



TIMBER NOTICE OF SALE

SALE NAME: RELLESKOP

AGREEMENT NO: 30-99726

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

SALE LOCATION: Sale located approximately 9 miles East of Battle Ground, WA

PRODUCTS SOLD AND SALE AREA: All timber, except trees marked with blue paint, trees bounded out by yellow "Leave Tree Area" tags, western redcedar, snags, all down timber greater than 24 inches in diameter and all pre-existing stumps, bounded by the following: white "Timber Sale Boundary" tags and private property boundaries marked with pink flagging in Units 1 and 4; white "Timber Sale Boundary" tags, reprod, and the BG-2020 in Unit 2; white "Timber Sale Boundary" tags, and reprod marked with pink flagging in Unit 3,

All forest products above located on part(s) of Sections 30 all in Township 4 North, Range 4 East, Sections 25 and 26 all in Township 4 North, Range 3 East, W.M., containing 114 acres, more or less.

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

ESTIMATED SALE VOLUMES AND QUALITY:

Table with columns: Species, Avg DBH, Ring Count, Total MBF, and MBF by Grade (1P, 2P, 3P, SM, 1S, 2S, 3S, 4S, UT). Rows include Douglas fir, Red alder, and Sale Total.

MINIMUM BID: \$808,000.00 BID METHOD: Sealed Bids

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

EXPIRATION DATE: October 31, 2022 ALLOCATION: Export Restricted

BID DEPOSIT: \$80,800.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: This sale is estimated to be 100% ground based harvest systems. A detailed felling and yarding plan shall be required prior to any harvest activities. Ground-based yarding is restricted to sustained slopes of 40% or less. For additional harvest requirements, refer to the H-140, H-141 and H-142 clauses in the contract. Falling and Yarding will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator. Bald Eagle Timing Restriction in Unit 3 East of the BG-2020C2A road, no operations will occur January 1 to August 31. See Clause H-142, for additional information

All harvesting, yarding and loading operations are prohibited from 7 pm to 7 am on weekdays and prohibited on weekends and State recognized holidays in Unit 1 and Unit 4.



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ROADS: 4.52 stations of required reconstruction. 24.74 stations of optional construction. 2.02 stations of optional reconstruction. 111.25 stations of required prehaul maintenance. 24.76 stations of abandonment, if built. Rock used in accordance with the quantities on the ROCK LIST may be obtained from the BG-2020 Pit (Sec 26 T04N R03E W.M). Rock for construction and pre-haul maintenance used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense subject to written approval from Contract Administrator. Road construction will not be permitted from October 1 to April 30 unless authorized in writing by the Contract Administrator.

Construction, Reconstruction, Pre-haul Maintenance and Abandonment will be restricted between the hours of 7 PM to 7 AM on BG-2000, BG-2000C, BG-2000D, TJ-1, TJ-2 and Spur-A roads. See Road Plan 1-25 for additional information.

ACREAGE DETERMINATION

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

FEES: Fees of \$1,000.00 to Thor C. Johnson for the Road Use Permit between Thor C. Johnson and the State, Dated September 15, 2019 due 30 days after the Grantee enters into a timber sale contract. For more information see Road Use Permit. These are in addition to the bid price \$50,354.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: This sale contains an estimated 108 MBF of higher quality DF 2 saw logs and 26 MBF of higher quality DF 3 saw logs, derived from the cruise. See cruise for details.

Bells Mountain Trail, open year-round runs through Unit 3 see Contract Clause H-140 for additional information regarding trail and harvest requirements.

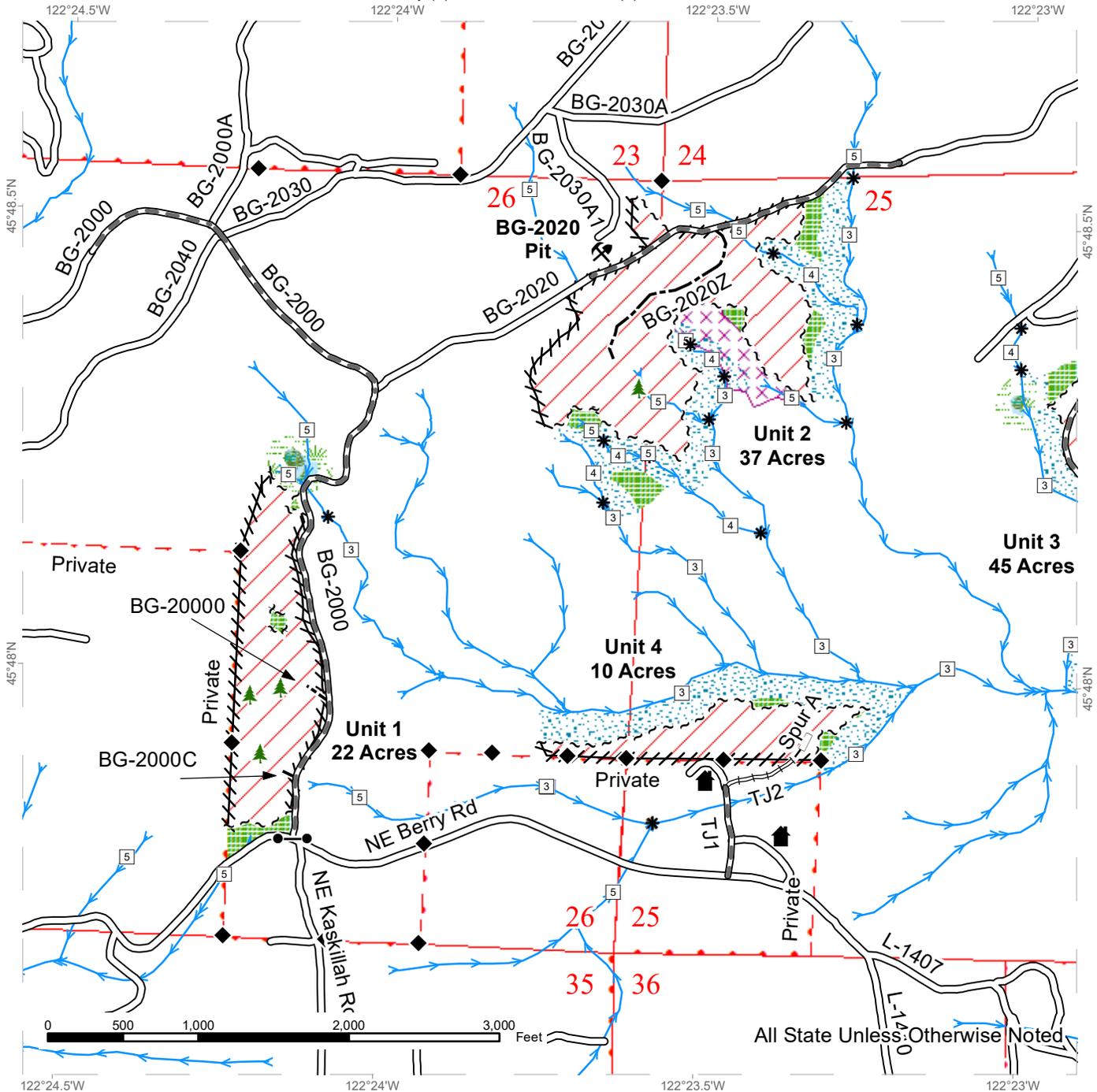
Extreme Hazard Abatement required in Unit 1 and Unit 4. See H-141 and S-020 for additional information.

See driving map for gate locations. PCP 1-1 gate keys may be obtained from the Pacific Cascade Region office.

TIMBER SALE MAP

SALE NAME: RELLESKOP VRH
AGREEMENT #: None
TOWNSHIP(S): T4R3E, T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 826-1871



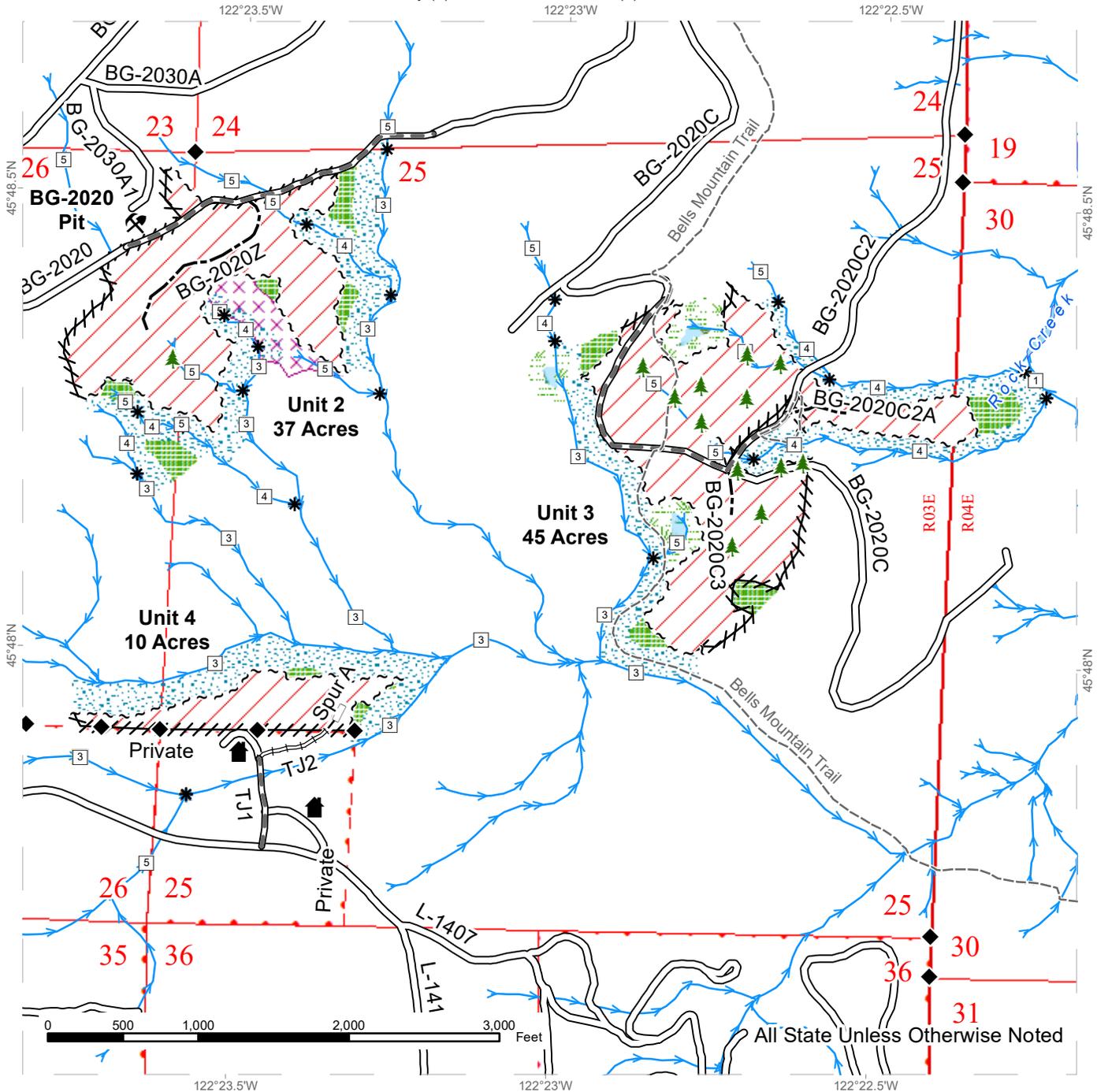
All State Unless Otherwise Noted

Sale Area	Sale Boundary Tags	Streams
Leave Tree Area	Leave Tree Tags	Stream Type
Riparian Mgt Zone	Flag Line	Stream Type Break
Forested Wetland	Existing Roads	Survey Monument
Wetland Mgt Zone	Required Pre-Haul Maintenance	Gate (PCP 1-1)
Potentially Unstable Slopes	Required Reconstruction	Leave Tree Area <1/4-acre
	Optional Construction	Rock Pit
	Optional Reconstruction	Structure

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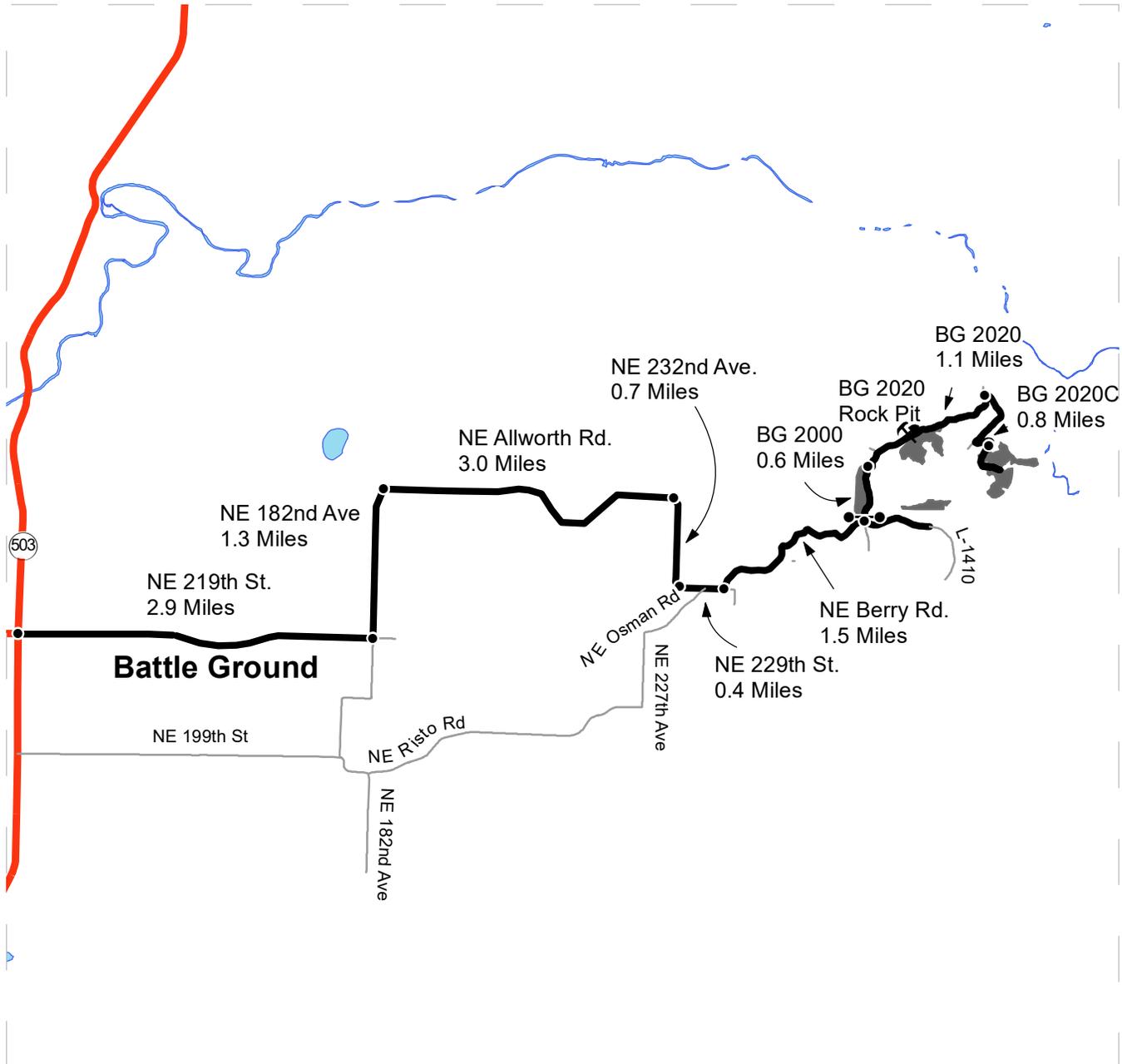
Sale Area	Sale Boundary Tags	Streams
Leave Tree Area	Flag Line	Stream Type
Riparian Mgt Zone	Existing Roads	Stream Type Break
Forested Wetland	Required Pre-Haul Maintenance	Survey Monument
Wetland Mgt Zone	Required Reconstruction	Leave Tree Area <1/4-acre
Potentially Unstable Slopes	Optional Construction	Rock Pit
	Optional Reconstruction	Structure
		Recreation Trails



DRIVING MAP

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Map may not be to scale

	Timber Sale Unit
	Haul Route
	Other Road
	Distance Indicator
	Gate (PCP 1-1)
	Rock Pit

DRIVING DIRECTIONS:

From State Route 503 at mp 8, turn right (east) on NE 219th. St. (Main St.) for 2.9 miles.
 Turn north (left) on NE 182nd Ave and follow for 1.3 miles.
 Turn right (east) on NE Allworth Rd. and follow for 3.0 miles
 Veer to the right (south) as road becomes NE 232nd St. and follow for 0.7 miles.
 Turn left (east) on NE 229th St. for 0.4 miles.
 Turn left (north) on NE Berry Rd. for 1.5 miles.
 Turn left on BG 2000 (gate).
 Unit 1, Located just after the BG 2000 rock pit on the right (south) side of the BG 2020.
 Unit 2, Drive 0.6 mile on the BG 2000, veer right on the BG 2020 for 1.1 miles,
 turn left on the BG 2020C for 0.8 miles.
 Unit 3, Located on the right (east) side of the BG 2000 just past the gate.
 Unit 4, Located on the left (west) side of the BG 2000 just past the gate.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-099726

SALE NAME: RELLESKOP

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on August 27, 2020 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except trees marked with blue paint, trees bounded out by yellow "Leave Tree Area" tags, western redcedar, snags, all down timber greater than 24 inches in diameter and all pre-existing stumps, bounded by the following: white "Timber Sale Boundary" tags and private property boundaries marked with pink flagging in Units 1 and 4; white "Timber Sale Boundary" tags, reprod, and the BG-2020 in Unit 2; white "Timber Sale Boundary" tags, and reprod marked with pink flagging in Unit 3, located on approximately 114 acres on part(s) of Section 30 in Township 4 North, Range 4 East, Sections 25, and 26 all in Township 4 North, Range 3 East W.M. in Clark County(s) as designated on the sale area and as shown on the attached timber sale map.

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

Forest products purchased under a contract that is designated as export restricted shall not be exported until processed. Forest products purchased under a contract that is designated as exportable may be exported prior to processing.

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2022.

G-040 Contract Term Adjustment - No Payment

Purchaser may request an adjustment in the contract term. A claim must be submitted in writing and received by the State within 30 days after the start of interruption or delay. The claim must also indicate the actual or anticipated length of interruption or delay. The State may grant an adjustment without charge only if the cause for contract term adjustment is beyond Purchaser's control. The cause must be one of the following and the adjustment may be granted only if operations or planned operations under this contract are actually interrupted or delayed:

- a. Road and bridge failures which deny access.
- b. Access road closures imposed by road owner.
- c. Excessive suspensions as provided in clause G-220.
- d. Regulatory actions not arising from Purchaser's failure to comply with this contract which will prevent timber harvest for a period less than 6 months.

G-051 Contract Term Extension - Payment

Extensions of this contract term may be granted only if, in the judgment of the State, Purchaser is acting in good faith and is endeavoring to remove the forest products conveyed. The term of this contract may be extended for a reasonable time by the State if all of the following conditions are satisfied:

- a. A written request for extension of the contract term must be received prior to the expiration date of the contract.
- b. Completion of all required roads and compliance with all contract and regulatory requirements.
- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the total contract price.

The payments shall not include the initial deposit which shall be held according to the provisions of RCW 79.15.100.

- d. Payment of an amount based on 12 percent interest per annum on the unpaid portion of the total contract price.

All payments, except the initial deposit, will be deducted from the total contract price to determine the unpaid portion of the contract.

- e. Payment of \$997.00 per acre per annum for the acres on which an operating release has not been issued all harvest units.
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any

threatened or endangered species, or the presence of their habitat, within the sale area.

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

G-062 Habitat Conservation Plan

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

By signing this contract, Purchaser agrees to comply with the terms and conditions of the ITP, and the HCP, which shall become terms of this contract. The State agrees to authorize the lawful activities of the Purchaser carried out pursuant to this contract, PROVIDED the Purchaser remains in compliance with the terms and conditions of both the HCP and ITP. The requirements set forth in this contract are intended to comply with the terms and conditions of the HCP and ITP. Accordingly, non-compliance with the terms and conditions of the HCP and ITP will render the authorization provided in this paragraph void, be deemed a breach of the contract and may subject Purchaser to liability for violation of the Endangered Species Act.

Any modifications to the contract shall be proposed in writing by Purchaser, shall continue to meet the terms and conditions of the HCP and ITP, and shall require the prior written approval of the Region Manager before taking effect.

G-063 Incidental Take Permit Notification Requirements

- a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to

notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.

- b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.
- d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

a. Risk

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

Purchaser shall remain responsible for payment of the total contract price notwithstanding the impracticability or frustration.

b. Sale Area

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

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

c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall cause the timber sale area subject to governmental regulation or order to be measured. The State shall calculate the percentage of the total sale area subject to the governmental regulation or order. The State shall reduce the total contract price by that calculated percentage. However, variations in species, value, costs, or other items pertaining to the affected sale area will be analyzed and included in the adjustment if deemed appropriate by the State. The State will further reduce the total contract price by the reasonable cost of unamortized roads Purchaser constructed but was unable to fully use for removing timber. A reduction in total contract price terminates all of the Purchaser's rights to purchase and remove the timber and all other interest in the affected sale area.

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-101 Forest Products Not Designated

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

The pricing schedule has not been set for the sale.

G-111 Title and Risk of Loss

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

G-116 Sustainable Forestry Initiative® (SFI) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: PwC-SFIFM-513.

Purchaser shall have at least one person regularly on-site during active operations that have completed training according to the requirements outlined within the SFI® program Standard. Purchaser shall designate in writing the name(s) of the individual(s) who will be on-site and provide proof of their successful completion of an approved training program prior to active operations.

G-120 Responsibility for Work

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

G-121 Exceptions

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

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

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

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

1. Failure of (a) required improvements or roads designated in clause C-050, or (b) required or optional construction completed to the point that authorization to haul has been issued;
2. Caused by a single event from forces beyond the control of Purchaser, its employees, agents, or invitees, including independent contractors; and
3. Includes, but is not limited to natural disasters such as earthquakes, volcanic eruptions, landslides, and floods.

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

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

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

G-140 Indemnity

To the fullest extent permitted by law, Purchaser shall indemnify, defend and hold harmless State, agencies of State and all officials, agents and employees of State, from and against all claims arising out of or resulting from the performance of the contract. "Claim" as used in this contract means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable for bodily injury,

sickness, disease or death, or injury to or destruction of tangible property including loss of use resulting therefrom. Purchasers' obligations to indemnify, defend, and hold harmless includes any claim by Purchasers' agents, employees, representatives, or any subcontractor or its employees. Purchaser expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Purchasers' or any subcontractors' performance or failure to perform the contract. Purchasers' obligation to indemnify, defend, and hold harmless State shall not be eliminated or reduced by any actual or alleged concurrent negligence of State or its agents, agencies, employees and officials. Purchaser waives its immunity under Title 51 RCW to the extent it is required to indemnify, defend and hold harmless State and its agencies, officials, agents or employees.

G-150 Insurance

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

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

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

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

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

Purchaser shall include all subcontractors as insured under all required insurance policies, or shall furnish separate certificates of insurance and endorsements for each

subcontractor. Subcontractor(s) must comply fully with all insurance requirements stated herein. Failure of subcontractor(s) to comply with insurance requirements does not limit Purchaser's liability or responsibility.

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

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

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

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

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

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

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

Workers' Compensation Coverage. Purchaser shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Purchaser and employees of any

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

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

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

G-160 Agents

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

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

G-170 Assignment and Delegation

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

G-180 Modifications

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

G-190 Contract Complete

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

G-200 Notice

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

G-210 Violation of Contract

G-220 State Suspends Operations

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

G-210 Violation of Contract

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

G-220 State Suspends Operation

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within ten business days.
- c. Within ten business days of receipt of the Region Manager's decision, Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.

- d. Unless otherwise agreed, a conference will be held by the Deputy Supervisor - Uplands within 30 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor - Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

G-250 Compliance with All Laws

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

G-260 Venue

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

G-270 Equipment Left on State Land

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

G-280 Operating Release

An operating release is a written document, signed by the State and Purchaser, indicating that Purchaser has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Purchaser and State may agree to an operating release for this sale, or portion of this sale, prior to the contract expiration, when all contract requirements pertaining to the release area have been satisfactorily completed. Upon issuance of a release, Purchaser's right to cut and remove forest products on the released area will terminate.

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; BG-2000, BG-2000C, BG-2000D, BG-2020, BG-2020C, BG-2020C2, BG-2020C2A, BG-2020C3, BG-2020Z, BG-2030, BG-2030A, BG-2030A1, Spur A, TJ-1, and TJ-2. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before

beginning any operations. To the extent that the plan of operations is inconsistent with the contract, the terms of the contract shall prevail. State's acceptance and approval of Purchaser's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Purchaser shall, at the Purchaser's own expense, re-establish them through a licensed land surveyor in accordance with U.S. General Land Office standards. Corners and/or witness objects that must be disturbed or destroyed in the process of road construction or logging shall be adequately referenced and/or replaced in accordance with RCW 58.24.040(8). Such references must be approved by the Contract Administrator prior to removal of said corners and/or witness objects.

G-360 Road Use Reservation

The State shall have the right to use, without charge, all existing roads and any road constructed or reconstructed on State lands by Purchaser under this contract. The State may extend such rights to others. If the State grants such rights to others, the State shall require performance or payment, as directed by the State, for their proportionate share of maintenance based on their use.

G-370 Blocking Roads

Purchaser shall not block the BG-2000, BG-2020, BG-2020C, BG-2020C2, BG-2030, TJ-1, 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:

Road use permit between the State and Thor C. Johnson. Dated: 10/15/2019.
Expiration: 05/30/2025.

G-396 Public Hauling Permit

The hauling of forest products, rock or equipment may require a state, county, or city hauling permit. Purchaser is responsible for obtaining any necessary permit and any costs associated with extra maintenance or repair levied by the permitting agency. Purchaser must provide the Contract Administrator with a copy of the executed permit.

G-430 Open Fires

Purchaser shall not set, or allow to be set by Purchaser's employees, agents, invitees and independent contractors, any open fire at any time of the year without first obtaining permission, in writing, from the Contract Administrator.

G-450 Encumbrances

This contract and Purchaser's activities are subject to the following:

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 \$77,012.00. The total contract price consists of a \$0.00 contract bid price plus \$77,012.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$100,000.00. The Security provided shall

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

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

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

H-010 Cutting and Yarding Schedule

Falling and Yarding will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator.

H-013 Reserve Tree Damage Definition

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

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

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

If the Contract Administrator determines that a reserve tree has been cut or damaged, the Purchaser shall provide a replacement reserve tree of like condition, size, and

species within the sale unit containing the damaged leave tree, as approved by the Contract Administrator. Purchaser may be required to pay liquidated damages for Excessive Reserve Tree Damage as detailed in clause D-041.

