

TIMBER NOTICE OF SALE

SALE NAME: JECKLE VRH & VDT AGREEMENT NO: 30-104866

AUCTION: November 19, 2024 starting at 10:00 a.m., COUNTY: Pierce

South Puget Sound Region Office, Enumclaw, WA

SALE LOCATION: Sale located approximately 4 miles northwest of Elbe, WA.

PRODUCTS SOLD AND SALE AREA:

All timber, except trees marked with blue paint or bounded out by yellow leave tree area tags, snags, down timber existing more than 5 years from the day of sale, and all trees 60 inches or larger measured at diameter at breast height, bounded by the following: white Timber Sale Boundary tags, and the 7 Road in Unit #1; white timber sale boundary tags in Unit #2;

All timber as described in Schedule A, except snags, and down timber existing more than 5 years from the day of sale, bounded by the following: white Timber Sale Boundary tags, and blue Special Management Unit Boundary tags in Unit #3;

All timber as described in Schedule C, except snags and down timber existing more than 5 years from the day of sale, bounded by the following: white Timber Sale Boundary tags, and blue Special Management Unit Boundary tags in Unit #4;

All timber except, snags, down timber existing more than 5 years from the day of sale, and all trees 60 inches or larger measured at diameter at breast height, bounded by the following: white Timber Sale Boundary tags and blue Special Management Unit Boundary tags in Unit #5;

All timber bounded by orange Right-of-Way tags, except that title to timber within the right of way tags is not conveyed to the Purchaser unless the associated road segment is actually constructed in Units #6 (from 73 Road station 14+96 to 49+91), #7, and #8;

All timber bounded by pink flagging in Unit #6 (from 73 Road station 0+00 to 14+96).

All forest products above located on part(s) of Sections 7 and 8 all in Township 15 North, Range 5 East, W.M., containing 212 acres, more or less.

CERTIFICATION:

This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227) and FSC 100% raw materials under the Forest Stewardship Council® Standard (cert no: BV-FM/COC-080501).

ESTIMATED SALE VOLUMES AND QUALITY:

	Avg I	Ring	Total	Total	MBF by Grade									
Species	DBH C	ount	MBF	\$/MBF		1P	2P	3P	SM	1S	2S	3S	4S	UT
Douglas fir	20.4	8	6,975	\$382.75					61		5,089	1,519	291	15
Hemlock	19.2		217	\$160.00							123	82	12	
Red alder	14.7		207	\$196.00							40	52	111	5
Redcedar	23.6		121	\$910.00								110	11	
Cottonwood	19.9		52	\$20.00							42		10	
Other Hardwood	d			\$20.00										
Other Conifer				\$160.00										
Maple	10			\$20.00										
Sale Total			7,572											

MINIMUM BID: \$382.75/MBF (est. value \$2,856,000.00) BID METHOD: Sealed Bids

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PERFORMANCE

SECURITY: \$100,000.00 SALE TYPE: MBF Scale

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

BIDDABLE SPECIES: Douglas fir

BID DEPOSIT: \$285,600.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised

price.

HARVEST METHOD: Harvest activities are estimated to be 94 percent ground based and 6 percent downhill

cable. Cable and ground based equipment, with cable-tethered equipment limited to a sustained slopes of 75 percent or less, self-leveling equipment limited to sustained slopes of 65 percent or less, and all other ground based equipment limited to sustained slopes of 45 percent or less. Yarding may be restricted during wet weather if rutting becomes

excessive, per clause H-017.

Falling and yarding in all units will not be permitted on weekends or State recognized

holidays, unless approved in writing by the Contract Administrator.

ROADS: 14.96 stations of required construction. 9.20 stations of required reconstruction. 107.55

stations of optional construction. 22.88 stations of optional reconstruction. 257.00 stations of required prehaul maintenance. 14.50 stations of required abandonment. 46.80 stations of abandonment, if constructed. Purchaser maintenance on the 7, 73, 73-1, 73-2,

74, 74-1, 74-11, and 75 roads. Designated maintenance on all other roads used.

Rock for this sale can be obtained from the State owned Black Rock Pit at no cost to the Purchaser or any commercial rock source at the Purchaser's expense. Purchaser shall obtain written approval from the Contract Administrator for the use of material from any other source. Rock source development is to be completed per Section 6 and as specified in the Rock Source Development Plan in the Road Plan. A 5,000 cubic yard stockpile of 1 1/2 inch minus crushed rock is required to be manufactured, per Road Plan clause 6-65.

Operation of road construction equipment and rock haul will not be permitted from November 1 to May 15, nor on weekends or State recognized holidays, unless authority to do so is granted, in writing from the Contract Administrator. If permission is granted, to operate from November 1 to May 15, a maintenance plan may be required per Road Plan clause 1-26. The hauling of forest products will not be permitted from November 1 to May 15 unless authorized in writing by the Contract Administrator. If permission is granted to operate, from November 1 to May 15, preventative measures may be required to protect water, soil, roads and other forest assets.

ACREAGE DETERMINATION

CRUISE METHOD: Acreage was determined by traversing boundaries by GPS and by multiplying length

times width. GPS data files are available at DNR's website for timber sale packets. See

cruise narrative for cruise method.

FEES: \$128,724.00 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 is typically inaccessible from December through March. Contact Mike Fowler

at 360-819-3406 for current road conditions.

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This sale contains high quality Douglas fir saw logs and Douglas fir and redcedar poles. See Cruise.

Purchaser shall cut all vine maple greater than 6 feet in height within Unit #1, #2, and #5, leaving a stump no more than 12 inches in height.

Units #1, #2, and #5 are variable retention harvests (VRH). Unit #5 is primarily composed of hardwood trees. Unit #3 is a variable density thinning (VDT) to a residual relative density (RD) of 48 with a 36 inch diameter cap, per contract Schedules A & B. Unit #4 is a gap creation unit with fourteen 0.25 acre openings and twelve 0.1 acre openings, per contract Schedule C. Ecological enhancement sites adjacent to Unit #4 include Purchaser creation of down wood and snags, per contract Schedule D.

Bearing trees in Unit #3 are double banded with orange paint and should be high-stumped, if cut, and the stump top sloped away from the bearing marking per clause H-140.

Landing locations shall include those shown as Designated Landings in Units #3 and #4 on the Timber Sale Map. Additional landing locations will require approval from the Contract Administrator.

Gates on the 5 and 7 Road shall be kept closed and locked during operations, per Road Plan clause 7-71.

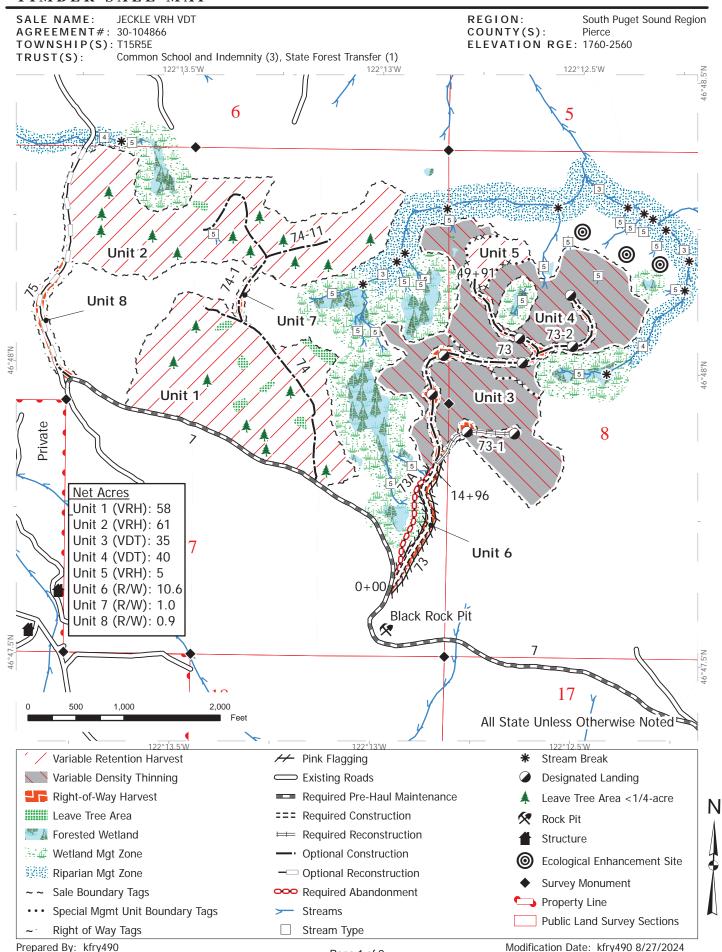
The 5 Road gate near Elbe is closed from September 1 through March 15.

