      | 2                               | 46                | GPS<br>(Garmin)                                    |
| 9                               | T26R11W Sec 3  | 03             | 9                       | 4                 | 0                   | 0                      | 0                               | 5                 | GPS<br>(Garmin)                                    |
| TOTAL<br>ACRES                  |  |                | 428                     | 137               | 10                  | 12                     | 15                              | 254               |  |

## **HARVEST PLAN AND SPECIAL CONDITIONS:**

| Unit # | Harvest Prescription:<br>(Leave, take, paint color, tags,         | Special<br>Management | Other conditions (# leave trees, etc.) |
|--------|---|-----------------------|--|
|        | flagging etc.)  | areas:                |  |
| 1      | Harvest Boundaries: Timber sale boundary tags, pink flagging, red | N/A                   | Scattered Leave Trees: 24              |
|        | flashers, blue paint, road.                                       | IN/A                  | Scattered Leave Trees: 24              |
| 2      | Harvest Boundaries: Timber sale                                   |                       |  |
|        | boundary tags, pink flagging, red                                 |                       | Scattered Leave Trees: 90              |
|        | flashers, blue paint, road, and timber                            | N/A                   |  |
| 3      | type change.  Harvest Boundaries: Timber sale                     | IN/A                  | Clumped Leave Trees: 165               |
| 3      | boundary tags, pink flagging, red                                 |                       |  |
|        | flashers, blue paint, road, and timber                            |                       | Scattered Leave Trees: 48              |
|        | type change.  | N/A                   | Clumped Leave Trees: 42                |
| 4      | Harvest Boundaries: Timber sale                                   | IN/A                  | Clumped Leave Trees. 42                |
| 4      | boundary tags, pink flagging, red                                 |                       | Scattered Leave Trees: 533             |
|        | flashers, blue paint, road.                                       | N/A                   | Clumped Leave Trees: 154               |
| 5      | Harvest Boundaries: Timber sale                                   | IN/A                  | Oldinped Leave Trees: 104              |
|        | boundary tags, pink flagging, red                                 |                       |  |
|        | flashers, blue paint, road, and timber                            |                       | Scattered Leave Trees: 249             |
|        | type change.  | N/A                   | Clumped Leave Trees: 267               |
| 6      | Harvest Boundaries: Timber sale                                   | TV// C                | Oldinged Edaye 11663. 201              |
|        | boundary tags, pink flagging, red                                 |                       | Scattered Leave Trees: 8               |
|        | flashers, blue paint, road.                                       | N/A                   | Clumped Leave Trees: 8                 |
| 7      | Harvest Boundaries: Timber sale                                   |                       |  |
|        | boundary tags, pink flagging, red                                 |                       |  |
|        | flashers, blue paint, road, and timber                            |                       | Scattered Leave Trees: 38              |
|        | type change.  | N/A                   | Clumped Leave Trees: 163               |
| 8      | Harvest Boundaries: Timber sale                                   |                       | ,                                      |
|        | boundary tags, pink flagging, red                                 |                       |  |
|        | flashers, blue paint, road, and timber                            |                       | Scattered Leave Trees: 219             |
|        | type change.  | N/A                   | Clumped Leave Trees: 185               |
| 9      | Harvest Boundaries: Timber sale                                   |                       | •                                      |
|        | boundary tags, pink flagging, red                                 |                       |  |
|        | flashers, blue paint, road, and timber                            |                       |  |
|        | type change.  | N/A                   | Scattered Leave Trees: 41              |

# OTHER PRE-CRUISE INFORMATION:

| Unit # | Primary / Secondary Species | Estimated Volume (MBF) | Access information (Gates, locks, etc.) | Photos,<br>traverse<br>maps<br>required |
|--------|-----------------------------|------------------------|---|---|
| 1      | DF / WH, RC                 | 40                     | H-1040                                  |   |

| 2              | DF / WH, RC | 620       | H-1040              |
|----------------|-------------|-----------|---------------------|
| 3              | DF / WH, RC | 220       | Walk in from unit 2 |
| 4              | DF / WH, RC | 1,660     | H-1040              |
| 5              | DF / WH, RC | 1,040     | H-1044              |
| 6              |             | 40        |                     |
|                | DF / WH, RC |           | H-1043              |
| 7              | DF / WH, RC | 460       | H-1043              |
| 8              | DF / WH, RC | 940       | H-1043              |
| 9<br>TOTAL MBF | DF / WH, RC | 100       | Walk in from unit 8 |
|                |             | 5,030 MBF |                     |

#### **REMARKS:**

Units 2-8 were thinned as a part of the Red Raingear timber sale in FY2013. Units 2, 4, 7, and 8 contain 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: NRS 1 | CC: Mike Potter |
|-------------------------|--------------|-----------------|
| Date: May 10, 2023      |              |                 |

# Timber Sale Cruise Report Red Rocket

Sale Name: RED ROCKET Sale Type: LUMP SUM Region: OLYMPIC District: COAST

Lead Cruiser: Kevin Peterson

Other Cruisers:
Cruise Narrative:
Location:

This sale is located south of Forks in the Clearwater block. Access to the units is pretty good.

#### Cruise Design:

For this cruise I used a 40 BAF for units 2-9 and a 54.44 BAF on unit 1.

Merch height was determined at 40% of the diameter at 16'. All logs were cruised in 40' lengths.

#### **Timber Quality:**

This sale is a mixture of mature DF and WH post thin. There are patches of smaller diameter would scattered throughout the sale. There are also patches of RA, RC and SS.

Common defects are sweep, forked tops and spike knots.

#### Logging and Stand Conditions:

This sale is 100% ground based harvest. Ground is very easy to walk on, but gets brushy in spots.

#### **Timber Sale Notice Volume (MBF)**

|     |      |          |     | MBF Volume by Grade |       |       |       |         |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw | Utility |
| DF  | 17.2 | 6.0      |     | 2,656               | 1,007 | 1,253 | 397   |         |
| WH  | 14.9 | 6.0      |     | 1,881               | 574   | 969   | 338   |         |
| SS  | 11.2 |          |     | 142                 |       | 52    | 82    | 7       |
| RA  | 11.2 |          |     | 85                  |       |       | 68    | 17      |
| RC  | 13.6 |          |     | 39                  |       | 18    | 21    |         |
| ALL | 14.9 | 6.0      |     | 4,802               | 1,581 | 2,292 | 906   | 24      |

#### Timber Sale Notice Weight (tons)

|    | Tons by Grade |       |        |       |         |  |  |  |
|----|---------------|-------|--------|-------|---------|--|--|--|
| Sp | All           | 2 Saw | 3 Saw  | 4 Saw | Utility |  |  |  |
| DF | 24,518        | 8,958 | 12,012 | 3,548 |         |  |  |  |
| WH | 19,258        | 5,389 | 10,291 | 3,579 |         |  |  |  |
| SS | 1,277         |       | 511    | 702   | 64      |  |  |  |
| RA | 821           |       |        | 656   | 165     |  |  |  |

|     | Tons by Grade |        |        |       |         |  |
|-----|---------------|--------|--------|-------|---------|--|
| Sp  | All           | 2 Saw  | 3 Saw  | 4 Saw | Utility |  |
| RC  | 412           |        | 272    | 140   |         |  |
| ALL | 46,287        | 14,346 | 23,085 | 8,626 | 229     |  |

#### **Timber Sale Overall Cruise Statistics**

| BA<br>(sq ft/acre) |     |       | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) |     |
|--------------------|-----|-------|-----------------|----------------------|-----|
| 172.9              | 2.9 | 108.5 | 1.7             | 18,759               | 3.3 |

# **Timber Sale Unit Cruise Design**

| Unit             | Design   | Cruise<br>Acres | FMA<br>Acres | N<br>Plots | N Cruise<br>Plots | N Void<br>Plots |
|------------------|--|-----------------|--------------|------------|-------------------|-----------------|
| RED<br>ROCKET U1 | B1C: VR, 1 BAF (54.44) Measure/<br>Count Plots, Sighting Ht = 4.5 ft | 2.0             | 1.7          | 1          | 1                 | 0               |
| RED<br>ROCKET U2 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 4.5 ft     | 31.0            | 31.1         | 16         | 8                 | 1               |
| RED<br>ROCKET U3 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 0 ft       | 11.0            | 11.3         | 6          | 3                 | 0               |
| RED<br>ROCKET U4 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 4.5 ft     | 83.0            | 84.4         | 42         | 16                | 1               |
| RED<br>ROCKET U5 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 4.5 ft     | 52.0            | 51.8         | 26         | 11                | 0               |
| RED<br>ROCKET U6 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 4.5 ft     | 2.0             | 2.1          | 2          | 2                 | 0               |
| RED<br>ROCKET U7 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 4.5 ft     | 23.0            | 24.1         | 12         | 6                 | 0               |
| RED<br>ROCKET U8 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 4.5 ft     | 47.0            | 46.5         | 24         | 8                 | 0               |
| RED<br>ROCKET U9 | B1C: VR, 1 BAF (40) Measure/Count<br>Plots, Sighting Ht = 4.5 ft     | 5.0             | 4.9          | 3          | 3                 | 0               |
| All              |  | 256.0           | 257.8        | 132        | 58                | 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 | 14.2 | 40  | 4,264    | 3,932  | 7.8      | 8,957.9  | 1,006.5 |
| DF | LIVE   | 3 SAW   | Domestic | 8.8  | 40  | 5,137    | 4,895  | 4.7      | 12,012.1 | 1,253.0 |
| DF | LIVE   | 4 SAW   | Domestic | 5.5  | 29  | 1,550    | 1,550  | 0.0      | 3,547.8  | 396.7   |
| RA | LIVE   | 4 SAW   | Domestic | 5.9  | 38  | 273      | 264    | 3.0      | 656.3    | 67.7    |
| RA | LIVE   | UTILITY | Pulp     | 5.1  | 32  | 66       | 66     | 0.0      | 165.0    | 17.0    |

| Sp | Status | Grade   | Sort     | Dia  | Len | BF Gross | BF Net | Defect % | Tons     | MBF Net |
|----|--------|---------|----------|------|-----|----------|--------|----------|----------|---------|
| RC | LIVE   | 3 SAW   | Domestic | 14.2 | 36  | 138      | 69     | 49.8     | 271.9    | 17.8    |
| RC | LIVE   | 4 SAW   | Domestic | 5.4  | 20  | 83       | 83     | 0.0      | 140.4    | 21.2    |
| SS | LIVE   | 3 SAW   | Domestic | 8.7  | 40  | 205      | 205    | 0.0      | 510.6    | 52.4    |
| SS | LIVE   | 4 SAW   | Domestic | 5.3  | 30  | 322      | 322    | 0.0      | 702.3    | 82.4    |
| SS | LIVE   | UTILITY | Pulp     | 5.1  | 32  | 27       | 27     | 0.0      | 64.1     | 7.0     |
| WH | LIVE   | 2 SAW   | Domestic | 14.0 | 40  | 2,310    | 2,242  | 2.9      | 5,388.5  | 574.0   |
| WH | LIVE   | 3 SAW   | Domestic | 8.6  | 39  | 3,944    | 3,786  | 4.0      | 10,290.7 | 969.2   |
| WH | LIVE   | 4 SAW   | Domestic | 5.2  | 30  | 1,328    | 1,319  | 0.7      | 3,579.2  | 337.5   |
| WH | LIVE   | CULL    | Cull     | 6.1  | 40  | 261      | 0      | 100.0    | 0.0      | 0.0     |

# Timber Sale Log Sort x Diameter Bin Summary

| Sp | Bin     | Status | Sort     | Dia  | Len | BF Net | Defect % | Tons    | MBF Net |
|----|---------|--------|----------|------|-----|--------|----------|---------|---------|
| DF | 5 - 8   | LIVE   | Domestic | 6.1  | 34  | 3,168  | 1.7      | 8,114.0 | 811.1   |
| DF | 9 - 11  | LIVE   | Domestic | 10.6 | 38  | 3,134  | 5.7      | 7,184.9 | 802.3   |
| DF | 12 - 14 | LIVE   | Domestic | 13.8 | 40  | 3,072  | 6.5      | 7,115.5 | 786.4   |
| DF | 15 - 19 | LIVE   | Domestic | 15.4 | 40  | 1,002  | 10.6     | 2,103.5 | 256.5   |
| RA | 5 - 8   | LIVE   | Pulp     | 5.1  | 32  | 66     | 0.0      | 165.0   | 17.0    |
| RA | 5 - 8   | LIVE   | Domestic | 5.9  | 38  | 264    | 3.0      | 656.3   | 67.7    |
| RC | 5 - 8   | LIVE   | Domestic | 5.4  | 20  | 83     | 0.0      | 140.4   | 21.2    |
| RC | 12 - 14 | LIVE   | Domestic | 14.2 | 36  | 69     | 49.8     | 271.9   | 17.8    |
| SS | 5 - 8   | LIVE   | Pulp     | 5.1  | 32  | 27     | 0.0      | 64.1    | 7.0     |
| SS | 5 - 8   | LIVE   | Domestic | 5.7  | 31  | 526    | 0.0      | 1,212.9 | 134.7   |
| WH | 5 - 8   | LIVE   | Domestic | 5.8  | 33  | 2,478  | 1.6      | 6,937.4 | 634.3   |
| WH | 5 - 8   | LIVE   | Cull     | 6.1  | 40  | 0      | 100.0    | 0.0     | 0.0     |
| WH | 9 - 11  | LIVE   | Domestic | 10.3 | 40  | 2,594  | 4.4      | 6,871.1 | 664.1   |
| WH | 12 - 14 | LIVE   | Domestic | 13.1 | 39  | 1,108  | 3.1      | 2,914.2 | 283.7   |
| WH | 15 - 19 | LIVE   | Domestic | 15.3 | 40  | 1,167  | 3.4      | 2,535.6 | 298.6   |

# Cruise Unit Report RED ROCKET U1

# Unit Sale Notice Volume (MBF): RED ROCKET U1

|     |      |          |     | MBF Volume by Grade |       |       |       |  |  |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|--|--|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw |  |  |  |  |
| WH  | 14.3 |          |     | 41                  | 9     | 20    | 12    |  |  |  |  |
| DF  | 12.0 |          |     | 9                   |       | 9     |       |  |  |  |  |
| ALL | 13.7 |          |     | 50                  | 9     | 29    | 12    |  |  |  |  |

# Unit Cruise Design: RED ROCKET U1

| Design  | Cruise | FMA   | N     | N Cruise | N Void |
|---|--------|-------|-------|----------|--------|
|   | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (54.44) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 2.0    | 1.7   | 1     | 1        | 0      |

# Unit Cruise Summary: RED ROCKET U1

| Sp  | <b>Cruised Trees</b> | All Trees | Trees/Plot | Ring-Count Trees |
|-----|----------------------|-----------|------------|------------------|
| WH  | 4                    | 4         | 4.0        | 0                |
| DF  | 1                    | 1         | 1.0        | 0                |
| ALL | 5                    | 5         | 5.0        | 0                |

#### **Unit Cruise Statistics: RED ROCKET U1**

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| WH  | 217.8              | 0.0          | 0.0          | 94.1                | 20.7            | 10.3            | 20,486               | 20.7          | 10.3          |
| DF  | 54.4               | 0.0          | 0.0          | 80.2                | 0.0             | 0.0             | 4,367                | 0.0           | 0.0           |
| ALL | 272.2              | 0.0          | 0.0          | 91.3                | 19.7            | 8.8             | 24,853               | 19.7          | 8.8           |

| Sp  | Status | Rx  | Ν | D   | DBH  | BL | THT | <b>BF Gross</b> | BF Net | Defect % | TPA   | ВА    | RD   | MBF Net |
|-----|--------|-----|---|-----|------|----|-----|-----------------|--------|----------|-------|-------|------|---------|
| DF  | LIVE   | CUT | 1 | ALL | 12.0 | 57 | 70  | 4,367           | 4,367  | 0.0      | 69.3  | 54.4  | 15.7 | 8.7     |
| WH  | LIVE   | CUT | 4 | ALL | 14.3 | 64 | 79  | 21,715          | 20,486 | 5.7      | 195.2 | 217.8 | 57.6 | 41.0    |
| ALL | LIVE   | CUT | 5 | ALL | 13.7 | 62 | 77  | 26,082          | 24,853 | 4.7      | 264.5 | 272.2 | 73.3 | 49.7    |
| ALL | ALL    | ALL | 5 | ALL | 13.7 | 62 | 77  | 26,082          | 24,853 | 4.7      | 264.5 | 272.2 | 73.3 | 49.7    |

# Cruise Unit Report RED ROCKET U2

# Unit Sale Notice Volume (MBF): RED ROCKET U2

|     |      |          |     | MBF Volume by Grade |       |       |       |         |  |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|--|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw | Utility |  |  |  |
| DF  | 14.7 | 6.0      |     | 299                 | 80    | 159   | 61    |         |  |  |  |
| WH  | 13.3 | 6.0      |     | 157                 | 42    | 82    | 32    |         |  |  |  |
| RA  | 10.8 |          |     | 16                  |       |       | 11    | 5       |  |  |  |
| SS  | 9.9  |          |     | 11                  |       |       | 11    |         |  |  |  |
| RC  | 10.7 |          |     | 9                   |       | 3     | 6     |         |  |  |  |
| ALL | 13.0 | 6.0      |     | 491                 | 122   | 245   | 120   | 5       |  |  |  |

# Unit Cruise Design: RED ROCKET U2

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 31.0   | 31.1  | 16    | 8        | 1      |

# Unit Cruise Summary: RED ROCKET U2

| Sp  | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| DF  | 13            | 36        | 2.3        | 1                |
| WH  | 15            | 21        | 1.3        | 1                |
| RA  | 3             | 3         | 0.2        | 0                |
| SS  | 2             | 2         | 0.1        | 0                |
| RC  | 2             | 2         | 0.1        | 0                |
| ALL | 35            | 64        | 4.0        | 2                |