Removal of designated reserve trees from the sale area is unauthorized, and may invoke the use of the G-230 'Trespass and 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 14 feet in width, including rub trees.
- b. Skid trails shall not cover more than 5 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.

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 8 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-018 Temporary Stream Crossings

A temporary stream crossing is required to access portions of unit 3.

Purchaser shall comply with the following during the yarding operation:

- a. Adhere to the approved Hydraulic Permit Application (HPA) or Forest Practice Application (FPA) with approved hydraulic project work, if required, amend a current FPA or obtain a new FPA prior to commencing any new stream crossing construction.
- b. Location of the temporary stream crossing must be approved by the Contract Administrator.
- c. A temporary stream crossing shall not exceed 20 feet in width, including rub trees.
- d. Purchaser shall suspend operations during periods of wet weather when a high potential for sediment delivery into typed waters may occur.
- e. Temporary stream crossings shall be removed at the time of completion of yarding as required by the Contract Administrator.

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

H-035 Fall Trees Into Sale Area

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

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for all units. The plan shall address the felling and yarding operations, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval by the Contract Administrator.

H-051 Branding and Painting

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

timber purchased under a contract designated as export restricted shall also be painted in a manner that meets the requirements of WAC 240-15-030(2)(a)(ii).

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

H-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 ground based equipment, including shovels, forwarders, tracked skidders and rubber tired skidders. 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:

All hauling operations are prohibited from 7pm to 7am every day on Berry Road.

All harvesting, yarding and loading operations are prohibited from 7pm to 7am on all weekdays and prohibited on weekends and State recognized holidays in Unit 1 and Unit 4.

Non-merchantable conifers shall be left undamaged where harvest activities allow.

The use of unmuffled compression breaks will not be permitted on site.

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

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

Requirements for Harvesting in areas that impact Bells Mountain Trail:

Trail closures will be posted by the purchaser prior to operations at each end of the harvest unit and at the nearest junction with another trail or road. Posting will include the date posted, closure periods, and anticipated re-opening. Closure signs will be maintained by the purchaser during the sale and will be removed after approval of the final trail cleaning following harvest.

Trails should be rerouted onto roads or other trail systems when possible. All trail reroutes need to be approved by the Contract Administrator. In the event that

there is no logical trail reroute, the purchaser shall clean the trail of debris and open the trail to recreationists by 5 p.m. Friday to 5 a.m. Monday, year round.

Recreational trails shall be posted, closed and a watchman provided during harvest operations. Trail shall be re-opened within fifteen days of completion of yarding operations on each harvest unit.

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

H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

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

Extreme Hazard Abatement will be required in Units 1 and 4 per clause S-020. In Unit 1 logging debris 100 feet adjacent to Berry Road will be cleared. In Unit 4 debris will be cleared to a minimum of 200 feet adjacent to residence or structures.

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

H-142 Wildlife Timing Restrictions

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

No operations will occur in Unit 3, East of BG-2020C2A between January 1 and August 31 for Bald Eagle Timing Restriction

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

H-190 Completion of Settings

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

H-220 Protection of Residual or Adjacent Trees

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

H-230 Tops and Limbs Outside the Sale Boundary

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

H-250 Additional Felling Requirements

Within all units, all non-merchantable hardwood stems 2 inches DBH or 10 feet tall, shall be felled concurrently with felling operations. Areas of young or immature timber may be excluded from this requirement by the Contract Administrator.

Section C: Construction and Maintenance**C-040 Road Plan**

Road construction and associated work provisions of the Road Plan for this sale, dated 3/4/2020 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on BG-2000, BG-2000C, BG-2000D, BG-2020, BG-2020C, BG-2020C2, BG-2020C2A, BG-2020C3, BG2020Z, BG-2030, BG-2030A, BG-2030A1, SPUR - A, TJ-1, TJ-2. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator on all roads not listed in Clause C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

Section S: Site Preparation and Protection**S-001 Emergency Response Plan**

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-020 Extreme Hazard Abatement

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

S-035 Logging Debris Clean Up

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

S-050 Cessation of Operations for Low Humidity

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

S-060 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

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

S-120 Stream Protection

No timber shall be felled into, across, or yarded through any streams.

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

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

DOE - Northwest Region: 1-425-649-7000
(Island, King, Kitsap, San Juan, Skagit, Snohomish, and Whatcom counties)

DOE - Southwest Region: 1-360-407-6300
(Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, and Wahkiakum counties)

DOE - Central Region: 1-509-575-2490

(Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, and Yakima counties)

DOE - Eastern Region: 1-509-329-3400

(Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, and Whitman counties)

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

National Response Center: 1-800-424-8802

S-131 Refuse Disposal

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

S-150 Recreation Trail Cleanout

At the completion of logging operations Bells Mountain Trail, Purchaser shall repair any damage to and clean out all logging debris from recreational trail(s).

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 harvest units.

SIGNATURES

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

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Eric Wisch
Pacific Cascade Region Manager

Print Name

Date: _____

Date: _____

Address:

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

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 20____, before me personally
appeared _____

_____ to me known to be the
_____ of the corporation
that executed the within and foregoing instrument and acknowledged said instrument to be the
free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned,
and on oath stated that (he/she was) (they were) authorized to execute said instrument.

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

Notary Public in and for the State of

My appointment expires _____

PRE-CRUISE NARRATIVE

Sale Name: Relleskop	Region: Pacific Cascade
Agreement #: 30-099726	District: Yacolt
Contact Forester: Amanda Taylor Phone / Location: 360-827-1064	County(s): Clark
Alternate Contact: Aaron Nelson Phone / Location: 360-601-0296	Other information:

Type of Sale: Lump Sum	
Harvest System: Ground based	100%

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1 VRH	SEC 26 T04N R03E	01	27	2	2	0	1 (Forested Wetland)	22	GPS (Trimble)
2 VRH	SEC 25 & 26 T04N R03E	01	65	19	4	0	5 (Unstable slope)	37	GPS (Trimble)
3 VRH	SEC 25 & 30 T04N R03E	01/ 03	83	28	5	4	1 (Forested Wetlands)	45	GPS (Trimble)
4 VRH	SEC 25 & 26 T04N R03E	01	25	14	1	0	0	10	GPS (Trimble)
TOTAL ACRES			200	63	12	4	7	114	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1 VRH	Unit 1 is bound by white "Timber Sale Boundary" tags, pink flagging, private property reprod and BG 2000. Clumped "Leave Tree Area" tags and pink flagging.	VRH	200 Leave Trees, clumped and scattered

	Individual leave trees are marked with a ring of blue paint.		
2 VRH	Unit 2 is bound by white "Timber Sale Boundary" tags, pink flagging, the BG-2020 road and reprod. Clumped "Leave Tree Area" tags and pink flagging. Individual leave trees are marked with a ring of blue paint.	VRH	333 Leave Trees, clumped and scattered
3 VRH	Unit 3 is bound by white "Timber Sale Boundary" tags, pink flagging, and reprod. Clumped "Leave Tree Area" tags and pink flagging. Individual leave trees are marked with a ring of blue paint.	VRH	470 Leave Trees, clumped and scattered
4 VRH	Unit 4 is bound by white "Timber Sale Boundary" tags, pink flagging, reprod and private property.	VRH	98 Leave Trees, clumped

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
Unit 1	DF/WH 607mbf/acre	Unit 1 can be accessed via the BG 2000 gate off Berry Road with a PCP 1-1 key.	
Unit 2	DF/WH/RA 1021mbf/acre	Unit 2 can be accessed via the BG 2000 gate to the BG 2020 with a PCP 1-1 key	
Unit 3	DF/WH/RA 1242mbf/acre	Unit 3 can be access via the BG 2000 gate to the BG 2020 and the BG 2010 with a PCP 1-1 key	
Unit 4	DF/WH 276mbf/acre	Unit 4 can be accessed via a private driveway approximately half a mile from the BG 2000, shown as TJ1 on the map. From TJ1 park in reprod at a quad trail to the unit.	
TOTAL MBF	31466 mbf		

REMARKS:

Please call private landowner ahead of time to let him know you will be accessing the unit through his property. Thor Johnson 360-606-33749

Prepared By: Mandi Reller Date: 8/7/2019	Title: Forester	CC: Aaron Nelson
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Cruise Narrative

Sale Name: Relleskop	Region: Pacific Cascade
App. #: 30-0	District: Yaolt
Lead Cruiser: DPClark	Completion date: 10-23-2019
Other Cruisers: KJBailey	

Unit acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1	22	YES	
2	37	YES	
3	45	YES	
4	10	YES	
Total	114	YES	

Unit cruise specifications:

Unit #	Sample type (VP, FP, ITS,100%)	Expansion factor (BAF, full/half)	Sighting height (4.5 ft, 16 ft.)	Grid size (Plot spacing or % of area)	Plot ratio (Cru./Tally)	Total number of plots
1	VP	27.78	16'	208	1:1	22
2	VP	27.78/33.61	16'	208	1:1	37
3	VP	27.78/33.61	16'	208	1:2	48
4	VP	27.78/40	16'	208	2:1	14

Sale/Cruise Description:

Minor species cruise intensity:	Cruised on appropriate plots.						
Minimum cruise spec:	40% Of Form- Factor at 16 feet D.O.B or 5 inch Top, and merchantable top.						
Avg. ring count by sp:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DF =</td> <td style="width: 25%; text-align: center;">4</td> <td style="width: 15%;">WH =</td> <td style="width: 15%; text-align: center;">NA</td> <td style="width: 15%;">SS =</td> <td style="width: 15%; text-align: center;">NA</td> </tr> </table>	DF =	4	WH =	NA	SS =	NA
DF =	4	WH =	NA	SS =	NA		
Leave/take tree description:	Leave trees marked with blue paint.						
Sort Description:	<p>HB – Logs meeting the following criteria: Surface characteristics for a B sort will have sound tight knots not to exceed 1 ½" in diameter. May include logs with not more than two larger knots up to 2 ½" in diameter. Logs will have a growth ring count of 6 or more rings per inch in the outer third to end of the log. (min dia 8".)</p> <p>R – Logs meeting the following criteria: Gross diameter of 12 inches or greater, excessive knots greater than 2 ½ inches with recovery less than 65% of the net scale.</p> <p>D - Domestic</p>						

Field observations:

Relleskop is a timber sale on gently sloped ground in the northwest corner of the Larch Block. The timber type is dominated by two age classes of DF and complimented by a small portion of small diameter RA. The two age classes of DF are 35 years and 58 years old. Most of the log quality is domestic saw log, with a small amount of high quality B. Percent defect is moderate and caused by poor form. Little to no rot or conks observed. Bole heights were cruised to 40% of D16.

Grants: 01, 03

Prepared by: DPClark

Title: Timber Cruise

T04N R03E S26 Ty00U1 THRU T04N R03E S26 Ty00U4	Project: RELLES Acres 114.00	Page 1 Date 10/23/2019 Time 11:20:11AM
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Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
									5-7	8-11	12-15	16+	12-20	21-30	31-35	36-40						
DF	CU	CU			100.0	191											3	8		0.00	20.8	
DF	HB	2S		3		950	950	108			56	44			100		40	15	331	1.71	2.9	
DF	HB	3S		1		227	227	26		100				44	56		37	9	117	0.68	1.9	
DF	D	2S		45	3.2	11,574	11,203	1,277			61	39		1	17	82	37	14	288	1.97	39.0	
DF	D	3S		34	2.9	8,724	8,473	966	26	74			0	3	27	69	37	8	94	0.75	89.9	
DF	D	4S		13	.1	3,008	3,003	342	97	3			25	35	16	24	26	5	29	0.30	104.2	
DF	D	UT		1	11.6	509	450	51	11	9	31	48		9	55	37	26	10	118	1.13	3.8	
DF	RO	3S		3	5.0	553	525	60			6	94			42	58	37	21	722	4.46	.7	
DF	Totals			96	3.5	25,736	24,832	2,831	21	27	30	22		3	7	21	69	30	8	94	0.84	263.3
RA	CU	CU			100.0	40											10	5		0.00	4.0	
RA	D	UT		14		171	171	20	79	21			16	64	20		25	6	29	0.27	5.9	
RA	D	3S		3		30	30	3		100			100				16	10	60	0.73	.5	
RA	D	4S		19	7.6	238	220	25		100				51	49		33	8	65	0.62	3.4	
RA	D	4S		64	2.4	751	733	84	100				3	47	20	30	30	5	33	0.31	22.1	
RA	Totals			4	6.2	1,231	1,155	132	75	25			7	49	13	31	27	6	32	0.33	36.0	
Totals					3.6	26,967	25,987	2,962	23	27	29	21		4	9	21	67	30	8	87	0.78	299.3

PROJECT STATISTICS											PAGE	1	
PROJECT RELLES											DATE	10/23/2019	
TC PSTATS	TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
	04N	03E	26	KOP	00U1	THR	114.00	121	526	S	W		
	04N	03E	26	KOP	00U4								
							ESTIMATED		PERCENT				
							TOTAL		SAMPLE				
							TREES		TREES				
							PER PLOT						
	TOTAL			121	526	4.3							
	CRUISE			54	225	4.2	17,160		1.3				
	DBH COUNT												
	REFOREST												
	COUNT			65	301	4.6							
	BLANKS			2									
	100 %												
STAND SUMMARY													
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET		
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC		
	DOUG FIR	189	124.8	16.8	72	46.8	191.9	25,736	24,832	6,634	6,599		
	R ALDER	36	25.7	9.9	53	4.3	13.6	1,231	1,155	336	327		
	TOTAL	225	150.5	15.8	69	51.7	205.5	26,967	25,987	6,970	6,926		
CONFIDENCE LIMITS OF THE SAMPLE													
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR													
CL	68.1	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	7		10		
	DOUG FIR	72.5	5.4	341	360	380							
	R ALDER	51.5	8.7	49	53	58							
	TOTAL	85.1	5.8	293	311	329		289	148		72		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	7		10		
	DOUG FIR	63.3	4.7	89	94	98							
	R ALDER	51.5	8.7	14	16	17							
	TOTAL	75.8	5.1	77	81	85		230	117		57		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	7		10		
	DOUG FIR	71.2	6.5	117	125	133							
	R ALDER	273.6	24.9	19	26	32							
	TOTAL	63.1	5.7	142	151	159		159	81		40		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	7		10		
	DOUG FIR	55.6	5.0	182	192	202							
	R ALDER	281.0	25.5	10	14	17							
	TOTAL	47.4	4.3	197	206	214		90	46		22		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	7		10		
	DOUG FIR	54.9	5.0	23,594	24,832	26,070							
	R ALDER	321.9	29.2	817	1,155	1,492							
	TOTAL	49.4	4.5	24,821	25,987	27,153		97	50		24		
CL	68.1	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	7		10		
	DOUG FIR	54.9	5.0	6,270	6,599	6,928							
	R ALDER	313.5	28.5	234	327	420							
	TOTAL	48.8	4.4	6,619	6,926	7,233		95	49		24		
CL	68.1	COEFF	V BAR/ACRE				# OF PLOTS REQ.		INF. POP.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	7		10		
	DOUG FIR			123	129	136							
	R ALDER	297.4	27.0	60	85	110							
	TOTAL	49.5	4.5	121	126	132		98	50		24		

PROJECT STATISTICS**PROJECT RELLES**

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
04N	03E	26	KOP	00U1	THR	114.00	121	526	S	W
04N	03E	26	KOP	00U4						

T04N R03E S26 T00U1										T04N R03E S26 T00U1				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
04N	03E	26	KOP	00U1	22.00	22	42	S	W					

S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre			
				Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf				
								5-7	8-11	12-15	16+	12-20	21-30	31-35	36-40								
DF	CU	CU		100.0	148																		
DF	DM	2S	76	3.8	17,375	16,722	368			68	32			3	1	96			39	15	328	2.14	51.0
DF	DM	3S	19	.9	4,063	4,026	89	43	57							28	72		37	8	83	0.78	48.4
DF	DM	4S	4		894	894	20	95	5					21	64	15			24	6	33	0.35	27.3
DF	DM	UT	1		93	93	2			100				100					12	13	70	1.07	1.3
DF	Totals		98	3.7	22,573	21,735	478	12	11	53	24	1	5	7	87			30	10	146	1.31	149.1	
RA	CU	CU		100.0	19														9	5		0.00	1.9
RA	DM	4S	27		114	114	3		100					100					30	8	60	0.64	1.9
RA	DM	4S	73		308	308	7	100						100					29	5	30	0.24	10.3
RA	Totals		2	4.3	440	421	9	73	27					100				26	5	30	0.29	14.0	
Type Totals				3.7	23,013	22,156	487	13	11	52	24	1	6	6	86			30	10	136	1.23	163.2	

T04N R03E S26 T00U3	T04N R03E S26 T00U3
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt	BdFt
04N 03E 26 KOP 00U3 45.00 48 83 S	W

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/		
									5-7	8-11	12-15	16+	12-20	21-30	31-35	36-40	Ft	In	Ft	Lf		
DF		CU	CU		100.0	49												2	6		0.00	18.5
DF		HB	2S	9		2,406	2,406	108			56	44				100		40	15	331	1.71	7.3
DF		HB	3S	2		576	576	26	100					44	56		37	9	117	0.68	4.9	
DF		DM	2S	39	2.7	10,232	9,951	448		38	62			30	70		36	15	334	2.24	29.8	
DF		DM	3S	33	1.9	8,735	8,566	385	37	63			1	1	35	63	37	8	87	0.66	98.6	
DF		DM	4S	14		3,542	3,542	159	96	4			31	31	16	21	26	5	27	0.27	129.1	
DF		DM	UT	3	20.0	751	601	27		51	49			49	51		29	17	256	2.27	2.3	
DF	Totals			94	2.5	26,291	25,643	1,154	26	24	21	29	5	6	28	62	30	8	88	0.75	290.5	
RA		CU	CU		100.0	58											20	5		0.00	2.9	
RA		DM	UT	22		404	404	18	77	23			10	69		22	26	6	30	0.28	13.5	
RA		DM	3S	5		77	77	3	100				100				16	10	60	0.73	1.3	
RA		DM	4S	22	10.5	437	391	18	100					30	70		36	8	72	0.65	5.4	
RA		DM	4S	51	2.7	918	893	40	100				2	42	24	33	31	5	36	0.31	25.0	
RA	Totals			6	6.8	1,894	1,765	79	68	32			7	43	12	37	29	6	37	0.34	48.1	
Type Totals					2.8	28,186	27,409	1,233	28	24	20	27	5	8	27	60	29	7	81	0.69	338.6	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	RELLES		DATE	10/23/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
04N	03E	26	KOP	00U1	22.00	22	94	S	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		22	94	4.3						
CRUISE		11	42	3.8	1,598		2.6			
DBH COUNT										
REFOREST										
COUNT		11	52	4.7						
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	39	60.5	22.1	78	34.3	161.5	22,573	21,735	5,881	5,845
R ALDER	3	12.1	9.0	44	1.8	5.3	440	421	112	108
TOTAL	42	72.6	20.5	72	36.8	166.8	23,013	22,156	5,993	5,953
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	45.9	7.3		401	432	464				
R ALDER				60	60	60				
TOTAL	50.6	7.9		381	414	447	102	52	26	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	43.1	6.9		108	116	124				
R ALDER				17	17	17				
TOTAL	48.0	7.5		103	111	119	92	47	23	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	43.1	9.4		55	60	66				
R ALDER	399.1	87.0		2	12	23				
TOTAL	84.1	18.3		59	73	86	296	151	74	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	38.2	8.3		148	162	175				
R ALDER	344.1	75.0		1	5	9				
TOTAL	36.9	8.0		153	167	180	57	29	14	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	37.9	8.3		19,941	21,735	23,528				
R ALDER	359.4	78.3		91	421	751				
TOTAL	37.2	8.1		20,361	22,156	23,951	58	29	14	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	38.4	8.4		5,355	5,845	6,334				
R ALDER	342.8	74.7		27	108	189				
TOTAL	37.1	8.1		5,472	5,953	6,435	58	29	14	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR				123	135	146				
R ALDER	358.0	78.0		17	79	141				
TOTAL	225.8	49.2		122	133	144	2,131	1,087	533	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	RELLES		DATE	10/23/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
04N	03E	26	KOP	00U2	37.00	37	178	S	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		37	178	4.8						
CRUISE		15	70	4.7	5,350		1.3			
DBH COUNT										
REFOREST										
COUNT		21	108	5.1						
BLANKS		1								
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	64	133.8	17.6	74	54.1	227.0	28,515	27,062	7,707	7,628
R ALDER	6	10.8	10.8	42	2.1	6.9	364	338	146	146
TOTAL	70	144.6	17.2	71	56.4	234.0	28,879	27,399	7,853	7,774
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	94.5	11.8		262	297	332				
R ALDER	24.5	10.9		30	33	37				
TOTAL	101.5	12.1		241	274	308	411	210	103	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	75.1	9.4		73	81	88				
R ALDER	39.5	17.6		12	15	18				
TOTAL	81.0	9.7		68	75	82	262	134	66	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	53.0	8.7		122	134	145				
R ALDER	353.4	58.1		5	11	17				
TOTAL	46.2	7.6		134	145	156	85	43	21	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	48.9	8.0		209	227	245				
R ALDER	341.4	56.1		3	7	11				
TOTAL	44.5	7.3		217	234	251	79	40	20	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	49.4	8.1		24,868	27,062	29,255				
R ALDER	342.1	56.2		148	338	527				
TOTAL	47.2	7.7		25,276	27,399	29,523	89	45	22	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	48.8	8.0		7,016	7,628	8,240				
R ALDER	342.7	56.3		64	146	228				
TOTAL	45.7	7.5		7,191	7,774	8,357	83	43	21	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR				110	119	129				
R ALDER	342.5	56.3		21	49	76				
TOTAL	275.7	45.3		108	117	126	3,035	1,549	759	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	RELLES		DATE	10/23/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
04N	03E	26	KOP	00U3	45.00	48	203	S	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		48	203	4.2						
CRUISE		19	83	4.4	8,100		1.0			
DBH COUNT										
REFOREST										
COUNT		28	120	4.3						
BLANKS		1								
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	66	148.0	15.2	71	47.6	185.3	26,291	25,643	6,415	6,409
R ALDER	17	32.0	10.1	60	5.6	17.7	1,894	1,765	487	475
TOTAL	83	180.0	14.4	69	53.5	203.0	28,186	27,409	6,902	6,883
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	62.8	8.2		364	396	428				
R ALDER	48.6	12.1		59	68	76				
TOTAL	80.3	9.2		293	323	352	258	131	64	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	59.3	7.7		90	98	106				
R ALDER	52.2	13.0		16	19	21				
TOTAL	76.1	8.7		73	80	87	231	118	58	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	68.0	9.8		132	146	161				
R ALDER	260.4	37.6		20	32	44				
TOTAL	59.0	8.5		163	178	194	139	71	35	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	55.9	8.1		169	183	198				
R ALDER	281.5	40.6		10	18	25				
TOTAL	47.0	6.8		187	201	215	88	45	22	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	57.3	8.3		23,270	25,366	27,462				
R ALDER	301.9	43.5		997	1,765	2,534				
TOTAL	50.6	7.3		25,153	27,132	29,110	102	52	26	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	56.3	8.1		5,824	6,339	6,854				
R ALDER	305.3	44.0		266	475	684				
TOTAL	49.1	7.1		6,332	6,814	7,296	96	49	24	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR				126	137	148				
R ALDER	280.3	40.4		56	100	143				
TOTAL	266.7	38.5		124	134	143	2,840	1,449	710	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	RELLES		DATE	10/23/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
04N	03E	26	KOP	00U4	10.00	14	51	S	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		14	51	3.6						
CRUISE		9	30	3.3	2,112		1.4			
DBH COUNT										
REFOREST										
COUNT		5	21	4.2						
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	20	128.7	15.0	68	40.9	158.8	19,917	19,747	5,307	5,307
R ALDER	10	82.5	9.2	49	12.6	38.2	3,195	3,040	848	809
TOTAL	30	211.2	13.1	60	54.5	197.1	23,112	22,788	6,155	6,116
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	94.6	21.7		249	318	386				
R ALDER	39.1	13.0		35	40	45				
TOTAL	123.3	22.9		174	225	276	629	321	157	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	81.8	18.8		65	80	95				
R ALDER	44.8	14.9		9	11	13				
TOTAL	109.7	20.4		45	57	68	498	254	125	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	104.0	28.8		92	129	166				
R ALDER	156.5	43.3		47	82	118				
TOTAL	63.4	17.6		174	211	248	173	88	43	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	72.9	20.2		127	159	191				
R ALDER	144.2	39.9		23	38	54				
TOTAL	42.4	11.7		174	197	220	77	39	19	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	70.0	19.4		15,918	19,747	23,577				
R ALDER	150.4	41.7		1,774	3,040	4,307				
TOTAL	47.4	13.1		19,798	22,788	25,777	96	49	24	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR	70.9	19.6		4,265	5,307	6,350				
R ALDER	145.8	40.4		482	809	1,136				
TOTAL	48.5	13.4		5,295	6,116	6,937	101	51	25	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10	
DOUG FIR				100	124	148				
R ALDER	133.9	37.1		46	80	113				
TOTAL	166.1	46.0		100	116	131	1,185	605	296	

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

T04N R03E S26 Ty00U1	22.0
T04N R03E S26 Ty00U2	37.0
T04N R03E S26 Ty00U	10.0

Project RELLES
Acres 114.00

Page No 1
Date: 10/23/2019
Time 11:20:13AM

Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
DOUG FIR	14,229	27,644	21,554	52.87	27.21	0.84	7,563	7,523	2,934	2,831
R ALDER	2,931	3,642	1,052	12.71	10.23	0.35	383	372	140	132
Totals	17,160	31,286	22,606	46.01	25.24	0.79	7,945	7,895	3,074	2,962

Wood Type Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
C	14,229	27,644	21,554	52.87	27.21	0.84	7,563	7,523	2,934	2,831
H	2,931	3,642	1,052	12.71	10.23	0.35	383	372	140	132
Totals	17,160	31,286	22,606	46.01	25.24	0.79	7,945	7,895	3,074	2,962



Forest Practices Application/Notification
Notice of Decision

FPA/N No: 2937423
Effective Date: 4/8/2020
Expiration Date: 4/8/2023
Shut Down Zone: 660
EARR Tax Credit: Eligible Non-eligible
Reference: Relleskop VRH 30-099726
25,26-04-03E;30-04-04E

Decision

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

FPA/N Classification

Class II Class III Class IVG Class IVS

Number of Years Granted on Multi-Year Request

4 years 5 years

Conditions on Approval / Reasons for Disapproval

No additional conditions.

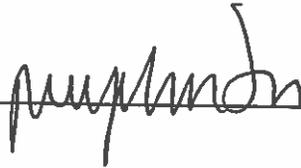
Issued By: Luke Warthen

Region: Pacific Cascade

Title: Forest Practices Forester

Date: 4/8/2020

Copies to: Landowner, Timber Owner and Operator.