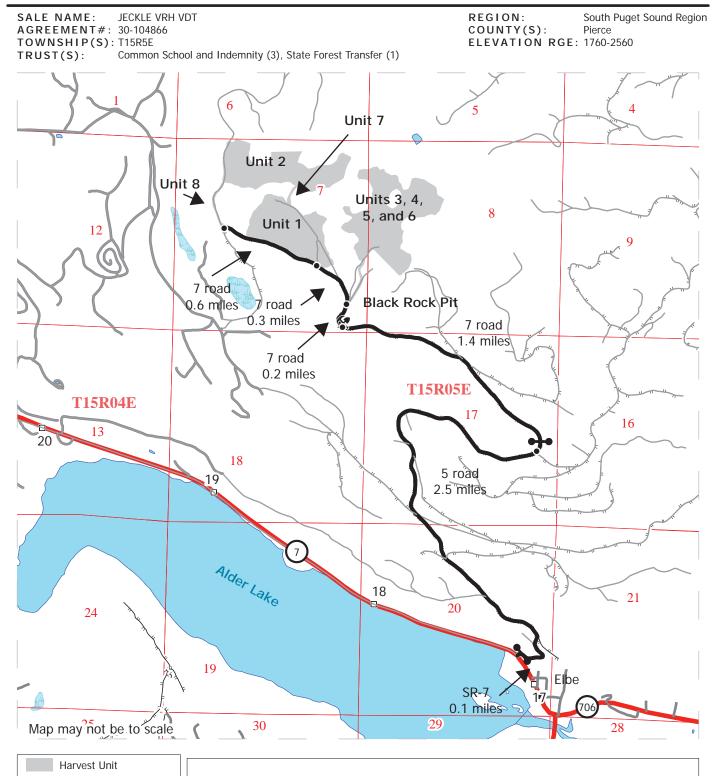
Road work on the 5 Road is in close proximity to utilities. Purchaser is required for locate, notification, and protection per Road Plan clause 1-43.

Note to cruisers and appraisers: Please refrain from leaving pink, orange, or blue flagging from your cruises in or around the sale area to avoid confusion with DNR's marking. Additionally, for the safety of the public, please remove from roads all string from string boxes used during appraising or cruising this sale.

See map for gate locations. Gate keys may be obtained by contacting the South Puget Sound Region Office at 360-825-1631 or by contacting Mike Fowler at 360-819-3406.

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Highway Haul Route Other Route

□ Milepost Marker

Distance Indicator

Gate (383 Master Lock)

Rock Pit

Prepared By: kfry490

★ Town

DRIVING DIRECTIONS:

From Elbe follow SR-7 west approximately for 0.1 miles. Turn right onto the 5 road and follow for 2.5 miles. Turn left onto the 7 road and follow for 1.4 miles to reach Black Rock Pit. Continue on the 7 road for 0.2 miles to reach Units 3, 4, 5, and 6. Units 3, 4, and 5 are walk-in access approximately 0.25 miles from the 7 road. Continue on the 7 road for another 0.3 miles to reach Units 1 and 7. Continue on the 7 road for another 0.6 miles to reach Units 2 and 8. Unit 2 is walk-in access approximately 0.25 miles from the 7 road.

Additional Information

The 5 Rd. gate near Elbe is closed from September 1 to March 15.

STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR FOREST PRODUCTS

Export Restricted MBF Scale AGREEMENT NO. 30-0104866

SALE NAME: JECKLE VRH & VDT

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-010 Products Sold and Sale Area

Purchaser was the successful bidder on November 19, 2024 and the sale was confirmed on _______. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase, cut, and remove the following forest products: All timber, except trees marked with blue paint or bounded out by yellow leave tree area tags, snags, down timber existing more than 5 years from the day of sale, and all trees 60 inches or larger measured at diameter at breast height, bounded by the following: white Timber Sale Boundary tags, and the 7 Road in Unit #1; white timber sale boundary tags in Unit #2;

All timber as described in Schedule A, except snags, and down timber existing more than 5 years from the day of sale, bounded by the following: white Timber Sale Boundary tags, and blue Special Management Unit Boundary tags in Unit #3;

All timber as described in Schedule C, except snags and down timber existing more than 5 years from the day of sale, bounded by the following: white Timber Sale Boundary tags, and blue Special Management Unit Boundary tags in Unit #4;

All timber except, snags, down timber existing more than 5 years from the day of sale, and all trees 60 inches or larger measured at diameter at breast height, bounded by the following: white Timber Sale Boundary tags and blue Special Management Unit Boundary tags in Unit #5;

All timber bounded by orange Right-of-Way tags, except that title to timber within the right of way tags is not conveyed to the Purchaser unless the associated road segment is actually constructed in Units #6 (from 73 Road station 14+96 to 49+91), #7, and #8;

All timber bounded by pink flagging in Unit #6 (from 73 Road station 0+00 to 14+96).

All forest products described above located on approximately 212 acres on part(s) of Sections 7, and 8 all in Township 15 North, Range 5 East W.M. in Pierce County(s) as shown on the attached timber sale map and as designated on the sale area.

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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-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
A	Harvest Prescription for Unit #3
В	Prescription Compliance in Unit #3
C	Harvest Prescription for Unit #4
D	Ecological Enhancement Site Requirements

G-030 Contract Term

Purchaser shall remove the forest products conveyed and complete all work required by this contract prior to October 31, 2027.

G-040 Contract Term Adjustment - No Payment

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

- a. Road and bridge failures which deny access.
- b. Access road closures imposed by road owner.
- c. Excessive suspensions as provided in clause G-220.

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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-050 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 contract value based on the contract payment rate and advertised volume.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the contract value based on the contract payment rate base and advertised volume.

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 timber value of the contract.

To determine the unpaid portion of the contract, multiply the contract payment rate for each item by the remaining volume for each item based on the volumes from the Timber Notice of Sale. In addition, all cash deposits that can be used for timber payments, except the initial deposit, will be deducted from the unpaid portion of the contract.

- e. Payment of \$30.00 per acre per annum for the acres on which an operating release has not been issued within the VRH Units. Payment of \$3.00 per annum for the acres on which an operating release has not been issued within the VDT Thinning 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

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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.

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G-061 Inadvertent Discovery of Cultural Resources

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

G-062 Habitat Conservation Plan

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

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

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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

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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.

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G-090 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, added forest products become a part of this contract and shall be paid for at the same rate and manner as other forest products under this contract.

G-100 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 shall be paid for at the same rate and manner as other forest products under this contract.

G-110 Title and Risk of Loss

Title to the forest products conveyed passes at confirmation of the sale. Purchaser bears the risk of loss of or damage to and has an insurable interest in the forest products in this contract from the time of confirmation of the sale of forest products. In the event of loss of or damage to the forest products after passage of title, whether the cause is foreseeable or unforeseeable, the forest products shall be paid for by Purchaser. Breach of this contract shall have no effect on this provision. Title to the forest products not removed from the sale area within the period specified in this contract shall revert to the State as provided in RCW 79.15.100.

G-115 Forest Stewardship Council® (FSC® C012959) Certification

Forest products purchased under this contract are FSC 100% certified as being in conformance with the Forest Stewardship Council Forest Management Standard under certificate number: BV-FM/COC-080501.