## Unit Cruise Statistics: RED ROCKET U2

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| DF  | 90.0               | 82.0         | 20.5         | 107.3               | 20.0            | 5.6             | 9,655                | 84.4          | 21.2          |
| WH  | 52.5               | 82.1         | 20.5         | 96.2                | 32.4            | 8.4             | 5,049                | 88.3          | 22.2          |
| RA  | 7.5                | 290.1        | 72.5         | 68.1                | 7.4             | 4.3             | 511                  | 290.2         | 72.6          |
| SS  | 5.0                | 273.3        | 68.3         | 67.7                | 5.2             | 3.7             | 338                  | 273.3         | 68.4          |
| RC  | 5.0                | 400.0        | 100.0        | 56.2                | 10.0            | 7.1             | 281                  | 400.1         | 100.3         |
| ALL | 160.0              | 50.0         | 12.5         | 99.0                | 28.9            | 4.9             | 15,835               | 57.8          | 13.4          |

| Sp  | Status | Rx  | N  | D   | DBH  | BL | THT | BF<br>Gross | BF<br>Net | Defect<br>% | TPA   | ВА    | RD   | MBF<br>Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF  | LIVE   | CUT | 13 | ALL | 14.7 | 69 | 87  | 9,956       | 9,655     | 3.0         | 76.4  | 90.0  | 23.5 | 299.3      |
| RA  | LIVE   | CUT | 3  | ALL | 10.8 | 45 | 54  | 530         | 511       | 3.6         | 11.8  | 7.5   | 2.3  | 15.8       |
| RC  | LIVE   | CUT | 2  | ALL | 10.7 | 33 | 39  | 383         | 281       | 26.6        | 8.0   | 5.0   | 1.5  | 8.7        |
| SS  | LIVE   | CUT | 2  | ALL | 9.9  | 46 | 56  | 338         | 338       | 0.0         | 9.4   | 5.0   | 1.6  | 10.5       |
| WH  | LIVE   | CUT | 15 | ALL | 13.3 | 60 | 73  | 5,633       | 5,049     | 10.4        | 54.4  | 52.5  | 14.4 | 156.5      |
| ALL | LIVE   | CUT | 35 | ALL | 13.5 | 61 | 76  | 16,840      | 15,835    | 6.0         | 160.0 | 160.0 | 43.3 | 490.9      |
| ALL | ALL    | ALL | 35 | ALL | 13.5 | 61 | 76  | 16,840      | 15,835    | 6.0         | 160.0 | 160.0 | 43.3 | 490.9      |

# Cruise Unit Report RED ROCKET U3

# Unit Sale Notice Volume (MBF): RED ROCKET U3

|     |      |          |     | MBF Volume by Grade |       |       |       |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw |  |  |
| DF  | 18.9 |          |     | 174                 | 47    | 110   | 17    |  |  |
| WH  | 18.4 |          |     | 44                  | 12    | 27    | 5     |  |  |
| ALL | 18.7 |          |     | 218                 | 59    | 137   | 22    |  |  |

# Unit Cruise Design: RED ROCKET U3

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 0 ft | 11.0   | 11.3  | 6     | 3        | 0      |

## Unit Cruise Summary: RED ROCKET U3

| Sp  | <b>Cruised Trees</b> | All Trees | Trees/Plot | Ring-Count Trees |
|-----|----------------------|-----------|------------|------------------|
| DF  | 6                    | 19        | 3.2        | 0                |
| WH  | 3                    | 5         | 0.8        | 0                |
| ALL | 9                    | 24        | 4.0        | 0                |

#### **Unit Cruise Statistics: RED ROCKET U3**

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| DF  | 126.7              | 46.5         | 19.0         | 124.7               | 12.2            | 5.0             | 15,791               | 48.1          | 19.6          |
| WH  | 33.3               | 90.3         | 36.9         | 120.6               | 7.7             | 4.5             | 4,021                | 90.7          | 37.1          |
| ALL | 160.0              | 38.7         | 15.8         | 123.8               | 10.5            | 3.5             | 19,812               | 40.1          | 16.2          |

| Sp  | Status | Rx  | N | D   | DBH  | BL | THT | <b>BF Gross</b> | BF Net | Defect % | TPA  | BA    | RD   | MBF Net |
|-----|--------|-----|---|-----|------|----|-----|-----------------|--------|----------|------|-------|------|---------|
| DF  | LIVE   | CUT | 6 | ALL | 18.9 | 82 | 103 | 16,883          | 15,791 | 6.5      | 65.0 | 126.7 | 29.1 | 173.7   |
| WH  | LIVE   | CUT | 3 | ALL | 18.4 | 78 | 98  | 4,134           | 4,021  | 2.7      | 18.1 | 33.3  | 7.8  | 44.2    |
| ALL | LIVE   | CUT | 9 | ALL | 18.8 | 81 | 102 | 21,017          | 19,812 | 5.7      | 83.1 | 160.0 | 36.9 | 217.9   |
| ALL | ALL    | ALL | 9 | ALL | 18.8 | 81 | 102 | 21,017          | 19,812 | 5.7      | 83.1 | 160.0 | 36.9 | 217.9   |

# Cruise Unit Report RED ROCKET U4

Unit Sale Notice Volume (MBF): RED ROCKET U4

|     |      |          |     | MBF Volume by Grade |       |       |       |         |  |  |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|--|--|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw | Utility |  |  |  |  |
| WH  | 14.5 | 6.0      |     | 751                 | 223   | 392   | 136   |         |  |  |  |  |
| DF  | 15.5 | 6.0      |     | 630                 | 221   | 300   | 109   |         |  |  |  |  |
| SS  | 10.8 |          |     | 51                  |       | 17    | 34    |         |  |  |  |  |
| RA  | 11.0 |          |     | 34                  |       |       | 26    | 7       |  |  |  |  |
| RC  | 10.7 |          |     | 13                  |       | 5     | 9     |         |  |  |  |  |
| ALL | 14.2 | 6.0      |     | 1,479               | 444   | 715   | 314   | 7       |  |  |  |  |

# Unit Cruise Design: RED ROCKET U4

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 83.0   | 84.4  | 42    | 16       | 1      |

# Unit Cruise Summary: RED ROCKET U4

| Sp  | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| WH  | 26            | 88        | 2.1        | 2                |
| DF  | 32            | 74        | 1.8        | 2                |
| SS  | 3             | 8         | 0.2        | 0                |
| RA  | 4             | 6         | 0.1        | 0                |
| RC  | 2             | 3         | 0.1        | 0                |
| ALL | 67            | 179       | 4.3        | 4                |

# Unit Cruise Statistics: RED ROCKET U4

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| WH  | 83.8               | 71.3         | 11.0         | 107.9               | 27.7            | 5.4             | 9,047                | 76.5          | 12.3          |
| DF  | 70.5               | 94.5         | 14.6         | 107.7               | 18.5            | 3.3             | 7,594                | 96.3          | 14.9          |
| SS  | 7.6                | 312.0        | 48.1         | 81.0                | 28.6            | 16.5            | 617                  | 313.3         | 50.9          |
| RA  | 5.7                | 292.2        | 45.1         | 71.1                | 10.3            | 5.1             | 407                  | 292.4         | 45.4          |
| RC  | 2.9                | 478.3        | 73.8         | 56.2                | 10.0            | 7.1             | 161                  | 478.4         | 74.1          |
| ALL | 170.5              | 31.5         | 4.9          | 104.6               | 25.6            | 3.1             | 17,824               | 40.6          | 5.8           |

| Sp  | Status | Rx  | N  | D   | DBH  | BL | THT | BF<br>Gross | BF<br>Net | Defect<br>% | TPA   | BA    | RD   | MBF<br>Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF  | LIVE   | CUT | 32 | ALL | 15.5 | 67 | 84  | 8,028       | 7,594     | 5.4         | 53.8  | 70.5  | 17.9 | 630.3      |
| RA  | LIVE   | CUT | 4  | ALL | 11.0 | 47 | 56  | 417         | 407       | 2.6         | 8.7   | 5.7   | 1.7  | 33.7       |
| RC  | LIVE   | CUT | 2  | ALL | 10.7 | 33 | 39  | 219         | 161       | 26.6        | 4.6   | 2.9   | 0.9  | 13.3       |
| SS  | LIVE   | CUT | 3  | ALL | 10.8 | 51 | 62  | 617         | 617       | 0.0         | 12.0  | 7.6   | 2.3  | 51.2       |
| WH  | LIVE   | CUT | 26 | ALL | 14.5 | 63 | 78  | 9,638       | 9,047     | 6.1         | 73.1  | 83.8  | 22.0 | 750.9      |
| ALL | LIVE   | CUT | 67 | ALL | 14.3 | 62 | 77  | 18,919      | 17,824    | 5.8         | 152.2 | 170.5 | 44.8 | 1,479.4    |
| ALL | ALL    | ALL | 67 | ALL | 14.3 | 62 | 77  | 18,919      | 17,824    | 5.8         | 152.2 | 170.5 | 44.8 | 1,479.4    |

# Cruise Unit Report RED ROCKET U5

# Unit Sale Notice Volume (MBF): RED ROCKET U5

|     |      |          |     | MBF Volume by Grade |       |       |       |         |  |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|--|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw | Utility |  |  |  |
| DF  | 19.5 | 6.0      |     | 620                 | 305   | 256   | 60    |         |  |  |  |
| WH  | 14.2 | 6.0      |     | 324                 | 109   | 155   | 60    |         |  |  |  |
| SS  | 9.9  |          |     | 41                  |       | 9     | 25    | 7       |  |  |  |
| RA  | 11.5 |          |     | 18                  |       |       | 18    |         |  |  |  |
| RC  | 24.0 |          |     | 8                   |       | 7     | 2     |         |  |  |  |
| ALL | 14.6 | 6.0      |     | 1,011               | 413   | 427   | 164   | 7       |  |  |  |

# Unit Cruise Design: RED ROCKET U5

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 52.0   | 51.8  | 26    | 11       | 0      |

# Unit Cruise Summary: RED ROCKET U5

| Sp  | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| DF  | 19            | 64        | 2.5        | 1                |
| WH  | 17            | 39        | 1.5        | 1                |
| SS  | 5             | 7         | 0.3        | 0                |
| RA  | 3             | 3         | 0.1        | 0                |
| RC  | 1             | 2         | 0.1        | 0                |
| ALL | 45            | 115       | 4.4        | 2                |

# **Unit Cruise Statistics: RED ROCKET U5**

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| DF  | 98.5               | 66.2         | 13.0         | 121.1               | 12.4            | 2.9             | 11,920               | 67.4          | 13.3          |
| WH  | 60.0               | 98.4         | 19.3         | 103.9               | 31.7            | 7.7             | 6,231                | 103.4         | 20.8          |
| SS  | 10.8               | 269.0        | 52.8         | 73.1                | 26.9            | 12.0            | 787                  | 270.4         | 54.1          |
| RA  | 4.6                | 373.9        | 73.3         | 74.1                | 7.2             | 4.2             | 342                  | 374.0         | 73.5          |
| RC  | 3.1                | 353.3        | 69.3         | 52.2                | 0.0             | 0.0             | 161                  | 353.3         | 69.3          |
| ALL | 176.9              | 30.8         | 6.0          | 109.9               | 27.0            | 4.0             | 19,441               | 40.9          | 7.3           |

| Sp  | Status | Rx  | N  | D   | DBH  | BL | THT | BF<br>Gross | BF<br>Net | Defect<br>% | TPA   | ВА    | RD   | MBF<br>Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF  | LIVE   | CUT | 19 | ALL | 19.5 | 81 | 103 | 12,481      | 11,920    | 4.5         | 47.5  | 98.5  | 22.3 | 619.9      |
| RA  | LIVE   | CUT | 3  | ALL | 11.5 | 49 | 60  | 354         | 342       | 3.3         | 6.4   | 4.6   | 1.4  | 17.8       |
| RC  | LIVE   | CUT | 1  | ALL | 24.0 | 60 | 75  | 286         | 161       | 43.8        | 1.0   | 3.1   | 0.6  | 8.4        |
| SS  | LIVE   | CUT | 5  | ALL | 9.9  | 42 | 51  | 787         | 787       | 0.0         | 20.1  | 10.8  | 3.4  | 40.9       |
| WH  | LIVE   | CUT | 17 | ALL | 14.2 | 62 | 76  | 6,807       | 6,231     | 8.4         | 54.6  | 60.0  | 15.9 | 324.0      |
| ALL | LIVE   | CUT | 45 | ALL | 15.8 | 65 | 81  | 20,714      | 19,441    | 6.1         | 129.6 | 176.9 | 43.6 | 1,011.0    |
| ALL | ALL    | ALL | 45 | ALL | 15.8 | 65 | 81  | 20,714      | 19,441    | 6.1         | 129.6 | 176.9 | 43.6 | 1,011.0    |

# Cruise Unit Report RED ROCKET U6

# Unit Sale Notice Volume (MBF): RED ROCKET U6

|     |      |          |     | MBF Volume by Grade |       |       |       |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw |  |  |
| DF  | 20.2 |          |     | 24                  | 15    | 9     | 1     |  |  |
| WH  | 16.9 |          |     | 14                  |       | 11    | 3     |  |  |
| ALL | 18.8 |          |     | 38                  | 15    | 20    | 4     |  |  |

# Unit Cruise Design: RED ROCKET U6

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 2.0    | 2.0   | 2     | 2        | 0      |

# Unit Cruise Summary: RED ROCKET U6

| Sp  | <b>Cruised Trees</b> | All Trees | Trees/Plot | Ring-Count Trees |
|-----|----------------------|-----------|------------|------------------|
| DF  | 5                    | 5         | 2.5        | 0                |
| WH  | 3                    | 3         | 1.5        | 0                |
| ALL | 8                    | 8         | 4.0        | 0                |

#### **Unit Cruise Statistics: RED ROCKET U6**

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) |     | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----|----------------------|---------------|---------------|
| DF  | 100.0              | 28.3         | 20.0         | 121.9               | 5.1             | 2.3 | 12,193               | 28.7          | 20.1          |
| WH  | 60.0               | 47.1         | 33.3         | 115.8               | 9.7             | 5.6 | 6,949                | 48.1          | 33.8          |
| ALL | 160.0              | 0.0          | 0.0          | 119.6               | 6.9             | 2.4 | 19,142               | 6.9           | 2.4           |

| Sp  | Status | Rx  | N | D   | DBH  | BL | THT | <b>BF Gross</b> | BF Net | Defect % | TPA  | ВА    | RD   | MBF Net |
|-----|--------|-----|---|-----|------|----|-----|-----------------|--------|----------|------|-------|------|---------|
| DF  | LIVE   | CUT | 5 | ALL | 20.2 | 83 | 105 | 13,020          | 12,193 | 6.4      | 44.9 | 100.0 | 22.2 | 24.4    |
| WH  | LIVE   | CUT | 3 | ALL | 16.9 | 74 | 92  | 6,949           | 6,949  | 0.0      | 38.5 | 60.0  | 14.6 | 13.9    |
| ALL | LIVE   | CUT | 8 | ALL | 18.7 | 79 | 99  | 19,969          | 19,142 | 4.1      | 83.4 | 160.0 | 36.8 | 38.3    |
| ALL | ALL    | ALL | 8 | ALL | 18.7 | 79 | 99  | 19,969          | 19,142 | 4.1      | 83.4 | 160.0 | 36.8 | 38.3    |

# Cruise Unit Report RED ROCKET U7

# Unit Sale Notice Volume (MBF): RED ROCKET U7

|     |      |          |     | MBF Volume by Grade |       |       |       |         |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw | Utility |  |  |
| DF  | 18.9 |          |     | 281                 | 117   | 126   | 38    |         |  |  |
| WH  | 13.8 |          |     | 156                 | 57    | 76    | 23    |         |  |  |
| RC  | 10.7 |          |     | 9                   |       | 3     | 6     |         |  |  |
| SS  | 9.0  |          |     | 5                   |       |       | 5     |         |  |  |
| RA  | 10.0 |          |     | 5                   |       |       |       | 5       |  |  |
| ALL | 14.2 |          |     | 455                 | 174   | 205   | 71    | 5       |  |  |

# Unit Cruise Design: RED ROCKET U7

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 23.0   | 24.1  | 12    | 6        | 0      |

# Unit Cruise Summary: RED ROCKET U7

| Sp  | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| DF  | 11            | 30        | 2.5        | 0                |
| WH  | 11            | 20        | 1.7        | 0                |
| RC  | 2             | 2         | 0.2        | 0                |
| SS  | 1             | 1         | 0.1        | 0                |
| RA  | 1             | 1         | 0.1        | 0                |
| ALL | 26            | 54        | 4.5        | 0                |

# Unit Cruise Statistics: RED ROCKET U7

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| DF  | 100.0              | 67.1         | 19.4         | 122.1               | 11.6            | 3.5             | 12,212               | 68.1          | 19.7          |
| WH  | 66.7               | 46.7         | 13.5         | 101.4               | 38.4            | 11.6            | 6,762                | 60.5          | 17.8          |
| RC  | 6.7                | 346.4        | 100.0        | 56.2                | 10.0            | 7.1             | 375                  | 346.6         | 100.3         |
| SS  | 3.3                | 346.4        | 100.0        | 70.2                | 0.0             | 0.0             | 234                  | 346.4         | 100.0         |
| RA  | 3.3                | 346.4        | 100.0        | 62.3                | 0.0             | 0.0             | 208                  | 346.4         | 100.0         |
| ALL | 180.0              | 37.3         | 10.8         | 109.9               | 30.6            | 6.0             | 19,790               | 48.3          | 12.3          |

| Sp  | Status | Rx  | N  | D   | DBH  | BL | THT | BF<br>Gross | BF<br>Net | Defect<br>% | TPA   | BA    | RD   | MBF<br>Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF  | LIVE   | CUT | 11 | ALL | 18.9 | 81 | 102 | 12,696      | 12,212    | 3.8         | 51.3  | 100.0 | 23.0 | 280.9      |
| RA  | LIVE   | CUT | 1  | ALL | 10.0 | 40 | 47  | 208         | 208       | 0.0         | 6.1   | 3.3   | 1.1  | 4.8        |
| RC  | LIVE   | CUT | 2  | ALL | 10.7 | 33 | 39  | 510         | 375       | 26.6        | 10.7  | 6.7   | 2.0  | 8.6        |
| SS  | LIVE   | CUT | 1  | ALL | 9.0  | 40 | 48  | 234         | 234       | 0.0         | 7.5   | 3.3   | 1.1  | 5.4        |
| WH  | LIVE   | CUT | 11 | ALL | 13.8 | 60 | 74  | 7,489       | 6,762     | 9.7         | 64.2  | 66.7  | 17.9 | 155.5      |
| ALL | LIVE   | CUT | 26 | ALL | 15.4 | 64 | 79  | 21,136      | 19,790    | 6.4         | 139.8 | 180.0 | 45.2 | 455.2      |
| ALL | ALL    | ALL | 26 | ALL | 15.4 | 64 | 79  | 21,136      | 19,790    | 6.4         | 139.8 | 180.0 | 45.2 | 455.2      |