Issued in person: Landowner Timber Owner Operator By: 

Appeal Information

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

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

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

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

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

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

And

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

Other Applicable Laws

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

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

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices website: <http://www.dnr.wa.gov/businesspermits/forestpractices>. Notify DNR of new Operators within 48 hours.

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

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

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

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

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

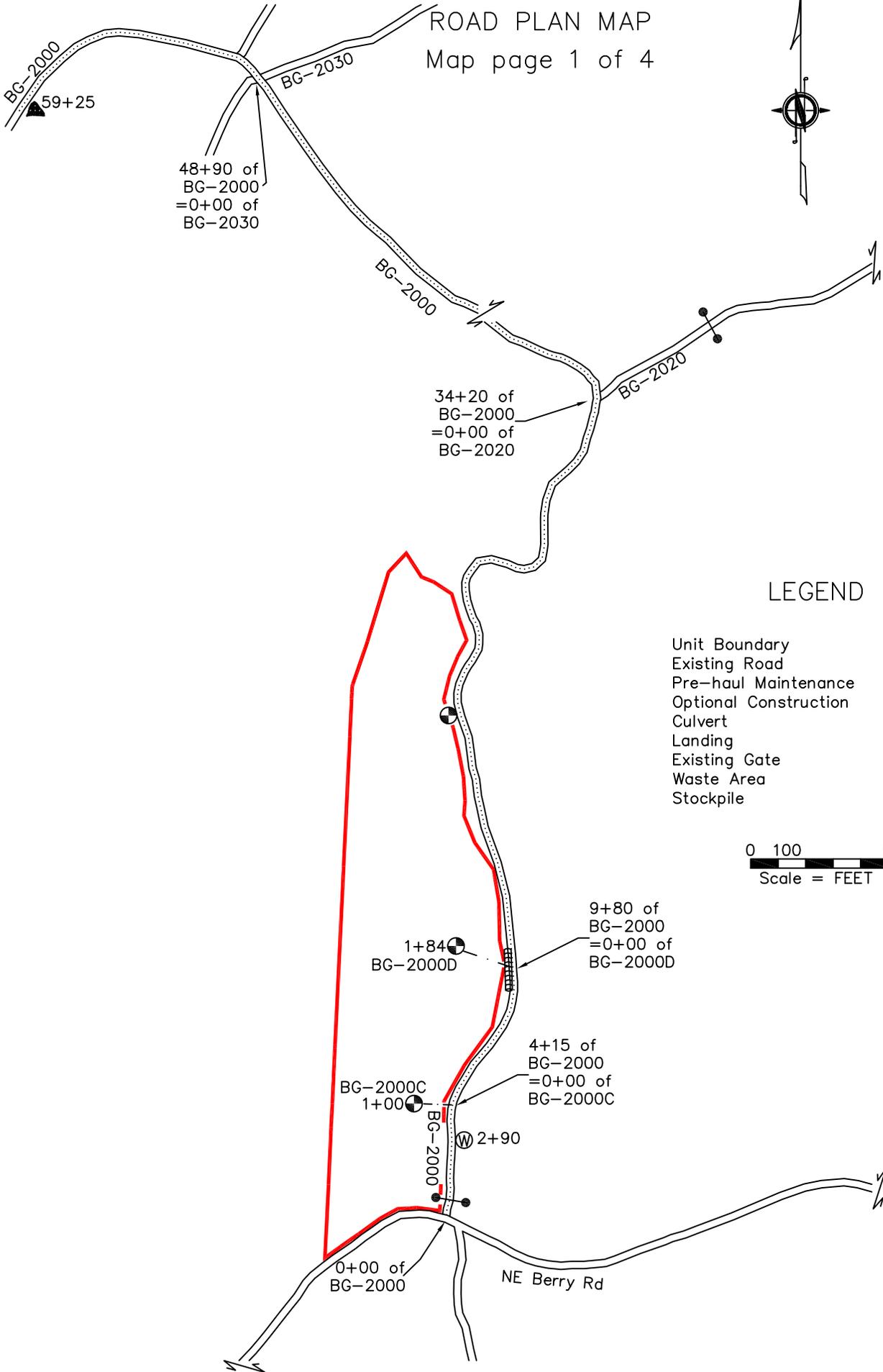
DNR affidavit of mailing:

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

RELLESKOP VRH

ROAD PLAN MAP

Map page 1 of 4



LEGEND

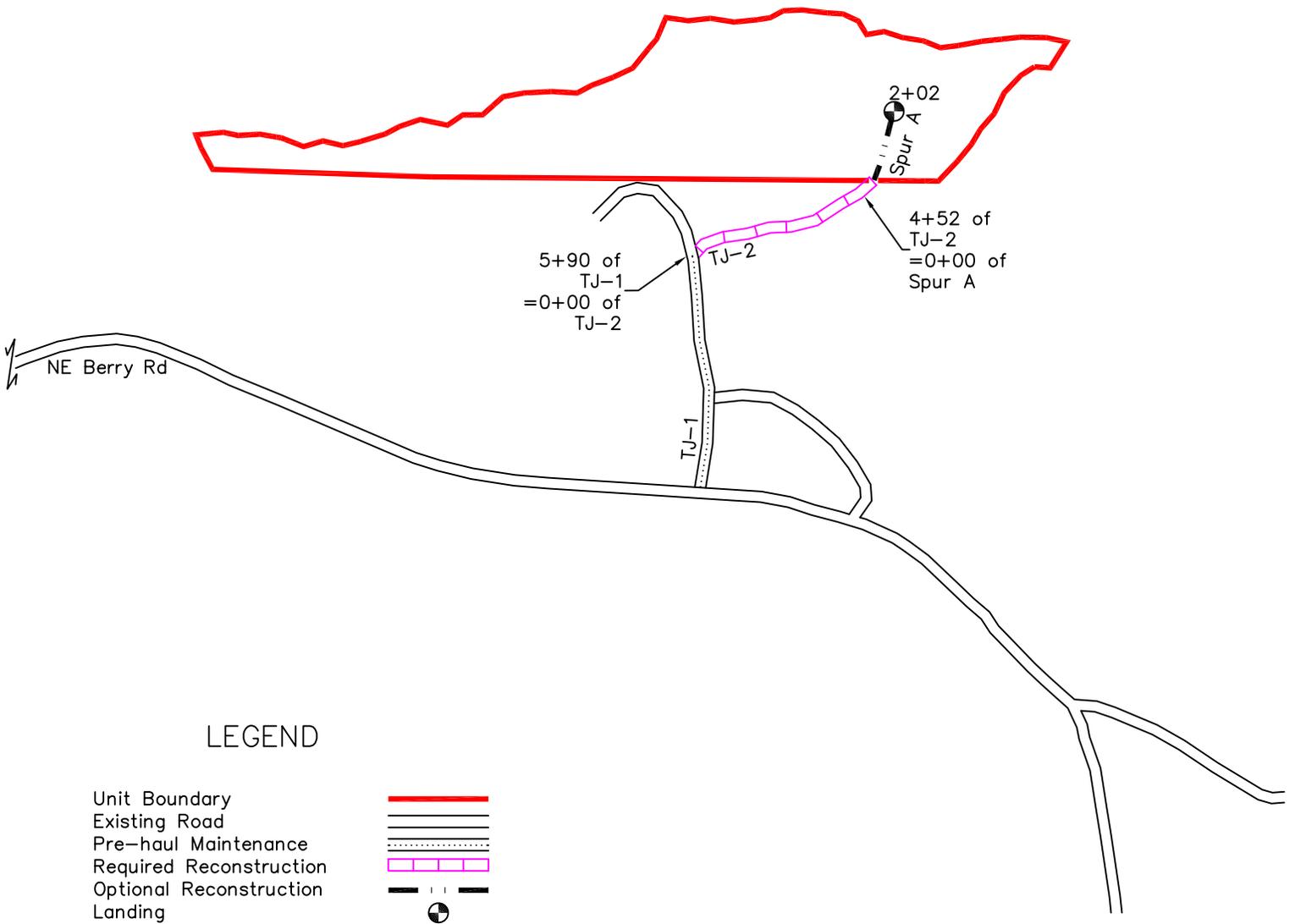
- Unit Boundary
- Existing Road
- Pre-haul Maintenance
- Optional Construction
- Culvert
- Landing
- Existing Gate
- Waste Area
- Stockpile

0 100 500
Scale = FEET

RELLESKOP VRH

ROAD PLAN MAP

Map page 2 of 4



LEGEND

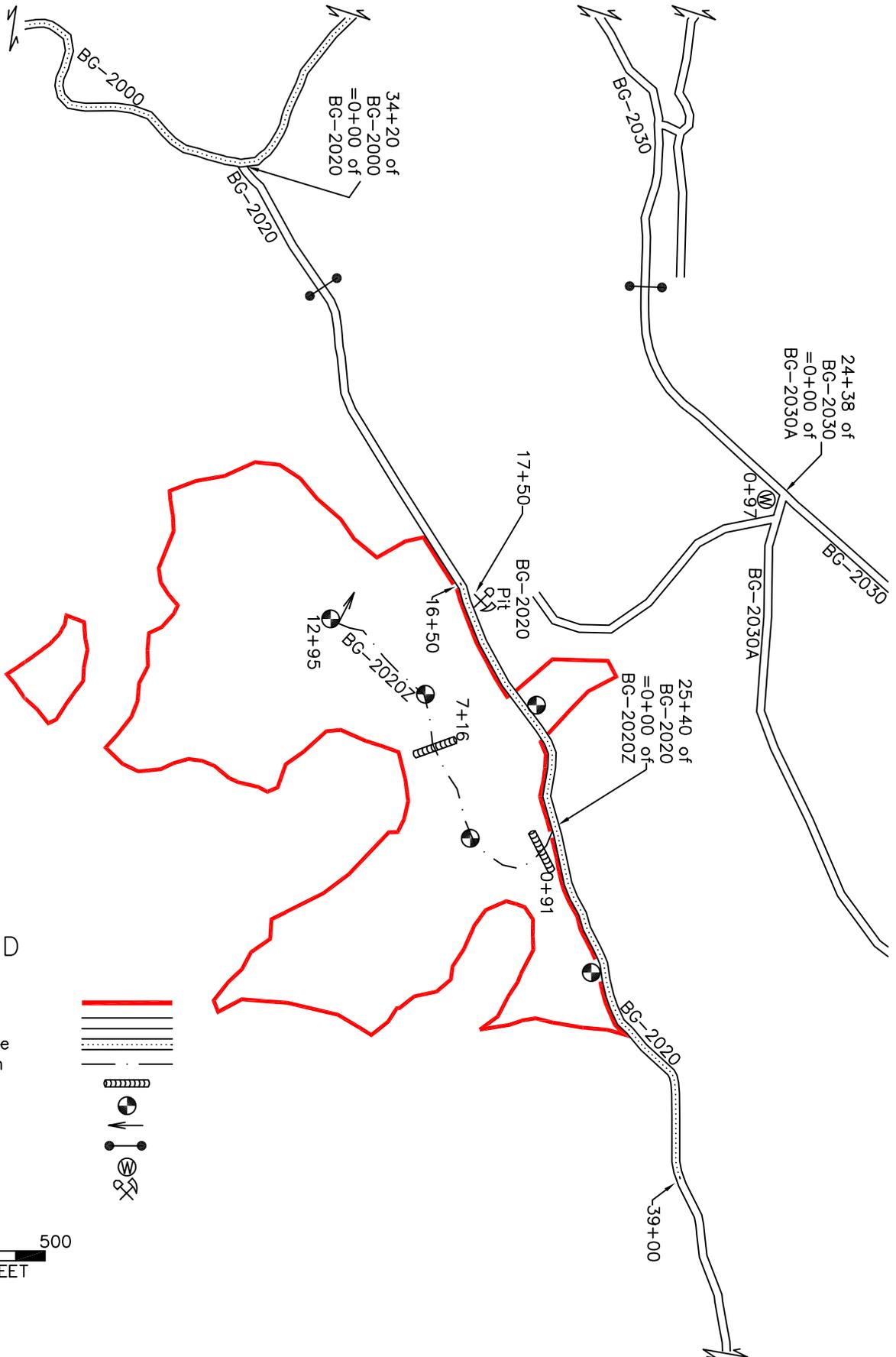
- Unit Boundary 
- Existing Road 
- Pre-haul Maintenance 
- Required Reconstruction 
- Optional Reconstruction 
- Landing 



RELLESKOP VRH

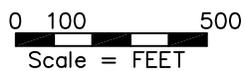
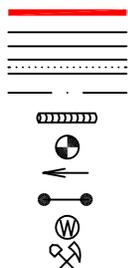
ROAD PLAN MAP

Map page 3 of 4



LEGEND

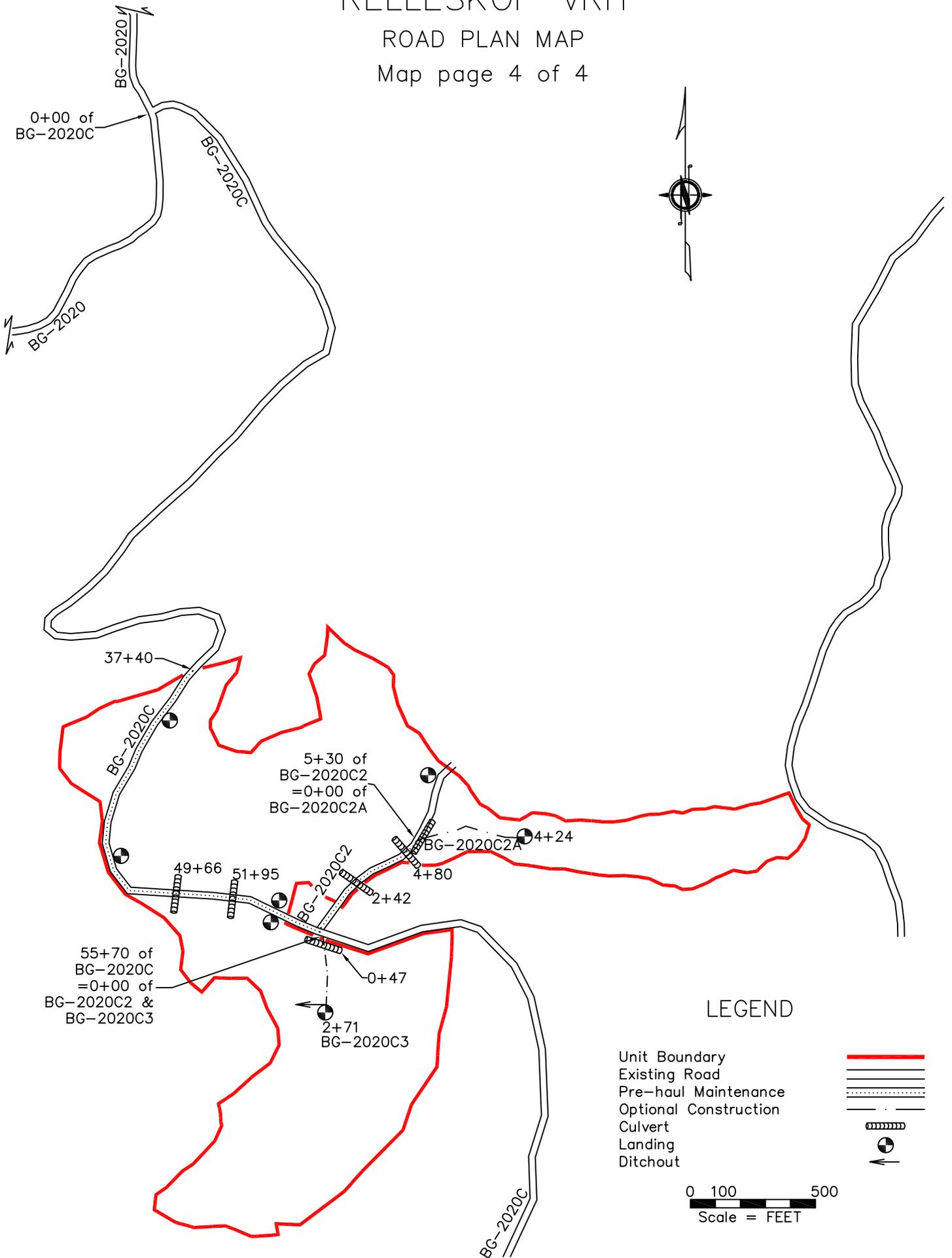
- Unit Boundary
- Existing Road
- Pre-haul Maintenance
- Optional Construction
- Culvert
- Landing
- Ditch Out
- Existing Gate
- Waste Area
- Rock Source



RELLESKOP VRH

ROAD PLAN MAP

Map page 4 of 4



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

RELLESKOP VRH TIMBER SALE ROAD PLAN
CLARK COUNTY
LARCH UNIT, YACOLT DISTRICT
PACIFIC CASCADE REGION

AGREEMENT NO.: 30-099726

STAFF ENGINEER: DAVID STONE

DRAWN & COMPILED BY: ALICIA COMPTON
& DAVID STONE

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
BG-2000	0+00 to 59+25	Pre-haul Maintenance
BG-2020	16+50 to 39+00	Pre-haul Maintenance
BG-2020C	37+40 to 55+70	Pre-haul Maintenance
BG-2020C2	0+00 to 5+30	Pre-haul Maintenance
TJ-1	0+00 to 5+90	Pre-haul Maintenance
TJ-2	0+00 to 4+52	Reconstruction

0-3 OPTIONAL ROADS

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

<u>Road</u>	<u>Stations</u>	<u>Type</u>
BG-2000C	0+00 to 1+00	Construction
BG-2000D	0+00 to 1+84	Construction
BG-2020Z	0+00 to 12+95	Construction
BG-2020C2A	0+00 to 4+24	Construction
BG-2020C3	0+00 to 2+71	Construction
Spur A	0+00 to 2+02	Reconstruction

0-4 CONSTRUCTION

Construction includes, but is not limited to clearing, grubbing, right-of-way debris disposal, excavation and embankment to sub-grade, landing and turnout construction, culvert installation, manufacture and application of rock, and compaction of earthwork and rock.

0-5 RECONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
TJ-2 Spur A	0+00 to 4+52 0+00 to 2+02	Clear, grub, widen subgrade, excavate ditchlines, grade, shape, and compact subgrade surface in accordance to TYPICAL SECTION SHEET Reconstruct road grade according to stakes and reference points marked in the field. Apply rock in accordance to ROCK LIST. Grade, shape, and compact rock.

0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
BG-2000 BG-2020 TJ-1	0+00 to 59+25 16+50 to 39+00 0+00 to 5+90	Grade, shape, and compact existing surface in accordance to TYPICAL SECTION SHEET. Apply rock in accordance to ROCK LIST. Grade, shape, and compact rock.
BG-2020C BG-2020C2	37+40 to 55+70 0+00 to 5+30	Install culverts in accordance to CULVERT LIST. Grade, shape, and compact existing surface in accordance to TYPICAL SECTION SHEET. Apply rock in accordance to ROCK LIST. Grade, shape, and compact rock.

0-10 ABANDONMENT

This project includes abandonment listed in Clause 9-21.

0-12 DEVELOP ROCK SOURCE

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

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

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

1-2 UNFORESEEN CONDITIONS

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

1-3 ROAD DIMENSIONS

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

1-4 ROAD TOLERANCES

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

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

1-5 DESIGN DATA

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

Purchaser shall repair or replace all materials, roadway infrastructure, and road components damaged during road work or operation activities. The Contract Administrator will direct repairs and replacements. Repairs to structural materials must be made in accordance with the manufacturer’s recommendation, and may not begin without written approval from the Contract Administrator.

1-9 DAMAGED METALLIC COATING

Any cut ends, or damaged galvanized or aluminized coating on existing or new bridge components, culverts, downspouts, and flumes must be cleaned and treated with a minimum of two coats of zinc rich paint or cold galvanizing compound.

1-10 WSDOT STANDARD SPECIFICATION REFERENCE

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

1-15 ROAD MARKING

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

- Four-foot stakes with orange flagging, orange paint, or aluminum reference tags for all road types.

1-18 REFERENCE POINT DAMAGE

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

1-21 HAUL APPROVAL

Purchaser shall not use roads under this road plan for timber hauling, rock hauling, or right-of-way hauling, without written approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before work begins.

1-23 ROAD WORK PHASE APPROVAL

Purchaser shall obtain written approval from the Contract Administrator upon completion of each of the following phases of road work:

- Subgrade construction
- Waste area construction
- Subgrade compaction
- Rock pit development
- Rock compaction
- Stockpile construction
- Abandonment

1-25 ACTIVITY TIMING RESTRICTION

The specified activities are not allowed during the listed closure periods unless authorized in writing by the Contract Administrator. Restrictions for hauling forest products are specified in Contract Clause H-140 Special Harvest Requirements.

<u>Road</u>	<u>Activity</u>	<u>Closure Period</u>
All	Construction, Reconstruction, Pre-haul Maintenance, Rock Source Work, & Abandonment	October 1 to April 30
BG-2000 (0+00 to 34+20), BG-2000C, BG-2000D, TJ-1, TJ-2 & Spur A	Construction, Reconstruction, Pre-haul, & Abandonment	7 PM to 7 AM

1-26 OPERATING DURING CLOSURE PERIOD

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

1-29 SEDIMENT RESTRICTION

Purchaser shall not allow silt-bearing runoff to enter any streams.

1-30 CLOSURE TO PREVENT DAMAGE

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

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

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

1-32 BRIDGE AND ASPHALT SURFACE RESTRICTION

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

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

1-33 SNOW PLOWING RESTRICTION

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

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

Purchaser shall immediately remove any mud, dirt, rock, or other material tracked or spilled on to county roads and state highways.

If additional damage to the surface, signs, guardrails, etc. occurs then the damage will be repaired, at the Purchaser’s expense, as directed by the Contract Administrator when authorized by the county or WSDOT.

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

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

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

Purchaser shall perform maintenance on roads listed in Contract Clause C-050 PURCHASER ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

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

2-4 PASSAGE OF LIGHT VEHICLES

Purchaser shall maintain the following roads in a condition that will allow the passage of light administrative vehicles.

<u>Road</u>	<u>Stations</u>
BG-2000	0+00 to 59+25
BG-2020	0+00 to 58+00
BG-2020C	0+00 to 55+70
BG-2020C2	0+00 to 7+95
TJ-1	0+00 to 5+90
TJ-2	0+00 to 4+52

2-5 MAINTENANCE GRADING – EXISTING ROAD

Purchaser shall use a grader to shape the existing surface before applying rock.

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-5 CLEARING

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

3-7 RIGHT-OF-WAY DECKING

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

3-8 PROHIBITED DECKING AREAS

Purchaser shall not deck right-of-way timber in the following areas:

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- On slopes greater than 45%.
- Against standing trees.
- On slopes above a cut bank.

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Stumps over 22 inches diameter must be split. Stumps over 40 inches must be quartered. Grubbing must be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

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

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

Purchaser is not required to remove stumps within waste areas if they are cut flush with the ground.

3-20 ORGANIC DEBRIS DEFINITION

Organic debris is defined as all vegetative material not eligible for removal by Contract Clause G-010 PRODUCTS SOLD AND SALE AREA or G-011 RIGHT TO REMOVE FOREST PRODUCTS AND CONTRACT AREA, that is larger than one cubic foot in volume within the clearing and waste area limits.

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, before subgrade approval.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

Waste areas for organic debris are located as listed below and at areas approved in writing by the Contract Administrator.

<u>Road</u>	<u>Disposal Location</u>
All roads	On the right side of the BG-2000 at station 2+90 on old trail
BG-2020 Pit	On the right side of the BG-2030A at station 0+97

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland.
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.
- On slopes above a cut bank.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris outside of the clearing limits in natural openings downhill side of the road, unless otherwise detailed in this road plan and as directed by the Contract Administrator.

SECTION 4 – EXCAVATION

4-2 PIONEERING

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

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Purchaser shall follow these standards for road grade and alignment:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 13 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Maximum grade change for sag vertical curves is 6% in 100 feet.
- Maximum grade change for crest vertical curves is 4% in 100 feet.

4-4 SWITCHBACK STANDARDS

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

- Maximum adverse grades for switchbacks is 10% of the curve radius.
- Maximum favorable grades for switchbacks is 12%.
- Maximum transition grades entering and leaving switchbacks is a 5% grade change.
- Transition grades required to meet switchback grade limitations must be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

Purchaser shall construct excavation slopes no steeper than shown on the following table, unless construction staked or designed:

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

4-6 EMBANKMENT SLOPE RATIO

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

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

- 2 feet for embankment heights at centerline of 3 to 6 feet.
- 4 feet for embankment heights at centerline of greater than 6 feet.

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

4-10 WIDEN THE EXISTING SUBGRADE

On the following roads, Purchaser shall widen the subgrade and fill slopes to the dimensions shown on the TYPICAL SECTION SHEET. If necessary, Purchaser shall reconstruct excavation slopes to provide sufficient width for the road surface and any ditches.

<u>Road</u>	<u>Stations</u>
TJ-2	0+00 to 4+52
Spur A	0+00 to 2+02

4-21 TURNOUTS

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

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

Purchaser shall construct and reconstruct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Ditches must be constructed concurrently with construction of the subgrade.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as identified on the CULVERT LIST and as directed by the Contract Administrator. Ditchouts must be constructed in a manner that diverts ditch water onto the forest floor and must have excavation backslopes no steeper than a 1:1 ratio.

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

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

4-37 WASTE AREA LOCATION

Purchaser shall deposit waste material in the listed designated areas. Additional waste areas may also be identified or approved by the Contract Administrator. The amount of material allowed in a waste area is at the discretion of the Contract Administrator.

<u>Road</u>	<u>Waste Area Location</u>	<u>Comments</u>
BG-2020 Pit	On the right side of the BG-2030A at station 0+97	Pile Organic material separately from all other waste

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas, except as otherwise specified in this plan:

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

4-48 NATIVE MATERIAL

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

4-55 ROAD SHAPING

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

4-56 DRY WEATHER SHAPING

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

4-60 FILL COMPACTION

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

4-61 SUBGRADE COMPACTION

Purchaser shall compact constructed and reconstructed subgrades in accordance with the COMPACTION LIST by routing equipment over the entire width except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before rock application and timber haul.

4-62 DRY WEATHER COMPACTION

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

4-63 EXISTING SURFACE COMPACTION

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

SECTION 5 – DRAINAGE

5-5 CULVERTS

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

5-6 CULVERT TYPE

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

5-10 CULVERT MARKER INSTALLATION

On the following roads, Purchaser shall provide and install culvert markers at the inlet in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL.

<u>Road</u>	<u>Stations</u>
BG-2020C	49+66 & 51+95
BG-2020C2	2+42 & 4+80

5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT LIST that are not installed will become the property of the state. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and the National Corrugated Metal Pipe Association’s "Installation Manual for Corrugated Steel Drainage Structures" the Corrugated Polyethylene Pipe Association’s “Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings”. Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer’s recommendations.