G-116 Sustainable Forestry Initiative® (SFI®) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative 2022 Forest Management Standard under certificate number: BVC-SFIFM-018227.

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

G-120 Responsibility for Work

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

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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,

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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

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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

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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 Enumclaw, 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.

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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.

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G-220 State Suspends Operations

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

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

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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; the 5, 7, 73, 73A, 73-1, 73-2, 74, 74-1, 74-11, and 75 roads. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

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

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

G-340 Preservation of Markers

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

G-360 Road Use Reservation

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

G-370 Blocking Roads

Purchaser shall not block the 5 and 7 roads, unless authority is granted in writing by the Contract Administrator.

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:

Easement, including the terms and provisions thereof,

For: Road

In Favor of: Weyerhaeuser Company Disclosed by Application No.: 50-041589

Granted: 2/1/1946 Expires: Indefinite

Region Encumbrances

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Lease, including the terms and provisions thereof,

For: Land Use License

In Favor of: The Mountaineers

Disclosed by Application No.: 60-WS1023

Granted: 2/15/2019 Expires: 12/31/2028

Special Notations

Located within the Medicine Creek Treaty area. Intergovernmental agreements for vehicle access with Squaxin Island Tribe, Puyallup Tribe, Muckleshoot Tribe, and Nisqually Indian Tribe.

Section P: Payments and Securities

P-010 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 the 'Payment for Forest Products' clause, 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-021 Payment for Forest Products

Purchaser agrees to pay the following rates per MBF Scribner net log scale for forest products conveyed and cut or removed from the sale area plus \$128,724.00 on day of sale and \$9.00 per MBF upon removal in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause.

DATA MISSING

Species that are conveyed but are not listed in the table above shall be paid for at a rate to be determined by the State.

Utility logs, special cull and peelable cull logs of all species, included on loads of logs that are required to be removed and scaled per clause H-150 will be paid for on an adjusted gross scale basis at the rate of \$20.00 per MBF plus fees.

P-027 Payment for Removal of Optional Forest Products

Purchaser agrees to weigh all loads and pay the rate of \$2.00 per ton for forest products approved for removal from the sale area under clause H-157.

P-040 Weighing and Scaling Costs

Purchaser agrees to pay for all scaling and weighing costs for logs and other products sold under this contract. Purchaser also agrees to pay for all costs associated with the transmission and reporting of scale or weight data.

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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-052 Payment Procedure

If a third party Log and Load Reporting Service (LLRS) is required by this contract the State will compute and forward to the Purchaser statements of charges provided for in the contract. Purchaser shall deliver payment to the South Puget Sound region office on or before the date shown on the billing statement.

If a third party LLRS is not required by this contract, Purchaser shall pay for forest products removed on a monthly basis. Payments will be submitted to the office listed above on or before the fourteenth of the month following the month in which the timber was removed or, according to an alternate payment schedule as approved by the State with at least one payment each month for timber removed. The alternate payment schedule, once approved by the State, shall become part of this contract and may be changed only with written approval of the State.

Payment will be based on the contract rate multiplied by the tons (tonnage contracts) or volume (mbf contracts) removed during the month or payment period. Included with the payment will be a summary report along with all related load tickets and the corresponding certified weight tickets for the payment period. The summary report will be generated using a computer spreadsheet and list the load tickets in ascending numerical order with the corresponding ticket number and weight or volume for each load.

P-070 Payment for Products: Damage, Theft, Loss, or Mismanufacture

Forest products included in this agreement which are destroyed, damaged, stolen, lost, or mismanufactured shall be paid for by Purchaser on demand of the State. The rates contained in clause P-021 shall apply.

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

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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 L: Log Definitions and Accountability

L-010 Forest Products Conveyed

Forest products conveyed are all logs or parts of logs described by the 'Products Sold and Sale Area' (G-010) clause meeting the removal requirements listed in the 'Required Removal of Forest Products' (H-150) clause.

L-020 Short Logs - Peeler Blocks

Logs or parts of logs which are removed from the sale area that fail to meet the minimum gross length requirements shall be scaled and graded as short logs or peeler blocks. Such material shall be paid for at the forest products rates specified in this contract.

L-040 Utility Logs

Utility logs are logs that meet the minimum utility log standards as described by the log scaling rules applicable for this contract.

L-060 Load Tickets

Purchaser shall complete and use load tickets as directed by the Contract Administrator and, if required, use other identification as directed by the State to ensure accounting of forest products removed from the sale area. A load ticket must be fixed, as designated by the Contract Administrator, to each truck and trailer load prior to leaving the landing.

Purchaser shall account for all load tickets issued by the Contract Administrator and return unused tickets at termination of the contract, or as otherwise required by the Contract Administrator. Unused tickets not returned shall be subject to liquidated damages per clause D-030.

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The State may also treat load tickets either not accounted for or not returned as lost forest products per clause P-070. All costs associated with computing the billings for lost forest products shall be borne by Purchaser

L-071 Log and Load Reporting Service

This contract requires the use of a State approved third party Log and Load Reporting Service (LLRS). Purchaser shall ensure log volume measurement data and/or load and weight data is received by the LLRS within 1 business day of logs being measured or weighed. Purchaser agrees to pay the LLRS for log and load data supplied to the State.

If during the term of this contract, the State discontinues use of the LLRS, the State will notify the Purchaser in writing and the Purchaser will then be responsible to send log scale and/or weight information to the State.

L-080 Scaling Rules

Determination of volume and grade of any forest products shall be conducted by a state approved third party scaling organization and in accordance with the Westside log scaling and grading rules and Scribner Volume Table, revised July 1, 1972, contained in the Northwest Log Rules Eastside and Westside Log Scaling Handbook (developed and produced by the Northwest Log Rules Advisory Group) and in effect on the date of confirmation of this contract.

Special scaling specifications shall be noted on the State's Brand Designation form which is hereby incorporated to this contract by reference.

L-110 State Approval of Log Scaling and Weighing Locations

Forest Product measurement and weighing facilities required by this contract must be approved by the State. Forest products sold under the contract which require log scaling shall be scaled, measured, or counted by a State approved third party log scaling organization. Forest products sold under the contract which require weighing shall be weighed at a location that meets Washington State Department of Agriculture approval.

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or enroute to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

L-120 Long Log Taper Distribution

Forest products over 40 feet long plus trim shall be segment scaled and the lower segment diameters shall be determined using actual taper. In order to utilize taper rules for determining segment diameters for poles and pilings greater than 40 feet in length plus trim, Purchaser must request use of a Pole and Piling Scaling Specification

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Agreement on file in the region office. Approval for usage of a special Pole and Piling Scaling Specification Agreement may be granted at the sole discretion of the State.

Following State approval for usage of the Pole and Piling Scaling Specification Agreement, the Brand Designation form shall be amended to incorporate the long log taper rules. The volume reported by the scaling organization for forest products over 40 feet plus trim will be expanded by 5 percent and the additional 5 percent volume shall be billed to the purchaser at the contract rate.

L-130 Conversion Factors

Forest products removed from the sale area that are not measured in units specified in the 'Payment for Forest Products' clause of this contract shall be converted to board feet using Department of Natural Resources' standard conversion factors.

Section H: Harvesting Operations

H-012 Leave Tree Damage Definition

Leave trees are trees required for retention within the sale boundary. Purchaser shall protect leave trees from being cut, damaged, or removed during operations.

Leave tree damage exists when more than 5 percent of the leave trees are damaged in a unit and when one or more of the following criteria occur as a result of Purchaser's operation, as determined by the Contract Administrator:

- a. A leave tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 324 square inches.
- b. A leave tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A leave 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 leave tree has been cut or damaged, the Purchaser may be required to pay liquidated damages for Excessive Leave Tree Damage as detailed in clause D-040.

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 144 square inches.

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- b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

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

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

H-017 Preventing Excessive Soil Disturbance

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

H-025 Timing Requirements for Timber Removal

All timber must be removed within 60 days of being felled.

H-030 Timber Falling

Trees shall be felled and logs shall be bucked to obtain the greatest practicable utilization of forest products and other valuable materials conveyed.