# Cruise Unit Report RED ROCKET U8

# Unit Sale Notice Volume (MBF): RED ROCKET U8

|     |      |          |     | MBF Volume by Grade |       |       |       |  |  |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|--|--|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw |  |  |  |  |
| DF  | 16.3 | 6.0      |     | 565                 | 212   | 253   | 100   |  |  |  |  |
| WH  | 16.8 | 6.0      |     | 363                 | 122   | 179   | 62    |  |  |  |  |
| SS  | 14.0 |          |     | 34                  |       | 26    | 8     |  |  |  |  |
| RA  | 12.0 |          |     | 13                  |       |       | 13    |  |  |  |  |
| ALL | 16.2 | 6.0      |     | 974                 | 334   | 458   | 182   |  |  |  |  |

Unit Cruise Design: RED ROCKET U8

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 47.0   | 46.5  | 24    | 8        | 0      |

# **Unit Cruise Summary: RED ROCKET U8**

| Sp  | <b>Cruised Trees</b> | All Trees | Trees/Plot | Ring-Count Trees |
|-----|----------------------|-----------|------------|------------------|
| DF  | 20                   | 64        | 2.7        | 1                |
| WH  | 11                   | 37        | 1.5        | 1                |
| SS  | 1                    | 4         | 0.2        | 0                |
| RA  | 1                    | 2         | 0.1        | 0                |
| ALL | 33                   | 107       | 4.5        | 2                |

#### **Unit Cruise Statistics: RED ROCKET U8**

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| DF  | 106.7              | 73.9         | 15.1         | 112.6               | 21.6            | 4.8             | 12,013               | 77.0          | 15.8          |
| WH  | 61.7               | 111.5        | 22.8         | 125.2               | 19.5            | 5.9             | 7,718                | 113.2         | 23.5          |
| SS  | 6.7                | 382.2        | 78.0         | 107.6               | 0.0             | 0.0             | 717                  | 382.2         | 78.0          |
| RA  | 3.3                | 338.8        | 69.2         | 80.2                | 0.0             | 0.0             | 267                  | 338.8         | 69.2          |
| ALL | 178.3              | 23.8         | 4.9          | 116.2               | 21.4            | 3.7             | 20,715               | 32.0          | 6.1           |

| Sp  | Status | Rx  | N  | D   | DBH  | BL | THT | BF<br>Gross | BF<br>Net | Defect<br>% | TPA   | ВА    | RD   | MBF<br>Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF  | LIVE   | CUT | 20 | ALL | 16.3 | 66 | 83  | 12,869      | 12,013    | 6.7         | 73.6  | 106.7 | 26.4 | 564.6      |
| RA  | LIVE   | CUT | 1  | ALL | 12.0 | 51 | 62  | 267         | 267       | 0.0         | 4.2   | 3.3   | 1.0  | 12.6       |
| SS  | LIVE   | CUT | 1  | ALL | 14.0 | 70 | 88  | 717         | 717       | 0.0         | 6.2   | 6.7   | 1.8  | 33.7       |
| WH  | LIVE   | CUT | 11 | ALL | 16.8 | 72 | 89  | 7,916       | 7,718     | 2.5         | 40.1  | 61.7  | 15.0 | 362.7      |
| ALL | LIVE   | CUT | 33 | ALL | 16.2 | 68 | 84  | 21,769      | 20,715    | 4.8         | 124.1 | 178.3 | 44.2 | 973.6      |
| ALL | ALL    | ALL | 33 | ALL | 16.2 | 68 | 84  | 21,769      | 20,715    | 4.8         | 124.1 | 178.3 | 44.2 | 973.6      |

# Cruise Unit Report RED ROCKET U9

# Unit Sale Notice Volume (MBF): RED ROCKET U9

|     |      |          |     | MBF Volume by Grade |       |       |       |  |  |  |
|-----|------|----------|-----|---------------------|-------|-------|-------|--|--|--|
| Sp  | DBH  | Rings/In | Age | All                 | 2 Saw | 3 Saw | 4 Saw |  |  |  |
| DF  | 16.9 |          |     | 55                  | 11    | 32    | 12    |  |  |  |
| WH  | 16.9 |          |     | 32                  |       | 26    | 6     |  |  |  |
| ALL | 16.9 |          |     | 86                  | 11    | 58    | 18    |  |  |  |

# Unit Cruise Design: RED ROCKET U9

| Design   | Cruise | FMA   | N     | N Cruise | N Void |
|--|--------|-------|-------|----------|--------|
|  | Acres  | Acres | Plots | Plots    | Plots  |
| B1C: VR, 1 BAF (40) Measure/Count Plots,<br>Sighting Ht = 4.5 ft | 5.0    | 4.9   | 3     | 3        | 0      |

## Unit Cruise Summary: RED ROCKET U9

| Sp  | <b>Cruised Trees</b> | All Trees | Trees/Plot | Ring-Count Trees |
|-----|----------------------|-----------|------------|------------------|
| DF  | 5                    | 8         | 2.7        | 0                |
| WH  | 4                    | 4         | 1.3        | 0                |
| ALL | 9                    | 12        | 4.0        | 0                |

#### **Unit Cruise Statistics: RED ROCKET U9**

| Sp  | BA<br>(sq ft/acre) | BA CV<br>(%) | BA SE<br>(%) | V-BAR<br>(bf/sq ft) | V-BAR CV<br>(%) | V-BAR SE<br>(%) | Net Vol<br>(bf/acre) | Vol CV<br>(%) | Vol SE<br>(%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| DF  | 106.7              | 43.3         | 25.0         | 102.1               | 21.6            | 9.6             | 10,891               | 48.4          | 26.8          |
| WH  | 53.3               | 86.6         | 50.0         | 119.9               | 1.9             | 1.0             | 6,395                | 86.6          | 50.0          |
| ALL | 160.0              | 0.0          | 0.0          | 108.0               | 17.2            | 5.7             | 17,286               | 17.2          | 5.7           |

| Sp  | Status | Rx  | Ν | D   | DBH  | BL | THT | <b>BF Gross</b> | BF Net | Defect % | TPA   | ВА    | RD   | MBF Net |
|-----|--------|-----|---|-----|------|----|-----|-----------------|--------|----------|-------|-------|------|---------|
| DF  | LIVE   | CUT | 5 | ALL | 16.9 | 73 | 92  | 12,397          | 10,891 | 12.1     | 68.5  | 106.7 | 25.9 | 54.5    |
| WH  | LIVE   | CUT | 4 | ALL | 16.9 | 73 | 91  | 6,395           | 6,395  | 0.0      | 34.2  | 53.3  | 13.0 | 32.0    |
| ALL | LIVE   | CUT | 9 | ALL | 16.9 | 73 | 92  | 18,791          | 17,286 | 8.0      | 102.7 | 160.0 | 38.9 | 86.4    |
| ALL | ALL    | ALL | 9 | ALL | 16.9 | 73 | 92  | 18,791          | 17,286 | 8.0      | 102.7 | 160.0 | 38.9 | 86.4    |



# Forest Practices Application/Notification **Notice of Decision**

| FPA/N No:        | 2618151    |                |
|------------------|------------|----------------|
| Effective Date:  | 11/17/2023 |                |
| Expiration Date: | 11/17/2026 |                |
| Shut Down Zone:  | 650        |                |
| EARR Tax Credit: | ⊠ Eligible | ☐ Non-eligible |
| Reference:       | DNR        |                |
|                  | Red Rocket |                |

|                               |                      | E.                   | ARK Tax Credit:     | ⊠ Eligible       |               | 40H-eligible    |
|-------------------------------|----------------------|----------------------|---------------------|------------------|---------------|-----------------|
|                               |                      |                      | Reference:          | DNR              |               |                 |
|                               |                      |                      |                     | Red Rocke        | t             |                 |
| Decision                      |                      |                      |                     |                  |               |                 |
| ☐ Notification Accepted       | Operations shall n   | not begin before the | e effective date.   |                  |               |                 |
|                               | This Forest Praction | ces Application is s | subject to the cond | ditions listed b | elow.         |                 |
| ☐ Disapproved                 | This Forest Practic  | ces Application is o | disapproved for th  | e reasons list   | ed belo       | w.              |
| ☐ Withdrawn                   | Applicant has with   | ndrawn the Forest F  | Practices Applicat  | ion/Notificatio  | n (FPA        | /N).            |
| ☐ Closed                      | All forest practices | s obligations are m  | et.                 |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
| FPA/N Classification          |                      |                      |                     |                  | <u>on Mul</u> | ti-Year Request |
| ☐ Class II ☐ Class III        | ☐ Class IVG          | ⊠ Class IVS          | ☐ 4 years           | ☐ 5 years        |               |                 |
| Conditions on Approval/F      | Reasons for Disapp   | <u>oroval</u>        |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
|                               |                      |                      |                     |                  |               |                 |
| Issued By: Jenny Garsta       | ına                  |                      | Region: Olym        | pic              |               |                 |
|                               |                      |                      |                     |                  |               |                 |
| Title: Forest Practices F     | orester              |                      | Date: 11/17/2       | 023              |               |                 |
|                               |                      | 9                    |                     |                  |               |                 |
| Copies to:                    | indowner, Timber (   | Owner and Operat     | tor                 |                  |               |                 |
| Issued in person: 🛛 🖂 LC      | O TO OP B            | By: Rosielly San     | chez                | [                | Date:         | 11/17/2023      |
| 2023 January – FPA/N Notice o | f Decision           |                      |                     |                  | Page 1        | of <b>2</b>     |

#### Appeal Information

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

#### You must file your appeal at all three addresses below:

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

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

#### Other Applicable Laws

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

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

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

Continuing Forestland Obligations (RCW 76.09.060. RCW 76.09.070. RCW 76.09.390. and WAC 222-20-055)
Obligations include reforestation, road maintenance and abandonment plans, conversions of forestland to non-forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

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

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

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

#### **DNR Declaration of Mailing**

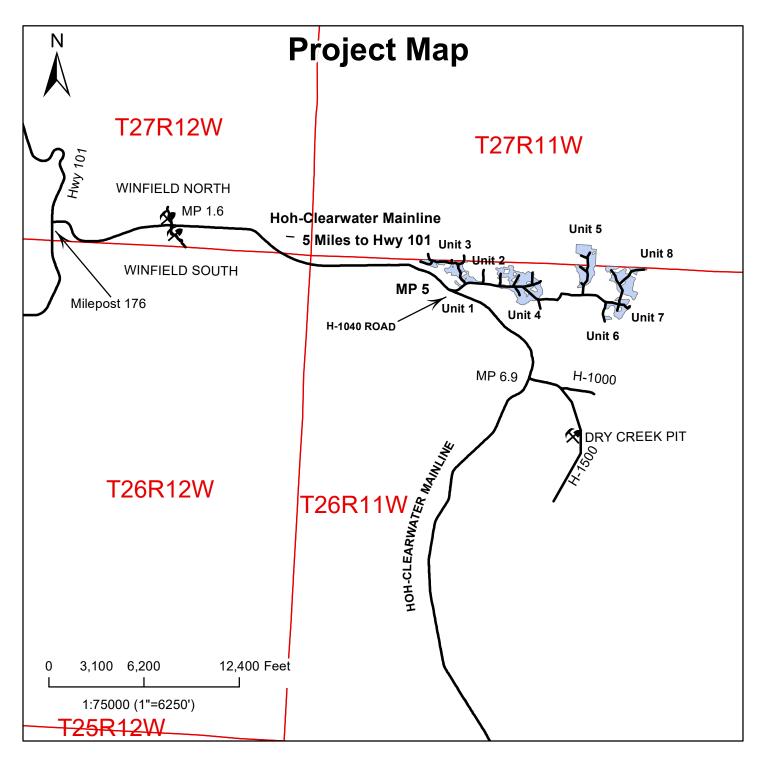
I, Choose an item., caused the Notice of Decision for FPA/N No. Click or tap here to enter text. to be placed in the United States mail at Forks, WA, postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

| 11/17/2023 | Forks, Washington           | 1252        |   |
|------------|-----------------------------|-------------|---|
| (Date)     | (City & State where signed) | (Signature) | 0 |

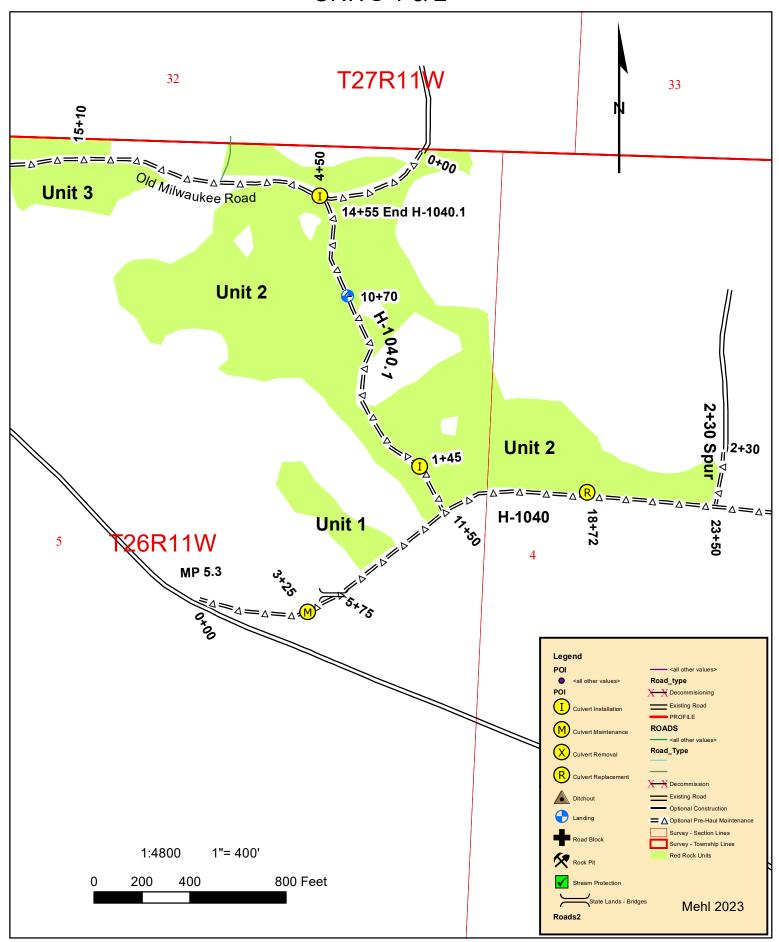
# STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES RED ROCKET TIMBER SALE ROAD PLAN JEFFERSON COUNTY COAST DISTRICT

AGREEMENT NO.: 30-104816 DISTRICT ENGINEER: BILL MEHL

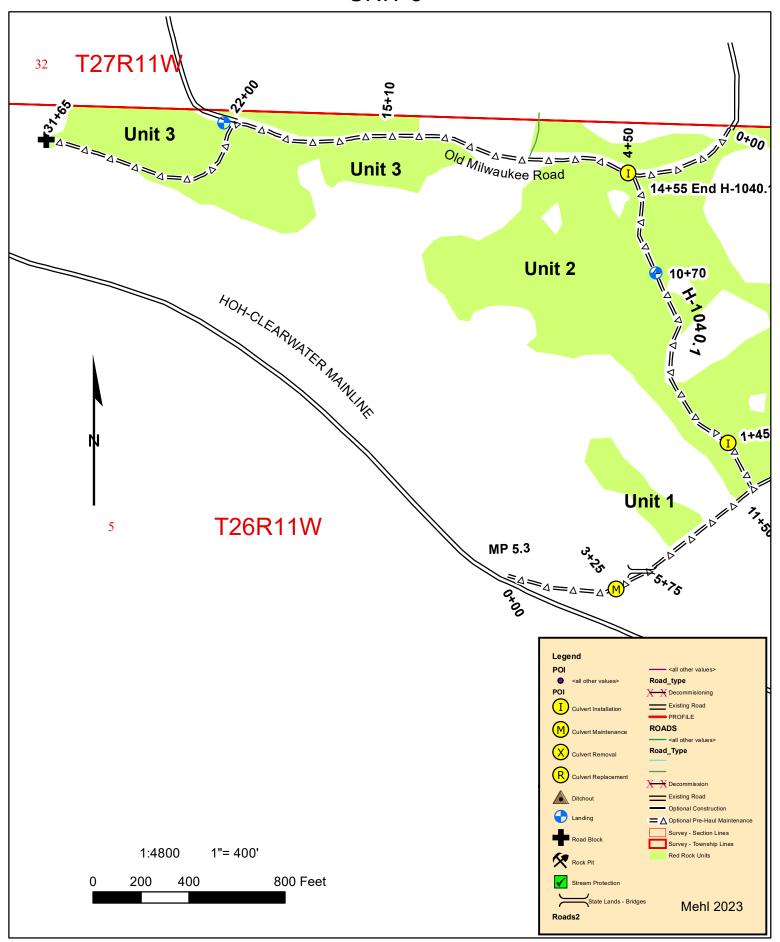
DATE 8 DECEMBER 2023 DRAWN AND COMPILED BY: MATTHEW ODEA