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

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

5-20 ENERGY DISSIPATERS

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

5-25 CATCH BASINS

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

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets. Minimum specifications require that rock be placed at a width of one culvert diameter on each side of the culvert opening, and to a height of one culvert diameter above the top of the culvert. Rock may not restrict the flow of water into culvert inlets or catch basins. Rock must be set in place by machine. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed. Rock type must meet the specifications in Clause 6-50 LIGHT LOOSE RIP RAP.

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by October 1. Purchaser shall construct waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical distance of no more than 10 feet between waterbars or between natural drainage paths, and with a maximum spacing of 200 feet.

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

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

<u>Source</u>	<u>Location</u>
BG-2020 Pit	NE1/4 NE1/4 Sec. 26, T04N, R03E, W.M.

6-5 ROCK FROM COMMERCIAL SOURCE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from any commercial source at the Purchaser's expense. Rock sources are subject to written approval by the Contract Administrator before their use. Rock source must be a WSDOT certified source.

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

Purchaser shall conduct rock source development and use at the following sources, in accordance with the written ROCK SOURCE DEVELOPMENT PLAN prepared by the state and included in this road plan. Upon completion of operations, the rock source must be left in the condition specified in the ROCK SOURCE PLAN, and approved in writing by the Contract Administrator. Purchaser shall notify the Contract Administrator a minimum of 5 business days before starting any operations in the rock source.

<u>Source</u>	<u>Location</u>
BG-2020 Pit	NE1/4 NE1/4 Sec. 26, T04N, R03E, W.M.

6-22 FRACTURE REQUIREMENT FOR ROCK

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

6-23 ROCK GRADATION TYPES

Purchaser shall provide or manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality during manufacture and placement into a stockpile. The exact point of evaluation for conformance to specifications will be determined by the Contract Administrator. Purchaser shall provide a sieve analysis upon request from the Contract Administrator. Gradation specifications in Clause 6-28, 6-34, 6-50 and the Rock Crushing Compliance Procedure.

6-28 1 ¼-INCH MINUS CRUSHED ROCK

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

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

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

6-34 3-INCH JAW RUN ROCK

% Passing 3" square sieve	100%
% Passing 1 ½" square sieve	45 - 65%

Ballast rock must be 100% equal to, or smaller than, 3 inches in at least one dimension. Rock may contain no more than 5 percent organic debris, and trash. All percentages are by weight.

6-50 LIGHT LOOSE RIP RAP

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

<u>Quantity</u>	<u>Approximate Size Range</u>
20% to 90%	18" - 28"
15% to 80%	8" - 18"
10% to 20%	3" - 8"

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of specified rock depths, are defined as the compacted depths using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are loose yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction. Unless otherwise stated in Clause 6-75 OPTIONAL ROCK EXCEPTION.

6-56 ROCK MEASUREMENT BY TRUCK VOLUME

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

6-65 ROCK STOCKPILE LOCATION

Purchaser shall stockpile rock as listed below. Rock stockpiles must be in accordance Clause 6-67 ROCK STOCKPILE SPECIFICATIONS. .

<u>Rock Source</u>	<u>Rock Type</u>	<u>Quantity (c.y.)</u>	<u>Stockpile Location</u>
BG-2020 Pit	1 ¼" Minus	2,025	The left side of the BG-2000 at Station 59+25

6-67 ROCK STOCKPILE SPECIFICATIONS

Rock stockpiles listed in Clause 6-65 ROCK STOCKPILE LOCATION must be in accordance with Clause 11-1 STOCKPILE SPECIFICATIONS AND DIMENSIONS.

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for completed subgrade and drainage installation, including inlet and outlet armor, before rock application.

6-71 ROCK APPLICATION

Purchaser shall apply rock in accordance with the specifications and quantities shown on the ROCK LIST. Rock must be spread, shaped, and compacted full width concurrent with rock hauling operations. Road surfaces must be compacted in accordance with the COMPACTION LIST by routing equipment over the entire width.

6-73 ROCK FOR WIDENED PORTIONS

Purchaser shall apply rock to turnarounds, turnouts, and areas with curve widening to the same depth and specifications as the traveled way.

6-75 OPTIONAL ROCK EXCEPTION

On the following roads, if hauling takes place from June 1 to September 30 Purchaser may provide and place less rock than shown on the ROCK LIST, when approved in writing by the Contract Administrator.

If less rock is applied, Purchaser shall submit a written plan, for approval, describing how these roads will be constructed, used, maintained, and treated post-haul. Purchaser shall meet post-haul specifications in Section 9 POST-HAUL ROAD WORK, the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, or other conditions of the approved plan.

<u>Road</u>	<u>Stations</u>
BG-2020Z	7+95 to 12+95

6-76 DRY WEATHER ROCK COMPACTION

The Contract Administrator may require the application of water to facilitate compaction of the rock surfacing. The method of water application is subject to approval by the Contract Administrator.

SECTION 8 – EROSION CONTROL

8-2 PROTECTION FOR EXPOSED SOIL

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

8-15 REVEGETATION

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

<u>Road</u>	<u>Location</u>	<u>Qty (lbs)*</u>	<u>Abandonment</u>
BG-2000	0+00 to 59+25	0.9	
BG-2020	16+50 to 39+00	1.8	
BG-2020C	37+40 to 55+70	4.1	
BG-2020C2	0+00 to 5+30	1.4	
TJ-2	0+00 to 4+52	4.0	
BG-2000C	0+00 to 1+00	1.7	2.8
BG-2000D	0+00 to 1+84	2.5	4.8
BG-2020Z	0+00 to 12+95	14.7	34.4
BG-2020C2A	0+00 to 4+24	4.9	11.2
BG-2020C3	0+00 to 2+71	3.3	7.2
Spur A	0+00 to 2+02	2.9	5.2

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

8-16 REVEGETATION SUPPLY

The Purchaser shall provide the grass seed.

8-17 REVEGETATION TIMING

Purchaser shall revegetate during the first available opportunity after road work is completed. Soils may not be allowed to sit exposed for longer than one month without receiving revegetation treatment unless otherwise approved in writing by the Contract Administrator.

8-19 ASSURANCE FOR SEEDED AREA

Purchaser shall ensure the growth of a uniform and dense crop at least 75% coverage of 3-inch tall grass. Purchaser shall reapply the grass seed in areas that have failed to germinate or have been damaged through any cause, restore eroded or disturbed areas, clean up and properly dispose of eroded materials, and reapply the grass seed at no additional cost to the state.

8-25 GRASS SEED

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

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

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

SECTION 9 – POST-HAUL ROAD WORK

9-1 EARTHEN BARRICADES

On the following roads, barricades shall be constructed in accordance with the EARTHEN BARRICADE DETAIL.

<u>Road</u>	<u>Stations</u>
BG-2000	At 2+90 on the BG-2000 block trail access on the right side of the road
BG-2000C	0+00
BG-2000D	0+00
BG-2020Z	0+00
BG-2020C2A	0+00
BG-2020C3	0+00
Spur A	0+00

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

Culverts removed from roads become the property of the Purchaser and must be removed from state land.

9-5 POST-HAUL MAINTENANCE

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

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

9-12 LANDING EMBANKMENT REMOVAL

Purchaser shall reduce or relocate the landing embankment. Place excavated material in a waste area designated by the Contract Administrator.

9-21 ROAD ABANDONMENT

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

<u>Road</u>	<u>Stations</u>	<u>Type</u>	<u>Date</u>
BG-2000C	0+00 to 1+00	Light	Before the termination of this contract
BG-2000D	0+00 to 1+84	Light	Before the termination of this contract
BG-2020Z	0+00 to 12+95	Light	Before the termination of this contract
BG-2020C2A	0+00 to 4+24	Light	Before the termination of this contract
BG-2020C3	0+00 to 2+71	Light	Before the termination of this contract
Spur A	0+00 to 2+02	Light	Before the termination of this contract

9-22 LIGHT ABANDONMENT

- Rip the surface to a minimum depth of 12 inches.
- Outslope roadway or inslope to a waterbar as appropriate.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing which will produce a vertical drop of no more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 200 feet, or as marked in the field.
- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
- Key waterbars into the cut-slope to intercept the ditch. Waterbars shall be outsloped to provide positive drainage. Outlets shall be on stable locations.
- Remove culverts and leave the resulting trench open. The removed fill material shall be placed and compacted in a location that will not erode into any Type 1 through 5 waters or wetlands. Slope all trench walls and approach embankments no steeper than 1.5:1.
- Scatter woody debris onto abandoned road surfaces as directed by the Contract Administrator.
- Block roads with earthen barricades according to the attached EARTHEN BARRICADE DETAIL.
- Apply grass seed concurrently with abandonment to all exposed soil within the old roadway limits and in accordance with Section 8 EROSION CONTROL.
- Cover, concurrently with abandonment, all exposed soils within 100 feet of any live stream, with a 4-inch deep layer of straw.

SECTION 10 MATERIALS

10-15 CORRUGATED STEEL CULVERT

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

10-17 CORRUGATED PLASTIC CULVERT

Polyethylene culverts must meet AASHTO M-294 specifications, or ASTM F-2648 specifications for recycled polyethylene. Culverts must be Type S – double walled with a corrugated exterior and smooth interior.

10-21 METAL BAND

Metal coupling and end bands must meet the AASHTO specification designated for the culvert and must have matching corrugations. Culverts 24 inches and smaller must have bands with a minimum width of 12 inches. Culverts over 24 inches must have bands with a minimum width of 24 inches.

10-22 PLASTIC BAND

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

10-24 GAUGE AND CORRUGATION

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

<u>Diameter</u>	<u>Gauge</u>	<u>Corrugation</u>
18"	16 (0.064")	2 ² / ₃ " X ¹ / ₂ "
24" to 48"	14 (0.079")	2 ² / ₃ " X ¹ / ₂ "

SECTION 11 SPECIAL NOTES

11-1 ROCK STOCKPILE SPECIFICATIONS AND DIMENSIONS

Before placing aggregates upon the stockpile site, the site shall be cleared of vegetation, trees, stumps, brush, rocks, or other debris and the ground leveled to a smooth, firm, uniform surface sloped at 2 percent and ditched as required.

Stockpile location shall be approved in writing by the Contract Administrator, prior to any stockpile aggregate placement.

The piles, when completed, shall be neat and uniform in shape. Stockpiles in excess of 200 cubic yards shall be built up in layers not more than 4 feet in depth. Stockpile layers shall be constructed by trucks, "clamshells" or other methods approved, in writing, by the Contract Administrator. Pushing aggregates into piles with a bulldozer shall not be permitted. Each layer shall be completed over the entire area of the pile before depositing aggregates in the next layer. The aggregate shall not be dumped so that any part of it runs down and over the lower layers in the stockpile. The method of dropping from a bucket or spout in one location so as to form a cone shaped pile will not be permitted.

Construct one stockpile at Station 59+25 on the BG-2000 road as shown at the location on the Road Plan Map.

The stockpile of 1¼ Inch minus crushed rock shall have a base of 82.0' x 81.0', 1-1/3:1 sloped sides with a height of 10 feet, and a top dimension of 55.5' x 54.5'.

The stockpile shall have all sides and top uniform. Side slopes are based on 37 degrees, which is equivalent to 1-1/3:1 ratio, or approximately 75 percent.

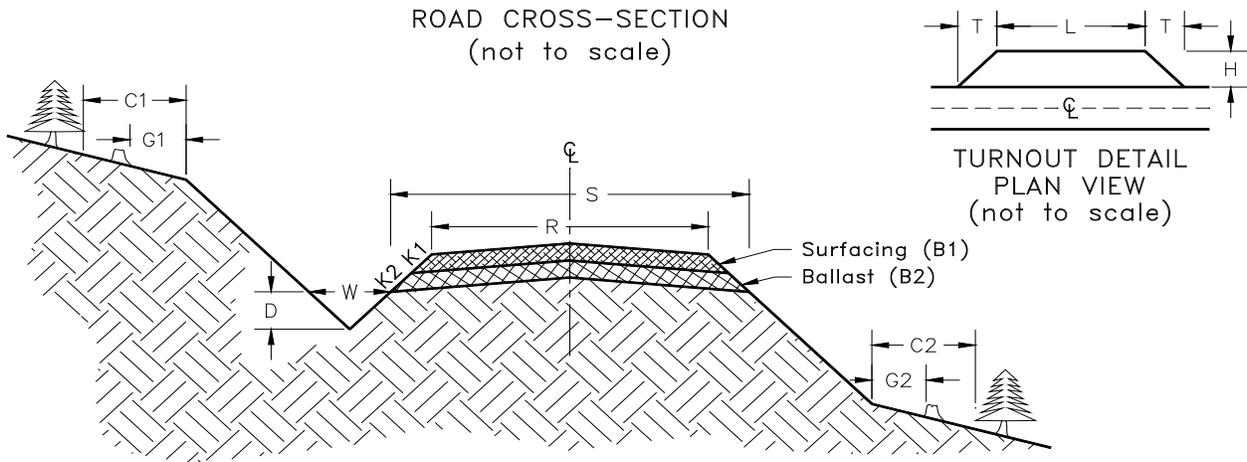
Tolerances from listed dimensions shall be no more than 0.5 feet in any direction. All final measurements shall be approved in writing by the Contract Administrator.

Cubic yard quantities are estimates and are specified as loose yards in the ROCK LIST. Any changes to dimensions that are approved in writing by the Contract Administrator shall meet the equivalent of the estimated ROCK LIST volume. Loose yards in the ROCK LIST for stockpile construction include 16 percent additional volume for dimensional shrinkage that may occur during construction.

Stockpiles of different types or sizes of aggregate must be spaced far enough apart, or separated by suitable walls or partitions, to prevent the mixing of the aggregates.

When removing materials from the face of the stockpile, the equipment shall be operated in such a manner as to face-load from the floor to the top of the stockpile.

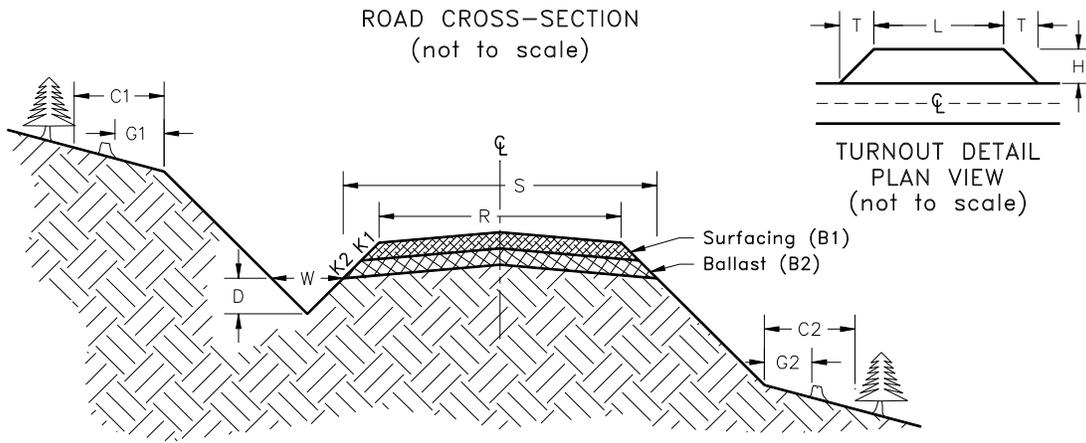
TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width (feet)	Road Width (feet)	Ditch		Crown at CL (inches)	Grubbing Limits (feet)		Clearing Limits (feet)	
						Width (feet)	Depth (feet)		G1	G2	C1	C2
				S	R	W	D		G1	G2	C1	C2
BG-2000	0+00	59+25	A	16	12	3	1	4	NA	NA	NA	NA
BC2020	16+50	39+00	A	16	12	3	1	4	NA	NA	NA	NA
BG-2020C	37+40	55+70	A	16	12	3	1	4	NA	NA	NA	NA
BG-2020C2	0+00	5+30	A	16	12	3	1	4	NA	NA	NA	NA
TJ-1	0+00	5+90	A	16	12	3	1	4	NA	NA	NA	NA
TJ-2	0+00	4+52	C	14	12	6 percent outslope			3	3	5	5
* BG-2000C	0+00	1+00	C	16	12	3	1	4	3	3	5	5
* BG-2000D	0+00	1+84	C	16	12	3	1	4	3	3	5	5
* BG-2020Z	0+00	12+95	C	16	12	3	1	4	3	3	5	5
* BG-2020C2A	0+00	4+24	C	16	12	3	1	4	3	3	5	5
* BG-2020C3	0+00	2+71	C	16	12	3	1	4	3	3	5	5
* Spur A	0+00	2+02	C	14	12	3	1	4	3	3	5	5

* Optional Roads

ROCK LIST
(Page 1 of 4)



BALLAST

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout		
									Length (feet)	Width (feet)	Taper (feet)
			K2	B2					L	H	T
3" JAW RUN											
BG-2000 - LANDING	--	--	--	--	41/Landing	1 Landing	41	BG-2020 Pit			
BG-2020 - LANDING	--	--	--	--	41/Landing	2 Landings	82				
BG-2020C - LANDING	--	--	--	--	41/Landing	4 Landings	164				
BG-2020C2 - LANDING	--	--	--	--	41/Landing	1 Landing	41				
TJ-2	0+00	4+52	1½:1	9	46	4.52	208				
CURVE WIDENING	--	--	1½:1	9	--	--	8				
JUNCTION		0+00	--	--	--	--	12				
* BG-2000C	0+00	1+00	1½:1	9	46	1.00	46				
JUNCTION		0+00	--	--	--	--	12				
LANDING	--	--	--	--	41/Landing	1 Landing	41				
* BG-2000D	0+00	1+84	1½:1	9	46	1.84	85				
CURVE WIDENING	--	--	1½:1	9	--	--	3				
JUNCTION		0+00	--	--	--	--	12				
LANDING	--	--	--	--	41/Landing	1 Landing	41				

* Optional Rock

ROCK LIST
(Page 2 of 4)

BALLAST (continued)

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout		
									Length (feet)	Width (feet)	Taper (feet)
			K2	B2					L	H	T
3" JAW RUN											
BG-2020Z	0+00	7+95	1½:1	9	46	7.95	366	BG-2020 Pit	50	10	25
CURVE WIDENING	--	--	1½:1	9	--	--	18				
JUNCTION		0+00	--	--	--	--	18				
LANDING	--	--	--	--	41/Landing	1 Landing	41				
* BG-2020Z	7+95	12+95	1½:1	9	46	5.00	230				
CURVE WIDENING	--	--	1½:1	9	--	--	12				
TURNOUT	--	--	1½:1	9	28/TO	1 TO	28				
LANDING	--	--	--	--	41/Landing	2 Landings	82				
* BG-2020C2A	0+00	4+24	1½:1	9	46	4.24	195				
CURVE WIDENING	--	--	1½:1	9	--	--	10				
JUNCTION		0+00	--	--	--	--	12				
LANDING	--	--	--	--	41/Landing	1 Landing	41				
* BG2020C3	0+00	2+71	1½:1	9	46	2.71	125				
CURVE WIDENING	--	--	1½:1	9	--	--	4				
JUNCTION		0+00	--	--	--	--	12				
LANDING	--	--	--	--	41/Landing	1 Landing	41				
* Spur A	0+00	2+02	1½:1	9	46	2.02	93				
CURVE WIDENING	--	--	1½:1	9	--	--	4				
LANDING	--	--	--	--	41/Landing	1 Landing	41				

* Optional Rock

Required JAW RUN BALLAST TOTAL **999** Cubic Yards
Optional JAW RUN BALLAST TOTAL **1,170** Cubic Yards

ROCK LIST
(Page 3 of 4)

SURFACE

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout		
									Length (feet)	Width (feet)	Taper (feet)
			K1	B1					L	H	T
STOCKPILE	@ 59+25 on BG-2000		--	--	--	--	2,025	BG-2020 Pit	50	10	25
BG-2000	0+00	59+25	1½:1	6	30	59.25	1,778				
CURVE WIDENING	--	--	1½:1	6	--	--	63				
TURNOUT JUNCTION	--	--	1½:1	6	19/TO	6 TO	114				
BG-2020	16+50	39+00	1½:1	6	30	22.50	675				
CURVE WIDENING	--	--	1½:1	6	--	--	24				
BG-2020C	37+40	55+70	1½:1	4	19	18.30	348				
CURVE WIDENING	--	--	1½:1	4	--	--	12				
BG-2020C2	0+00	5+30	SPOT ROCK		--	--	60				
TJ-1	0+00	5+90		4	19	5.90	112				
CURVE WIDENING	--	--	1½:1	4	--	--	3				
JUNCTION	0+00		--	--	--	--	19				

Required 1 1/4 -INCH MINUS CRUSHED TOTAL **5,268** Cubic Yards

CULVERT LIST

Road Number	Location	Culvert			Armoring (Cubic Yards)			Backfill Material	Bedding Material	Culvert Marker (Y/N)	Remarks
		Dia. (inches)	Length (feet)	Type	Inlet	Outlet	Type				
BG-2000D	0+00	18	40	XX	0.5	0.5	LL	NT	NT	N	Cross drain
BG-2020Z	0+91	18	30	XX	0.5	0.5	LL	NT	NT	N	Cross drain
	7+16	18	30	XX	0.5	0.5	LL	NT	NT	N	Cross drain
	12+95	-	-	-	-	-	-	-	-	-	Ditchout right
BG-2020C	49+66	18	30	XX	1.0	1.0	LL	NT	NT	Y	Cross drain
	51+95	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
BG-2020C2	2+42	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
	4+80	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain, No Skew
BG-2020C2A	0+00	18	40	XX	0.5	0.5	LL	NT	NT	N	Cross drain
BG-2020C3	0+47	18	30	XX	0.5	0.5	LL	NT	NT	N	Cross drain
	2+71	-	-	-	-	-	-	-	-	-	Ditchout right

Key:

- CR - Crushed Rock – 1 ¼ “ minus
- NT - Native (bank run)
- SR - Shot Rock
- SPR - Select Pit Run
- LL - Light Loose Riprap
- HL - Heavy Loose Riprap
- GM - Galvanized Metal
- PS - Polyethylene Pipe Single Wall
- PD - Polyethylene Pipe Dual Wall
- AM - Aluminized Metal
- XX - PD or GM
- PSDS - Polyethylene Pipe Single Wall Full Round Pipe
- GMDS - Galvanized Metal Full Round Pipe
- PSFL - Polyethylene Pipe Single Wall Half Round Pipe
- GMFL - Galvanized Metal Half Round Pipe

COMPACTION LIST

Road	From Station	To Station	Type	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
All Waste Areas	All	All	Waste Area	12	Excavation	28,000	3	--
All roads	All	All	Embankment	12	Excavation	28,000	4	--
All roads	All	All	Subgrade	12	Vibratory Smooth Drum	20,000	4	5
All Construction & Reconstruction roads	All	All	Jaw Run	12	Vibratory Grid	20,000	4	5
All Pre-haul Maintenance roads	All	All	1 1/4" Minus	6	Vibratory Smooth Drum	20,000	4	5

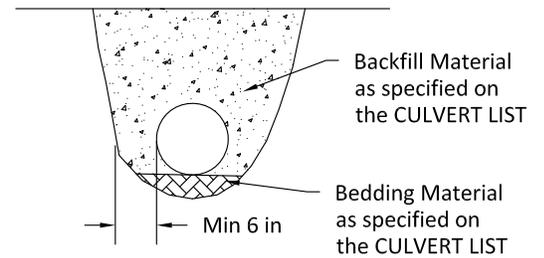
CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 1 OF 2

INSTALLATION REQUIREMENTS:

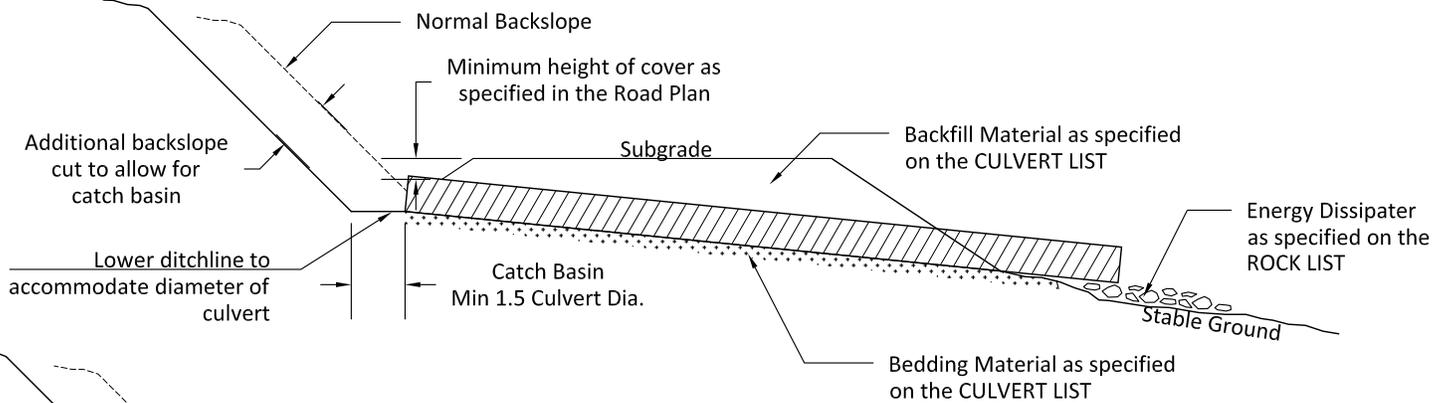
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly supported along the barrel.
2. Backfill material shall be compacted under the culvert haunches, around the sides, and above the culvert in accordance with the COMPACTION LIST.