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 harvest requirements related to thinning prescriptions, skid trail locations, falling, and yarding, and ecological enhancement requirements, 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-052 Branding and Painting

Forest products shall be branded with a brand furnished by the State prior to removal from the landing. 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

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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-110 Stump Height

Trees shall be cut as close to the ground as practicable. Stump height shall not exceed 12 inches in height measured on the uphill side, or 2 inches above the root collar, whichever is higher.

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using cable and ground based equipment, with cable-tethered equipment limited to a sustained slopes of 75 percent or less, self-leveling equipment limited to sustained slopes of 65 percent or less, and all other ground based equipment limited to sustained slopes of 45 percent or less. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities.

H-126 Tailholds on State Land

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

H-130 Hauling Schedule

The hauling of forest products will not be permitted from November 1 to May 15, nor on weekends or State recognized holidays unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

- A. Existing downed trees or logs dead for more than 5 years yarded to the landing shall be returned to their original locations.
- B. Equipment limitation zones are required within 30 feet of Type 5 streams.
- C. Crossings of Type 5 streams may be allowed at locations approved in writing by the Contract Administrator. Purchaser shall place a culvert or log puncheon at crossing

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locations (when water is present) to protect the stream bank and prevent sedimentation. All materials placed in and/or over the stream at these crossings shall be removed immediately upon completion of yarding on that skid trail.

- D. Any and all operations associated with this sale may be temporarily suspended when, in the opinion of the Contract Administrator, there is the potential for delivery to typed water.
- E. Trees marked with a double band of orange paint within Unit #3, if cut, shall be high stumped approximately 8 feet above ground level. The tops of cut stumps shall be sloped at an angle with the high side of the slope located above the bearing tag or scribe.
- F. Within shovel logging areas, and when yarding and loading operations are occurring simultaneously, an additional shovel will be required for loading to avoid extra trips to the landing. No more than one round trip per shovel road is allowed.
- G. Landings shall be constructed in locations, and with drainage, that does not contribute sediment to typed water.
- H. Landing locations shall include those shown as Designated Landings in Units #3 and #4 on the Timber Sale Map. Other landing locations will require approval from the Contract Administrator per clause C-080.
- I. Take measures throughout operations to control soil erosion, water channelization, and prevent sediment delivery to streams or wetlands. Methods may include construction of water bars, "sweeping" with logs, silt traps, or other measures on skid trails, yarding corridors, landings, and haul roads.
- J. Within Units #3 and #4, skid trails shall not exceed 12 feet in width, including rub trees. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.
- K. Skid trails shall not cover more than 10 percent of the total acreage in Unit #3 and skid trails shall not cover more than 5 percent of the total acreage in Unit #4.
- L. Skid trail locations will be pre-approved by the Contract Administrator in Units #3 and #4.
- M. No more than two skid trails shall be open to active skidding at any one time.
- N. In the event operations become inactive for long periods of time, skid trails shall be water barred prior to completion of yarding tributary timber, and drainage from landings improved, to prevent water accumulation and sediment movement, if required by the Contract Administrator.

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- O. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.
- P. Once a skid trail is closed, the Purchaser shall not reopen a skid trail unless approved in writing by the Contract Administrator.
- Q. To facilitate proper reforestation in areas of high slash concentrations, Purchaser shall, in concurrence with ground based yarding, clear plantable spots at an 11 foot by 11 foot spacing in Units #1, #2, and #5.
- R. Notify all employees and contractors working on this sale that any danger tree marked or unmarked may be felled. Any marked danger tree will be replaced with a suitable tree of similar size and species as approved by the Contract Administrator.

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

H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

- a. Leave 2 down logs per acre in Units 1, 2, and 5. A log is defined as having a minimum diameter of 12 inches on the small end of the log and a minimum length of 20 feet or at least 100 board feet.
- b. Trees 60 inches or larger measured at diameter at breast height (DBH) in Units #1, #2, and #5 shall not be felled unless for safety reasons. Written approval from the State is required prior to cutting any trees 60 inches DBH or greater. If trees 60 inches DBH or greater need to be felled for safety reasons, trees will be left in place where felled.

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

H-150 Required Removal of Forest Products

Purchaser shall remove from the sale area and present for scaling or weighing all forest products conveyed in the G-010 clause that meet the following minimum dimensions:

Species	Net bd ft	Log length (ft)	Log dib		
All Species	10	12	5		

The State may treat failure to remove forest products left on the sale area that meet the above specifications as a breach of this contract. At the State's option, forest products that meet the above specifications and are left on the sale area may be scaled for volume or measured and converted to weight by the State or a third party scaling organization and billed to Purchaser at the contract payment rate. All costs associated with scaling, measuring and computing the billing will be borne by the Purchaser.

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H-157 Optional Removal of Forest Products Not Designated

If in the course of operations, Purchaser decides to remove forest products that are below the minimum designated removal specifications per the 'Required Removal of Forest Products' (H-150), the payment rates in clause P-027 shall apply.

Forest products designated as optional shall be decked separately from forest products designated as required for removal. Prior to removal from the sale area, optional forest products as described in this clause must be inspected and approved by the Contract Administrator. Optional forest products may not be mixed with forest products that are required for removal by this contract and shall be removed from the sale area in separate truck loads using load tickets specified by the Contract Administrator.

All material removed under this clause is subject to the same log and load accountability rules as defined in the Log Definitions and Accountability section of this contract. Purchaser shall follow the payment procedures as required in the P-052 clause and will submit a separate summary report for all forest products removed from the sale area under the authority of this clause.

H-160 Mismanufacture

Mismanufacture is defined as forest products remaining on the sale area that would have met the specifications in clause H-150 if bucking lengths had been varied to include such products.

The State may treat mismanufacture as a breach of this contract. At the State's option, forest products that are left on the sale area may be scaled for volume by the State or a third party scaling organization and billed to Purchaser at the contract payment rate. All costs associated with scaling and computing the billing will be borne by Purchaser.

H-180 Removal of Specialized Forest Products or Firewood

Prior to the removal of conveyed specialized forest products or firewood from the sale area, Purchaser and the State shall agree in writing to the method of accounting for/and removal of such products.

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.

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H-250 Additional Falling Requirements

Within Units #1, #2, and #5, all vine maple stems greater than 6 feet in height, shall be felled leaving a stump no more than 12 inches in height. 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 3/4/2024 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on the 7, 73, 73-1, 73-2, 74, 74-1, 74-11, and 75 roads. 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 other roads used not covered in clause C-050. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. Costs shall be based on the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

C-080 Landing Locations Approved Prior to Construction

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

C-090 Landing Location

Landings shall be built 30 feet off the 7, 74, and 75 road(s).

C-140 Water Bars

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

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-030 Landing Debris Clean Up

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

S-035 Logging Debris Clean Up

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

S-050 Cessation of Operations for Low Humidity

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

S-060 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

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

S-110 Resource Protection

No equipment may operate within any wetland or stream unless authority is granted in writing by the Contract Administrator.

- S-130 Hazardous Materials
 - a. Hazardous Materials and Waste Regulatory Compliance

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

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

S-131 Refuse Disposal

As required by RCW 70.93, All Purchaser generated refuse shall be removed from state lands for proper disposal prior to termination of this contract. No refuse shall be burned, buried or abandoned on state forest lands. All refuse shall be transported in a

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manner such that it is in compliance with RCW 70.93 and all loads or loose materials shall be covered/secured such that these waste materials are properly contained during transport.

Section D: Damages

D-010 Liquidated Damages

The clauses in the DAMAGES section of this contract provide for payments by Purchaser to the State for certain breaches of the terms of this contract. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State 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.

D-020 Failure to Remove Forest Products

Purchaser's failure to remove all or part of the forest products sold in this agreement prior to the expiration of the contract term results in substantial injury to the State. The value of the forest products sold at the time of breach is not readily ascertainable. Purchaser's failure to perform disrupts the State's management plans, the actual cost of which is difficult to assess. A resale involves additional time and expense and is not an adequate remedy. Therefore, Purchaser agrees to pay the State as liquidated damages a sum calculated using the following formula:

LD = .35V-ID-P+C+A

Where:

LD = Liquidated Damage value.