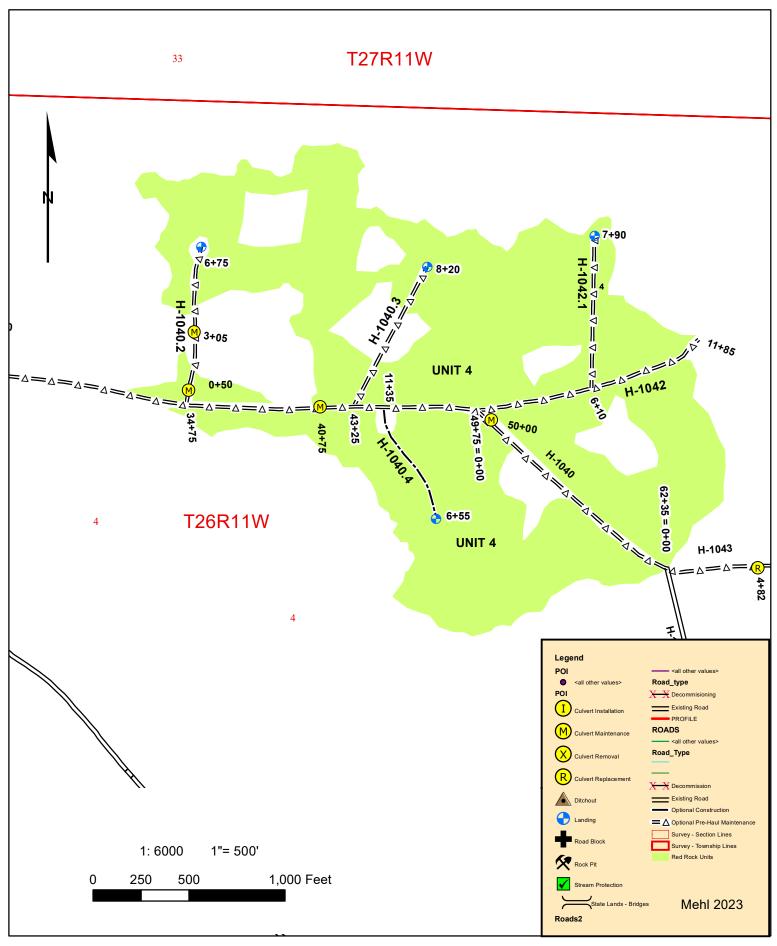
# RED ROCKET UNITS 1 & 2



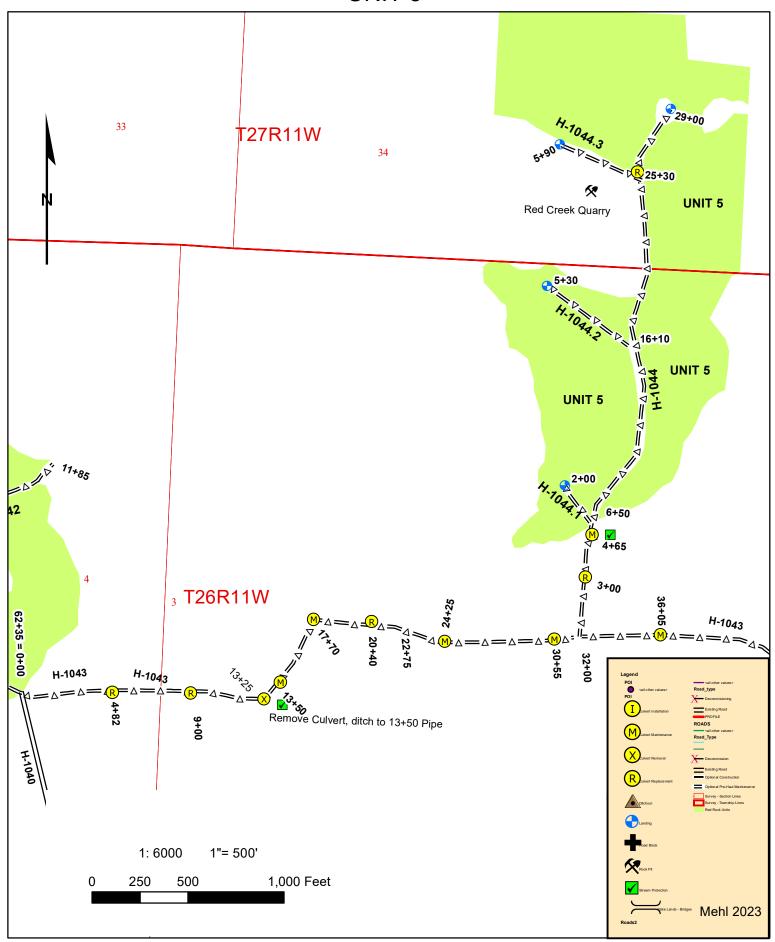
# RED ROCKET UNIT 3



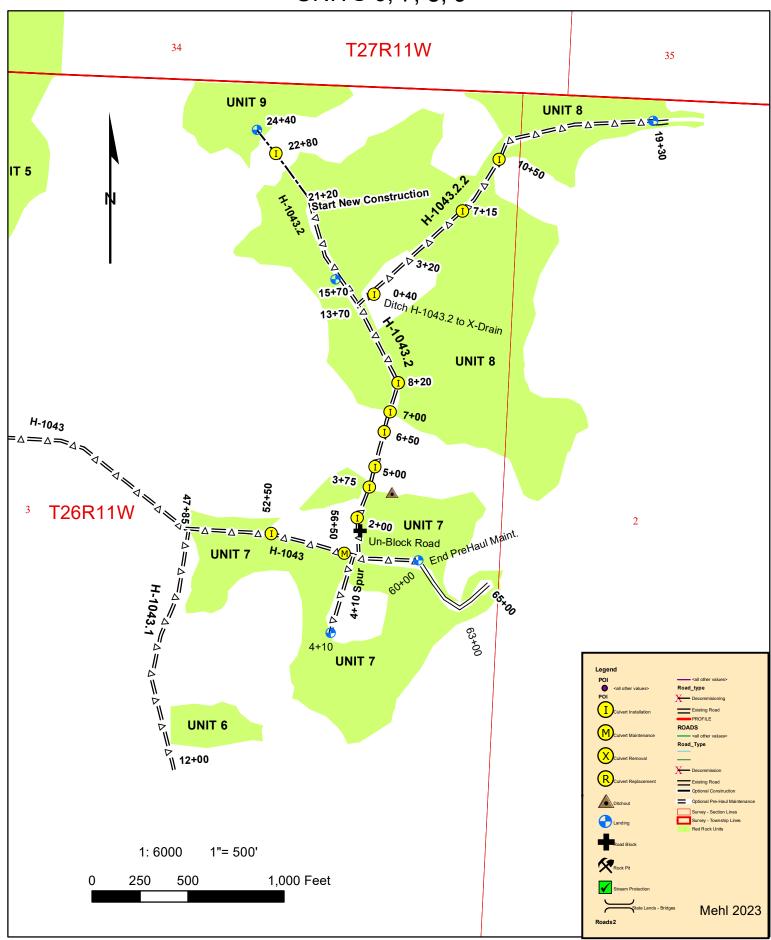
# RED ROCKET UNIT 4



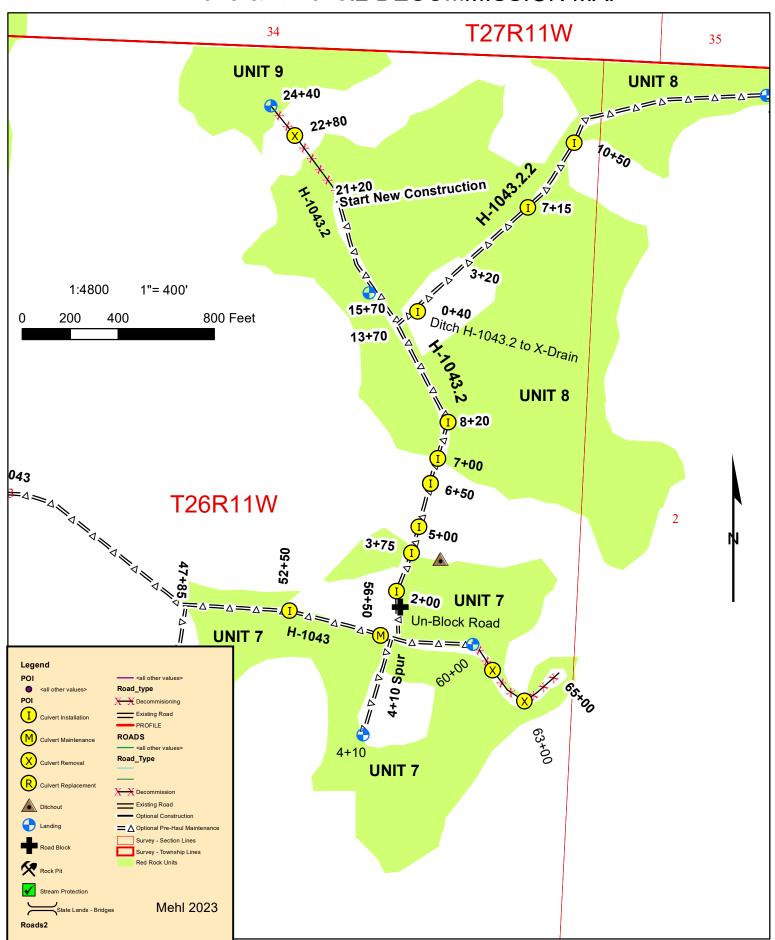
# RED ROCKET UNIT 5



# RED ROCKET UNITS 6, 7, 8, 9



# RED ROCKET H-1043 & H-1043.2 DECOMMISSION MAP



#### 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.

#### 0-3 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>          |
|--------------------|---------------------------|----------------------|
| Old Milwaukee Road | 31.65                     | pre-haul maintenance |
| H-1040             | 62.35                     | pre-haul maintenance |
| H-1040.1           | 14.55                     | pre-haul maintenance |
| 2+30 Spur          | 2.30                      | pre-haul maintenance |
| H-1040.2           | 6.75                      | pre-haul maintenance |
| H-1040.3           | 8.20                      | pre-haul maintenance |
| H-1040.4           | 6.55                      | construction         |
| H-1042             | 11.85                     | pre-haul maintenance |
| H-1042.1           | 7.90                      | pre-haul maintenance |
| H-1043             | 60.00                     | pre-haul maintenance |
| H-1043.1           | 12.00                     | pre-haul maintenance |
| H-1043.2           | 21.20                     | pre-haul maintenance |
| H-1043.2           | 3.20 (Sta. 21+20 – 24+40) | construction         |
| H-1043.2.2         | 19.30                     | pre-haul maintenance |
| 4+10 Spur          | 4.10                      | pre-haul maintenance |
| H-1044             | 29.00                     | pre-haul maintenance |
| H-1044.1           | 2.00                      | pre-haul maintenance |
| H-1044.2           | 5.30                      | pre-haul maintenance |
| H-1044.3           | 5.90                      | pre-haul maintenance |

#### 0-4 CONSTRUCTION

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

| Road     | <u>Stations</u> | <u>Requirements</u> |
|----------|-----------------|---------------------|
| H-1040.4 | 0+00 – 6+55     | See Below           |
| H-1043.2 | 21+20 – 24+40   | See Below           |
| Total    | 9.75 Sta        |                     |

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.

#### 0-6 PRE-HAUL MAINTENANCE

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

| Road               | <u>Stations</u> | Requirements  |
|--------------------|-----------------|---|
| Old Milwaukee Road | 0+00 – 31+65    | Brush road in accordance with Clause 3-1 and Brushing Detail. Dispose of waste material in accordance with Clause 4-36 and Clause 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.  |
| H-1040             | 0+00 – 62+35    | Install/replace/maintain culverts in accordance with Culvert List Brush road in accordance with Clause 3-1 and Brushing Detail Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.   |
| H-1040.1           | 0+00 -14+55     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Install Culverts in accordance with Clause 5-5 and Culvert List. Dispose of waste material in accordance with Clause 4-36 and Clause 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.   |
| 2+30 Spur          | 0+00 – 2+30     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.  |
| H-1040.2           | 0+00 - 6+75     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Install/replace/maintain culverts in accordance with Culvert List. Dispose of waste material in accordance with Clause 4-36 and Clause 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5. |
| H-1040.3           | 0+00 – 8+20     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.  |
| H-1042             | 0+00 - 11+85    | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.  |
| H-1042.1           | 0+00 - 7+90     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock  |

| Road       | <u>Stations</u> | <u>Requirements</u>   |
|------------|-----------------|---|
|            |                 | List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.   |
| H-1043     | 0+00 – 60+00    | Install/replace/maintain culverts in accordance with Culvert List Brush road in accordance with Clause 3-1 and Brushing Detail Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5. Install sediment control structures in accordance with 8-1 and 2-7.       |
| H-1043.1   | 0-00-12+00      | Brush road in accordance with Clause 3-1 and Brushing Detail Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.   |
| H-1043.2   | 0+00 – 21+20    | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5. Construct ditch outs in accordance with Clause 4-29 and 4-38         |
| H-1043.2.2 | 0+00 – 19+30    | Brush road in accordance with Clause 3-1 and Brushing Detail. Install Culverts in accordance with Clause 5-5 and Culvert List. Dispose of waste material in accordance with Clause 4-36 and Clause 4-38. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5. |
| H-1044     | 0+00 – 29+00    | Install/replace/maintain culverts in accordance with Culvert List Brush road in accordance with Clause 3-1 and Brushing Detail Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5. Maintain erosion control structures in accordance with Clause 2-8 & 8-1.  |
| H-1044.1   | 0+00 - 2+00     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.  |
| H-1044.2   | 0+00 - 5+30     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.  |

| Road                  | <u>Stations</u> | <u>Requirements</u>  |
|-----------------------|-----------------|--|
| H-1044.3              | 0+00 – 5+90     | Remove vegetative material with a minimum loss of rock in accordance with Clause 2-9 and dispose of in accordance with Clause 3-23. Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5. |
| 4+10 Spur             | 0+00 – 4+10     | Brush road in accordance with Clause 3-1 and Brushing Detail Apply rock in accordance with Rock List. Compact rock in accordance with Clause 4-66 and Compaction List. Grade and shape existing road surface in accordance with Clause 2-5.  |
| <b>Total Stations</b> | 304.35 Sta      |  |

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.

#### 0-12 DEVELOP ROCK SOURCE

The Purchaser shall develop rock at Dry Creek Pit. Development will involve crushing 10,000 CY of 4" jaw run rock by July 31, 2024. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

#### SECTION 1 – GENERAL

#### 1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this Road Plan including, but not limited to relocation, extension, change in design, or adding roads; a revised road plan 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.

#### 1-8 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.

#### 1-10 WSDOT STANDARD SPECIFICATION REFERENCE

References in this road plan to "WSDOT Standard Specifications" mean the Washington State Department of Transportation's Standard Specifications for Road, Bridge, and Municipal Construction latest edition (M41-10).

#### 1-12 SURVEY MONUMENTS

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

#### 1-13 LOG LOADING

Log loading on the H-1040 and H-1044 must allow for rock haul from Red Creek Quarry. In addition, no debris from harvesting operations shall be allowed on these roads.

#### 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.

#### 1-18 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

#### 1-21 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-1043.2 | 20+00 – 24+40   | Construction    | October 15 <sup>th</sup> – April |
|          |                 |                 | 15 <sup>th</sup>                 |

#### 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.

#### 1-29 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.

#### 1-33 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

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.

#### **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 Designated Roads**

| Road                    | <u>Stations</u> |
|-------------------------|-----------------|
| H-1040                  | 0+00 – 30+55    |
| H-1044                  | 0+00 – 25+00    |
| Hoh-Clearwater Mainline | 0+00 – 1357+50  |
| H-1500                  | 0+00 – 42+00    |

| Dry Creek Pit Access Roads     | All |
|--------------------------------|-----|
| North Winfield Pit Access Road | All |
|                                |     |

#### 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>                             |
|--------------------|-----------------|---|
| Old Milwaukee Road | 0+00 - 31+65    | Grade, shape and compact existing road surface. |
| H-1040             | 0+00 - 62+35    | Grade, shape and compact existing road surface. |
| H-1040.1           | 0+00 - 14+55    | Grade, shape and compact existing road surface. |
| 2+30 Spur          | 0+00-2+30       | Grade, shape and compact existing road surface. |
| H-1040.2           | 0+00-6+75       | Grade, shape and compact existing road surface. |
| H-1040.3           | 0+00-8+20       | Grade, shape and compact existing road surface. |
| H-1042             | 0+00 - 11+85    | Grade, shape and compact existing road surface. |
| H-1042.1           | 0+00-7+90       | Grade, shape and compact existing road surface. |
| H-1043             | 0+00-60.10      | Grade, shape and compact existing road surface. |
| H1043.1            | 0+00 - 12+00    | Grade, shape and compact existing road surface. |
| H1043.2            | 0+00 - 21+20    | Grade, shape and compact existing road surface. |
| H-1043.2.2         | 0+00 - 19+30    | Grade, shape and compact existing road surface. |
| H-1044             | 0+00 - 29+00    | Grade, shape and compact existing road surface. |
| H-1044.1           | 0+00-2+00       | Grade, shape and compact existing road surface. |
| H-1044.2           | 0+00 - 5+30     | Grade, shape and compact existing road surface. |
| H-1044.3           | 0+00 – 5+90     | Grade, shape and compact existing road surface. |
| 4+10 Spur          | 0+00 – 4+10     | Grade, shape and compact existing road surface. |
|                    |                 | Grade, shape and compact existing road surface. |

## 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.

| <u>Road</u>        | <u>Stations</u> | Left or Right  | <u>Comments</u>                       |
|--------------------|-----------------|----------------|---------------------------------------|
| Old Milwaukee Road | 0+00 – 31+65    | Left and Right | Clean ditch out right at Sta. 21+00 ± |
| H-1043             | 13+50 -14+00    | Right          | Remove pipe and reconstruct ditch     |
| H-1043             | 36+00 – 47+50   | Left & Right   | Reconstruct ditch                     |
|                    |                 |                |                                       |

## 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> | Work Needed                   |
|--------|-----------------|-------------------------------|
| H-1044 | 4+65            | Install 30' of Supported Silt |
|        |                 | Fencing L & R.                |

#### 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.

| Road      | Stations     |
|-----------|--------------|
| H-1040.1  | 0+00 - 14+55 |
| 2+30 Spur | 0+00 – 2+30  |
| H-1040.2  | 0+00 – 6+75  |
| H-1040.3  | 0+00 – 8+20  |
| H-1042    | 0+00 – 11+85 |
| H-1042.1  | 0+00 – 7+90  |
| H-1043.2  | 0+00 – 21+20 |
| H-1044.1  | 0+00 – 2+00  |
| H-1044.2  | 0+00 - 5+30  |
| H-1044.3  | 0+00 - 5+90  |

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.

| <u>Road</u>        | <u>Stations</u> |
|--------------------|-----------------|
| Old Milwaukee Road | 0+00 – 31+65    |
| H-1040             | 0+00 - 62+35    |
| H-1040.1           | 0+00 -14+55     |
| H-1040.2           | 0+00- 6+75      |
| H-1040.3           | 0+00- 7+95      |
| H-1042.1           | 0+00 – 8+15     |
| H-1043             | 0+00 -31+65     |
| H-1043.1           | 0+00 - 12+00    |
| H-1043.2           | 0+00 – 20+00    |
| H-1043.2.2         | 0+00 – 19+30    |
| H-1044             | 0+00 – 29+00    |
| H-1044.1           | 0+00 – 2+00     |
| H-1044.2           | 0+00 – 5+30     |
| 4+10 Spur          | 0+00 – 4+10     |

## 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.

| Road     | <u>Stations</u> |
|----------|-----------------|
| H-1043.2 | 21+20 – 25+00   |

#### 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.

## 3-23 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.

## **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.

## 4-5 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> |
|---------------------------------|-------------------|-------------------|
| Material Type                   | 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.