ALL DRAWINGS ARE NOT TO SCALE

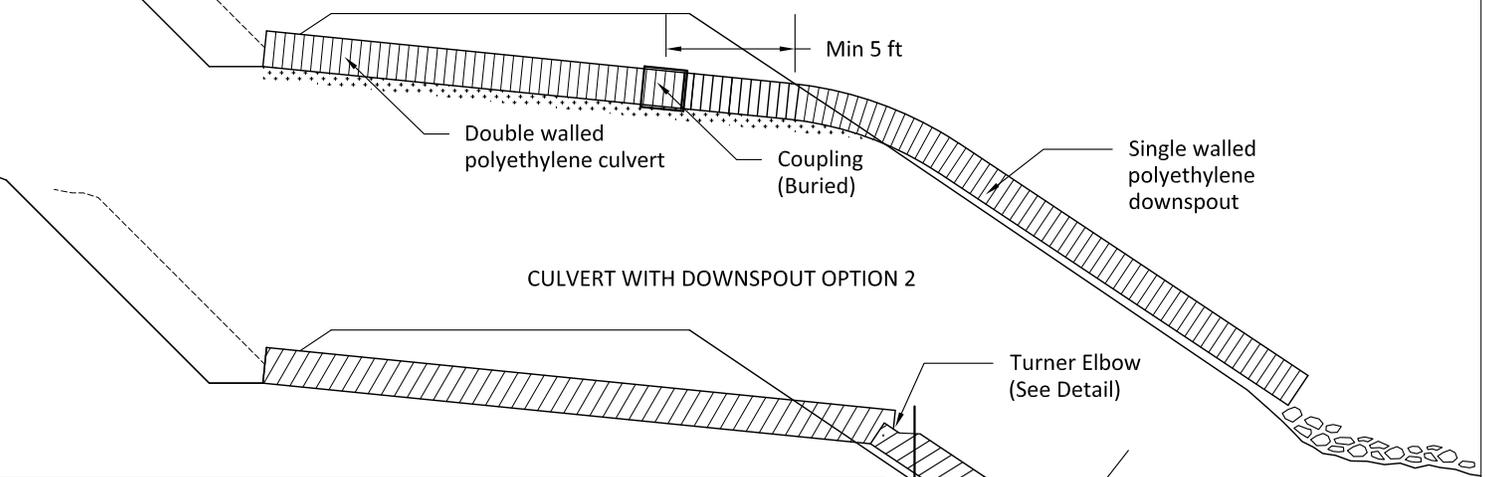
CROSS SECTION



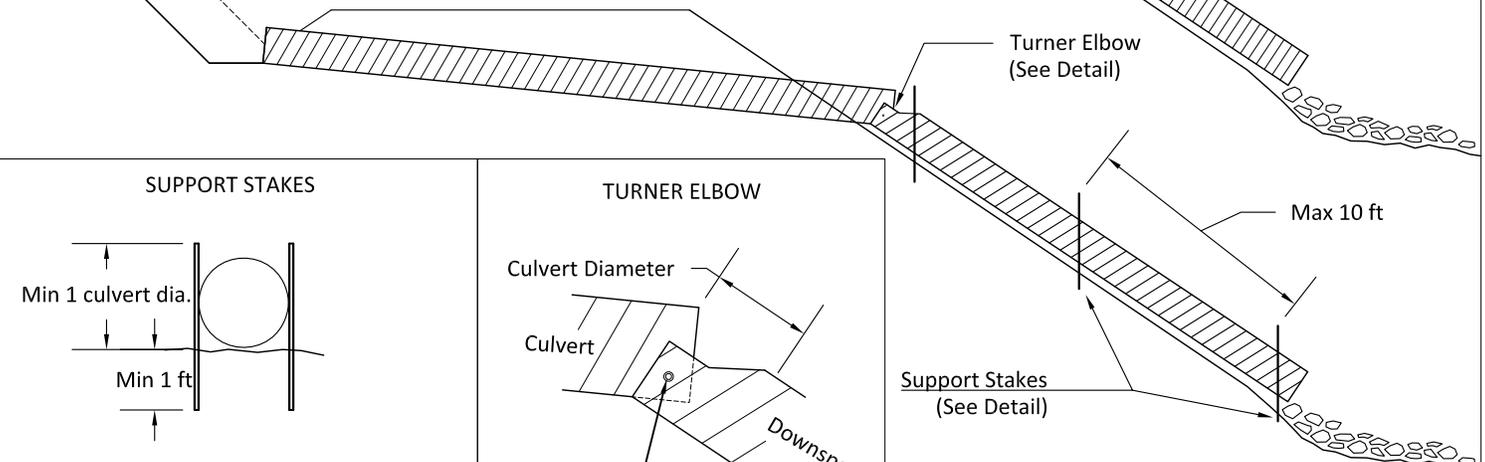
CULVERT PROFILE (TYPICAL)



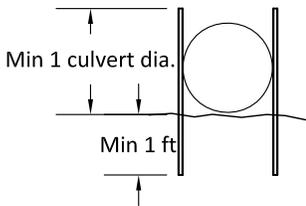
CULVERT WITH DOWNSPOUT OPTION 1



CULVERT WITH DOWNSPOUT OPTION 2

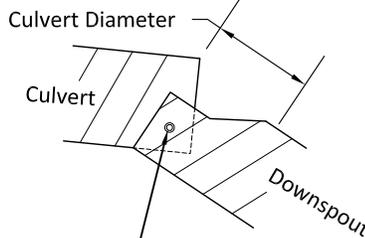


SUPPORT STAKES



Stake Material: T-post with rust protection coating.
Connections: Bolt support stakes to the culvert with $\frac{5}{8}$ " u-bolts, with washers on both the inside and outside of the culvert.
Alternative staking methods may be approved, in writing, by the Contract Administrator.

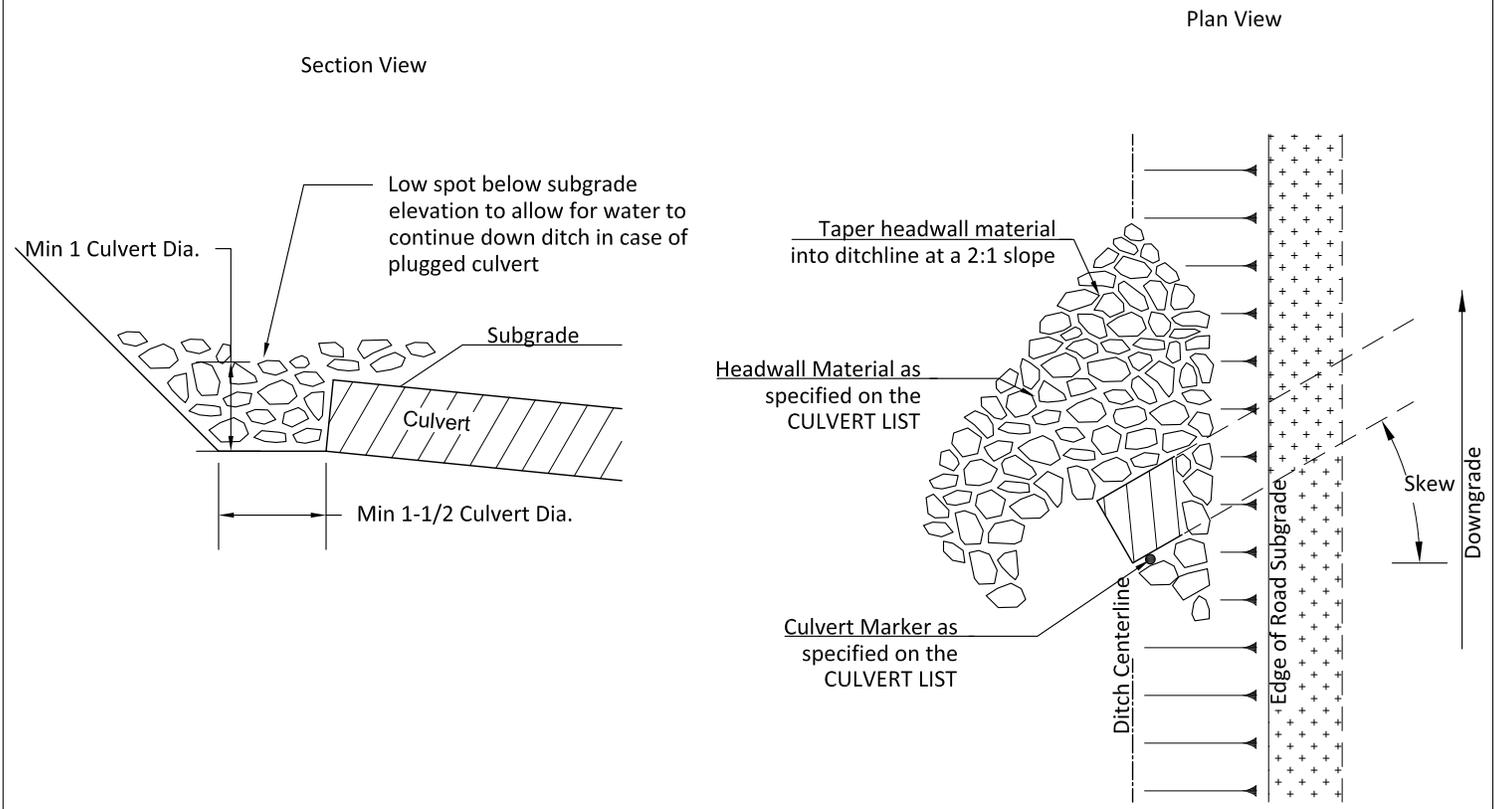
TURNER ELBOW



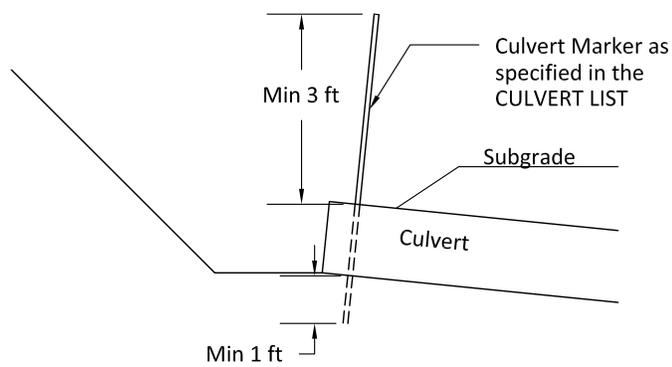
Bolted with $\frac{5}{8}$ " galvanized bolts and washers (both sides)
Downspout must be 6 inches larger in diameter than the culvert.

CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 2 OF 2

HEADWALLS

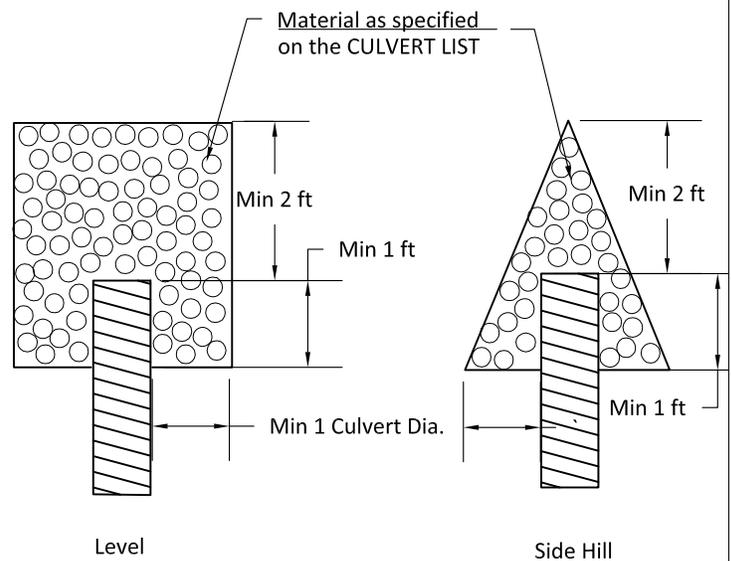


CULVERT MARKERS



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

ENERGY DISSIPATORS



Min Energy Dissipater Depth: 1 Culvert Dia.

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 1 of 2

Cuts and Fills

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

Surface

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

Drainage

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

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 2 of 2

Preventative Maintenance

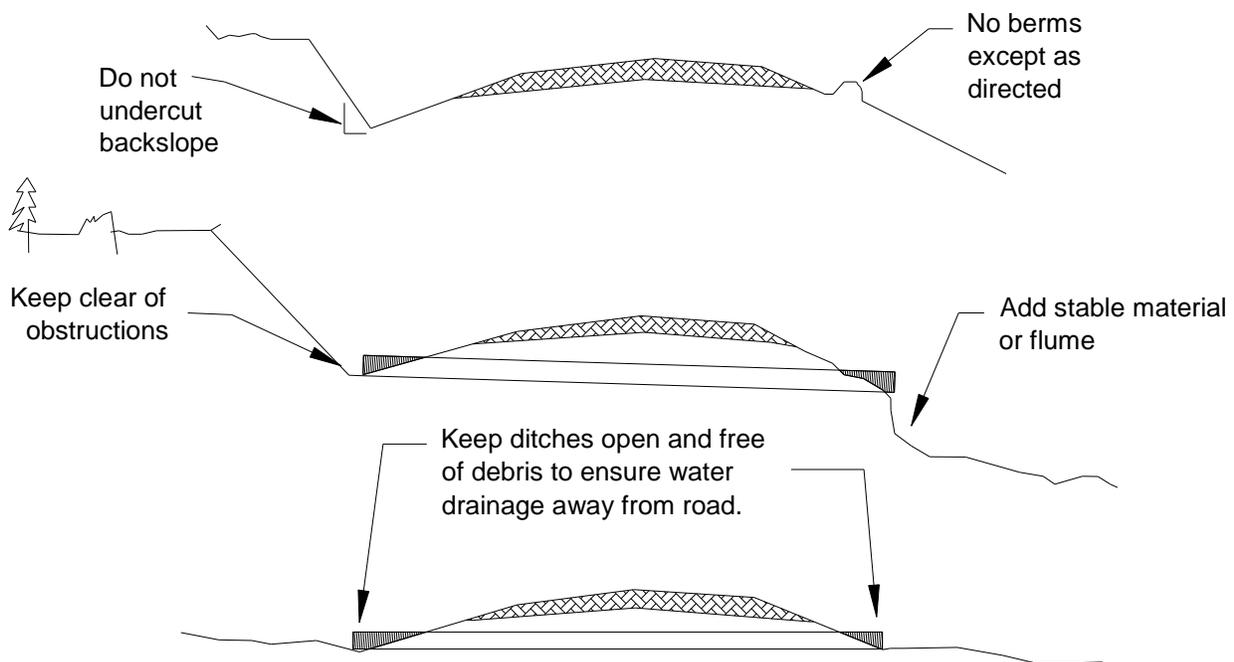
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

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

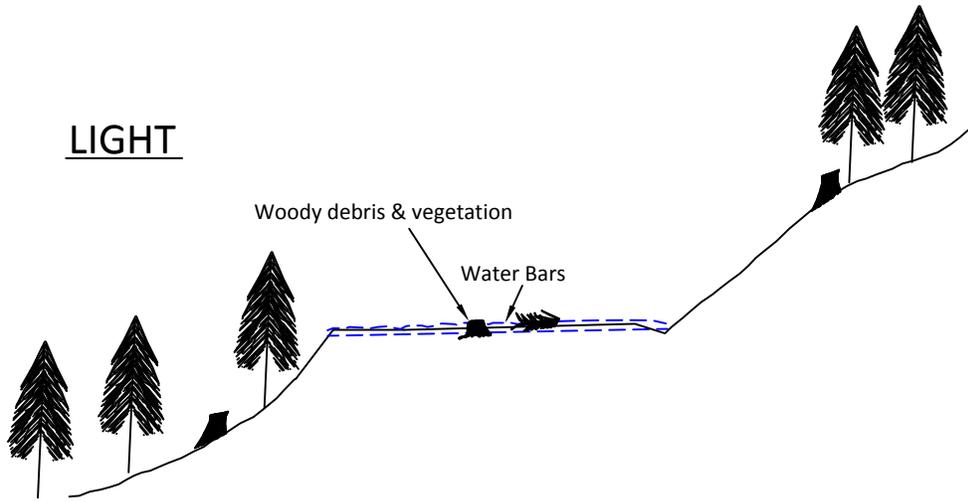
Debris

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

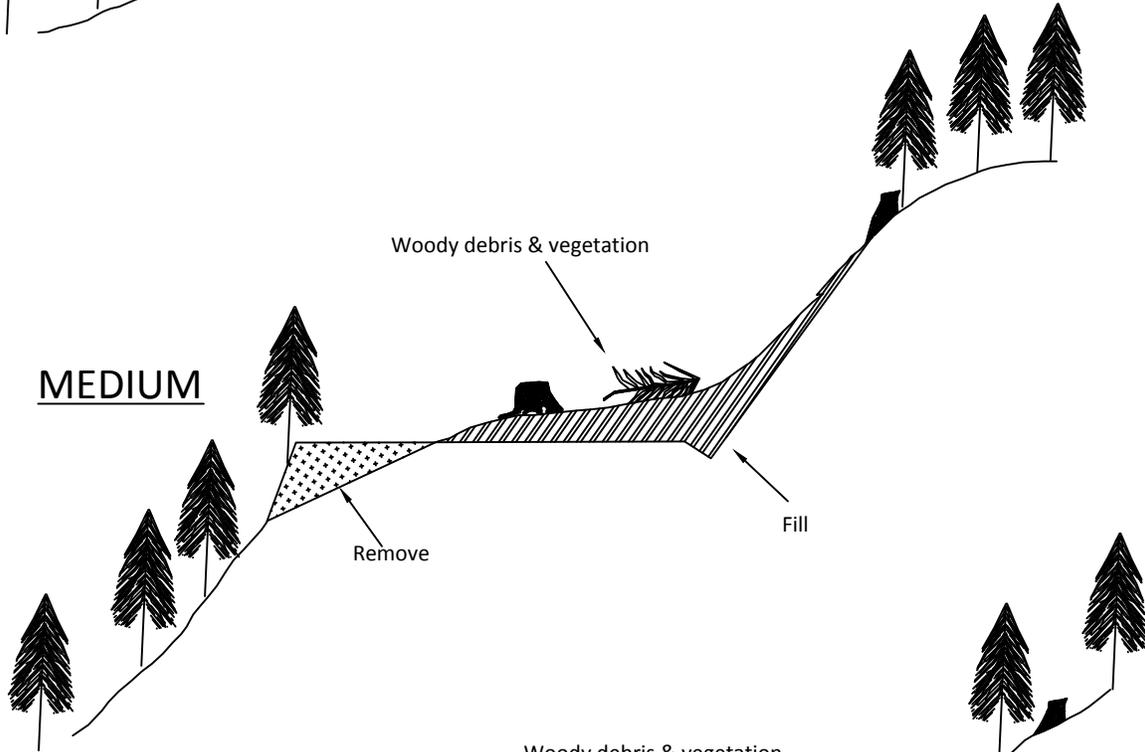


ROAD ABANDONMENT CROSS SECTIONS

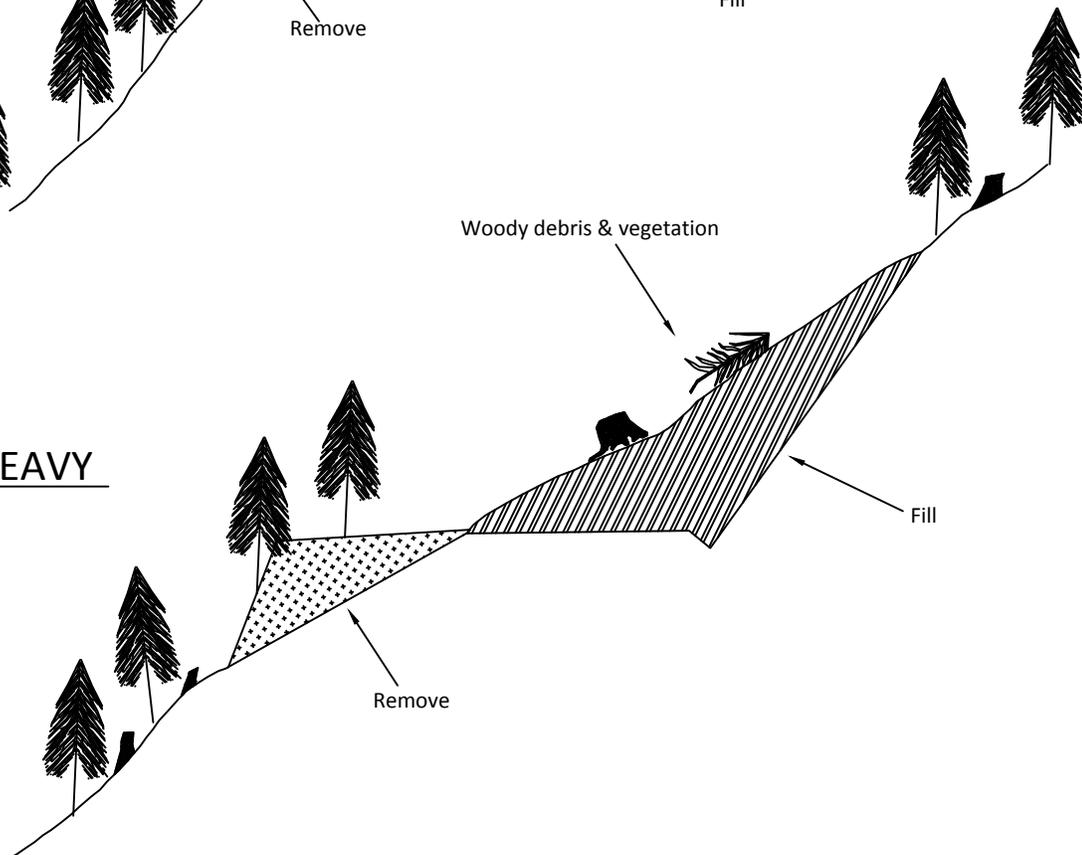
LIGHT



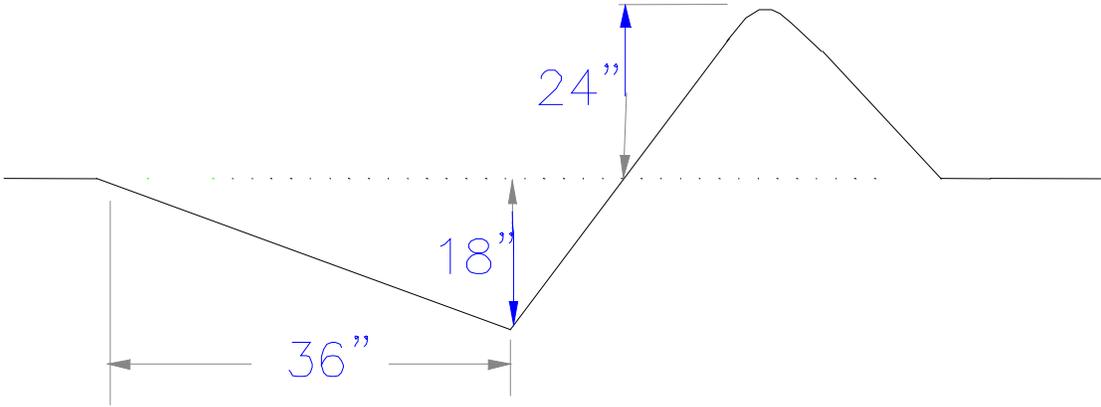
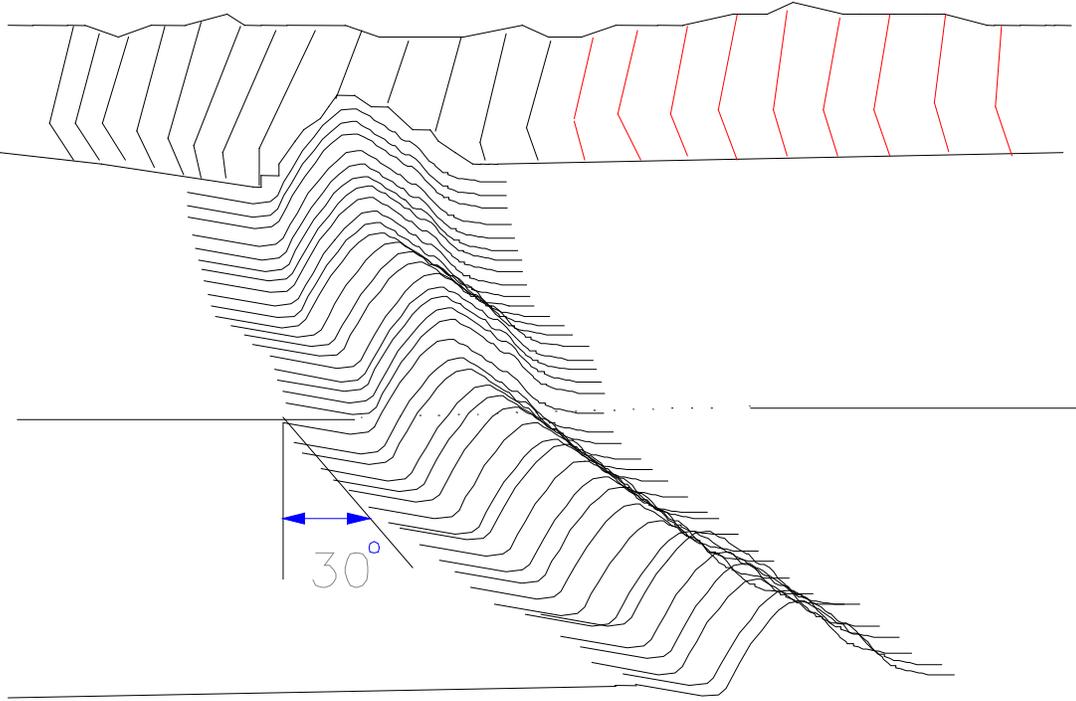
MEDIUM



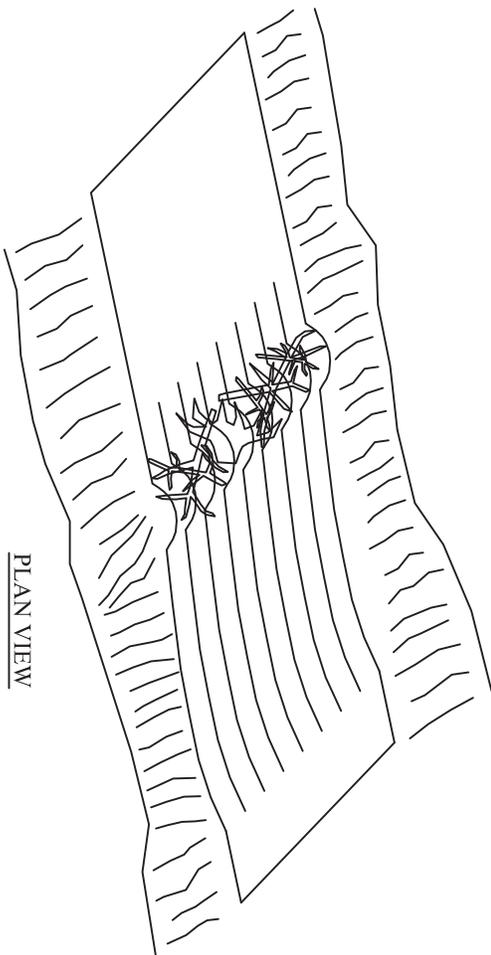
HEAVY



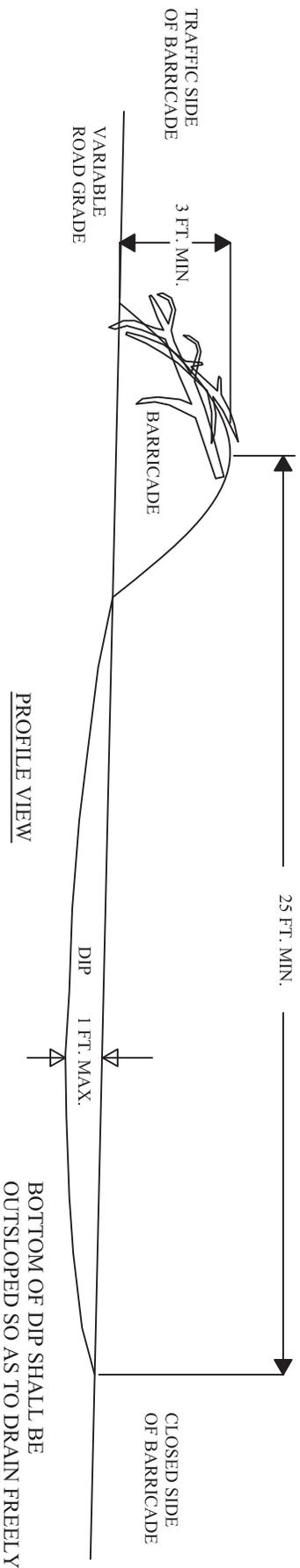
NON-DRIVABLE WATER BAR DETAIL



EARTHEN BARRICADE DETAIL



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



Rock Crushing Compliance Procedure

Phase I. Equipment Adjustment

- Step 1:** At start up of crushing operations, the contractor will notify the contract administrator when the rock meets the gradation specifications in the contract. None of the rock crushed during this calibration period will be counted toward the amount required to be crushed, and this rock must be kept separate from accepted rock crushed later.
- Step 2:** The contract administrator and the contractor will test the rock. Two samples will be taken. If the rock meets specifications, crushing may begin. If the rock does not meet specifications, return to Step 1.