V = The unremoved value at the date of breach of contract. The value is determined by subtracting the removal volume to date from the State's cruise volume multiplied by the contract bid rates.

ID = Initial Deposit paid at date of contract that has not been applied to timber payments.

P = Advance payments received but not yet applied to specific contract requirements.

C = Charges assessed for contract requirements completed prior to breach of contract but not paid for.

A = Administrative Fee = \$2,500.00.

The above formula reflects the Purchaser's forfeiture of the initial deposit in accordance with clause P-010 by deducting the initial deposit from the amount owed. In no event

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shall the liquidated damages be less than zero. Interest on the liquidated damage is owed from the date of breach until final payment, calculated using the following formula: Interest = $r \times LD \times N$.

Where:

r = daily equivalent of an annual interest at current interest rate as established by WAC 332-100-030.

LD = Liquidated damage value.

N = Number of days from date of breach to date payment is received.

D-030 Inadequate Log Accountability

Removal of forest products from the sale area without adequate branding and/or valid load tickets attached to the load and scaling forest products in a location other than the facility approved by the State can result in substantial injury to the State. Failure to properly account for loads and scaling and/or weighing information can result in loss to the State. The potential loss from not having proper branding, ticketing, scaling and/or weighing location and accountability is not readily ascertainable. Purchaser's failure to perform results in a loss of log weight and scale accountability, increases the potential for unauthorized removal of forest products, and increases the State's administration costs, the actual costs of which are difficult to assess.

Enforcement actions for unauthorized removal of forest products for each improperly branded load, improperly ticketed load, lost or unaccounted for tickets, or use of a facility not authorized for this sale or improper submission of scaling data are impractical, expensive, time consuming and are not an adequate remedy. Therefore, Purchaser agrees to pay the State, as liquidated damages, a sum of \$100 each time a load of logs does not have branding as required in the contract, \$250 each time a load of logs does not have a load ticket as required by the contract, \$250 each time a load ticket has not been filled out as required by the plan of operations, \$250 each time a load is weighed or scaled at a location not approved as required under this contract, \$250 each time a log ticket summary report is not submitted properly, and if a third party Log and Load Reporting Service is required, \$250 each time scaling or weight data is not properly submitted to the Log and Load Reporting Service per clause L-071, and \$250 each unused ticket that is not returned to the State, for any reason.

D-040 Leave Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-012, Leave Tree Damage Definition, the trees damaged result in substantial injury to the State. The value of the damaged leave trees at the time of the breach is not readily ascertainable. Therefore, Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged trees in Units #3, and #4.

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

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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 Units #1, #2, and #5.

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.

	DEPARTMENT OF NATURAL RESOURCES
Purchaser	Don Melton South Puget Sound Region Manager
Print Name	South Fuget Sound Region Manager
Date:	Date:

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

STATE OF)						
COUNTY OF)						
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		My appoi	ntment	expi	res			

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Schedule A Harvest Prescription for Unit #3

Harvest Prescription:

This harvest is to enhance habitat by a variable density thinning to achieve the relative density (RD) target below. To accomplish this prescription, trees may be harvested that are six (6) to thirty-five (35) inches in diameter at breast height (DBH). No trees that are thirty-six (36) inches or larger in DBH shall be felled, with the exception of those trees which pose a safety hazard.

Unit #	Residual Target
	RD
3	48

- Only live trees 6 inches or greater in DBH will be used to calculate RD. Trees that are less than 6 inches in DBH are to be protected during harvest operations where possible, with special attention given to western redcedar.
- The RD target is an average at the unit level.
- In any given area, the residual RD shall not vary by more than five (5) points above or below the unit target.
- The RD listed is required; Purchaser shall leave sufficient trees and basal area per acre in the unit to achieve the RD following harvest.
- Leave trees shall be thoroughly distributed across the harvest units on an acre by acre basis. Leave trees shall be selected using the Leave Tree Selection Criteria.
- Trees marked for structure creation shall not count towards the residual RD target.
- Relative Density (RD) will be calculated using the following formula

$$RD = \underline{BA}$$

$$\sqrt{QMD}$$

Leave Tree Selection Criteria:

The Purchaser shall select leave trees from the dominant and co-dominant canopy by comparing each tree with other trees in the stand, first by using species preference, then by form preference listed below.

Species preference (in descending order of priority)

- 1) western redcedar
- 2) Douglas-fir
- 3) western hemlock
- 4) Pacific silver fir/noble fir
- 5) big leaf maple
- 6) red alder

Form preference (in descending order of priority)

- 1) Free of disease, major defect and damage*
- 2) Largest diameter
- 3) Tallest height

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4) Fullest and most vigorous crown

*Four trees per acre with defect, damage or decay are to be left as wildlife trees

The Purchaser shall comply with the reserve tree selection guidelines listed in "Guidelines for Selecting Reserve Trees" published by the Washington Department of Labor and Industries. The Purchaser is not required to leave any unsafe tree.

Certification:

All persons engaged in the felling and yarding of timber in Units #3 & #4 must receive certification in writing from the Contract Administrator per clause H-140.

Equipment Restriction:

No equipment shall operate within 50 feet of Timber Sale Boundary tags along the western boundary of Unit #3.

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Schedule B Prescription Compliance in Unit #3

Compliance:

To ensure that the Purchaser is in compliance with the prescription, the Purchaser shall measure sample plots across the landscape concurrently while harvesting Unit 3. These plots shall be predetermined, with approval by the Contract Administrator (CA), on a 330 foot by 330 foot grid covering each unit to ensure random and unbiased plot locations. If 330 foot by 330 foot grid is not possible due to configuration of the unit, another unbiased grid will be agreed upon by the CA.

At each plot location, stand conditions will be measured using a fixed plot of 1/10 acre and a variable plot with a basal area factor (BAF) of 20. A different BAF may be used if approved by CA.

All compliance plots, as described above, will be marked in the field. The perimeter of the plot will be marked with fluorescent pink flagging. On each plot, the count trees will be marked with one yellow band of paint, and BA trees with two yellow bands of paint. The Purchaser shall demonstrate, to the satisfaction of the CA, a working knowledge and ability to accurately measure and calculate Relative Density. The Purchaser shall submit compliance plot data to the CA at the following intervals:

Unit #3 after 10% of the unit has been cut and every 20% of the total unit acreage thereafter.

The following tables include residual trees per acre (TPA) and basal area (BA) averages that are recommended based on cruise information and modeling to achieve the RD prescription for Unit #3. These are estimates only. Compliance of the RD achieved in Unit #3 will be based on actual plot data.

Unit #	Average TPA Recommended	Average Basal Area per Acre
3	116	207

If a plot indicates that the RD is more than five (5) points above or below the unit target, the CA must be notified immediately. The CA shall determine if this deviation will require recertification of the fallers.

The Purchaser shall not deviate from the requirements set forth in the Compliance portion of this schedule without prior written approval by the CA.

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Schedule C Harvest Prescription for Unit #4

Harvest Prescription:

Within the boundaries of Unit #4, the Purchaser is to create fourteen 0.25 acre openings and twelve 0.1 acre openings. The only trees to be removed in Unit #4 are within these areas as indicated below.

One quarter (0.25) acre openings:

- Ten of the 0.25-acre openings are to be measured on a 59 foot radius from a center tree. The center tree is marked with one band of blue paint and three white tags which read "1/4 Acre Gap, 59 foot radius." Two additional leave trees are designated by a single band of blue paint. No blue painted trees, including the center tree, shall be cut.
- Four of the 0.25-acre openings are designated as landings along the 73 and 73-2 road. These four openings contain no trees marked with blue paint. The center tree is designated with three tags which read "1/4 Acre Gap, 59 foot radius" and is wrapped with blue and pink flagging. The center tree may be cut and removed once the radius of the opening is identified.