Embankment widening shall be applied equally to both sides of the road to achieve the required width.

#### 4-12 FULL BENCH CONSTRUCTION

Where side slopes exceed 45%, Purchaser shall use full bench construction for the entire subgrade width.

## SUBSECTION INTERSECTIONS, TURNOUTS AND TURNAROUNDS

#### 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.

#### 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-1043.2    | 3+75 Ditchout R 20' |

## 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 designated embankment sites.

## 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.

#### 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**

## 5-3 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.

| Road     | <u>Stations</u> |
|----------|-----------------|
| H-1043.2 | 21+20 – 24+40   |

#### 5-4 PUNCHEON RESTRICTED

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

## 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.

#### 5-17 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.

## 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  $\frac{3}{4}$  foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet.

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

#### 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.

| Source           | <u>Location</u>    | Rock Type                   |
|------------------|--------------------|-----------------------------|
| Dry Creek Pit    | Sec. 15,T26N, R11W | Pit Run, 4" Jaw Run         |
| North Winfield   | Sec. 35 T27N, R12W | 1 ½" Minus                  |
| Red Creek Quarry | Sec. 34,T27N, R11W | Quarry Spall, Select Borrow |

## 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 5060 cubic yards of 4" jaw run crushed rock, and 950 cubic yards of  $1\frac{1}{2}$ " Minus crushed rock unless authorized by the Contract Administrator.

| <u>Source</u> | <u>Location</u>    | Quantity (yd3)       |
|---------------|--------------------|----------------------|
| 4" Jaw Run    | Dry Creek Pit      | 5060 yd <sup>3</sup> |
| 1 ½" Minus    | Winfield North Pit | 950 yd <sup>3</sup>  |
|               |                    |                      |
|               |                    |                      |

## 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<br>Slope Ratio<br>(Horiz.:Vert.) | Maximum<br>Slope Percent |
|----------------|--|--------------------------|
| Sand           | 2:1                                      | 50                       |
| Gravel         | 1.5:1                                    | 67                       |
| Common Earth   | 1:1                                      | 100                      |
| Fractured Rock | 0.5:1                                    | 200                      |
| Solid Rock     | 0:1                                      | vertical                 |

- Pit walls 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.

## 6-15 REQUIRED ROCK SOURCE WORK

The following rock source work is required. Work is to be done according to the approved Rock Source Development And Reclamation Plan and as directed by the Contract Administrator.

| <u>Site</u>   | <u>Requirements</u>                             |  |
|---------------|---|--|
| Dry Creek Pit | Crush 10,000 CY of 4" Jaw Run by July 31, 2024. |  |

#### SUBSECTION ROCK MANUFACTURE

#### 6-20 ROCK CRUSHING OPERATIONS

Rock crushing operations must conform to the following specifications:

- Operations and placement of oversize material must be conducted in or near the rock source site, as approved in writing by the Contract Administrator.
- The crushing operation must be concluded within 60 working days from the time it begins.
- All testing and operations must be performed in accordance with the attached ROCK CRUSHING COMPLIANCE PROCEDURE.

#### 6-23 ROCK GRADATION TYPES

Purchaser shall manufacture rock in accordance with the types and amounts listed in the Manufacturing list below. Rock must meet the following specifications for gradation and uniform quality during manufacture and placement into a stockpile.

| Rock Type  | <u>Amount</u> |
|------------|---------------|
| 4" Jaw Run | 10,000 CY     |

#### 6-24 ROCK CRUSHING COMPLIANCE PROCEDURE

## Phase II. Production

The Purchaser will notify district engineer or C/A before starting crushing. DNR will conduct a visual inspection to ensure that rock stays in spec. Inspections will take place according to the following schedule:

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

### SUBSECTION ROCK GRADATIONS

## 6-29 1 ½-INCH MINUS CRUSHED ROCK

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

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

## 6-39 4-INCH JAW RUN ROCK

% Passing 4" 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.

## 6-50 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 Weight Range Size Range 20% / 90% 300 lbs. to 1 ton 12"- 36"

## 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 <sup>1</sup>/<sub>2</sub>" minus crushed rock in accordance with the quantities shown on the Rock List.

| <u>Road</u>            | <u>Stations</u>    | <u>Amount</u>       |
|------------------------|--------------------|---------------------|
| H-1040, H-1043, H-1044 | As directed by C/A | 200 yd <sup>3</sup> |

## 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.

## SECTION 8 - EROSION CONTROL

## 8-1 SEDIMENT CONTROL STRUCTURES

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

| R <u>oad</u> | <u>Stations</u> | <u>Comments</u> |
|--------------|-----------------|-----------------|

| H-1044 | 4+65  | Install 30 ft of supported silt fencing L & R. & settling ponds. |
|--------|-------|--|
| H-1043 | 13+50 | Settling pond and Silt fence in ditch.                           |

#### 8-2 PROTECTION FOR EXPOSED SOIL

Purchaser shall furnish and evenly spread a 3-inch layer of straw 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 SpeciesPerennial Ryegrass40.00

Creeping Red Fescue
White Dutch Clover
Colonial Bentgrass
40.00
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.

| Road     | <u>Stations</u> | Excavated<br>Channel Width | <u>Slope</u><br><u>Ratio</u> | <u>Comments</u>     |
|----------|-----------------|----------------------------|------------------------------|---------------------|
| H-1043.2 | 22+80           | 6 ft                       | 1.5:1                        | See Typical Drawing |

#### 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                         |  |

## 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.

## SUBSECTION DECOMMISSIONING AND ABANDONMENT

## 9-20 ROAD DECOMMISSIONING

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

| Road     | <u>Stations</u> | <u>Type</u> |
|----------|-----------------|-------------|
| H-1043.2 | 21+20- 24+40    | Light       |
| H-1043   | 60+00 – 65+00   | Light       |
| Total:   | 8.20 Sta        |             |

## 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** 

## 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.

|                         | <u>ASTM</u><br><u>Test</u> | <u>Requirements</u>  |
|-------------------------|----------------------------|--|
| Type                    |                            | Unsupported between posts                                      |
| Apparent opening size   | D 4751                     | No. 30 max., No. 100 min.                                      |
| Water permittivity      | D 4491                     | 0.02 sec <sup>-1</sup>   |
| 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.

## 10-21 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

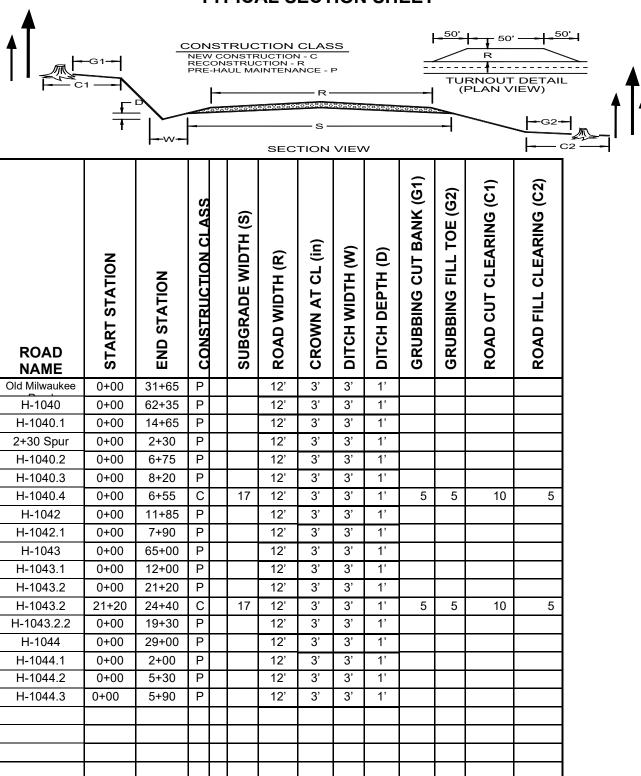
Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands.

#### 10-24 GAGE AND CORRUGATION

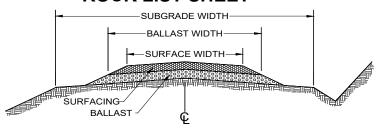
Metal culverts shall conform to the following specifications for gage and corrugation as a function of diameter.

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

## **TYPICAL SECTION SHEET**



# **ROCK LIST SHEET**



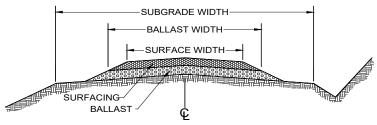
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- 1. Rock quantities, subtotals and totals are "truck measure" estimates. Rock shall be applied to at least the depths listed.
  - 2. All depths are compacted depths.
  - 3. Rock slopes shall be  $1\frac{1}{2}$  (H): 1 (V).
  - 4. All rock sources are subject to approval by the Contract Administrator.
  - 5. Rock sources= #1 Dry Creek Pit (pit run), #2 North Winfield Pit (1 1/2" Minus), #3 Red Creek Quarry (quarry

spalls, select borrow), #4 Dry Creek 4" Jaw Run.

| ROAD<br>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 Subtotal(yd³) | Oversize/ Rip rap<br>Source | Oversize/Rip Rap<br>Quantitv(vd³) |
|---------------|---------------|-------------|---------------------|---------------|-------------------|-------------------|--------------------------|----------------------|----------------|--------------------|--------------------|---------|-----------------------|-----------------------------|-----------------------------------|
| Old Milwaukee |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       |                             |                                   |
| Misc          | 0+00          | 31+65       |                     |               |                   |                   |                          |                      | 4              |                    |                    |         | 100                   |                             |                                   |
| Culvert       | 4+50          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |         |                       |                             |                                   |
| Landing       | 22+00         |             |                     | 1             |                   |                   |                          | 40                   |                |                    |                    |         |                       |                             |                                   |
| H-1040        | 0+00          | 62+35       |                     |               |                   |                   |                          |                      | 2              |                    |                    |         | 100                   | 3                           | 3                                 |
| Culvert       | 18+72         |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |         |                       | 3                           | 5                                 |
| H-1040.1      |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       |                             |                                   |
| Lift          | 0+00          | 14+65       |                     |               |                   |                   |                          |                      | 4              | 12                 | 6                  | 35      | 510                   |                             |                                   |
| Culvert       | 1+45          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |         |                       |                             |                                   |
| Culvert       | 14+55         |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |         |                       |                             |                                   |
| 2+30 Spur     |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       |                             |                                   |
| Misc          |               |             |                     |               |                   |                   |                          |                      | 4              |                    |                    |         | 20                    |                             |                                   |
| H-1040.2      |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       |                             |                                   |
| Lift          | 0+00          | 6+75        |                     |               |                   |                   |                          |                      | 4              | 12                 | 6                  | 35      | 240                   |                             |                                   |
| Culvert       | 3+05          |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       | 3                           | 10                                |
| H-1040.3      |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       |                             |                                   |
| Lift          | 0+00          | 8+20        |                     |               |                   |                   |                          |                      | 4              | 12                 | 6                  | 35      | 280                   |                             |                                   |
| H-1040.4      |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       |                             |                                   |
| Lift          | 0+00          | 6+55        | 17.0                | 1             | 12                | 18                | 110                      | 720                  |                |                    |                    |         |                       |                             |                                   |
| H-1042        |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |         |                       |                             |                                   |
| Lift          | 0+00          | 11+85       |                     |               |                   |                   |                          |                      | 4              | 12                 | 4                  | 20      | 240                   |                             |                                   |
| Totals:       |               |             |                     |               |                   |                   |                          | 840 CY               | Jav            | v: 1,390           | CY (               | Crushed | 100CY                 |                             | 18                                |

# **ROCK LIST SHEET CONTINUED**



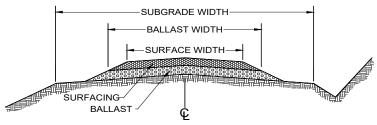
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  - 3. Rock slopes shall be  $1\frac{1}{2}$  (H): 1 (V).
  - 4. All rock sources are subject to approval by the Contract Administrator.
- 5. Pitrun is defined as pitrun or ballast per Line 6. Crushed is defined as any crushed rock from ½" minus to 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 Dry Creek Pit (pit run), #2 North Winfield Pit (1 1/2" Minus), #3 Red Creek Quarry (quarry spalls, select borrow), #4 Dry Creek 4" Jaw Run.

| ROAD NAME<br>H-1042.1 | 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<br>Quantity(yd³/sta) | Crushed Subtotal(yd³) | Oversize/ Rip rap<br>Source | Oversize/Rip Rap |
|-----------------------|---------------|-------------|---------------------|---------------|-------------------|-------------------|--------------------------|----------------------|----------------|--------------------|--------------------|------------------------------|-----------------------|-----------------------------|------------------|
| Lift                  | 0+00          | 8+20        |                     |               |                   |                   |                          |                      | 4              | 12                 | 6                  | 35                           | 280                   |                             |                  |
| H-1043                |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                              |                       |                             |                  |
| Lift                  | 0+00          | 30+50       |                     |               |                   |                   |                          |                      | 2              | 12                 | 4                  | 20                           | 610                   |                             |                  |
| Culvert               | 4+82          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       |                             |                  |
| Culvert               | 9+00          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       | 3                           | 5                |
| Culvert               | 17+70         |             |                     | 1             |                   |                   |                          |                      |                |                    |                    |                              |                       | 3                           | 5                |
| Culvert               | 20+40         |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       |                             |                  |
| Culvert               | 30+55         |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       |                             |                  |
| H-1043.1              |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                              |                       |                             |                  |
| Lift                  | 0+00          | 12+00       |                     |               |                   |                   |                          |                      | 4              | 12                 | 6                  | 35                           | 420                   |                             |                  |
| H-1043.2              |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                              |                       |                             |                  |
| Lift                  | 0+00          | 20+00       |                     |               |                   |                   |                          |                      | 4              | 12                 | 12                 | 70                           | 1400                  |                             |                  |
| Culvert               | 2+00          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       |                             |                  |
| Culvert               | 3+75          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       |                             |                  |
| Culvert               | 5+00          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       |                             |                  |
| Culvert               | 6+50          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                              |                       | 3                           | 10               |
|                       |               |             | 1                   |               |                   |                   |                          |                      |                |                    |                    |                              |                       |                             |                  |
| Totals:               |               | 1           |                     |               |                   | 16                | 30 CY                    | Pitrun               | Ja             | w: 2,1             | 00 CY              | Crushed                      | 610CY                 |                             | 20               |

# **ROCK LIST SHEET CONTINUED**



## **SECTION VIEW**

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  - 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 ½" 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 Dry Creek Pit (pit run), #2 North Winfield Pit (1 1/2" Minus), #3 Red Creek Quarry (quarry spalls, select borrow), #4 Dry Creek 4" Jaw Run.

| 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<br>(yd³/sta) | Crushed Subtotal(yd³) | Oversize/ Rip rap Source | Oversize/Rip Rap<br>Quantitv(vd³) |
|-------------------------|---------------|-------------|---------------------|---------------|-------------------|-------------------|--------------------------|----------------------|----------------|--------------------|--------------------|-------------------------------|-----------------------|--------------------------|-----------------------------------|
| H-1043.2 Continued      |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                               |                       |                          |                                   |
| Culvert                 | 8+20          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                               |                       | <u> </u>                 |                                   |
| Lift (New Construction) | 21+20         | 24+40       | 17                  | 1             | 12                | 15                | 90                       | 300                  |                |                    |                    |                               |                       |                          |                                   |
| Culvert                 | 22+80         |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                               |                       |                          |                                   |
| H-1043.2.2              |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                               |                       |                          |                                   |
| Lift                    | 0+00          | 19+30       |                     |               |                   |                   |                          |                      | 4              | 12                 | 8                  | 45                            | 870                   | <u> </u>                 |                                   |
| Culvert                 | 0+40          |             |                     | 1             |                   |                   |                          | 20                   |                |                    |                    |                               |                       |                          |                                   |
| Culverts                | 7+15          | &10+50      |                     | 1             |                   |                   |                          | 40                   |                |                    |                    |                               |                       |                          |                                   |
| H-1044                  | 0+00          | 29+00       |                     |               |                   |                   |                          |                      |                |                    |                    |                               |                       |                          |                                   |
| Misc                    |               |             |                     |               |                   |                   |                          |                      | 2              |                    |                    |                               | 40                    |                          |                                   |
| Culverts                | Per list      |             |                     | 1             |                   |                   |                          | 60                   |                |                    |                    |                               |                       |                          |                                   |
| H-1044.1                |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                               |                       |                          |                                   |
| Lift                    | 0+00          | 2+00        |                     |               |                   |                   |                          |                      | 4              | 12                 | 8                  | 45                            | 90                    |                          |                                   |
| H-1044.2                |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                               |                       |                          |                                   |
| Lift                    | 0+00          | 5+65        |                     |               |                   |                   |                          |                      | 4              | 12                 | 6                  | 35                            | 200                   |                          |                                   |
| H-1044.3                |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                               |                       |                          |                                   |
| Lift                    | 0+00          | 5+90        |                     |               |                   |                   |                          |                      | 4              | 12                 | 8                  | 45                            | 270                   |                          |                                   |
| 4+10 Spur (lift)        | 0+00          | 4+10        |                     |               |                   |                   |                          |                      | 4              | 12                 | 6                  | 35                            | 140                   |                          |                                   |
| H-1040/1043/1044        |               |             |                     |               |                   |                   |                          |                      |                |                    |                    |                               |                       |                          |                                   |
| PostHaul Rock           |               |             |                     |               |                   |                   |                          |                      | 2              |                    |                    |                               | 200                   |                          |                                   |
| Totals:                 |               |             |                     |               |                   | F                 | itrun                    | 420 CY               | J              | aw: 1,             | 570 CY             | Crushed 2                     | 240CY                 |                          |                                   |

# **ROCK LIST SHEET GRAND TOTAL**

| Source                         | Quantity (yd³) |
|--------------------------------|----------------|
| 1: Dry Creek Pit Pit Run       | 1,420          |
| 2: Dry Creek 4" Jaw Run        | 5,060          |
| 3: North Winfield 1 ½" Crushed | 950            |
| 4: Red Creek Oversize          | 43             |