Phase II. Production

- Step 3:** The contract administrator and the contractor will continue periodic testing to ensure that rock stays in spec. Testing will take place according to the following schedule:
- After the first 500 yards
 - After every 1,000 yards thereafter
- a) Any time a sample is out of spec, but is within 5%*, the contractor will be notified and a second sample will be taken later in the day. If the second sample meets specifications, the rock crushed during that day will be accepted. If the second sample also fails to meet spec, none of the rock crushed since the last acceptable test will be counted toward the amount to be crushed.
- b) Any time a sample is out of spec and is more than 5% off in any category, none of the rock crushed since the last acceptable test will be accepted and that rock must be kept separate from the stockpile. Return to Step 1.
- c) Contractors are strongly encouraged to take their own samples regularly and keep their operations in spec to avoid unnecessary expenses.
- * The 5% will be applied only to sieve specs for 2" to ¼"; rock that is out of spec in larger sizes must be kept separate from the acceptable rock.

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

INFORMATIONAL BLASTING PLAN

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

1. Blaster-in-Charge: Name: _____

Company: _____

Address: _____

Telephone: _____

2. Quarry Name/Location: _____

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

4. Hole Spacing: _____

5. Burden: _____

6. Hole Diameter: _____

7. Hole Depth: _____

8. Sub Drill: _____

9. Number of Holes: _____

10. Stemming Depth: _____

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

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

13. Total Weight of Primers for Shot: _____

14. Calculated Powder Factor/Cubic Yard: _____

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

M-126PAC (03/04)

INFORMATIONAL BLASTING PLAN

Page 2 of 3

16. Number of Holes Fired on Each Delay: _____

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

18. Type of Blasting Machine: _____

19. Date, Start Drilling: _____

20. Date and Time, Start Loading: _____

21. Date and Time of Blast (approx.): _____

INFORMATIONAL BLASTING PLAN

Page 3 of 3

22. Detail drawing of delay system (show hole pattern and delays in milliseconds). Attach additional sheets if required:

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

23. Submitted by: _____ Date: _____

24. Received by: _____ Date: _____

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

M-126PAC (03/04)

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

PIT DEVELOPMENT PLAN

BG-2020 Pit – NE ¼ NE ¼ Section 26, Township 04 North, Range 03 East, W.M.

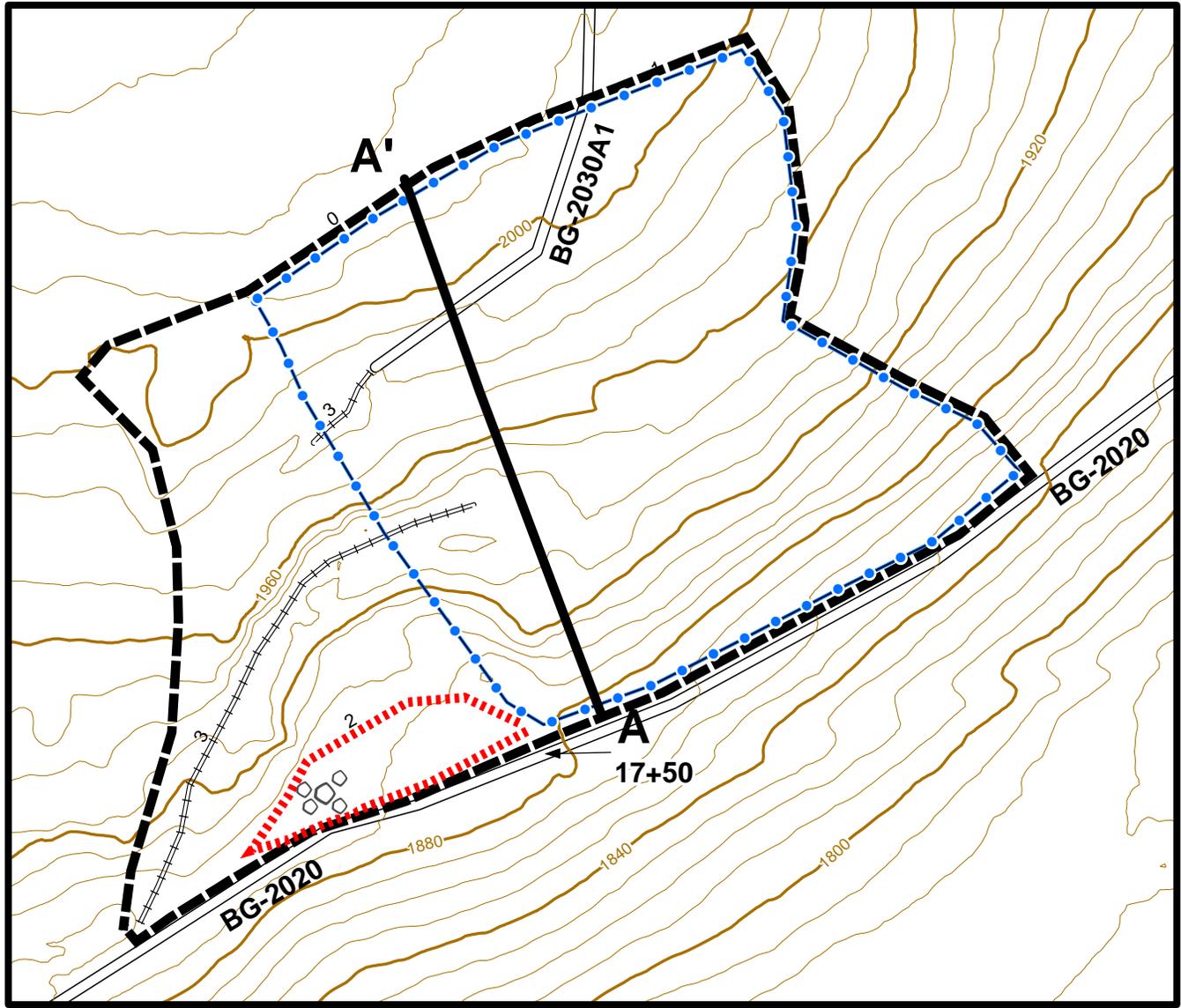
(Page 1 of 2)

1. Development shall take place in mining area as indicated on the Pit Development Plan Map for the BG-2020 Pit.
2. All vegetation including stumps shall be cleared a minimum of 25 feet beyond the top of all working faces. Trees shall be cleared to a minimum of $\frac{3}{4}$ of the height of the tallest tree adjacent to the pit. The Contractor shall maintain a minimum of 15 foot wide area stripped to rock from the pit face at all times. All Clearing shall be approved in writing by the Contract Administrator prior to overburden removal.
3. Overburden from the BG-2020 Pit shall be end hauled to the waste area at Station 0+97 on the BG-2030A road. All waste material shall be compacted. Minimal acceptable compaction is achieved by placing waste material in 1 foot or shallower lifts and routing excavation equipment over entire width of the lifts. All Overburden removal shall be approved in writing by the Contract Administrator prior to any drilling operation and or rock extraction.
4. Root wads and organic debris larger than one cubic foot in volume shall be separated from overburden material and piled in the designated Waste Area.
5. The Operator shall submit an informational drilling and shooting plan to the Contract Administrator 5 working days prior to any drilling. (Form #M-126PAC)
6. Drilling may begin when the Contract Administrator has approved, in writing, all of the Clearing, Grubbing and Overburden removal. Purchaser shall block access roads and trails before blasting operations.
7. Pit faces shall not exceed 30 feet in height. All pit faces shall be sloped no steeper than $\frac{1}{4}$:1.
8. Working bench width shall be a minimum of 20 feet.
9. The pit floor shall have continuity of slope and be left in a smooth and neat condition, providing drainage at a minimum of 2 percent. All knobs, bumps, or extrusions shall be removed to the designated floor level by excavation or drill and shoot techniques. The installation of a culvert may be necessary to drain water from the pit floor in locations where the pit floor is adjacent to a road. The location of the culvert shall be subject to approval of the Contract Administrator. No sediment shall enter live water.
10. The location and amount of material to be placed in a temporary stockpile are subject to approval of the Contract Administrator. All stock piled material shall be maintained in a neat and useable condition.
11. Oversize material remaining in the rock source at the conclusion of use shall not exceed 5 percent of the total volume mined during that operation. Oversize material is defined as rock fragments larger than two feet in any direction. At the conclusion of operations, all remaining oversize material shall be placed at the location shown on the Pit Development Plan Map for the BG-2020 Pit and as directed by the Contract Administrator in a location outside of the future development.
12. At the end of operations, pit faces and walls shall be scaled and cleared of loose and overhanging material and shall not be undermined or over steepened; benches shall have safety berms constructed or access blocked to highway vehicles. Access roads/trails shall have Non-driveable waterbars constructed in accordance with the NON-DRIVEABLE WATER BAR DETAIL as directed by the Contract Administrator. Upon completion of operations in the pit, the area will be left in a condition that will not endanger public safety, damage property, or be hazardous to human life.
13. All exposed soil in the waste area, access roads, and exposed banks shall be grass seeded in accordance with Road Plan Clauses 8-15 and 8-25.
14. All operations shall be carried out in compliance with all regulations of:
 - a. Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations@ (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration.
 - b. "Safety Standards for Construction Work" (296-155 WAC), Washington Department of Labor and Industries.
15. The Operator shall submit an informational drilling and shooting report to the Contract Administrator after blasting has occurred. (Form #M-126PAC)
16. The pit area shall be worked and left in a condition that future operations may proceed in an orderly manner. Upon completion of operations, the site shall be cleared of all temporary structures/equipment and rubbish, access roads shall be blocked with riprap at locations as directed by the Contract Administrator, and shall be left in a neat and presentable condition. At the completion of rock source operations, Purchaser shall ask Contract Administrator for written approval of final rock source condition and compliance with the terms of this plan.

BG-2020 Pit

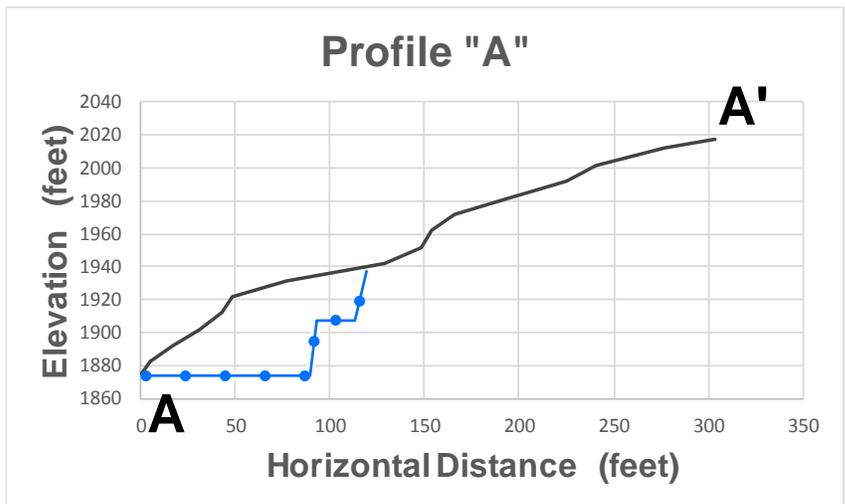
NE1/4 NE 1/4 Sec. 26, T04N, R03E, W.M.

(Page 2 of 2)



Legend

- Rock Pit Boundary
- Mining Area
- Pit Floor
- Access Road
- Contours 40 ft
- Contours 10 ft
- Existing Road
- Profile Line
- Oversize Rock Storage Area



SUMMARY - Road Development Costs

REGION: Pacific Cascade

DISTRICT: Yacolt

SALE/PROJECT NAME: Relleskop VRH

AGREEMENT #: 30-099726

ROAD NUMBERS:	BG-2000C, BG-2000D, BG-2020Z, BG-2020C2A, & BG-2020C3	TJ-2 & Spur A	BG-2000, BG-2020, BG-2020C, BG-2020C2, & TJ-1	
ROAD STANDARD:	Construction	Reconstruction	Maintenance	
NUMBER OF STATIONS:	22.74	6.54	111.25	
CLEARING & GRUBBING, EXCAVATION AND FILL, MISC.:	\$7,817.72	\$1,221.02	\$3,851.84	
ROAD ROCK:				
	Optional:	\$18,962.78	\$1,897.50	\$0.00
	Required:	\$0.00	\$3,121.32	\$47,760.25
	Total:	\$18,962.78	\$5,018.82	\$47,760.25
STOCKPILE:	\$23,814.00	\$0.00	\$0.00	
CULVERTS AND FLUMES:	\$2,794.10	\$0.00	\$2,008.40	
STRUCTURES:	\$0.00	\$0.00	\$0.00	
ADDITIONAL REQUIREMENTS:	\$0.00	\$0.00	\$0.00	
MOBILIZATION:	\$1,076.83	\$114.56	\$1,099.73	
TOTAL COSTS:	\$54,465.43	\$6,354.40	\$54,720.22	
COST PER STATION:	\$2,395	\$972	\$492	
ROAD DEACTIVATION & ABANDONMENT COSTS:	\$3,070.99	\$323.93	\$0.00	
	10% OVERHEAD AND GENERAL EXPENSE =		\$11,893.50	
	TOTAL (All Roads) =		\$130,828.47	
	TOTAL (Minus Optional Rock) =		\$109,968.19	
	SALE VOLUME MBF =		2,962	
	TOTAL \$/MBF =		\$44.17	
	TOTAL \$/MBF (Minus Optional Rock) =		\$37.13	

Profit and Risk costs are accounted on an individual basis.

Compiled by: David Stone

Date: March 3, 2020

SUMMARY OF ROAD

Sale: Relleskop VRH

Road: BG-2000

Required Pre-Haul Maintenance-	59+25	stations
	1.12	miles
Required Abandonment-	0.00	stations
	0.00	miles

Required Reconstruction	0.00	stations
	0.00	miles
Optional Reconstruction	0.00	stations
	0.00	miles

Required Construction	0.00	stations
	0.00	miles
Optional Construction	0.00	stations
	0.00	miles

PRE-HAUL MAINTENANCE

CLEARING

MISC.				
Grade and shape existing road surface -	59.25	stations @	\$15.65 per station	\$927.26
Roll shaped road surface w/ vibratory roller prior to rocking -	59.25	stations @	\$9.10 per station	\$539.18
Construct landing -	1	@	\$142.50 each	\$142.50
Grass seed -	0.90	lbs @	\$3.00 per lb	\$2.70
Construct Earthen Barricade - @ 2+90 on the right side of road at toe of fill slope	1.00	@	\$150.00 each	\$150.00

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$1,761.64**

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

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

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>						
0	LF of 18"	\$0.00	0	LF of 24"	\$0.00	
0	LF of 30"	\$0.00	0	LF of 36"	\$0.00	
0	LF of 42"	\$0.00	0	LF of 48"	\$0.00	
0	LF of 54"	\$0.00	0	LF of 60"	\$0.00	
0	LF of 66"	\$0.00	0	LF of 72"	\$0.00	
		\$0.00			\$0.00	
<u>Half Rounds</u>						
0	LF of 24"	\$0.00	0	LF of 30"	\$0.00	
0	LF of 36"	\$0.00	0	LF of 42"	\$0.00	
		\$0.00			\$0.00	
<u>Culvert Stakes & Markers</u>						
0	stakes	\$0.00				
0	markers	\$0.00				
		\$0.00				
TOTAL CULVERTS						\$0.00

ROCK

0+00 to	59+25	1,990 cy. of	1 1/4" Minus	@	\$13.32 per c.y.=	\$26,506.80
Landing		41.0 cy. of	3" Jaw Run	@	\$12.26 per c.y.=	\$502.66
TOTAL ROCK						\$27,009.46

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance-	\$28,771.10
Required Abandonment-	\$0.00
Required Construction -	\$0.00

Required Reconstruction	\$0.00
Optional Reconstruction	\$0.00
Optional Construction	\$0.00

SUBTOTAL **\$28,771.10**

TOTAL \$28,771.10

COST PER STATION \$485.59

SUMMARY OF ROAD

Sale:	Relleskop VRH		Road:	BG-2020	
Required Pre-Haul Maintenance-	22+50 0.43	stations miles	Required Reconstruction -	0.00	stations miles
Required Abandonment-	0.00	stations miles	Optional Reconstruction -	0.00	stations miles
			Required Construction -	0.00	stations miles
			Optional Construction -	0.00	stations miles

PRE-HAUL MAINTENANCE

CLEARING

Roadside Brushing 0.00 miles @ \$800.00 per mile = \$0.00

EXCAVATION

MISC.

Spot grade and shape existing road surface - 22.50 stations @ \$10.96 per station \$246.60
 Roll shaped road surface w/ vibratory roller prior to rocking - 22.50 stations @ \$9.10 per station \$204.75
 Construct landings - 2 @ \$142.50 each \$285.00
 Grass seed - 1.80 lbs @ \$3.00 per lb \$5.40

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$741.75**

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CULVERTS - MATERIALS & INSTALLATION

Culverts

0	LF of 18"	\$0.00		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$0.00				\$0.00

Half Rounds

0	LF of 24"	\$0.00		0	LF of 30"	\$0.00
0	LF of 36"	\$0.00		0	LF of 42"	\$0.00
		\$0.00				\$0.00

Culvert Stakes & Markers

0	stakes	\$0.00
0	markers	\$0.00
		\$0.00

TOTAL CULVERTS **\$0.00**

ROCK

16+50 to	39+00	699	cy. of	1 1/4" Minus	@	\$12.82	per c.y.=	\$8,961.18
Landings		82	cy. of	3" Jaw Run	@	\$11.78	per c.y.=	\$965.96
								TOTAL ROCK
								\$9,927.14

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance-	\$10,668.89	Required Reconstruction -	\$0.00		
Required Abandonment-	\$0.00	Optional Reconstruction -	\$0.00	SUBTOTAL	\$10,668.89
Required Construction -	\$0.00	Optional Construction -	\$0.00	TOTAL	\$10,668.89

COST PER STATION \$474.17

SUMMARY OF ROAD

Sale: Relleskop VRH

Road: BG-2020C

Required Pre-Haul Maintenance- 18+30 stations 0.35 miles	Required Reconstruction - 0.00 stations 0.00 miles	Required Construction - 0.00 stations 0.00 miles
Required Abandonment- 0.00 stations 0.00 miles	Optional Reconstruction - 0.00 stations 0.00 miles	Optional Construction - 0.00 stations 0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

Spot grade and shape existing road surface -	18.30	stations @	\$10.96	per station	\$200.57
Roll shaped road surface w/ vibratory roller prior to rocking -	18.30	stations @	\$9.10	per station	\$166.53
Construct landing -	4.00	@	\$142.50	each	\$570.00
Grass seed -	4.10	lbs @	\$3.00	per lb	\$12.30

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$949.40**

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CULVERTS - MATERIALS & INSTALLATION

Culverts

60	LF of 18"	\$988.20		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$988.20				\$0.00

Half Rounds

0	LF of 24"	\$0.00		0	LF of 30"	\$0.00
0	LF of 36"	\$0.00		0	LF of 42"	\$0.00
		\$0.00				\$0.00

Culvert Stakes & Markers

0	stakes	\$0.00	
2	markers	\$16.00	
		\$16.00	

TOTAL CULVERTS **\$1,004.20**

ROCK

37+40 to 55+70	360	cy. of	1 1/4" Minus	@	\$14.39	per c.y.=	\$5,180.40
Energy Dissipator/Headwall - culverts	3	cy. of	Riprap LL	@	\$14.98	per c.y.=	\$44.94
Landings	164.0	cy. of	3" Jaw Run	@	\$13.47	per c.y.=	\$2,209.08
						TOTAL ROCK	\$7,434.42

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance- \$9,388.02	Required Reconstruction - \$9,388.02	
Required Abandonment- \$0.00	Optional Reconstruction - \$0.00	SUBTOTAL \$9,388.02
Required Construction - \$0.00	Optional Construction - \$0.00	TOTAL \$9,388.02

COST PER STATION \$513.01

SUMMARY OF ROAD

Sale: Relleskop VRH

Road: BG-2020C2

Required Pre-Haul Maintenance- 5+30 stations 0.10 miles	Required Reconstruction - 0.00 stations 0.00 miles	Required Construction - 0.00 stations 0.00 miles
Required Abandonment- 0.00 stations 0.00 miles	Optional Reconstruction - 0.00 stations 0.00 miles	Optional Construction - 0.00 stations 0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

Spot grade and shape existing road surface -	5.30	stations @	\$10.96	per station	\$58.09
Roll shaped road surface w/ vibratory roller prior to rocking -	5.30	stations @	\$9.10	per station	\$48.23
Construct landing -	1.00	@	\$142.50	each	\$142.50
Grass seed -	1.40	lbs @	\$3.00	per lb	\$4.20

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$253.02**

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CULVERTS - MATERIALS & INSTALLATION

Culverts

60	LF of 18"	\$988.20	0	LF of 24"	\$0.00
0	LF of 30"	\$0.00	0	LF of 36"	\$0.00
0	LF of 42"	\$0.00	0	LF of 48"	\$0.00
0	LF of 54"	\$0.00	0	LF of 60"	\$0.00
0	LF of 66"	\$0.00	0	LF of 72"	\$0.00
		\$988.20			\$0.00

Half Rounds

0	LF of 24"	\$0.00	0	LF of 30"	\$0.00
0	LF of 36"	\$0.00	0	LF of 42"	\$0.00
		\$0.00			\$0.00

Culvert Stakes & Markers

0	stakes	\$0.00			
2	markers	\$16.00			
		\$16.00			

TOTAL CULVERTS **\$1,004.20**

ROCK

0+00 to 5+30 Spot Rock	60	cy. of	1 1/4" Minus	@	\$14.60	per c.y. =	\$876.00
Energy Dissipator/Headwall - culvert	2	cy. of	Riprap LL	@	\$15.82	per c.y. =	\$31.64
Landings	41.0	cy. of	3" Jaw Run	@	\$13.79	per c.y. =	\$565.39
						TOTAL ROCK	\$1,473.03

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance- \$2,730.25	Required Reconstruction - \$0.00	
Required Abandonment- \$0.00	Optional Reconstruction - \$0.00	SUBTOTAL \$2,730.25
Required Construction - \$0.00	Optional Construction - \$0.00	TOTAL \$2,730.25

COST PER STATION \$515.14

SUMMARY OF ROAD

Sale:	Relleskop VRH		Road:	TJ-1	
Required Pre-Haul Maintenance-	5+90 0.11	stations miles	Required Reconstruction -	0.00	stations miles
Required Abandonment-	0.00	stations miles	Optional Reconstruction -	0.00	stations miles
			Required Construction -	0.00	stations miles
			Optional Construction -	0.00	stations miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

Grade and shape existing road surface -	5.90	stations @	\$15.65	per station	\$92.34
Roll shaped road surface w/ vibratory roller prior to rocking -	5.90	stations @	\$9.10	per station	\$53.69

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$146.03**

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>						
0	LF of 18"	\$0.00		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$0.00				\$0.00
<u>Half Rounds</u>						
0	LF of 24"	\$0.00		0	LF of 30"	\$0.00
0	LF of 36"	\$0.00		0	LF of 42"	\$0.00
		\$0.00				\$0.00
<u>Culvert Stakes & Markers</u>						
0	stakes	\$0.00				
0	markers	\$0.00				
		\$0.00				
				TOTAL CULVERTS		\$0.00

ROCK

0+00	to	5+90	134	cy. of	1 1/4" Minus	@	\$14.30	per c.y.=	\$1,916.20	
									TOTAL ROCK	\$1,916.20

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance-	\$2,062.23	Required Reconstruction -	\$0.00			
Required Abandonment-	\$0.00	Optional Reconstruction -	\$0.00			SUBTOTAL
Required Construction -	\$0.00	Optional Construction -	\$0.00			\$2,062.23

TOTAL \$2,062.23

COST PER STATION \$349.53

SUMMARY OF ROAD

Sale:	Relleskop VRH		Road: BG-2000C
Required Pre-Haul Maintenance-	0.00	stations miles	Required Reconstruction -
	1+00	stations miles	0.00
	0.02	stations miles	0.00
			Optional Reconstruction -
	1+00	stations miles	1+00
	0.02	stations miles	0.02
			Optional Construction -

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

ENDHAUL

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

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris	0.090	acres @	\$918.00	per acre	\$82.62
Remove large stumps -	1.00	@	\$90.00	each	\$90.00

EXCAVATION

Road Construction Earthwork	1.00	sta. @	\$90.67	per sta. =	\$90.67
Grade and shape subgrade -	1.00	stations @	\$15.65	per station	\$15.65

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	1.00	stations @	\$11.40	per station	\$11.40
Construct landing -	1.00	@	\$142.50	each	\$142.50
Grass seed -	1.70	lbs @	\$3.00	per lbs	\$5.10

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$437.94**

CULVERTS - MATERIALS & INSTALLATION

Culverts

0	LF of 18"	\$0.00		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$0.00				\$0.00

Half Rounds

0	LF of 24"	\$0.00		0	LF of 30"	\$0.00
0	LF of 36"	\$0.00		0	LF of 42"	\$0.00
		\$0.00				\$0.00

Culvert Stakes & Markers

0	stakes	\$0.00	
0	markers	\$0.00	
		\$0.00	

TOTAL CULVERTS **\$0.00**

ROCK

0+00	to	1+00	99	cy. of	3" Jaw Run	@	\$12.75	per c.y. =	\$1,262.25
									TOTAL ROCK \$1,262.25

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

Construct waterbar -	1.00	@	\$78.00	each	\$78.00
Construct Earthen Barricade -	1.00	@	\$150.00	each	\$150.00
Rip Roadway -	1.00	sta. @	\$26.60	per station	\$26.60
Grass seed	2.80	lbs @	\$3.00	per lbs	\$8.40
Scatter woody debris -	0.10	hr @	\$133.00	per hr	\$13.30