One tenth (0.1) acre openings:

• Twelve 0.1-acre openings are to be measured on a 37 foot radius from a center tree. The center tree is marked with one band of blue paint and three tags which read "1/10 Acre Gap, 37 foot radius". No center trees shall be cut.

Skid trails shall not exceed 5% of the harvest unit per H-140. Skid trail locations must be preapproved by CA per H-140.

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Schedule D Ecological Enhancement Site Requirements

Structure Creation:

Purchaser shall create structure trees in three (3) pre-marked Ecological Enhancement Sites adjacent to (north-northeast of) Unit 4. Trees are marked for down woody debris and snag creation.

Down woody debris (DWD) creation

Trees designated for DWD creation are marked with 1 band of pink paint and a "D" at a rate of 20 trees per Ecological Enhancement Site.

For any tree that is marked for creation of DWD, the faller has the authority to make the below modifications for safety. If any modifications for safety are made, the Purchaser shall notify the Contract Administrator.

- If unsafe to fall the tree, the tree may be traded for another nearby tree of similar species and size for falling. Alternate trees must be reviewed and approved by the Contract Administrator.
- Contract clause H-110 does not apply to DWD in these units; trees may be felled using any stump height that accommodates safe falling practices.

Snag creation

Trees designated for snag creation are marked with 2 bands of pink paint and an "S" at a rate of 15 trees per Ecological Enhancement Site. Snags may be created by either girdling or topping. If the Purchaser elects to girdle the trees, girdling shall expose the cambium completely around the bole of the tree in a manner approved by the Contract Administrator. If the Purchaser elects to top the tree, the topping shall occur above 20 feet.

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WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: South Puget Sound

Timber Sale Name: Jeckle VRH & VDT

Application Number: 30- 104866

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 7,571 linear feet

Road to be constructed (optional and required) but not abandoned

Reconstruction: 3,208 linear feet

Road to be reconstructed (optional and required) but not abandoned

Abandonment: 1,450 linear feet

Abandonment of existing roads not reconstructed under the contract

Decommission: U linear feet

 ${\it Road\ to\ be\ made\ undriveable\ but\ not\ officially\ abandoned.}$

Pre-Haul Maintenance: 25,700 linear feet

Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: 4,680 linear feet

Roads to be constructed (optional and required) and

then abandoned

0 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)

PRE-CRUISE NARRATIVE

Sale Name: Jeckle VRH & VDT	Region: South Puget Sound
Agreement #: 30-104866	District: Rainier
Contact Forester: Mike Fowler	Phone/ Location: (360) 819-3406
Alternate	Phone/
Contact:	Location:

Type of Sale (lump sum, mbf scale, tonnage scale or contract harvest): MBF scale
Required or Optional removal of utility as pulp (for scale sales only): Optional
Evaluated for RFRS Implementation?: Yes, not implemented.
Percentage cable-uphill: 0%
Percentage cable-downhill: 6%
Percentage ground based: 94%
Species Onsite: 🖂 RC, 🖂 D.F., 🦳 W.H., 🖂 RA, 🥅 B.C., 🥽 B.L.M., 🤼 N.F., 🦳 S.F., 🦳 SS., 🦳 Other:(Please List)

UNIT ACREAGES* AND METHOD OF DETERMINATION:

				Dec		rom Gross . vest acres)	Acres		Acreage
Unit #									Determination
Harvest R/W or RMZ WMZ	Legal Description Sec/Twp/Rng	Grant	Gross Traversed Acres	RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)	Net Harvest Acres	(List method, dimensions and error of closure if applicable)
1	Sec 07/ T 15N/ R 05 E	01,03	62.6		3.7	0.9		58.0	Garmin, Trimble R1, Length x Width (2453'x16')
2	Sec 07/ T 15N/ R 05 E	01,03	63.6		1.5	0.7		61.4	Garmin, Trimble R1, Length x Width (1257'x25')
3	Sec 07/ T 15N/ R 05 E Sec 08/ T 15N/ R 05 E	01	34.8			0.3		34.5	Garmin, Trimble R1 Length x Width (973'x15')
4	Sec 07/ T 15N/ R 05 E Sec 08/ T 15N/ R 05 E	01	39.9					39.9	Garmin, Trimble R1
5	Sec 08/ T 15N/ R 05 E	01	5.2					5.2	Garmin
6 R/W	Sec 07/ T 15N/ R 05 E Sec 08/ T 15N/ R 05 E	01	10.6					10.6	Garmin
7 R/W	Sec 07/ T 15N/ R 05 E	03	1.0					1.0	Garmin
8 R/W	Sec 07/ T 15N/ R 05 E	03	2.1			1.2		0.9	Garmin, Length x Width (40'x1252')
TOTAL ACRES			219.8		5.2	3.1		211.5	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Mark leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.) *For all marked thinnings, include a tree count by species.
Unit 1	Variable Retention Harvest – Boundary marked by white "Timber Sale Boundary" tags with pink flashers, pink flagging, and the 7 road.		8 leave trees per acre. 510 leave trees. Leave tree areas marked by yellow "Leave Tree Area" tags with pink flashers. Individual leave trees are marked with a single band of blue paint.
Unit 2	Variable Retention Harvest – Boundary marked by white "Timber Sale Boundary" tags with pink flashers and pink flagging.		8 leave trees per acre. 510 leave trees. Leave tree areas marked by yellow "Leave Tree Area" tags with pink flashers. Individual leave trees are marked with a single band of blue paint.
Unit 3	Variable Density Thinning – Boundary marked by white "Timber Sale Boundary" tags with pink flashers and blue "Special Management Unit Boundary" tags with pink flashers and pink		Thin to RD 48. No trees over 36" DBH to be cut.

	flagging.	
Unit 4	Variable Density Thinning – Boundary marked by white "Timber Sale Boundary" tags with pink flashers, pink flagging, and blue "Special Management Unit Boundary" tags with pink flashers.	This unit is comprised of 14 gaps with a radius of 59 feet (.25 acres) and 12 gaps with a radius of 37 feet (0.1 acres). The center tree of each gap is marked with white tags which indicate the radius of the gap in feet and size of the opening in acres. All trees within the indicated radius of the center tree are take trees with the exception of leave trees painted with a single band of blue paint. Each 0.25 acre gap has three leave trees and each 0.1 acre gap has one leave tree. Gaps that intersect R/W Unit 6 are designated landings and do not have leave trees. No trees outside of these gaps will be harvested except for trees within skid trails needed to harvest these gaps. Skid trails are not designated and are limited to 5% of total unit acreage, or 2.0 acres.
Unit 5	Variable Retention Harvest – Boundary marked by white "Timber Sale Boundary" tags with pink flashers, pink flagging, and blue "Special Management Unit Boundary" tags with pink flashers.	8 leave trees per acre. 45 leave trees. Leave trees are marked with a single band of blue paint.
Unit 6 ROW	Boundary marked by orange "Right-of-Way Boundary" tags with orange flashers and pink flagging.	
Unit 7 ROW	Boundary marked by orange "Right-of-Way Boundary" tags with orange flashers.	
Unit 8 ROW	Boundary marked by orange "Right-of-Way Boundary" tags with orange flashers.	

OTHER PRE-CRUISE INFORMATION:

Unit #	Estimated Volume	Access information	Photos, traverse maps
		(Gates, locks, etc.)	required
		Access off the 7 road. 5 road gate is open from March 15	
		through September 1. 7 road gate is closed year-round.	
1	See Cruise	Both gates have a 383 Master lock.	
		Access off the 7 road. 5 road gate is open from March 15	
		through September 1. 7 road gate is closed year-round.	
2	See Cruise	Both gates have a 383 Master lock.	
		Access off the 7 road. 5 road gate is open from March 15	
		through September 1. 7 road gate is closed year-round.	
3	See Cruise	Both gates have a 383 Master lock.	
		Access off the 7 road. 5 road gate is open from March 15	
		through September 1. 7 road gate is closed year-round.	
4	See Cruise	Both gates have a 383 Master lock.	
		Access off the 7 road. 5 road gate is open from March 15	
		through September 1. 7 road gate is closed year-round.	
5	See Cruise	Both gates have a 383 Master lock.	
		Access off the 7 road. 5 road gate is open from March 15	
6		through September 1. 7 road gate is closed year-round.	
	See Cruise	Both gates have a 383 Master lock.	
		Access off the 7 road. 5 road gate is open from March 15	
7	See Cruise	through September 1. 7 road gate is closed year-round.	