# **CULVERT LIST**

| F            |         |                       |                     |                   | <br>                 |                       | <u>I LI</u>       | <del> </del>  |
|--------------|---------|-----------------------|---------------------|-------------------|----------------------|-----------------------|-------------------|---|
| ROAD<br>NAME | STATION | CULVERT DIAMETER (in) | CULVERT LENGTH (ft) | FLUME LENGTH (ft) | RIP RAP - INLET (cy) | RIP RAP – OUTLET (cy) | BACKFILL MATERIAL | NOTES   |
| H-1040       | 3+25    | 24                    |                     |                   |                      | 3                     |                   | Culvert Maint., Clean inlet, add<br>ED to outlet            |
| H-1040       | 18+72   | 18                    | 40                  |                   |                      |                       | PR                | Replace Existing Cross Drain                                |
| H-1040       | 40+75   |                       |                     |                   |                      |                       |                   | Culvert Maint., Clean inlet                                 |
| H-1040       | 50+00   |                       |                     |                   |                      | 5                     |                   | Culvert Maint., Add ED to Outlet                            |
| H-1040.1     | 1+45    | 18                    | 40                  |                   |                      |                       | PR                | New Cross Drain Installation                                |
| H-1040.1     | 4+50    | 18                    | 30                  |                   |                      |                       | PR                | New Cross Drain Installation                                |
| H-1040.2     | 0+50    |                       |                     |                   |                      |                       |                   | Culvert Maint., Clean inlet                                 |
| H-1040.2     | 3+05    | 36                    |                     |                   |                      | 10                    |                   | Ns stream, clean inlet add ED to Outlet.                    |
| H-1043       | 4+82    | 18                    | 30                  |                   |                      |                       | PR                | Replace Existing Cross Drain                                |
| H-1043       | 9+00    | 18                    | 30                  |                   |                      | 5                     | PR                | Replace Existing Cross Drain                                |
| H-1043       | 13+25   |                       |                     |                   |                      |                       |                   | Remove Existing Pipe, ditch to 13+50 pipe                   |
| H-1043       | 13+50   |                       |                     |                   |                      |                       |                   | Culvert Maint., add settling ponds and silt fence in ditch. |
| H-1043       | 17+70   |                       |                     |                   |                      | 5                     |                   | Culvert Maint., Clean inlet, add ED to outlet               |
| H-1043       | 20+40   | 24                    | 30                  |                   |                      |                       | PR                | New Cross Drain Installation                                |
| H-1043       | 24+25   |                       |                     |                   |                      |                       |                   | Culvert Maint., Clean Brush from inlet                      |
| H-1043       | 30+55   |                       |                     |                   |                      |                       |                   | Culvert Maint., Clean inlet & Outlet.                       |
| H-1043       | 36+05   |                       |                     |                   |                      |                       |                   | Culvert Maint., Clean inlet & Outlet.                       |
| H-1043       | 52+50   | 18                    | 30                  |                   |                      |                       | PR                | New Cross Drain Installation                                |
| H-1043       | 56+50   |                       |                     |                   |                      |                       |                   | Culvert Maint., Clean inlet                                 |
| H-1043       | 61+50   |                       |                     |                   |                      |                       |                   | Culvert Removal   |
| H-1043       | 63+00   | 30                    | 40                  |                   |                      |                       | PR                | Culvert Removal.  |

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. \* Means Typed Water.

# **CULVERT LIST CONTINUED**

| H-1043.2    | 2+00  | 18 | 30 |          |  |    | PR | New Cross Drain Installation                           |
|-------------|-------|----|----|----------|--|----|----|--|
| H-1043.2    | 3+75  | 18 | 30 |          |  |    | PR | New Cross Drain Installation + 20' DO                  |
| H-1043.2*   | 5+00  | 24 | 30 |          |  |    | PR | Ns stream install, add SP to ditch                     |
| H-1043.2    | 6+50  | 24 | 40 |          |  | 10 | PR | Ns Stream install, add settling ponds                  |
| H-1043.2    | 7+00  | 18 | 30 |          |  |    | PR | New Cross Drain Installation                           |
| H-1043.2    | 8+20  | 18 | 30 |          |  |    | PR | New Cross Drain Installation                           |
| H-1043.2*   | 22+80 | 24 | 30 |          |  |    | PR | Ns Stream installation                                 |
| H-1043.2.2  | 0+40  | 18 | 26 |          |  |    | PR | New Cross Drain, ditch H-1043.2<br>into                |
| H-1043.2.2  | 7+15  | 18 | 30 |          |  |    | PR | New Cross Drain Installation                           |
| H-1043.2.2* | 10+50 | 24 | 30 |          |  |    | PR | Ns Stream, Existing pipe pulled.                       |
| H-1044      | 3+00  | 18 | 30 |          |  |    | PR | Replace Existing Cross Drain                           |
| H-1044      | 4+65  |    |    |          |  | 5  | PR | Culvert Maint, Add ED to outlet and add settling ponds |
| H-1044      | 25+30 | 18 | 40 |          |  |    | PR | Replace Existing Cross Drain                           |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    | $\vdash$ |  |    |    |  |
|             |       |    |    |          |  |    |    |  |
|             |       |    |    | H        |  |    |    |  |
|             |       |    |    |          |  |    |    |  |

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 1/4"- crushed rock, PR = pit run. \* Means Typed Water.

# **COMPACTION LIST**

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

| 948<br>275<br>331 |  | \$1,240     | Total Costs =  Total Sta. =  Cost per Sta. =   |   | \$80,000   | ABA NDONMENT COSTS:  Creek  Owance for profit and risk.   | MOBILIZATION:  ROAD DEACTIVATION AND ABANDONMENT COSTS Pit Work  Crush 10,000 CY4" Jaw Run Dry Creek  NOTE: This appraisal has no allowance for profit and risk.  Sheet 1 of 2  |
|-------------------|--|-------------|--|---|--|---|---|
| 275               | \$0 \$435 \$31   | \$1 948     |  |   | \$80,000   | ABANDONMENT COSTS:  Creek  owance for profit and risk.  | DBILIZATION: AD DEACTIVATION AND ABA Work Work 10,000 CY4" Jaw Run Dry Cre TTE: This appraisal has no allowar   |
| ¥48               | 0 275 275  | 10          |  |   | \$80,000   | ABANDONMENT COSTS:  | DBILIZATION: AD DEACTIVATION AND ABA Work Work Ish 10,000 CY4" Jaw Run Dry Cre  |
|                   | \$0 \$119,717 \$8,548  | \$18,991    |  |   | \$80,000   | ABA NDONMENT COSTS:   | DBILIZATION:  AD DEACTIVATION AND ABA  Work   |
|                   | Reconst. Prehaul Posthaul  | Const. Reco |  |   |  | ABANDONMENT COSTS:  | DBILIZATION: AD DEACTIVATION AND ABA  |
|                   |  |             |  | \$2,206   |  |   | )BILIZATION:  |
|                   |  |             |  | \$7,400   |  |   |   |
| \$357             | \$221 \$533 \$559 \$:  | \$659       | \$91   | \$107   | \$1,954  | \$1,568   | COST PER STATION:   |
| \$4,230           | \$508 \$3,599 \$4,587 \$4  | \$9,585     | \$5,696  | \$3,395   | \$6,254  | \$10,271  | TOTAL COSTS:  |
| \$313             | \$38 \$267 \$340 \$:   | \$710       | \$422  |   |  |   |   |
| \$1,153           | \$224 \$657 \$798 \$1  | \$1,416     |  | \$251   | \$569  | \$934   | OVERHEAD:   |
| \$0               | \$0 \$0 \$0  | \$0         | \$0  | \$0<br>\$251  | \$135<br>\$569   |   | MISC. EXPENSES: OVERHEAD:   |
| \$0               | \$0 \$0 \$0 \$   |             | \$0  | \$0<br>\$0<br>\$251   | \$0<br>\$135<br>\$569  |   | MISC. EXPENSES: OVERHEAD:   |
|                   |  | \$1,820     | \$1,040<br>\$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$251  | \$900<br>\$0<br>\$135  |   | CULVERTS AND FLUMES: STRUCTURES: MISC. EXPENSES: OVERHEAD:  |
| 0                 | \$106 \$0  |             | \$32<br>\$1,040<br>\$0<br>\$0  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$251  | \$0<br>\$900<br>\$0<br>\$135<br>\$569  |   | LVERTS AND FLUMES: RUCTURES: SC. EXPENSES: ERHEAD:  |
| \$2,518           | 10 0<br>\$106 <b>\$</b> 0  |             | 3<br>\$32<br>\$1,040<br>\$0  | 0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$251  | \$0<br>\$900<br>\$935<br>\$135<br>\$569  | 33 0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$38<br>\$38<br>\$38<br>\$3934   | Oversize: 33  LVERTS AND FLUMES:  RUCTURES:  SC. EXPENSES:  ERHEAD:   |
|                   | 9     \$2,429     \$3,279       10     0       \$106     \$0   |             | \$1,007<br>3<br>\$32<br>\$1,040<br>\$0<br>\$0  | \$1,007<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$                            | \$0<br>\$0<br>\$900<br>\$135<br>\$135  | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$   | Includes both Jaw run and 1-1/2" Oversize: 33  CULVERTS AND FLUMES: STRUCTURES: MISC. EXPENSES: OVERHEAD:   |
| \$0               | 240 280<br>\$2,429 \$3,279<br>10 0<br>\$106 \$0  |             | \$1,007<br>\$3<br>\$3<br>\$32<br>\$1,040<br>\$0  | \$1,007<br>0<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                             | 0<br>0<br>0<br>0<br>89<br>89<br>89<br>89<br>89<br>89<br>89<br>89<br>89<br>89   | 6,010 0 0 S0 S  | 6010<br>aw run and 1-1/2"<br>33<br>ID FLUMES:   |
|                   | \$0 \$0<br>240 280<br>\$2,429 \$3,279<br>10 0  |             | \$206<br>100<br>\$1,007<br>3<br>3<br>\$32<br>\$1,040<br>\$0                                      | \$619<br>100<br>\$1,007<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$251  | \$3,834<br>0<br>0<br>80<br>0<br>0<br>0<br>0<br>80<br>80<br>80<br>80  | \$7,627<br>6,010<br>0<br>0<br>80<br>80<br>80<br>80<br>80<br>80<br>83<br>83<br>83<br>83<br>83  | 6010<br>aw run and 1-1/2"<br>33<br>ID FLUMES:   |
|                   | 0 0<br>\$0 \$0<br>240 280<br>\$2,429 \$3,279<br>\$106 \$0  |             | \$206<br>\$206<br>\$100<br>\$1,007<br>\$3<br>\$32<br>\$1,040<br>\$0                              | \$60<br>\$619<br>100<br>51,007<br>0<br>\$0<br>\$0<br>\$0<br>\$251   | 320<br>\$3,834<br>0<br>50<br>0<br>0<br>0<br>0<br>80<br>80<br>80<br>80<br>80<br>80<br>8   | 720<br>\$7,627<br>0<br>90<br>90<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>8  | Ballast: 1560 1 Surface: 6010 6 Indes both Jaw run and 1-1/2" Oversize: 33 LYERTS AND FLUMES: RUCTURES: SC. EXPENSES: ERHEAD:   |
| \$0               | 0 0<br>80 \$0<br>240 280<br>52,429 \$3,279<br>10 0   |             | 20<br>\$206<br>100<br>\$1,007<br>3<br>\$32<br>\$1,040<br>\$0                                     | 60<br>8619<br>100<br>51,007<br>0<br>0<br>\$0<br>\$0<br>\$0<br>\$251   | 320<br>\$3,834<br>0<br>0<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | 720<br>\$7,627<br>0<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | S (Cu. Yds.)/ROCK ( 1560  6010  aw run and 1-1/2"  33  ID FLUMES:   |
| \$246             | \$0 \$0<br>0 0<br>\$0 \$0<br>240 280<br>52,429 \$3,279<br>110 0  |             | \$0<br>20<br>\$206<br>100<br>\$1,007<br>3<br>\$3<br>\$32<br>\$1,040                              | \$0<br>60<br>\$619<br>100<br>\$1,007<br>0<br>\$0<br>\$0<br>\$251  | \$0<br>320<br>\$3,834<br>0<br>0<br>0<br>0<br>80<br>80<br>80<br>80<br>80<br>80<br>80  | \$0<br>\$7,20<br>\$7,627<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | DITCH CLEANING/CONSTRUCTION: ROCK TOTALS (Cu. Yds.)/ROCK COS Ballast: 1560 1.5 Surface: 6010 6.0 Includes both Jaw run and 1-1/2" Oversize: 33 CULVERTS AND FLUMES: STRUCTURES: MISC. EXPENSES: OVERHEAD:   |
| S0                | \$140 \$170<br>\$0 \$0<br>0 0<br>\$0 \$0<br>\$0 \$0<br>\$0 \$0<br>\$0 \$0<br>240 \$280<br>\$2,429 \$3,279<br>\$106 \$0<br>\$0 \$0  |             | \$1,293<br>\$0<br>20<br>\$206<br>100<br>\$1,007<br>3<br>\$32<br>\$1,040                          | \$656<br>\$0<br>\$60<br>\$619<br>100<br>\$1,007<br>0<br>\$0<br>\$0<br>\$251   | \$0<br>\$0<br>320<br>\$3,834<br>0<br>0<br>0<br>0<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | \$0<br>\$0<br>\$720<br>\$7,627<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | ROAD GRA DING: DITCH CLEANING/CONSTRUCTIO DITCH CLEANING/CONSTRUCTIO DITCH CLEANING/CONSTRUCTIO ROCK TOTALS (Cu. Yds.)/ROCK CC Ballast: 1560  Surface: 6010 6 Includes both Jaw run and 1-1/2" Oversize: 33  CULVERTS AND FLUMES: STRUCTURES: MISC. EXPENSISS: OVERHEAD:          |
| \$0               | \$0 \$0<br>\$140 \$170<br>\$0 \$0<br>0 0<br>\$0 \$0<br>\$0 \$0     |             | \$0<br>\$1,293<br>\$0<br>20<br>\$206<br>100<br>\$1,007<br>3<br>\$32<br>\$1,040                   | \$0<br>\$656<br>\$0<br>\$69<br>\$619<br>100<br>\$1,007<br>0<br>\$0<br>\$0<br>\$251  | \$452<br>\$0<br>\$0<br>\$0<br>\$0<br>320<br>\$3,834<br>0<br>0<br>0<br>0<br>80<br>\$0<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80                                       | \$925<br>\$0<br>\$0<br>\$0<br>\$720<br>\$7,627<br>0<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | EXCAVATION AND FILL:  ROAD GRA DING:  DITCH CLEANING/CONSTRUCTIO  DITCH CLEANING/CONSTRUCTIO  DITCH CLEANING/CONSTRUCTIO  Ballast:  1560  Surface: 6010  Surface: 6010  Surface: 33  CVENTES AND FLUMES: STRUCTURES: MISC. EXPENSES: OVERHEAD:                                    |
| \$0               | \$0 \$0<br>\$0 \$0<br>\$140 \$170<br>\$0 \$0<br>\$0 \$0 |             | \$1,696<br>\$0<br>\$1,293<br>\$0<br>20<br>20<br>\$206<br>100<br>\$1,007<br>3<br>\$32<br>\$1,040  | \$861<br>\$0<br>\$656<br>\$0<br>\$69<br>\$619<br>100<br>\$1,007<br>0<br>\$0<br>\$0<br>\$251                                       | \$0<br>\$452<br>\$0<br>\$0<br>\$0<br>\$0<br>\$3,834<br>0<br>0<br>0<br>0<br>80<br>80<br>81,834<br>83,834<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80                                      | \$0<br>\$925<br>\$0<br>\$0<br>\$0<br>\$720<br>\$7,627<br>0<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | ROAD BRUSHING: EXCAVATION AND FILL: ROAD GRA DING: DITCH CLEANING/CONSTRUCTIO ROCK TOTALS (Cu. Yds.)/ROCK CC Ballast: 1560 Surface: 6010 Surface: 6010 Surface: 33 CULVERTS AND FLUMES: STRUCTURES: MISC. EXPENSES: OVERHEAD:   |
|                   | \$0 \$0<br>\$0 \$0<br>\$0 \$0<br>\$140 \$170<br>\$0 \$0<br>\$0 \$0 |             | \$0<br>\$1,696<br>\$0<br>\$1,293<br>\$0<br>20<br>\$206<br>100<br>\$1,007<br>3<br>\$32<br>\$1,040 | \$0<br>\$861<br>\$0<br>\$656<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                | \$365<br>\$0<br>\$452<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$3,834<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$135<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0 | \$747<br>\$0<br>\$925<br>\$0<br>\$0<br>\$0<br>\$0<br>\$720<br>\$7,627<br>0<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | CLEARING AND GRUBBING: ROAD BRUSHING: EXCAVATION AND FILL: ROAD GRADING: DITCH CLEANING/CONSTRUCTIO ROCK TOTALS (Cu. yds.)/ROCK CO Ballast: 1560  Surface: 6010  Surface: 6010  Surface: 1560  CULVERTS AND FILUMES: STRUCTURES: STRUCTURES: STRUCTURES: STRUCTURES:              |
| 0%                | \$0 \$0<br>\$0 \$0<br>\$0 \$0<br>\$140 \$170<br>\$0 \$0<br>\$0 \$0 |             | \$0<br>\$1,696<br>\$0<br>\$1,293<br>\$0<br>20<br>\$206<br>100<br>\$1,007<br>3<br>\$32<br>\$1,040 | \$0<br>\$861<br>\$0<br>\$656<br>\$0<br>\$69<br>100<br>\$1,007<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0 | \$365<br>\$0<br>\$452<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | \$747<br>\$0<br>\$925<br>\$0<br>\$0<br>\$0<br>\$720<br>\$720<br>\$7,627<br>0<br>0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   | AD BRUSHING AD BRUSHING CAVATION AND FILL: AD GRADING TCH CLEANING/CONSTRUCTIO CK TOTALS (Cu. Yds.)/ROCK CC Ballast: 1560 1 Surface: 6010 6 Surface: 6010 6 Lides both Jaw run and 1-1/2" Oversize: 33 LVERTS AND FLUMES: RUCTURES: SC. EXPENSES: ERHEAD: 5                       |
| 12                | 0%         0%           \$0         \$0           \$0         \$0           \$0         \$0           \$0         \$0           \$140         \$170           \$0         \$0           \$0         \$0           \$0         \$0           \$0         \$0           \$0         \$0           \$0         \$0           \$0         \$0           \$0         \$0           \$0         \$0           \$100         \$0           \$106         \$0  |             | 0% \$0 \$1,696 \$0 \$1,293 \$0 20 \$206 \$100 \$1,007 \$3 \$3 \$3 \$3 \$30 \$50                  | 9% \$0 \$861 \$0 \$8656 \$0 \$60 \$60 \$619 \$1,007 0 \$0 \$0 \$0 \$251   | \$% \$365 \$900 \$900 \$900 \$900 \$900 \$900 \$900 \$90   | 5%  \$747  \$90  \$90  \$720  \$720  \$720  \$720  \$720  \$720  \$730 | SIDESLOPE  CLEARING AND GRUBBING.  ROAD BRUSHING:  EXCAVATION AND FILL:  ROAD GRAD DING:  DITCH CLEANING/CONSTRUCTIO  ROCK TOTALS (Cu. Yds.)/ROCK CC  Ballast:  1560  Surface:  6010  Surface:  6010  Surface:  33  CULVERTS AND FILMES:  STRUCTURES:  MISC. EXPENSES:  OVERHEAD: |