TOTAL ABANDONMENT **\$276.30**

Required Pre-Haul Maintenance-	\$0.00	Required Reconstruction -	\$0.00		
				SUBTOTAL	\$1,976.49
Required Abandonment-	\$276.30	Optional Reconstruction -	\$0.00		
Required Construction -	\$0.00	Optional Construction -	\$1,700.19		
TOTAL					\$1,976.49
COST PER STATION					\$1,976.49

SUMMARY OF ROAD

Sale: <u>Relleskop VRH</u>		Road: <u>BG-2000D</u>
Required Pre-Haul Maintenance - 0.00 stations miles	Required Reconstruction - 0.00 stations miles	Required Construction - 0+00 stations miles 0.00 miles
Required Abandonment - 1+84 stations miles 0.03 miles	Optional Reconstruction - 0.00 stations miles	Optional Construction - 1+84 stations miles 0.03 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

ENDHAUL

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

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris	0.170	acres @	\$918.00	per acre	\$156.06
Remove large stumps -	2.00	@	\$90.00	each	\$180.00

EXCAVATION

Road Construction Earthwork	1.84	sta. @	\$118.26	per sta. =	\$217.60
Grade and shape subgrade -	1.84	stations @	\$15.65	per station	\$28.80

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	1.84	stations @	\$11.40	per station	\$20.98
Construct landing -	1.00	@	\$142.50	each	\$142.50
Grass seed -	2.50	lbs @	\$3.00	per lbs	\$7.50

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$753.44**

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>					
40	LF of 18"	\$655.90	0	LF of 24"	\$0.00
0	LF of 30"	\$0.00	0	LF of 36"	\$0.00
0	LF of 42"	\$0.00	0	LF of 48"	\$0.00
0	LF of 54"	\$0.00	0	LF of 60"	\$0.00
0	LF of 66"	\$0.00	0	LF of 72"	\$0.00
		\$655.90			\$0.00
<u>Half Rounds</u>					
0	LF of 24"	\$0.00	0	LF of 30"	\$0.00
0	LF of 36"	\$0.00	0	LF of 42"	\$0.00
		\$0.00			\$0.00
<u>Culvert Stakes & Markers</u>					
0	stakes	\$0.00			
0	markers	\$0.00			
		\$0.00			
TOTAL CULVERTS					\$655.90

ROCK

Energy Dissipator/Headwall - culverts	1.0	cy. of	Riprap LL	@	\$13.79	per c.y. =	\$13.79
0+00 to 1+84	141	cy. of	3" Jaw Run	@	\$12.64	per c.y. =	\$1,782.24
TOTAL ROCK							\$1,796.03

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

Construct waterbar -	1.00	@	\$78.00	each	\$78.00
Construct Earthen Barricade -	1.00	@	\$150.00	each	\$150.00
Rip roadway -	1.84	stations @	\$26.60	per station	\$48.94
Grass seed -	4.80	lbs @	\$3.00	per lbs	\$14.40
Remove culverts from state lands -	1.00	@	\$75.00	each	\$75.00
Scatter woody debris -	0.18	hr @	\$133.00	per hr	\$23.94
TOTAL ABANDONMENT					\$390.28

Required Pre-Haul Maintenance -	\$0.00	Required Reconstruction -	\$0.00		
Required Abandonment -	\$390.28	Optional Reconstruction -	\$0.00	SUBTOTAL	\$3,595.65
Required Construction -	\$0.00	Optional Construction -	\$3,205.37	TOTAL	\$3,595.65

COST PER STATION \$1,954.16

SUMMARY OF ROAD

Sale: <u>Relleskop VRH</u>		Road: <u>BG-2020Z</u>
Required Pre-Haul Maintenance - 0.00 stations miles	Required Reconstruction - 0.00 stations miles	Required Construction - 0.00 stations miles
Required Abandonment - 12+95 stations 0.25 miles	Optional Reconstruction - 0.00 stations miles	Optional Construction - 12+95 stations 0.25 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

ENDHAUL

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

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

Scatter Organic Debris	1.190	acres @	\$918.00	per acre	\$1,092.42
Remove large stumps -	6.00	@	\$90.00	each	\$540.00

EXCAVATION

Road Construction Earthwork	12.95	sta. @	\$118.26	per sta. =	\$1,531.47
Construct ditchouts -	1.00	@	\$73.00	each	\$73.00
Grade and shape subgrade -	12.95	stations @	\$15.65	per station	\$202.67

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	12.95	stations @	\$11.40	per station	\$147.63
Construct turnouts @ sta. -	1.00	@	\$73.00	each	\$73.00
Construct landing -	3.00	@	\$142.50	each	\$427.50
Grass seed -	14.70	lbs @	\$3.00	per lbs	\$44.10

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$4,131.79**

CULVERTS - MATERIALS & INSTALLATION

Culverts

60	LF of 18"	\$988.20		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$988.20				\$0.00

Half Rounds

0	LF of 24"	\$0.00		0	LF of 30"	\$0.00
0	LF of 36"	\$0.00		0	LF of 42"	\$0.00
		\$0.00				\$0.00

Culvert Stakes & Markers

0	stakes	\$0.00				
0	markers	\$0.00				
		\$0.00				\$0.00

TOTAL CULVERTS **\$988.20**

ROCK

Energy Dissipator/Headwall - culverts	2	cy. of	Riprap	@	\$13.20	per c.y. =	\$26.40
0+00 to 12+95	795	cy. of	3" Jaw Run	@	\$12.24	per c.y. =	\$9,730.80
						TOTAL ROCK	\$9,757.20

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

Construct waterbar -	6.00	@	\$78.00	each	\$468.00
Construct Earthen Barricade -	1.00	@	\$150.00	each	\$150.00
Rip roadway -	12.95	stations @	\$26.60	per station	\$344.47
Grass seed -	34.40	lbs @	\$3.00	per lbs	\$103.20
Remove culverts from state lands -	2.00	@	\$75.00	each	\$150.00
Scatter woody debris -	1.30	hr @	\$133.00	per hr	\$172.90
					TOTAL ABANDONMENT

\$1,388.57

Required Pre-Haul Maintenance -	\$0.00	Required Reconstruction -	\$0.00	
Required Abandonment -	\$1,388.57	Optional Reconstruction -	\$0.00	SUBTOTAL
Required Construction -	\$0.00	Optional Construction -	\$14,877.19	\$16,265.76

TOTAL \$16,265.76

COST PER STATION \$1,256.04

SUMMARY OF ROAD

Sale: Relleskop VRH Road: BG-2020C2A

Required Pre-Haul Maintenance- 0.00 stations miles	Required Reconstruction - 0.00 stations miles	Required Construction - 0.00 stations miles
Required Abandonment- 4+24 stations 0.08 miles	Optional Reconstruction - 0.00 stations miles	Optional Construction - 4+24 stations 0.08 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

ENDHAUL

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

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

Scatter Organic Debris	0.390	acres @	\$918.00	per acre	\$358.02
Remove large stumps -	3.00	@	\$90.00	each	\$270.00

EXCAVATION

Road Construction Earthwork	4.24	sta. @	\$151.11	per sta. =	\$640.71
Grade and shape subgrade -	4.24	stations @	\$15.65	per station	\$66.36

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	4.24	stations @	\$11.40	per station	\$48.34
Construct landings -	1.00	@	\$142.50	each	\$142.50
Grass seed -	4.90	lbs @	\$3.00	per lbs	\$14.70

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$1,540.63**

CULVERTS - MATERIALS & INSTALLATION

Culverts

40	LF of 18"	\$655.90	0	LF of 24"	\$0.00
0	LF of 30"	\$0.00	0	LF of 36"	\$0.00
0	LF of 42"	\$0.00	0	LF of 48"	\$0.00
0	LF of 54"	\$0.00	0	LF of 60"	\$0.00
0	LF of 66"	\$0.00	0	LF of 72"	\$0.00
		\$655.90			\$0.00

Half Rounds

0	LF of 24"	\$0.00	0	LF of 30"	\$0.00
0	LF of 36"	\$0.00	0	LF of 42"	\$0.00
		\$0.00			\$0.00

Culvert Stakes & Markers

0	stakes	\$0.00			
0	markers	\$0.00			
		\$0.00	TOTAL CULVERTS		

\$655.90

ROCK

Energy Dissipator - culvert	1.0	cy. of	Riprap LL	@	\$15.25	per c.y.=	\$15.25
0+00 to 4+24	258	cy. of	3" Jaw Run	@	\$13.96	per c.y.=	\$3,601.68
							TOTAL ROCK

\$3,616.93

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

Construct waterbar -	2.00	@	\$78.00	each	\$156.00
Construct Earthen Barricade -	1.00	@	\$150.00	each	\$150.00
Rip roadway -	4.24	stations @	\$26.60	per station	\$112.78
Grass seed -	11.20	lbs @	\$3.00	per lbs	\$33.60
Remove culvert from state lands -	1.00	@	\$75.00	each	\$75.00
Scatter woody debris -	0.42	hr @	\$133.00	per hr	\$55.86
					TOTAL ABANDONMENT

\$583.24

Required Pre-Haul Maintenance- \$0.00	Required Reconstruction - \$0.00	
Required Abandonment- \$583.24	Optional Reconstruction - \$0.00	SUBTOTAL \$6,396.70
Required Construction - \$0.00	Optional Construction - \$5,813.46	

TOTAL \$6,396.70

COST PER STATION \$1,508.66

SUMMARY OF ROAD

Sale: <u>Relleskop VRH</u>	Road: <u>BG-2020C3</u>
Required Pre-Haul Maintenance - 0.00 stations miles	Required Reconstruction - 0.00 stations miles
Required Abandonment- 2+71 stations miles 0.05 miles	Optional Reconstruction - 0.00 stations miles
	Optional Construction - 2+71 stations miles 0.05 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

ENDHAUL

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

RECONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CONSTRUCTION

CLEARING/GRUBBING

Scatter Organic Debris	0.250	acres @	\$918.00	per acre	\$229.50
Remove large stumps -	2.00	@	\$90.00	each	\$180.00

EXCAVATION

Road Construction Earthwork	2.71	sta. @	\$90.67	per sta. =	\$245.72
Construct ditchouts -	1.00	@	\$73.00	each	\$73.00
Grade and shape subgrade -	2.71	stations @	\$15.65	per station	\$42.41

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	2.71	stations @	\$11.40	per station	\$30.89
Construct landings -	1.00	@	\$142.50	each	\$142.50
Grass seed -	3.30	lbs @	\$3.00	per lbs	\$9.90

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$953.92**

CULVERTS - MATERIALS & INSTALLATION

Culverts

30	LF of 18"	\$494.10		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$494.10				\$0.00

Half Rounds

0	LF of 24"	\$0.00		0	LF of 30"	\$0.00
0	LF of 36"	\$0.00		0	LF of 42"	\$0.00
		\$0.00				\$0.00

Culvert Stakes & Markers

0	stakes	\$0.00				
0	markers	\$0.00				
		\$0.00				\$0.00

TOTAL CULVERTS **\$494.10**

ROCK

Energy Dissipator - culvert		1.0	cy. of	Riprap LL	@	\$15.13	per c.y.=	\$15.13
0+00 to	2+71	182	cy. of	3" Jaw Run	@	\$13.82	per c.y.=	\$2,515.24
								TOTAL ROCK

\$2,530.37

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

Construct waterbar -		1.00	@	\$78.00	each	\$78.00
Construct Earthen Barricade -		1.00	@	\$150.00	each	\$150.00
Rip roadway -		2.71	stations @	\$26.60	per station	\$72.09
Grass seed -		7.20	lbs @	\$3.00	per lbs	\$21.60
Remove culvert from state lands -		1.00	@	\$75.00	each	\$75.00
Scatter woody debris -		0.27	hr @	\$133.00	per hr	\$35.91

TOTAL ABANDONMENT **\$432.60**

Required Pre-Haul Maintenance-	\$0.00	Required Reconstruction -	\$0.00		
Required Abandonment-	\$432.60	Optional Reconstruction -	\$0.00	SUBTOTAL	\$4,410.99
Required Construction -	\$0.00	Optional Construction -	\$3,978.39	TOTAL	\$4,410.99

COST PER STATION \$1,627.67

SUMMARY OF ROAD

Sale: <u>Relleskop VRH</u>		Road: <u>Spur A</u>
Required Pre-Haul Maintenance - 0.00 stations miles Required Abandonment - 2+02 stations miles 0.04 miles	Required Reconstruction - 0.00 stations miles Optional Reconstruction - 2+02 stations miles 0.04 miles	Required Construction - 0.00 stations miles Optional Construction - 0+00 stations miles 0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

MISC.

ENDHAUL

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

RECONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris	0.050	acres @	\$918.00	per acre	\$45.90
Remove large stumps -	2.00	@	\$90.00	each	\$180.00

EXCAVATION

Reconstruct and Widen Road Prism/with ditchline	2.02	stations @	\$105.78	per station	\$213.68
Grade and shape subgrade -	2.02	stations @	\$15.65	per station	\$31.61

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	2.02	stations @	\$11.40	per station	\$23.03
Reconstruct landing -	1.00	@	\$142.50	each	\$142.50
Grass seed -	2.90	lbs @	\$3.00	per lbs	\$8.70

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$645.42**

CONSTRUCTION

CLEARING/GRUBBING

EXCAVATION

FILL

MISC.

ENDHAUL

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

CULVERTS - MATERIALS & INSTALLATION

Culverts

0	LF of 18"	\$0.00		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		<u>\$0.00</u>				<u>\$0.00</u>

Half Rounds

0	LF of 24"	\$0.00		0	LF of 30"	\$0.00
0	LF of 36"	\$0.00		0	LF of 42"	\$0.00
		<u>\$0.00</u>				<u>\$0.00</u>

Culvert Stakes & Markers

0	stakes	\$0.00	
0	markers	\$0.00	
		<u>\$0.00</u>	

TOTAL CULVERTS **\$0.00**

ROCK

0+00	to	2+02	138	cy. of	3" Jaw Run	@	\$13.75	per c.y.=	<u>\$1,897.50</u>
									\$1,897.50

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

Construct waterbar -	1.00	@	\$78.00	each	\$78.00
Construct Earthen Barricade -	1.00	@	\$150.00	each	\$150.00
Rip roadway -	2.02	stations @	\$26.60	per station	\$53.73
Grass seed -	5.20	lbs @	\$3.00	per lbs	\$15.60
Scatter woody debris -	0.20	hr @	\$133.00	per hr	\$26.60

TOTAL ADDITIONAL REQUIREMENTS **\$323.93**

Required Pre-Haul Maintenance - \$0.00	Required Reconstruction - \$0.00	
Required Abandonment - \$323.93	Optional Reconstruction - \$2,542.92	SUBTOTAL \$2,866.85
Required Construction - \$0.00	Optional Construction - \$0.00	
		TOTAL \$2,866.85
		COST PER STATION \$1,419.23

ROCK DEVELOPMENT COST SUMMARY

Pit: <u>BG-2020</u>	Location: <u>NE¼ NW¼ Sec. 26, T04N, R03E, W.M.</u>		
Sale: <u>Relleskop VRH</u>	Road: <u>5422 c.y.</u>		
Swell: <u>1.30</u>	Stockpile: <u>2025 c.y.</u>		
Shrinkage: <u>0.00</u>	Total Truck Loads: <u>7447 c.y.</u>		
Drill Pct.: <u>100%</u>	In Place Total: <u>5778 c.y.</u>		

Pit Development & Cleanup including Clearing and grubbing of Waste Area, Endhaul and place overburden

In Waste Area, spread and compact.	\$4.17 /cu.yd x	1329 cu.yds.	\$5,541.93
Drill & Shoot:	\$2.90 /cu.yd x	5778 cu.yds.	\$16,756.20
Rip Rock:	\$2.00 /cu.yd x	0 cu.yds.	\$0.00
Push Rock:	\$1.00 /cu.yd x	7447 cu.yds.	\$7,447.00
Load Crusher:	\$0.60 /cu.yd x	7437 cu.yds.	\$4,462.20
Crush 3" Jaw Run Rock:	\$3.10 /cu.yd x	2169 cu.yds.	\$6,723.90
Crush 1½" Minus Rock:	\$4.60 /cu.yd x	5268 cu.yds.	\$24,232.80
Load Dump Truck:	\$0.60 /cu.yd x	7437 cu.yds.	\$4,462.20
Load Rip Rap	\$2.00 /cu.yd x	10 cu.yds.	\$20.00
	\$0.00 /ton x	0 tons =	\$0.00
	\$0.00 /ton x	0 tons =	\$0.00
	\$0.00 /ton x	0 tons =	\$0.00
	\$0.00 /cu.yd x	0 cu.yds.	\$0.00
		Subtotal	\$69,646.23

Move In/Set-up Mobile Jaw	1	@	\$504.73	=	\$504.73
Move In/Set-up Mobile 2 Stage Crusher	1	@	\$704.73	=	\$704.73
Move In/Set-up 3 Stage Crusher	0	@	\$0.00	=	\$0.00
Move In and set up Drill and Compressor	1	@	\$196.53	=	\$196.53
Move in Roller and Compactor	0	@	\$86.53	=	\$0.00
Move in Grader	0	@	\$100.65	=	\$0.00
Move in D-8	1	@	\$276.73	=	\$276.73
Move in Loader	1	@	\$239.41	=	\$239.41
Move in Excavator	1	@	\$276.73	=	\$276.73
Move in Trucks	5	@	\$38.15	=	\$190.75
Move in Water Truck	0	@	\$0.00	=	\$0.00
				Subtotal	\$2,389.61

TOTAL PRODUCTION COSTS \$72,035.84

Base Cost = \$9.67 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	One-Way Dist (ft)	ROCK COST
BG-2000 1 1/4" Minus	\$2.20	\$1.45	\$9.67	\$13.32	1990	17	4172	\$26,506.80
BG-2000 Landing	\$1.69	\$0.90	\$9.67	\$12.26	41	17	3350	\$502.66
BG-2020 1 1/4" Minus	\$1.70	\$1.45	\$9.67	\$12.82	699	15	1650	\$8,961.18
BG-2020 Landings	\$1.21	\$0.90	\$9.67	\$11.78	82	15	1000	\$965.96
BG-2020C 1 1/4" Minus	\$3.27	\$1.45	\$9.67	\$14.39	360	17	9163	\$5,180.40
BG-2020C Energy Dissipator/Headw	\$3.51	\$1.80	\$9.67	\$14.98	3	15	9050	\$44.94
BG-2020C Landings	\$2.90	\$0.90	\$9.67	\$13.47	164.0	17	8950	\$2,209.08
BG-2020C2 0+00 to 5+30 Spot Rc	\$3.48	\$1.45	\$9.67	\$14.60	60	17	10120	\$876.00
BG-2020C2 Energy Dissipator/Head	\$3.75	\$2.40	\$9.67	\$15.82	2	15	10020	\$31.64
BG-2020C2 Landings	\$3.22	\$0.90	\$9.67	\$13.79	41.0	17	10400	\$565.39
TJ-1 1 1/4" Minus	\$3.18	\$1.45	\$9.67	\$14.30	134	17	8713	\$1,916.20
TJ-2 3" Jaw Run	\$3.12	\$0.90	\$9.67	\$13.69	228	17	9199	\$3,121.32
BG-2000C 3" Jaw Run	\$2.18	\$0.90	\$9.67	\$12.75	99	17	4830	\$1,262.25
BG-2000D Energy Dissipator/Headw	\$2.32	\$1.80	\$9.67	\$13.79	1.0	15	4190	\$13.79
BG-2000D 3" Jaw Run	\$2.07	\$0.90	\$9.67	\$12.64	141	17	4328	\$1,782.24
BG-2020Z Energy Dissipator/Headw	\$1.73	\$1.80	\$9.67	\$13.20	2	10	1190	\$26.40
BG-2020Z 3" Jaw Run	\$1.67	\$0.90	\$9.67	\$12.24	795	12	1761	\$9,730.80
BG-2020C2A Energy Dissipator - cu	\$3.78	\$1.80	\$9.67	\$15.25	1.0	15	10150	\$15.25
BG-2020C2A 3" Jaw Run	\$3.39	\$0.90	\$9.67	\$13.96	258	17	10468	\$3,601.68
BG-2020C3 Energy Dissipator - culv	\$3.66	\$1.80	\$9.67	\$15.13	1.0	15	9667	\$15.13
BG-2020C3 3" Jaw Run	\$3.25	\$0.90	\$9.67	\$13.82	182	17	9823	\$2,515.24
Spur A	\$3.18	\$0.90	\$9.67	\$13.75	138	17	9464	\$1,897.50
Stock Pile - 1 1/4" Minus	\$1.89	\$0.20	\$9.67	\$11.76	2025	17	4255	\$23,814.00
				Total C.Y.	7447.0		Sub Total	\$95,555.85

TOTAL ROCKING COSTS \$95,555.85

Road Building Move-In Calculations

Sale: Relleskop VRH

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
0.0	Highway	45
10.6	County/ Mainline	30
0.4	Steep Grades	10

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area			Within		
				Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Area Cost	Total Cost
0	Brush Cutter	\$120.60		\$11.00	0.00	0.00	0	\$0.00	\$0.00
1	Graders	\$239.41		\$13.75	0.00	0.00	8	\$110.00	\$349.41
0	Loader (Small)	\$120.60		\$9.00	0.00	0.00	0	\$0.00	\$0.00
0	Loader (Med. & Large)	\$239.41		\$11.00	0.00	0.00	0	\$0.00	\$0.00
1	Rollers & Compactors	\$196.53		\$16.43	0.00	0.00	8	\$131.44	\$327.97
0	Drill & Compressor	\$120.60		\$22.00	0.00	0.00	0	\$0.00	\$0.00
*	1 Excavators (Small)	\$196.53		\$34.40	0.00	0.00	4	\$137.60	\$334.13
1	Excavators (Large)	\$278.73	2	\$46.00	0.00	0.00	4	\$184.00	\$480.40
0	Tired Backhoes/Skidlers	\$239.41		\$9.25	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D6)	\$239.41		\$21.43	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D7)	\$239.41		\$30.00	0.00	0.00	0	\$0.00	\$0.00
1	Tractor (D8)	\$278.73	2	\$38.86	0.00	0.00	4	\$155.44	\$451.84
3	Dump Truck (10 cy +)	\$38.15		\$6.47	0.00	0.00	4	\$77.64	\$347.37
0	Dump Truck (Off Hiway)	\$206.32		\$9.00	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$39.33		\$8.33	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$41.30		\$8.75	0.00	0.00	0	\$0.00	\$0.00

* includes abandonment move in

	TOTAL MOVE-IN COSTS: \$2,291.12
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WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: Pacific Cascade

Timber Sale Name: RELLESKOP VRH

Application Number: 30- 099726

EXCISE TAX APPLICABLE ACTIVITIES

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

Reconstruction: 452 linear feet
Road to be reconstructed (optional and required) but not abandoned

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

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

Pre-Haul Maintenance: 11,125 linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: 2,274 linear feet
Roads to be constructed (optional and required) and then abandoned

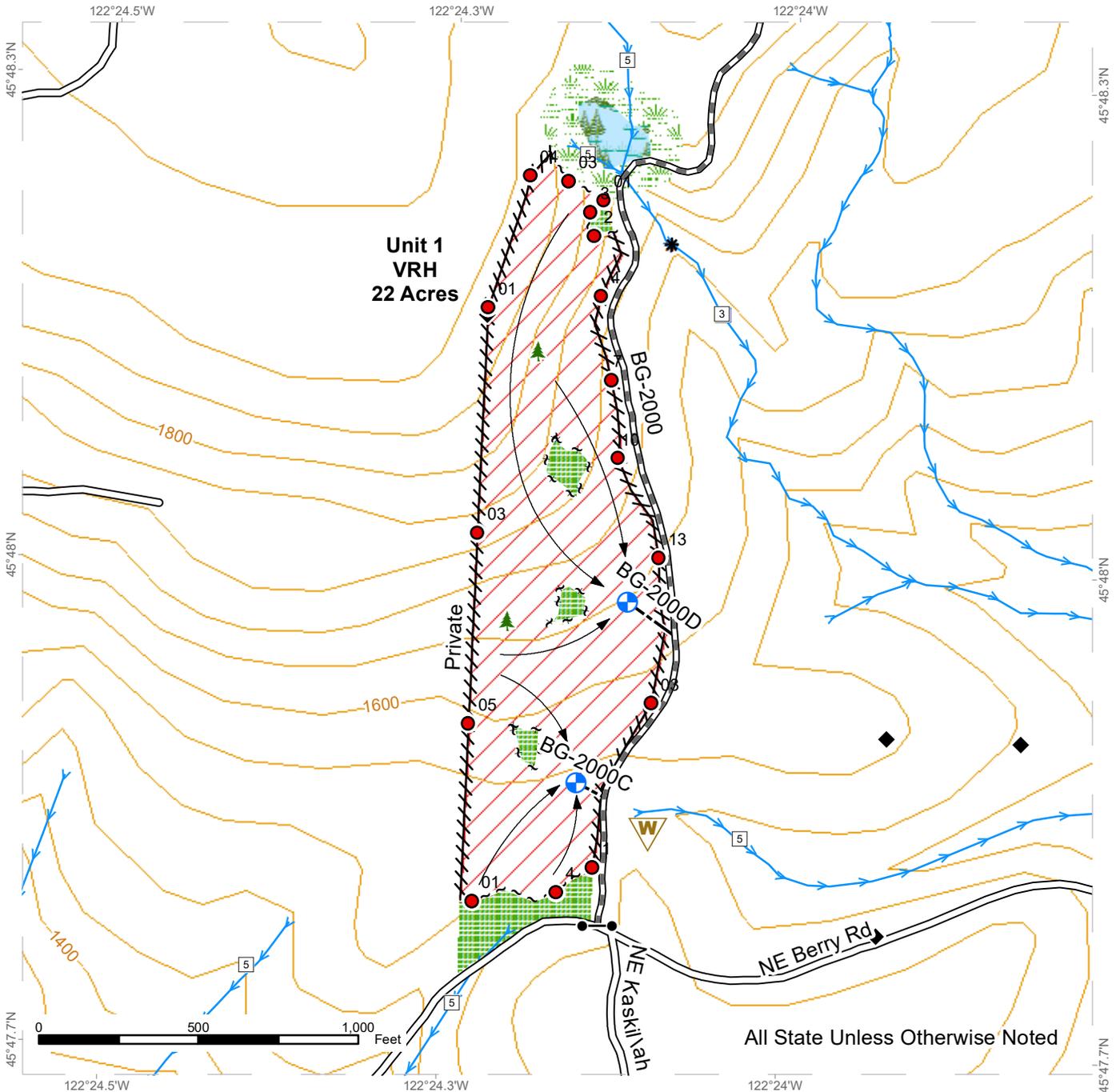
202 linear feet
Temporary Reconstruction:
Roads to be reconstructed (optional and required) and then abandoned

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

LOGGING PLAN MAP

SALE NAME: RELLESKOP VRH
AGREEMENT#: None
TOWNSHIP(S): T4R3E, T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 826-1871