		Both gates have a 383 Master lock.	
8	19 MBF	Access off the 7 road. 5 road gate is open from March 15 through September 1. 7 road gate is closed year-round. Both gates have a 383 Master lock.	

REMARKS:

Prepared By: Nick Meboe	Title: Forester	CC: Mike Fowler
Date: 02/27/2024		

Revised 2/23/2007 (PSLD), Revised 1/22/20 (SPS)

Timber Sale Cruise Report Jeckle VRH VDT

Sale Name: JECKLE VRH VDT

Sale Type: MBF SCALE Region: SO PUGET District: RAINIER

Lead Cruiser: Aaron Coleman **Other Cruisers:** Alan Douglas

Cruise Narrative:

This sale consists of 3 variable retention harvest (VRH) units, 2 variable density thinning (VDT) units and 3 right-of-way (R/W) units located off the 7 road within the Elbe Hills State Forest. A 383 key was needed to access the gate #516, and all roads were in good condition.

The primary species for this sale is as follows:

Douglas-fir (92%) with an average diameter of 20 inches.

Western hemlock (3%) with an average diameter of 19 inches.

Red alder (3%) with an average diameter of 14 inches.

Western redcedar (1%) with an average diameter of 23 inches.

All units contains pole-quality trees, which were captured on VP plots. Only "natural" poles were sampled and tallied in the cruise. The entire sale is shovel ground. Timber is of varying quality, with portions of both younger and older DF-dominant cohorts.

Most commonly observed defect was broken/forked tops, spike knots, and signs of butt rot.

Unit 3 is to be thinned down to RD 48, as outlined in Schedule A. Unit 4 take volume comes ONLY from the gaps and associated skid trails. Unit 6 was split into two units in this cruise report, due to differing timber types.

Timber Sale Notice Volume (MBF)

				MBF Volume by Grade						
Sp	DBH	Rings/In	Age	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility	
DF	20.4	8		6,974	61	5,089	1,518	291	15	
WH	19.2			217		123	82	12		
RA	14.7			207		40	52	111	5	
RC	23.6			121			110	11		
ВС	19.9			52		42		10		
MA	10.0			0				0		
ALL	19.7			7,572	61	5,293	1,763	435	20	

Timber Sale Notice Weight (tons)

	Tons by Grade						
Sp	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility	
DF	46,243	328	31,298	12,073	2,449	95	

	Tons by Grade								
Sp	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility			
WH	1,976		999	821	155				
RA	1,783		303	411	1,035	34			
RC	825			731	94				
ВС	329		247		83				
MA	0				0				
ALL	51,157	328	32,847	14,037	3,817	129			

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)	_		V-BAR SE (%)		
266.7	3.2	192.7	1.7	52,133	3.6

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
JECKLE U1	B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	58.0	62.6	44	25	1
JECKLE U2	B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	61.4	63.6	44	26	0
JECKLE U3	B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	34.5	34.8	34	17	0
JECKLE U4	B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	39.9	39.9	39	20	0
JECKLE U5	B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	5.2	5.2	7	7	0
JECKLE U6	B1: VR, 1 BAF (54.44) Measure All, Sighting Ht = 4.5 ft	8.3	10.6	10	10	0
JECKLE U6b	ST: Strip/Percent Sample (1 tree expansion)	2.3		1	1	0
JECKLE U7	B1: VR, 1 BAF (54.44) Measure All, Sighting Ht = 4.5 ft	1.0	1.0	2	2	0
JECKLE U8	ST: Strip/Percent Sample (1 tree expansion)	0.9	2.1	1	1	0
All		211.5	219.6	182	109	1

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
ВС	LIVE	2 SAW	Domestic	16.8	40	209	198	5.3	246.7	41.8
BC	LIVE	4 SAW	Domestic	7.8	39	52	50	4.2	82.8	10.5
BC	LIVE	CULL	Cull	9.2	12	17	0	100.0	0.0	0.0
DF	LIVE	2 SAW	Domestic	17.8	39	19,168	18,388	4.1	23,641.3	3,889.2
DF	LIVE	2 SAW	HQ-B	16.0	40	4,768	4,702	1.4	6,285.7	994.4
DF	LIVE	2 SAW	Pole	14.2	40	974	970	0.4	1,371.2	205.2
DF	LIVE	3 SAW	Domestic	8.8	38	5,710	5,670	0.7	9,748.5	1,199.2
DF	LIVE	3 SAW	HQ-B	9.9	40	1,067	1,052	1.5	1,619.5	222.4
DF	LIVE	3 SAW	Pole	9.3	40	457	457	0.0	705.0	96.6
DF	LIVE	4 SAW	Domestic	5.6	26	1,368	1,359	0.7	2,415.5	287.5
DF	LIVE	4 SAW	Pole	6.8	23	17	17	0.0	33.6	3.7
DF	LIVE	CULL	Cull	11.9	7	174	0	100.0	0.0	0.0
DF	LIVE	SPECIAL MILL	HQ-A	20.1	40	289	289	0.3	327.8	61.0
DF	LIVE	UTILITY	Pulp	5.2	17	72	72	1.1	95.1	15.1
MA	LIVE	4 SAW	Domestic	6.4	30	0	0	0.0	0.3	0.0
RA	LIVE	2 SAW	Domestic	12.8	30	206	187	9.4	302.9	39.5
RA	LIVE	3 SAW	Domestic	10.5	34	254	246	3.0	411.1	52.0
RA	LIVE	4 SAW	Domestic	7.3	28	543	523	3.6	1,035.0	110.6
RA	LIVE	CULL	Cull	7.1	9	62	0	100.0	0.0	0.0
RA	LIVE	UTILITY	Pulp	5.0	25	23	23	0.0	33.6	4.8
RC	LIVE	3 SAW	Domestic	14.9	36	292	271	7.1	422.8	57.4
RC	LIVE	3 SAW	Pole	13.0	34	251	250	0.5	308.5	52.9
RC	LIVE	4 SAW	Domestic	5.9	23	21	20	3.2	40.1	4.3
RC	LIVE	4 SAW	Pole	5.9	24	31	31	0.0	54.1	6.5
RC	LIVE	CULL	Cull	20.9	6	39	0	100.0	0.0	0.0
WH	LIVE	2 SAW	Domestic	14.2	40	617	580	5.9	998.9	122.8
WH	LIVE	3 SAW	Domestic	9.1	40	395	388	1.8	821.4	82.1
WH	LIVE	4 SAW	Domestic	5.3	27	61	57	7.2	155.3	12.0
WH	LIVE	CULL	Cull	8.0	6	1	0	100.0	0.0	0.0

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
ВС	5 - 7	LIVE	Domestic	6.9	38	34	0.0	45.8	7.1
ВС	5 - 7	LIVE	Cull	7.9	4	0	100.0	0.0	0.0
ВС	8 - 11	LIVE	Cull	9.5	14	0	100.0	0.0	0.0
ВС	8 - 11	LIVE	Domestic	10.6	38	48	6.4	87.3	10.1