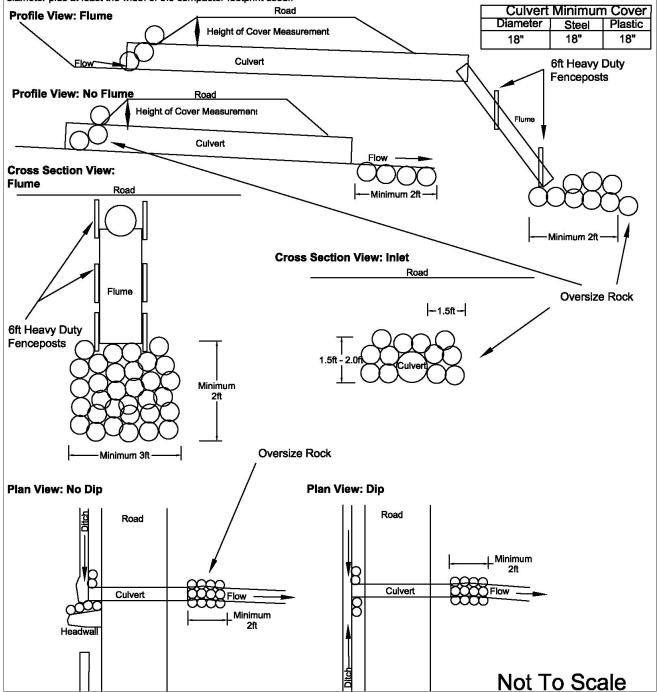
| SALIVAME Red Reached CONTRACTR: 30.0000 See: 317264 RIIW  EGALDESCRIPTION: See: 317264 RIIW  FUNDALI PRIMATE P |    |               |          |         |          |          |          | \$283.00 | Cost/station \$283.00 | Cog       |            |           |            |                     |                  |
|--|----|---------------|----------|---------|----------|----------|----------|----------|-----------------------|-----------|------------|-----------|------------|---------------------|------------------|
| Red Rocket   |    |               |          |         |          |          |          | 252.35   | Stations              |           |            |           |            |                     |                  |
| SUMMARY  |    |               |          |         |          |          |          | \$71,416 | Costs                 |           |            |           |            |                     |                  |
| SUMMARY  |    |               |          |         |          |          |          | Total    |                       |           |            |           |            |                     |                  |
| SUMMARY - Road Development Cost   DISTRICT: Olympic   DISTRICT:    |    |               |          |         |          |          |          |          |                       |           |            |           |            | Page 2 of 2         |                  |
| SUMMARY - Road Development Costs   DISTRICT   Olympic   District   Olympic   District   Olympic   Olympic   District   Olympic   Olympic   District   Olympic   Olym   |    | \$23          | \$45     | \$44    | \$43     | \$698    | \$594    | \$678    | \$163                 | \$480     | \$875      | \$1,284   | \$492      | ATION:              | COST PER ST.     |
| Red Rocker   CONTRACT#: 30-104816   REGION: Olympic   DISTRICT:    |    | \$729         | \$1,304  | \$1,340 | \$2,709  | \$4,117  | \$3,150  | \$1,356  | \$4,717               | \$1,967   | \$16,890   | \$27,231  | \$5,906    | Š                   | TOTAL COST       |
| SUMMARY - Road Development Costs   Summary -   |    | \$72          | \$129    | \$133   | \$268    | \$305    | \$233    | \$100    | \$349                 | \$146     | \$1,251    | \$2,017   | \$437      |                     | OVERHEAD:        |
| Red Rocked   CONTRACTH: 30-104816   Prehaul   Development Costs   DISTRICT: Olympic    |    | \$0           | \$0      | \$0     | \$0      | \$574    | \$516    | \$195    | \$0                   | \$0       | \$0        | \$2,213   | \$0        | Š                   | MISC. EXPENSES   |
| SUMMARY - Road Development Costs   End Rocket   CONTRACT#: 30-104816   Perhaul   Per   |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$0                   | \$0       | \$0        | \$0       | \$0        |                     | STRUCTURES:      |
| SUMMARY - Road Development Costs   SUMMARY - Road Development Costs   SUMMARY - Road Development Costs   SUBTRICT: Olympic     |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$1,820               | \$0       | \$2,356    | \$4,441   | \$0        | ) FLUMES:           | CULVERTS ANI     |
| SUMMARY - Road Development Costs   |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$0                   | \$0       | \$0        | \$125     | \$0        |                     |                  |
| SUMMARY - Road Development Costs   SUMMARY - Road Development Costs   SUMMARY - Road Development Costs   Substruct   Substru   | СҮ |               | 0        | 0       | 0        | 0        | 0        | 0        | 0                     | 0         | 0          | 10        | 0          |                     | Oversize:        |
| Red Rocket   CONTRACT#; 30-104816   REGION: Olympic   DISTRICT:    |    | \$0           | \$574    | \$574   | \$1,147  | \$3,115  | \$2,291  | \$1,020  | \$457                 | \$1,625   | \$10,295   | \$16,772  | \$4,893    | w run and 1-1/2"    | Includes both Ja |
| Red Rocket   CONTRACT#: 30-104816   REGION: Olympic   DISTRICT:    | CY |               | 50       | 50      | 100      | 270      | 200      | 90       | 40                    | 140       | 870        | 1,400     | 420        |                     | Surface:         |
| Red Rocket   CONTRACT#: 30-104816   REGION: Olympic   Distribution   Olympic   Olymp   |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$700                 | \$0       | \$557      | \$1,223   | \$0        |                     |                  |
| Red Rocket   CONTRACT#: 30-104816   REGION:   Olympic   District   Olympic   District   Olympic   Olympic   District   Olympic   Olymp   | CY |               | 0        | 0       | 0        | 0        | 0        | 0        | 60                    | 0         | 60         | 100       | 0          |                     | Ballast:         |
| Red Rocket   CONTRACT#: 30-104816   REGION: Olympic   DISTRICT:    |    |               |          |         |          |          |          |          |                       |           |            |           | TS:        | (Cu. Yds.)/ROCK COS | ROCK TOTALS      |
| Red Rocket   CONTRACT#: 30-104816   REGION: Olympic   DISTRICT:    |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$0                   | \$0       | \$1,505    | \$0       | \$0        | NG/CONSTRUCTION:    | DITCH CLEANI     |
| Red Rocket   CONTRACT#:   30-104816   REGION:   Olympic   Olympic   District   Olympic   District   Olympic   Olym   |    | \$656         | \$601    | \$634   | \$1,293  | \$122    | \$110    | \$41     | \$601                 | \$85      | \$400      | \$440     | \$249      |                     | ROAD GRADING:    |
| Red Rocket   CONTRACT#:  30-104816   REGION:   Olympic   Development Costs   DISTRICT: Olympic   Sec. 3 T26N R11W   H-1043.1   H-1043.2   H-1043.2   H-1043.2   H-1043.2   H-1044.1   H-1044.2   H-1044.3   H-1   |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$0                   | \$0       | \$0        | \$0       | \$0        | AND FILL:           | EXCAVATION /     |
| SUMMARY - Road Development Costs   DISTRICT: Olympic   DISTRICT:   |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$789                 | \$112     | \$525      | \$0       | \$326      | ĬĢ.                 | ROAD BRUSHING    |
| SUMMARY - Road Development Costs   DISTRICT: Olympic   DISTRICT:   |    | \$0           | \$0      | \$0     | \$0      | \$0      | \$0      | \$0      | \$0                   | \$0       | \$0        | \$0       | \$0        | GRUBBING:           | CLEARING AND     |
| SUMMARY - Road Development Costs   DISTRICT: Olympic   DISTRICT:   |    | 0%            | 0%       | 0%      | 0%       | 0%       | 0%       | 0%       | 0%                    | 0%        | 0%         | 0%        | 0%         |                     | SIDESLOPE:       |
| Red Rocket   CONTRACT#;   30-104816   REGION;   Olympic   DISTRICT; Olympic   LEGAL DESCRIPTION;   Sec. 3 T26N R11W   H-1043.1   H-1043.2   H-1043.2   H-1043.2   H-1043.2   H-1043.2   H-1044.1   H-1044.2   H-1044.3   H-1044.3   H-1044   H-1044.1   H-1044.2   H-1044.3   H-1044   H-1044.1   H-1044.2   H-1044.3   H-1044   H-1044   H-1044.3   H-1044   H-1044   H-1044.3   H-1044   H-1044   H-1044.3   H-1044   |    | 32            | 29       | 31      | 62       | 6        | 5        | 2        | 29                    | 4         | 19         | 21        | 12         | ATIONS:             | NUMBER OF ST     |
| Red Rocket   CONTRACT#:  30-104816   REGION:  Olympic   DISTRICT: Olympic   LEGAL DESCRIPTION:   Sec. 3 T26N R11W   H-1043.2   H-1043.2   H-1043.2   H-1043.2   H-1044.3   H-1   |    | Posthaul      | Posthaul |         | Posthaul | Prehaul  | Prehaul  | Prehaul  | Prehaul               | Prehaul   | Prehaul    | Prehaul   | Prehaul    |                     | ROAD TYPE:       |
| Red Rocket CONTRACT#: 30-104816 REGION: Olympic DISTRICT: LEGAL DESCRIPTION: Sec. 3 T26N R11W  |    | Old Milwaukee |          | H-1043  | H-1040   | H-1044.3 | H-1044.2 | H-1044.1 | H-1044                | 4+10 Spur | H-1043.2.2 | H-1043.2  | H-1043.1   |                     | ROAD NAME:       |
| Red Rocket CONTRACT#: 30-104816 REGION: Olympic DISTRICT:  |    |               |          |         |          |          |          |          |                       |           |            | N R11W    | Sec. 3 T26 | GAL DESCRIPTION:    |                  |
| SUMMARY - Road Development Costs   |    |               |          |         | Olympic  |          | I        |          | Olympic               | REGION:   |            | 30-104816 | ONTRACT#:  | Red Rocket CO       | SALE NAME:       |
|  |    |               |          |         |          |          |          | S        | ent Cost              | Developm  | Y - Road   | SUMMAR    |            |                     |                  |

12/8/2023

|            |        |        |        |        |        |        |        |        |        |        | H-1043.2 | H-1043.2 | Road       |                                    | I. MISC. ROAI             |                                    | SALE N                     |  |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|------------|------------------------------------|---------------------------|------------------------------------|----------------------------|--|
| 8.20       | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 5.00     | 3.20     | Stations   |                                    | MISC. ROAD CLOSURE COSTS: |                                    | SALE NAME: Red Rocket      | 12/8/2023                                  |
| \$80.00    |        |        |        |        |        |        |        |        |        |        | \$80.00  |          | \$80.00    | Blocking                           | S:                        | Total static                       |                            |  |
| \$200.00   |        |        |        |        |        |        |        |        |        |        | \$100.00 | \$100.00 | \$20.00    | Waterbarring                       |                           | Total stations Road Closure = 8.20 |                            | REGION - ROA                               |
| \$500.00   |        |        |        |        |        |        |        |        |        |        | \$400.00 | \$100.00 | \$40.00    | Culvert Removal                    |                           | 8.20                               |                            | REGION - ROAD COST ESTIMATE - ROAD CLOSURE |
| \$0.00     |        |        |        |        |        |        |        |        |        |        |          |          | \$165.00   | Ripping                            |                           |                                    |                            | TE - ROAD                                  |
|            |        |        |        |        |        |        |        |        |        |        |          |          | \$153.00   | Guard Rail Install                 |                           |                                    | CON                        | CLOSURE                                    |
| \$0.00     | 1      |        |        |        |        |        |        |        |        |        |          |          | \$75.00    |                                    |                           |                                    | CONTRACT NUMBER: 30-104816 |  |
| \$0.00     | •      |        |        |        |        |        |        |        |        |        |          |          | \$1,195.00 | Sidecast Pullback   Bridge Removal |                           |                                    | ₹: 30-104816               |  |
| \$75.00    |        |        |        |        |        |        |        |        |        |        |          | \$75.00  | \$116.00   | Grass Seeding                      |                           |                                    |                            |  |
| \$400.00   |        |        |        |        |        |        |        |        |        |        | \$200.00 | \$200.00 | \$230.00   | Fill Removal                       |                           |                                    |                            |  |
| \$0.00     |        |        |        |        |        |        |        |        |        |        |          |          | \$256.25   | Large Fill Removal                 |                           |                                    |                            |  |
| \$1,255.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$780.00 | \$475.00 |            | Total                              |                           |                                    |                            |  |

# Typical Cross Drain Culvert Installation Detail Sheet

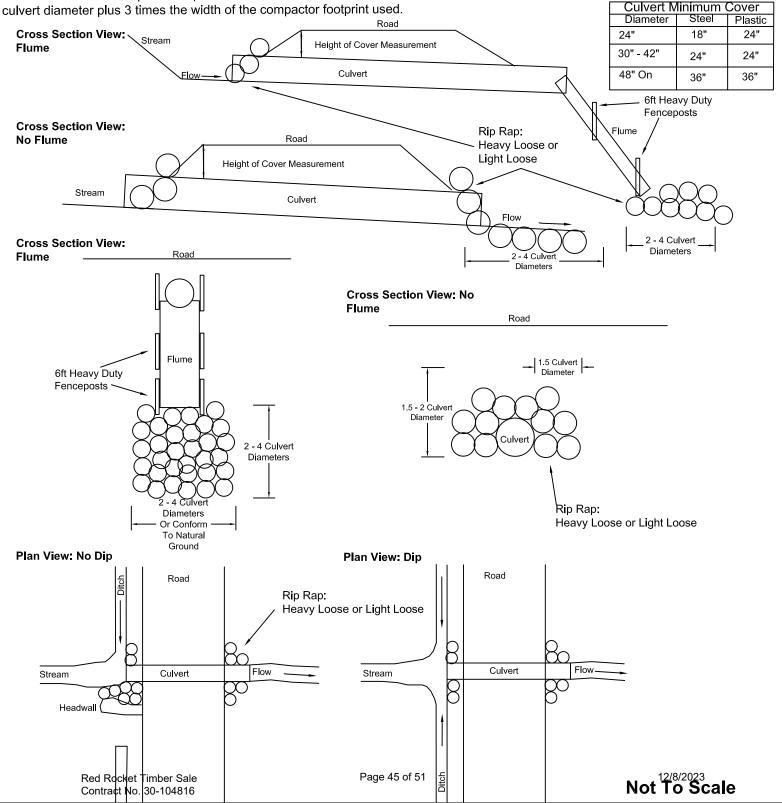
- -Culvert lay shall not exceed 10%.
- -Flumes longer than 10ft shall be staked on both sides at maximum intervals of 10ft with 6ft heavy duty steel fence posts, and fastened securely to the posts with No. 10 galvanized smooth wire or bolted to the fence posts.
- -Oversize shall be placed using a "zero 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 dissipator 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..



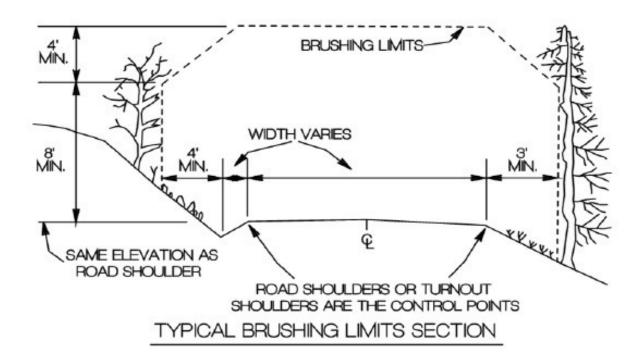
12/8/2023

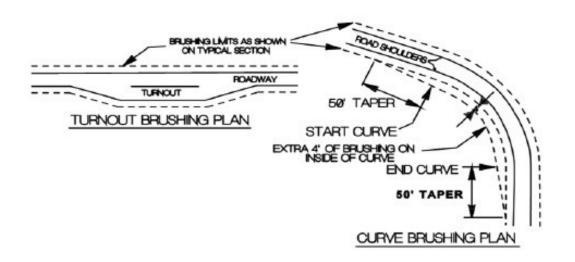
# Typical Type Ns, Np Culvert Installation Detail Sheet.

- -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



# **BRUSHING DETAIL**

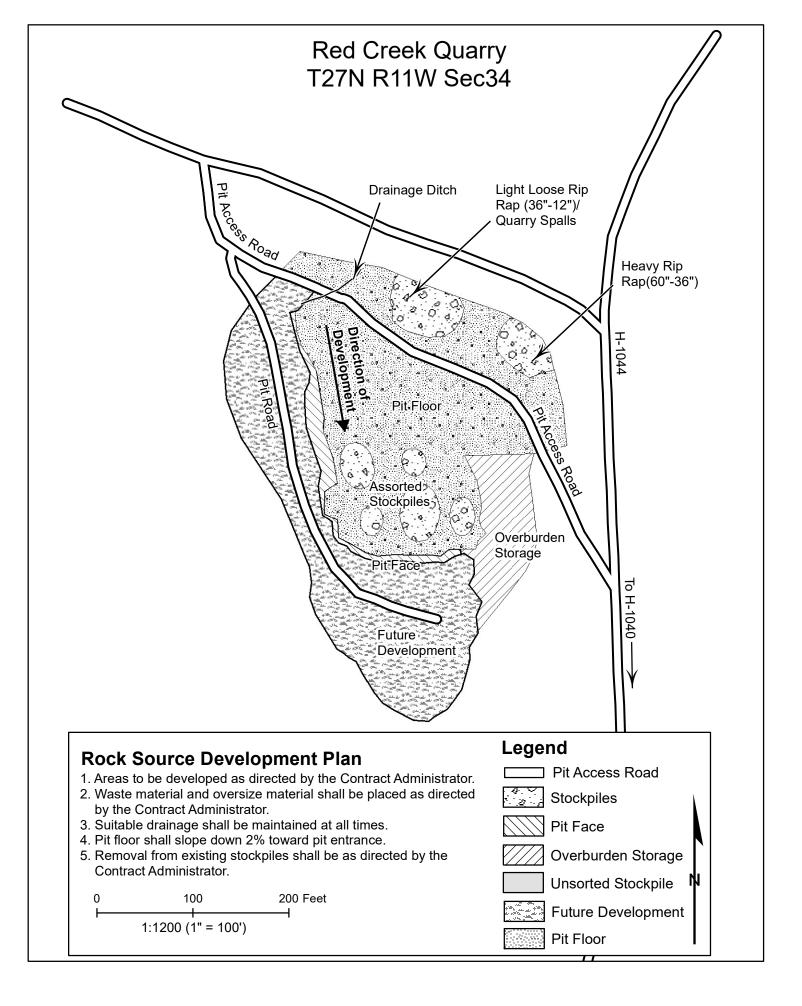




- 1) ALL VEGETATION WITHIN THE BRUSHING LIMITS SHALL BE CUT TO WITHIN 8" OF THE
- GROUND, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.