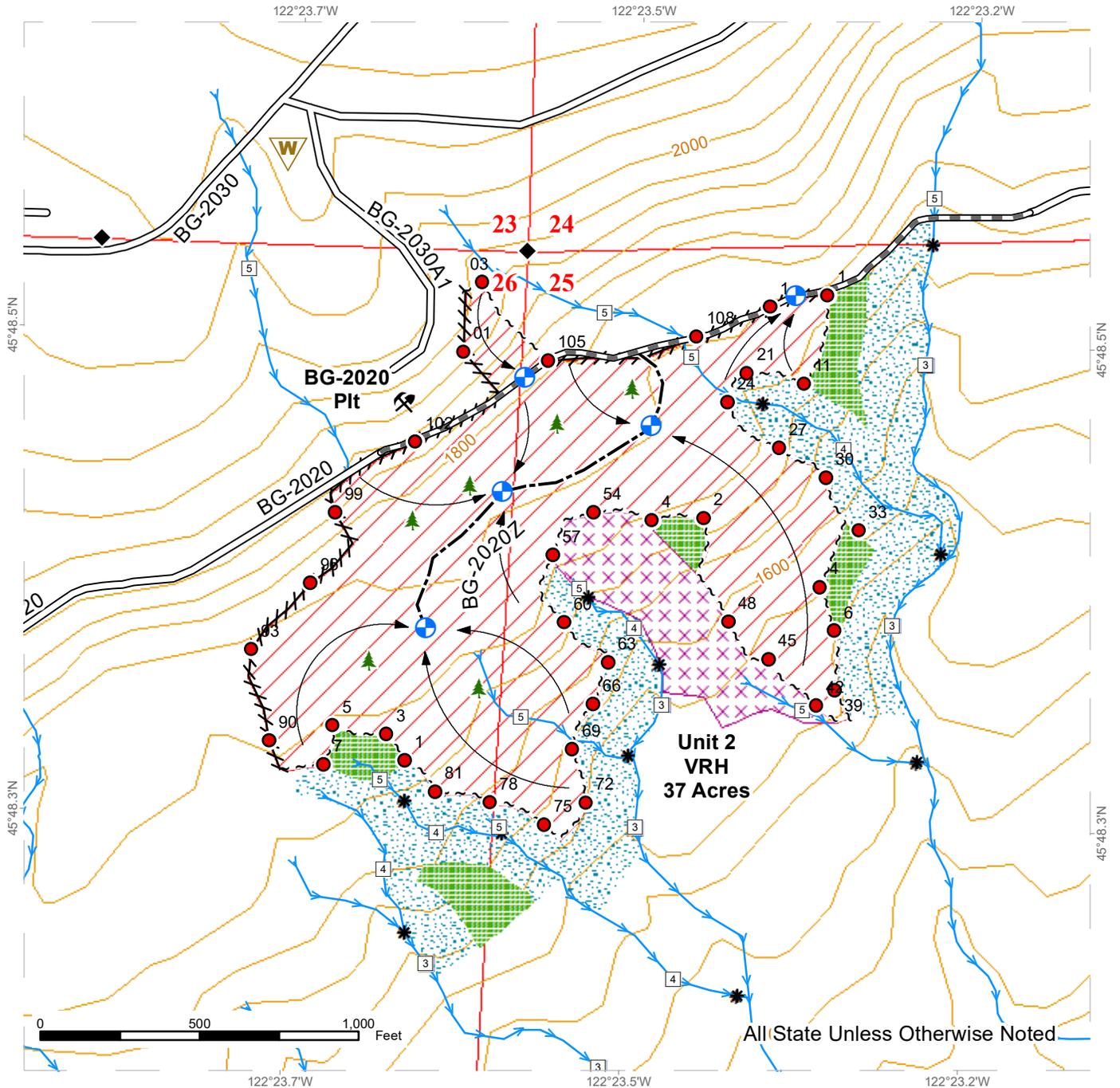
All State Unless Otherwise Noted

Sale Area	Sale Boundary Tags	Streams
Ground Harvest	Leave Tree Tags	Stream Type
Leave Tree Area	Flag Line	Stream Type Break
Forested Wetland	Existing Roads	Survey Monument
Wetland Mgt Zone	Required Pre-Haul Maintenance	Gate (PCP 1-1)
	Optional Construction	Landing - Proposed
		Leave Tree Area
		Waste Area

LOGGING PLAN MAP

SALE NAME: RELLESKOP VRH
AGREEMENT#: None
TOWNSHIP(S): T4R3E, T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 826-1871



All State Unless Otherwise Noted

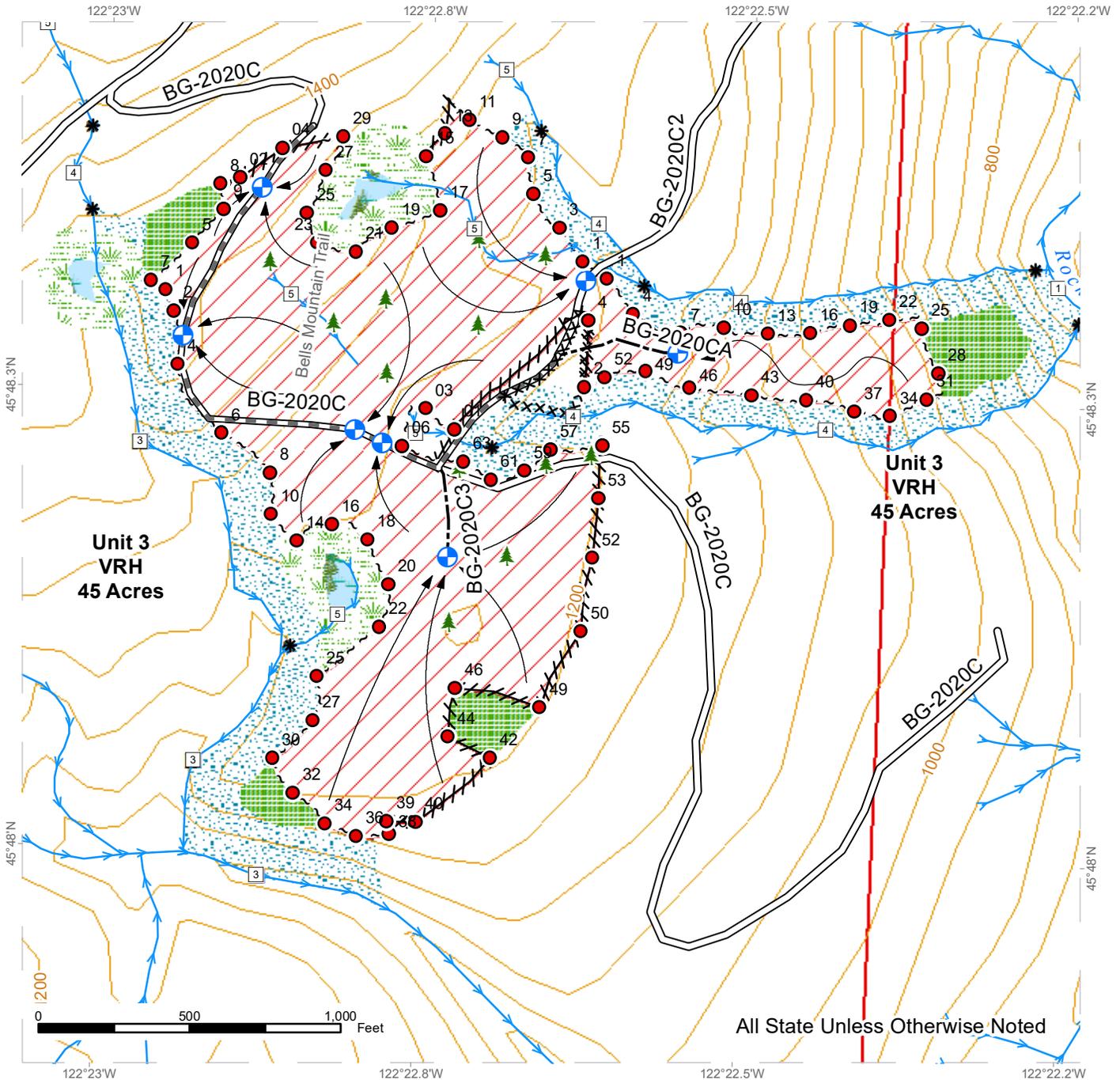
Sale Area	Sale Boundary Tags	Streams
Ground Harvest	Flag Line	Stream Type
Leave Tree Area	Existing Roads	Stream Type Break
Riparian Mgt Zone	Required Pre-Haul Maintenance	Survey Monument
Potentially Unstable Slopes	Optional Construction	Landing - Proposed
		Leave Tree Area
		Rock Pit
		Waste Area



LOGGING PLAN MAP

SALE NAME: RELLESKOP VRH
AGREEMENT#: None
TOWNSHIP(S): T4R3E, T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 826-1871



All State Unless Otherwise Noted

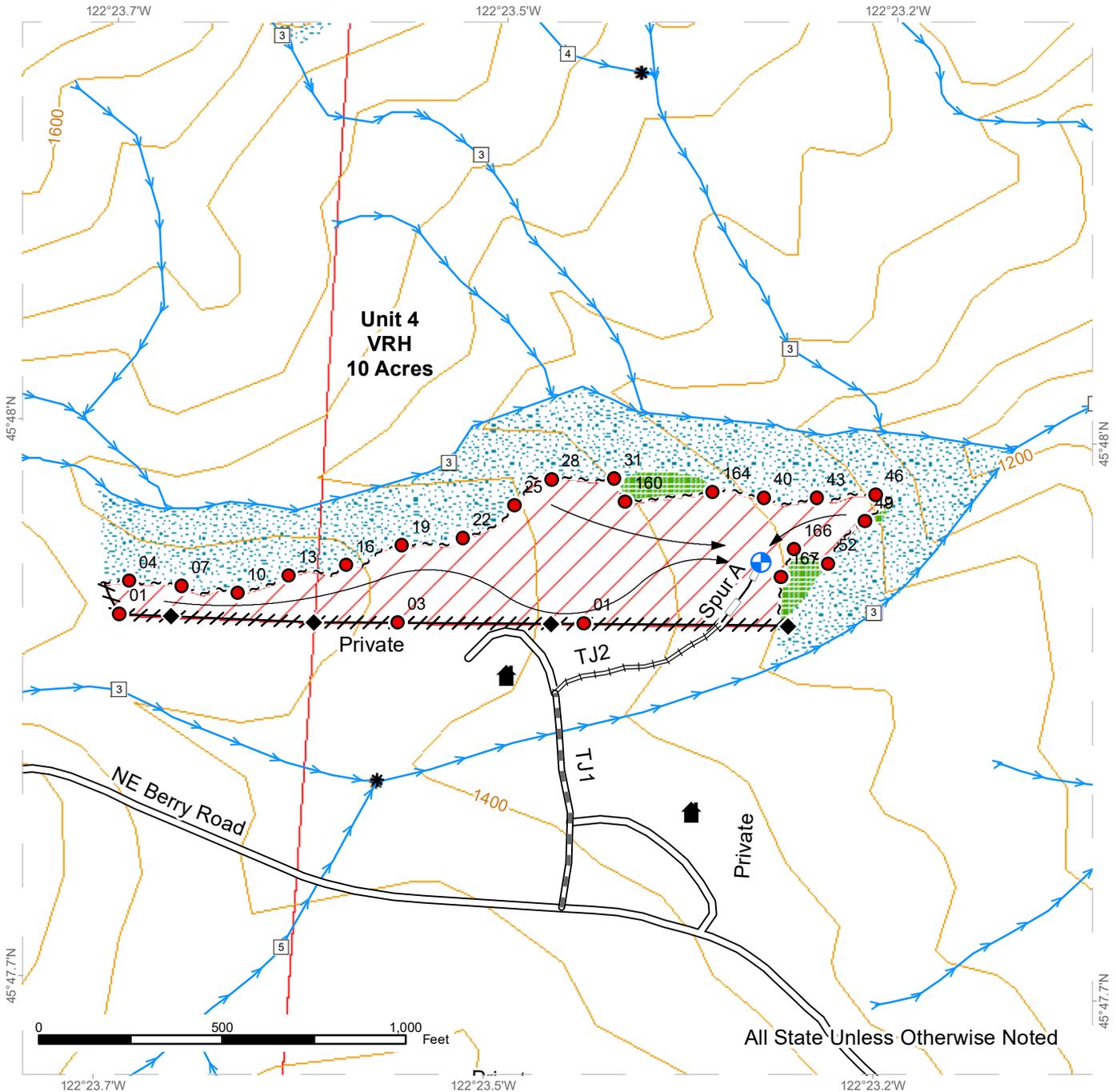
	Sale Area		Sale Boundary Tags		Streams
	Ground Harvest		Flag Line		Stream Type
	Leave Tree Area		Existing Roads		Stream Type Break
	Riparian Mgt Zone		Required Pre-Haul Maintenance		Waste Area
	Forested Wetland		Optional Construction		Landing - Proposed
	Wetland Mgt Zone				Leave Tree Area



LOGGING PLAN MAP

SALE NAME: RELLESKOP VRH
AGREEMENT#: None
TOWNSHIP(S): T4R3E, T4R4E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Pacific Cascade Region
COUNTY(S): Clark
ELEVATION RGE: 826-1871



All State Unless Otherwise Noted

Sale Area	Sale Boundary Tags	Streams
Ground Harvest	Flag Line	Stream Type
Leave Tree Area	Existing Roads	Stream Type Break
Riparian Mgt Zone	Required Pre-Haul Maintenance	Survey Monument
	Required Reconstruction	Landing - Proposed
	Optional Reconstruction	Structure



Permit No.
DNR # 55-099987

ROAD USE PERMIT

Permit No. 55-099987

THIS PERMIT, made and entered into the 15th day of October 2019, by and between the State of Washington, acting by and through the Department of Natural Resources (herein called the "Grantee") and Thor C. Johnson (herein called the "Grantor").

Conveyance. Grantor, for and in consideration of the terms and conditions specified herein, hereby grants and conveys to the Grantee, for the purpose of hauling up to 320 MBF of timber. A non-exclusive permit to use a road over and across a strip of land, hereinafter defined as the "premises," in Section 25, Township 04 North, Range 03 East, W.M. in Clark County, State of Washington. The location of said premises located approximately as shown on Exhibit B attached hereto. The word premises when used herein means a strip of land whether or not there is an existing road located thereon. The word "road" shall mean roads now existing or hereafter constructed on the premises, or any segment of such road.

The permit is subject to the terms and conditions hereinafter set out.

Consideration. The consideration paid by the Grantee to Grantor is as follows: One thousand and 00/100 dollars (\$1,000.00). The consideration is not due until thirty days after the Grantee enters into a timber sale contract for the Relleskop Timber Sale. Prior to payment, Grantee shall be limited to administrative use of the road. No commercial hauling will occur until the consideration is paid in full. Consideration is for use of existing 0.2 miles of road and log hauling of ~~320~~ MBF, and forest management access (i.e. administrative access, silvicultural activities, etc.).

Term-Date of Expiration: The term of this permit shall being February 27th, 2020 and expire on May 30th, 2025 or earlier when requested by the Grantee; provided, however, that this permit may be suspended or terminated upon the breach of any of the conditions herein.

Reservations. Grantor reserves all rights incident to fee ownership of the premises and the profits thereon (including timber) and the right of use for any purpose including but not limited to the right to remove profits within the premises; the right at all times to cross and re-cross the premises at any place on grade or otherwise; and the right to use, maintain, patrol, reconstruct or repair the premises. Grantor may grant to third parties any and all rights reserved.

Compliance with Laws. For all activities conducted pursuant to this Permit, each party shall, at its own expense, comply with all applicable laws in effect now and as hereafter modified.

Permittees. The Grantee may permit its respective employees, agents, contractors, licensees, lessees, purchasers of timber or other profits and their agents, herein individually referred to as "Permittee" and collectively referred to as "Permittees", to exercise the rights granted to the Grantee herein. Acts or omissions of the Permittees operating under this Permit shall be deemed an act of the Grantee. Restrictions or requirements placed on the Grantee herein shall apply equally to the Permittees.

Maintenance. Maintenance is defined as work normally necessary to preserve and keep the roads in their present condition or as hereafter improved. At a minimum, the roads will be maintained to meet applicable forest practice standards set forth in Chapter 222-24 WAC as now written or hereafter amended.

When a road is being used solely by one party; that party shall be solely responsible for maintaining that portion of the road so used to the standards existing at the time sole use is commenced. During periods when either party and/or other parties with an easement or license jointly use the road(s), or any portion thereof, the cost of maintenance and resurfacing shall be allocated among such users on the basis of their respective use including that of their Permittees.

During periods of joint maintenance, the users shall meet at times to be set by mutual agreement and establish necessary maintenance provisions. Such provisions shall include, but not be limited to the following:

The appointment of a maintainer, which may be one of the parties or any third party, to perform or contract the maintenance;

The extent of resurfacing necessary to keep the road safe and to reduce environmental impacts; and a method of payment by which each party using the road or a portion thereof shall pay it's pro rata share of the cost of maintenance and resurfacing.

Repairs. Grantee shall repair, or cause to be repaired at its sole cost, that damage to the Road arising out of it's use which is in excess of that which it would cause through normal and prudent usage. Damage caused by an unauthorized user shall be repaired at the expense of the Grantee if the Grantee is the sole user of the road, the Grantor if the Grantor is the sole user of the road and shared jointly if there is joint use of the road.

Improvements. Unless the parties agree in writing to share the cost of improvements in advance of such improvements being made, such improvements shall be solely for the account of the improver.

Prior rights. This permit is subject to any rights and valid claims previously conveyed by Grantor, and to any rights and valid claims pending on said premises. Grantee rights herein are subject to all matters of public record and to all prior unrecorded or recorded easements, permits, leases and options affecting said lands or Grantee rights across, over or upon such lands. Grantee rights herein are also subject to the rights of the Grantor to use its own lands for any and all legal purposes including the use of the land by third parties with the permission of the Grantor.

Operational Restrictions. Site-specific operational requirements are listed in Exhibit C. Non-compliance with these requirements shall constitute a breach of contract and may result in the Grantor suspending operations until the breach is remedied.

Damage. Grantee shall take all reasonable precautions to protect Grantor-owned timber, crops and improvements. The Grantee must notify the Grantor two (2) weeks in advance of completion of said operations for the purpose of inspection for compliance with the terms hereof. Grantee shall pay Grantor for any damage to timber, crops and improvements not identified and paid for under the terms and conditions of this Permit. Grantor shall appraise the damage at market value at the time of damage and bill Grantee for said damages at said value.

Waste. Grantee shall not cause nor permit any filling activity to occur in or on the premises, except by prior written approval of the Grantor. Grantee shall not deposit refuse, garbage, or other waste matter or use, store, generate, process, transport, handle, release, or dispose of any hazardous substance, or other pollutants in or on the premises except in accordance with all applicable laws. The term hazardous substance means any substance or material as those terms are now or are hereafter defined or regulated under any federal, state, or local law including but not limited to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA 42 USC 9601 *et seq.*), or the Washington Model Toxic Control Act (MTCA RCW 70.105D.010.). Grantee shall immediately notify the Grantor if the Grantee becomes aware of any release or threatened release of hazardous substance on the premises or adjoining property. If a release of hazardous substance occurs in, on, under, or above the premises arising out of any action of the Grantee, its contractors, subcontractors, invitees, agents, employees, licensees, or permittees, the Grantee shall, at its sole expense, promptly take all actions necessary or advisable to clean up, contain, and remove the hazardous substance in accordance with applicable laws.

Survey Markers. Grantee shall not destroy any land survey monuments marking local control points, geodetic control points, and land boundary survey corners without prior written approval from the landowner, which shall not be unreasonably withheld. Land survey monuments that must necessarily be disturbed or destroyed during construction or maintenance activities must be adequately referenced and replaced, at the Grantee's expense, under the direction of a Professional Land Surveyor, licensed in the State of Washington, in accordance with all

applicable laws of the State of Washington in force at the time of construction, including but not limited to RCW 58.24, and all Department of Natural Resources regulations pertaining to preservation of such monuments. As directed under Chapter 332-120 WAC, a Land Surveyor or Engineer must submit an application with the Department of Natural Resources for permission to temporarily remove or destroy a survey monument.

Fire Prevention and Control. The Grantee shall be responsible for satisfying the requirements of the laws of the State of Washington pertaining to Forest Protection and, in addition thereto, the Grantee shall during the closed season of April 15 through October 15 contact Grantor who shall determine any extra requirements pertaining to burning procedure, blasting, watchman, extra patrol, pumpers, tankers, fire hoses, fire tools, etc., which are deemed necessary for prevention and suppression of fire which may result from the Grantee's operations.

Insurance. The State of Washington, including all its agencies and departments, is self-insured for all exposures to tort liability, general liability, property damage liability and vehicle liability, as provided in statute, but only as respects the negligence of the State.

The limits of insurance shall not be less than as follows:

Commercial General Liability (CGL) insurance with a limit of not less than \$1,000,000 per each occurrence or Personal Liability insurance, as applicable, under a personal liability policy, commercial liability insurance policy, or package property and liability insurance policy. If such CGL insurance contains aggregate limits, the general aggregate limits shall be at least twice the "each occurrence" limit, and the products-completed operations aggregate limit shall be at least twice the "each occurrence" limit.

Employer's liability ("Stop Gap") insurance, and if necessary, commercial umbrella liability insurance with limits not less than \$1,000,000 each accident for bodily injury by accident or \$1,000,000 each employee for bodily injury by disease.

Business Auto Policy (BAP) insurance, and if necessary, commercial umbrella liability insurance with a limit of not less than \$1,000,000 per accident, with such insurance covering liability arising out of "Any Auto".

All contractors, subcontractors, or other permittees of the State must comply with all State of Washington workers' compensation statutes and regulations.

All insurance should be purchased on an occurrence basis and should be issued by companies admitted to do business within the State of Washington and have a rating of A- or better in the most recently published edition of Best's Reports. Any exception to the State's

requirements shall be reviewed and approved in advance by the Risk Manager for the Department of Natural Resources. 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.

Before using any said rights granted herein, Grantee shall furnish Grantor with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified above. Certificate(s) must reference the State's permit number.

Contractors, sub-contractors and permittees of Grantee must comply with all insurance requirements stated herein. Failure of contractors, sub-contractors and permittees to comply with State's insurance requirements does not limit Grantee liability or responsibility.

Grantee shall furnish upon request certificates of insurance and endorsements for any or all Permittees.

All insurance provided by the Grantee in compliance with this agreement shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Grantee 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 agreement.

Indemnity by the State. State shall defend, indemnify and hold harmless the Grantor from all claims that arise out of the negligence of the State or its Permittees in the use of the permit. A "claim" as used in this section means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property including the resulting loss of use. Notwithstanding the foregoing, State's obligation to defend, indemnify, and hold harmless the Grantor from any judgment, decree or arbitration award shall extend only to the percentage of negligence of Grantee and its Permittee in contribution to such claim. State waives its immunity under Title 51 RCW only to the extent it is required to indemnify, defend and hold harmless Grantor and its Permittee. This indemnification shall survive the expiration or termination of the permit.

Notice. Unless otherwise specified herein, any notices required or permitted under this Permit may be delivered personally, sent by facsimile machine or mailed certified, return receipt requested, to the following addresses or to such other place as the parties hereafter direct. Notice will be deemed given upon delivery or upon confirmation of facsimile, whichever is applicable.

To Grantee:
DEPARTMENT OF NATURAL RESOURCES
Pacific Cascade Region
Attn. – Renee Pitts –Asset Mgt. Specialist
P.O. Box 280
Castle Rock, WA 98611

To Grantor:
Thor Johnson
19901 NE 280th St.
Battle Ground, WA 98604

Integrated Agreement; Modification. This Permit constitutes the entire agreement and understanding of the parties with respect to the subject matter of the Permit and supersedes all prior negotiations and representations. This Permit may not be modified except in writing signed by the parties. The parties agree to execute any additional documents reasonably necessary to effectuate the provisions and purposes of this Permit.

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

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

Assignment. This Permit, and any of the rights granted herein, shall not be assigned without prior written consent of Grantor, except that said rights granted herein may be used by any Permittee, while engaged in the Grantee's operations.

Construction. The terms of this Permit shall be given their ordinary meaning unless defined herein and shall not be presumptively construed against either party.

Exhibits. All exhibits referred to in this Permit are deemed to be incorporated in this Permit in their entirety.

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

Counterparts. This Permit may be executed in one or more counterparts, each of which shall be deemed an original, and all of which counterparts together shall constitute the same instrument which may be sufficiently evidenced by one counterpart. Execution of this Permit at different times and places by the parties shall not affect its validity so long as all the parties execute a counterpart of this Permit.

Permit No.
DNR # 55-099987

IN WITNESS WHEREOF, the parties hereto have caused this Permit to be executed as below subscribed.

WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES



By: Eric Wisch

Title: Pacific Cascade Region Manager

Address: P.O. Box 280
Castle Rock, WA 98611

Phone No. 360-577-2025

Date: 10-24-19

GRANTOR – THOR C. JOHNSON



Address: 19901 NE 280th Street
Battle Ground, WA 98604

Phone No. 360-606-3749

Date: 10/18/19

Permit No.
DNR # 55-099987

Exhibit A
Legal Description

SW1/4SW1/4 S25 T04N R03E W.M. Clark County

EXHIBIT B

RUP: JOHNSON RUP
AGREEMENT #: 55-099987
TOWNSHIP(S): T04R03E
TRUST(S): II/A

REGION: PACIFIC CASCADE
COUNTY(S): CLARK
MILES: 0.2



Prepared By: rpa450

Modification Date: rpa450 10/7/2019

Permit No.
DNR # 55-099987

Exhibit C
Operational Requirements

- Roads to be upgraded as specified in the road plan. (Copy was provided to Grantor)



HILARY S. FRANZ
COMMISSIONER OF PUBLIC LANDS

DEPARTMENT OF
NATURAL RESOURCES

PACIFIC CASCADE REGION
601 BOND ROAD
PO BOX 280
CASTLE ROCK, WA 98611

360-577-2025
TR5 711
PACIFIC-CASCADE REGION@DNR.WA.GOV
WWW.DNR.WA.GOV

MEMORANDUM

DATE: October 15, 2019
TO: Josh Wilund
FROM: Eric Wisch *efw*
Pacific Cascade Region Manager

SUBJECT: Delegation of Authority

From October 16, 2019 through October 22, 2019, I hereby appoint Steve Ogden, Assistant Region Manager, as Region Manager and from October 23, 2019 through October 31, 2019 I hereby appoint Bob Johnson, Assistant Region Manager, as Region Manager. Steve and Bob have been delegated the authority to act on behalf of the Department of Natural Resources as Manager of the Pacific Cascade Region as set forth in the Delegation Order dated July 17, 2019. This delegation excludes Appointing Authority and discipline or termination decisions, which are referred to Josh Wilund, Department Supervisor, during this period.

cc: Commissioner Franz
Deputy Supervisors
Linda Richardson
Division Managers
Region Managers
Pacific Cascade Region