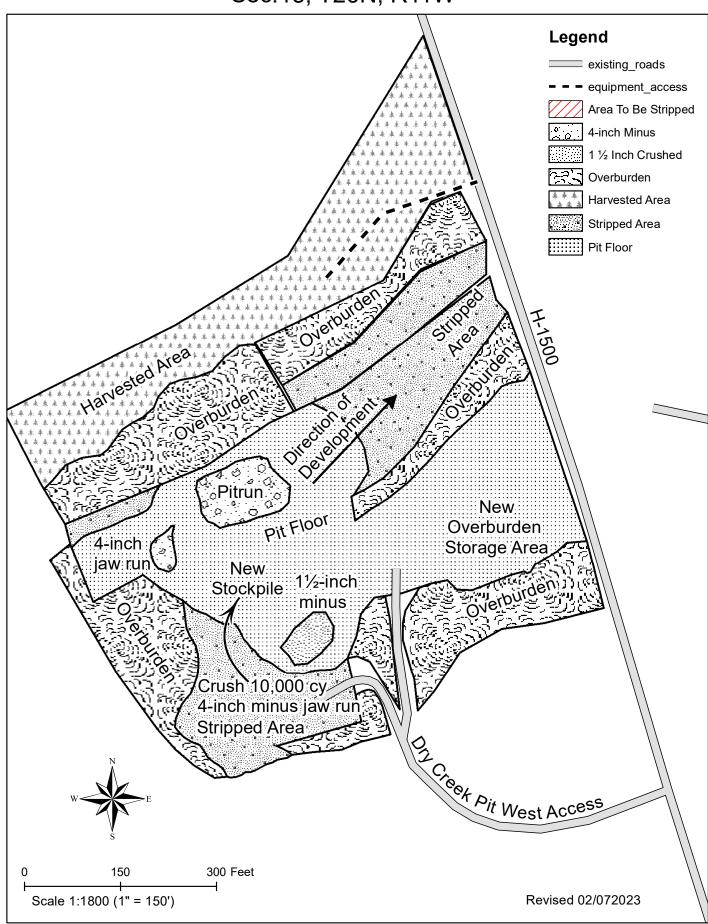
  2.) ALL BRUSH, TREES, LIMBS, ETC. SHALL BE REMOVED FROM THE ROAD SURFACE.

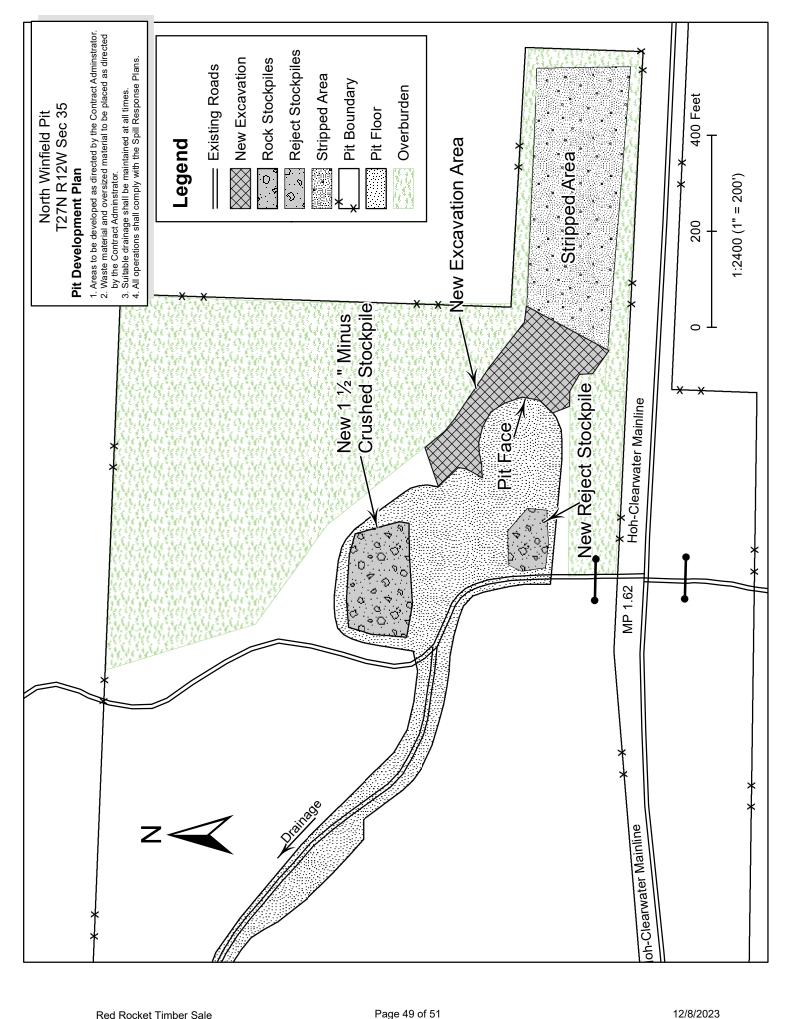
  3.) ALL BRUSH, TREES, LIMBS, ETC. THAT MAY RESTRICT THE FLOW OF WATER SHALL BE REMOVED FROM THE DITCH LINE.
- 4) ALL DEBRIS THAT MAY ROLL OR MIGRATE INTO THE DITCHLINE SHALL BE REMOVED.



12/8/2023

# Dry Creek Pit Plan Sec.15, T26N, R11W





#### 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**

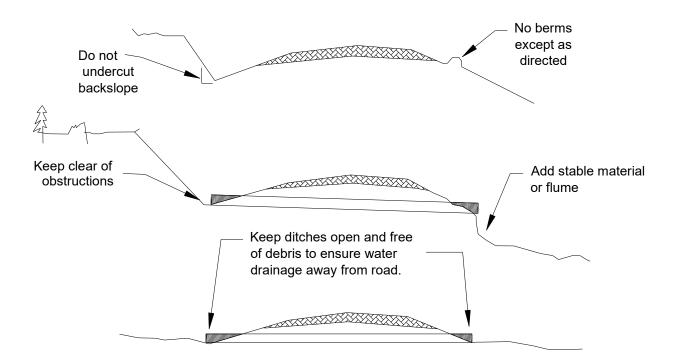
Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

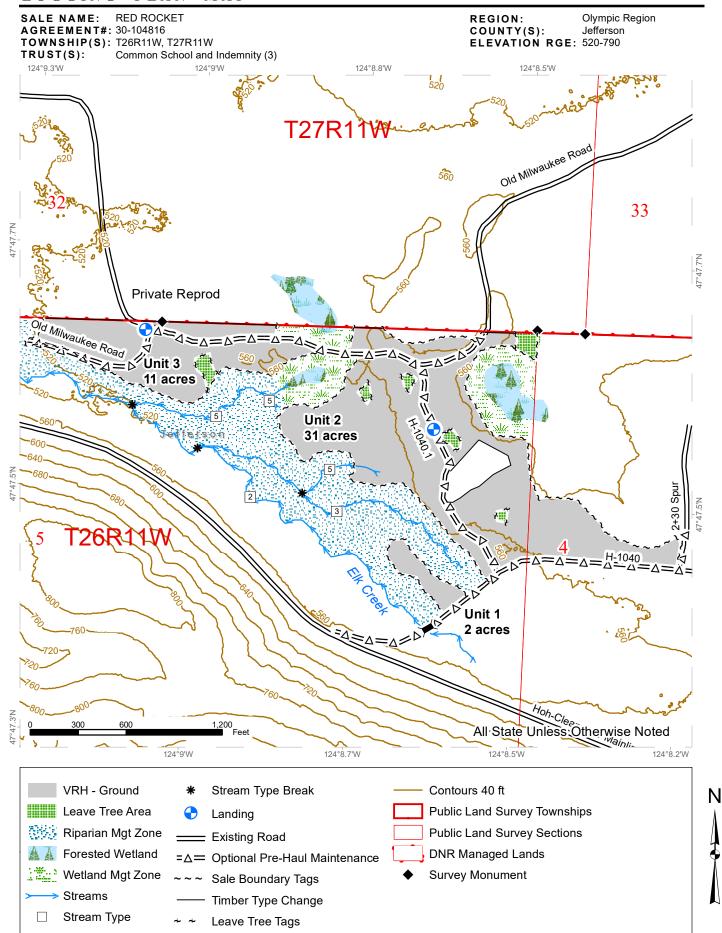
## **Termination of Use or End of Season**

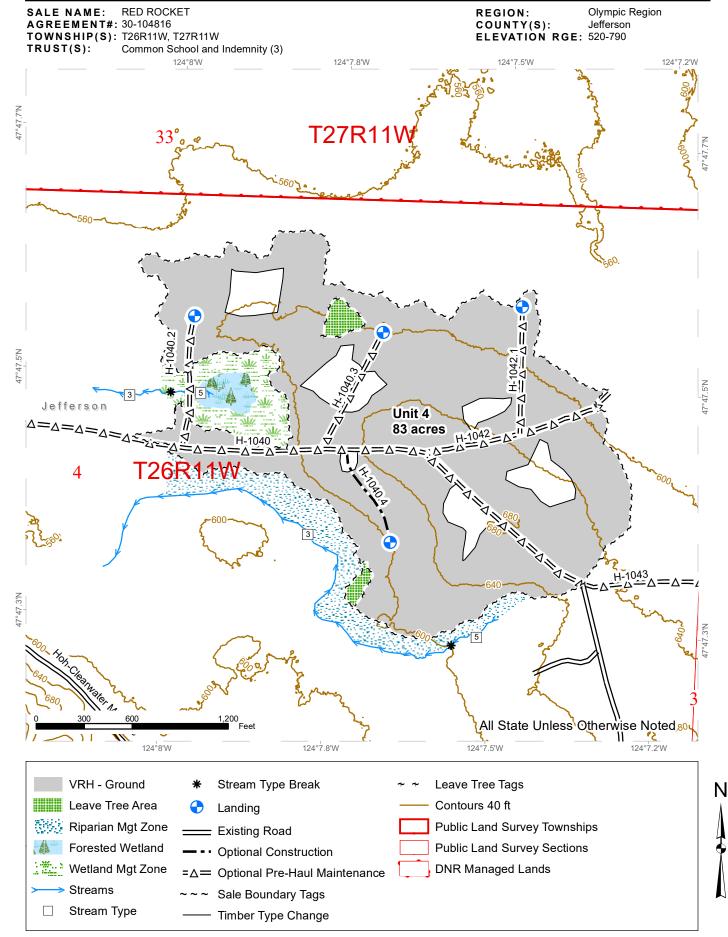
At the conclusion of logging operations, ensure all conditions of these specifications have been met.

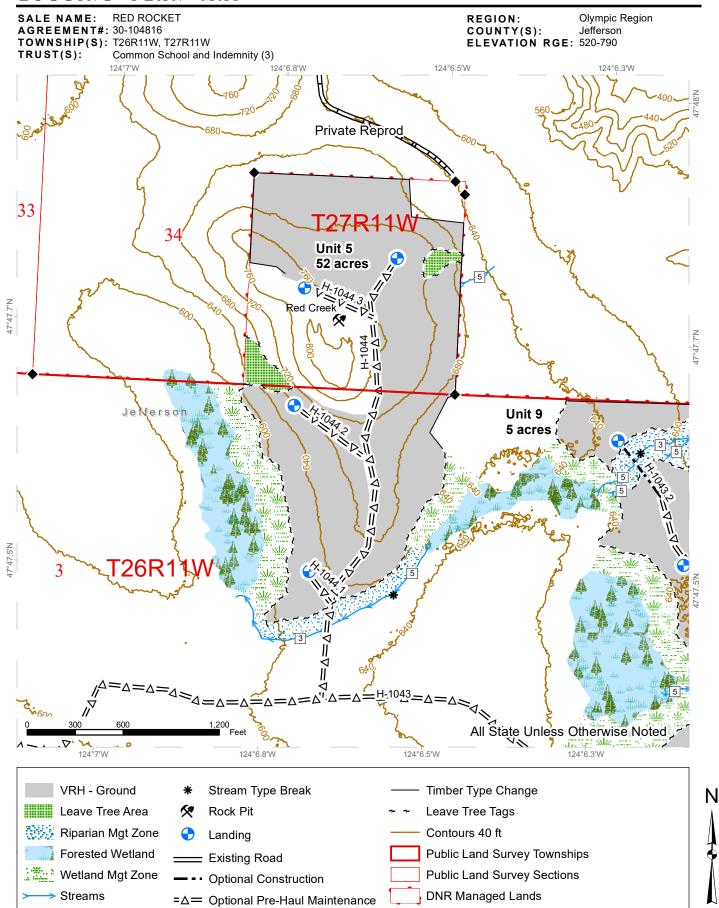
### **Debris**

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





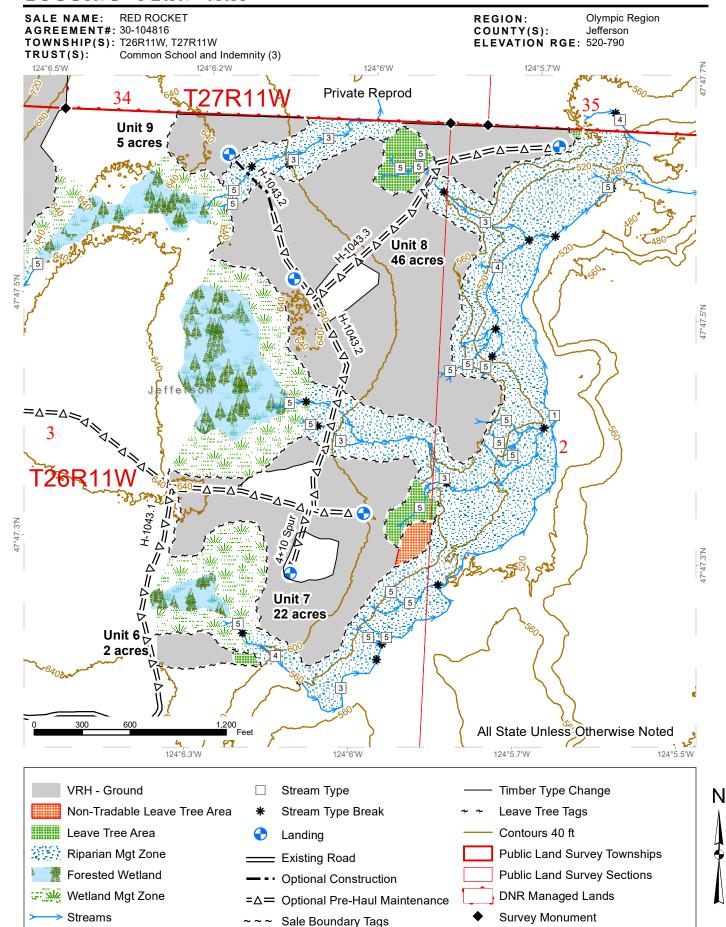




Stream Type

~~~ Sale Boundary Tags

Survey Monument



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

| STATE OF WASHINGTON,                           | ) <sup>72</sup>                             |
|------------------------------------------------|---------------------------------------------|
| Petitioner,                                    | No. 7251                                    |
| vs.                                            | ) JUDGMENT AND DECREE<br>) 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 (N<sup>1</sup>2 NE<sup>1</sup>4), 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:

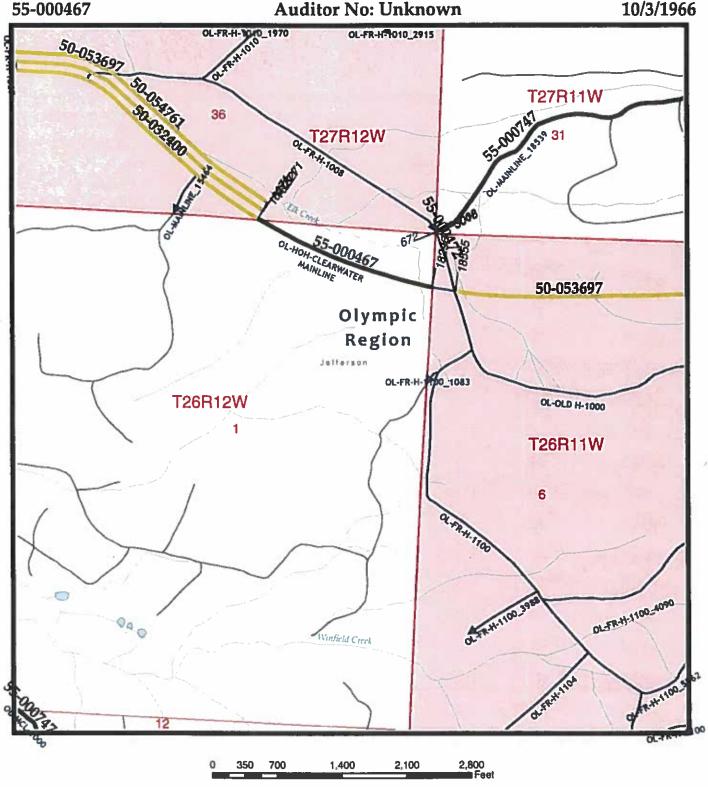
Petitioner to have all rights, privileges, and authority for the full use and enjoyment of land management road FR-H-1000 as it passes over and across the lands described in Exhibit A, above, for any and all purposes deemed necessary or desirable by petitioner in connection with the control, management, 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;

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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| 8                        | 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 JUDGMERT                                       |
| BERT L. COLE, et al.,    | A course                                                       |
| 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