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
ВС	16 - 19	LIVE	Domestic	17.7	40	108	8.4	128.8	22.9
ВС	20+	LIVE	Domestic	21.8	40	58	0.0	67.5	12.2
DF	5 - 7	LIVE	Pulp	5.4	15	72	1.1	95.1	15.1
DF	5 - 7	LIVE	Cull	5.6	8	0	100.0	0.0	0.0
DF	5 - 7	LIVE	Domestic	6.0	31	2,528	0.5	4,507.0	534.6
DF	5 - 7	LIVE	Pole	6.4	31	48	0.0	83.1	10.1
DF	8 - 11	LIVE	Domestic	9.6	37	4,441	0.7	7,563.5	939.2
DF	8 - 11	LIVE	Pole	9.9	40	426	0.0	655.6	90.2
DF	8 - 11	LIVE	HQ-B	10.0	40	1,052	1.5	1,619.5	222.4
DF	8 - 11	LIVE	Cull	10.1	5	0	100.0	0.0	0.0
DF	12 - 15	LIVE	Domestic	13.7	39	3,802	1.9	5,737.3	804.2
DF	12 - 15	LIVE	Pole	13.7	40	687	0.5	1,004.2	145.3
DF	12 - 15	LIVE	HQ-B	13.8	40	1,885	0.9	2,743.9	398.7
DF	12 - 15	LIVE	Cull	15.0	1	0	100.0	0.0	0.0
DF	16 - 19	LIVE	Pole	16.7	40	283	0.0	367.0	59.9
DF	16 - 19	LIVE	Cull	17.3	4	0	100.0	0.0	0.0
DF	16 - 19	LIVE	Domestic	17.6	40	5,133	2.0	6,430.5	1,085.6
DF	16 - 19	LIVE	HQ-B	17.7	40	1,716	1.4	2,240.1	362.9
DF	16 - 19	LIVE	HQ-A	18.4	40	34	2.6	42.2	7.2
DF	20+	LIVE	HQ-A	21.4	40	254	0.0	285.6	53.8
DF	20+	LIVE	HQ-B	22.4	40	1,101	2.2	1,301.7	232.8
DF	20+	LIVE	Domestic	23.2	39	9,514	6.0	11,567.1	2,012.3
DF	20+	LIVE	Cull	24.4	9	0	100.0	0.0	0.0
MA	5 - 7	LIVE	Domestic	6.4	30	0	0.0	0.3	0.0
RA	5 - 7	LIVE	Pulp	5.0	25	23	0.0	33.6	4.8
RA	5 - 7	LIVE	Cull	5.3	11	0	100.0	0.0	0.0
RA	5 - 7	LIVE	Domestic	6.4	28	263	3.2	513.2	55.6
RA	8 - 11	LIVE	Cull	8.0	15	0	100.0	0.0	0.0
RA	8 - 11	LIVE	Domestic	9.6	30	506	3.5	933.0	107.1
RA	12 - 15	LIVE	Cull	12.6	12	0	100.0	0.0	0.0
RA	12 - 15	LIVE	Domestic	13.0	30	172	9.4	283.1	36.5
RA	16 - 19	LIVE	Domestic	16.1	30	14	10.0	19.8	3.0
RA	16 - 19	LIVE	Cull	16.4	8	0	100.0	0.0	0.0
RC	5 - 7	LIVE	Pole	5.1	23	19	0.0	33.6	4.0
RC	5 - 7	LIVE	Domestic	5.2	22	20	1.3	39.9	4.3
RC	8 - 11	LIVE	Domestic	9.5	33	64	4.8	126.9	13.5
RC	8 - 11	LIVE	Pole	10.5	34	94	0.0	141.8	19.9
RC	12 - 15	LIVE	Domestic	13.4	36	12	0.0	15.5	2.5

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
RC	12 - 15	LIVE	Pole	14.4	33	90	1.3	104.4	19.0
RC	16 - 19	LIVE	Domestic	17.0	36	92	6.2	122.9	19.4
RC	16 - 19	LIVE	Pole	17.9	33	78	0.0	82.7	16.5
RC	20+	LIVE	Cull	20.9	6	0	100.0	0.0	0.0
RC	20+	LIVE	Domestic	22.1	36	104	10.1	157.7	22.0
WH	5 - 7	LIVE	Domestic	5.9	32	133	3.4	333.9	28.1
WH	5 - 7	LIVE	Cull	7.1	9	0	100.0	0.0	0.0
WH	8 - 11	LIVE	Cull	9.6	1	0	100.0	0.0	0.0
WH	8 - 11	LIVE	Domestic	10.1	40	312	2.1	642.9	66.0
WH	12 - 15	LIVE	Domestic	13.6	40	417	5.5	750.3	88.2
WH	16 - 19	LIVE	Domestic	16.1	40	68	0.0	104.3	14.5
WH	20+	LIVE	Domestic	22.1	40	95	11.3	144.4	20.1

Unit Sale Notice Volume (MBF): JECKLE U1

				MBF Volume by Grade					
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility	
DF	20.3			2,766	2,099	546	119	2	
RA	12.1			53			51	2	
BC	19.0			38	30		8		
WH	19.6			29	23	5	0		
ALL	19.0			2,885	2,152	551	178	4	

Unit Cruise Design: JECKLE U1

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	58.0	62.6	44	25	1

Unit Cruise Summary: JECKLE U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	115	194	4.4	0
RA	10	10	0.2	0
BC	3	4	0.1	0
WH	3	3	0.1	0
ALL	131	211	4.8	0

Unit Cruise Statistics: JECKLE U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	240.0	50.9	7.7	198.7	26.9	2.5	47,688	57.6	8.1
RA	12.4	340.3	51.3	73.6	30.2	9.5	911	341.7	52.2
BC	4.9	319.9	48.2	131.3	44.4	25.6	650	322.9	54.6
WH	3.7	374.0	56.4	133.2	29.3	16.9	494	375.1	58.9
ALL	261.1	42.6	6.4	190.5	32.6	2.9	49,743	53.6	7.0

Unit Summary: JECKLE U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
ВС	LIVE	CUT	3	ALL	19.0	96	102	731	650	11.1	2.5	4.9	1.1	37.7
DF	LIVE	CUT	115	ALL	20.3	94	113	49,178	47,688	3.0	106.8	240.0	53.3	2,765.9
RA	LIVE	CUT	10	ALL	12.1	62	76	1,026	911	11.2	15.5	12.4	3.6	52.8
WH	LIVE	CUT	3	ALL	19.6	84	103	558	494	11.5	1.8	3.7	0.8	28.7
ALL	LIVE	CUT	131	ALL	19.4	90	108	51,493	49,743	3.4	126.6	261.1	58.8	2,885.1
ALL	ALL	ALL	131	ALL	19.4	90	108	51,493	49,743	3.4	126.6	261.1	58.8	2,885.1

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	ВА	RD	MBF Net
ВС	14	LIVE	CUT	1	13.0	100	100	113	31.5	1.8	1.6	0.5	6.5
BC	26	LIVE	CUT	1	26.0	96	120	303	7.7	0.4	1.6	0.3	17.5
BC	34	LIVE	CUT	1	33.0	70	86	235	1.7	0.3	1.6	0.3	13.6
DF	8	LIVE	CUT	1	8.0	72	72	191	0.0	6.0	2.1	0.7	11.1
DF	10	LIVE	CUT	3	9.6	83	83	657	0.0	12.4	6.3	2.0	38.1
DF	12	LIVE	CUT	3	11.6	83	98	886	0.0	8.5	6.3	1.8	51.4
DF	14	LIVE	CUT	8	13.6	80	98	2,138	0.0	16.6	16.7	4.5	124.0
DF	16	LIVE	CUT	6	15.3	94	110	1,858	0.3	9.8	12.5	3.2	107.8
DF	18	LIVE	CUT	8	17.6	93	110	2,432	0.4	9.9	16.7	4.0	141.1
DF	20	LIVE	CUT	9	19.4	88	110	2,756	0.6	9.1	18.8	4.3	159.9
DF	22	LIVE	CUT	4	21.7	106	136	1,657	1.4	3.2	8.3	1.8	96.1
DF	24	LIVE	CUT	9	23.5	105	134	3,714	1.5	6.2	18.8	3.9	215.4
DF	26	LIVE	CUT	8	25.5	108	138	3,393	1.9	4.7	16.7	3.3	196.8
DF	28	LIVE	CUT	8	27.6	113	145	3,781	3.9	4.0	16.7	3.2	219.3
DF	30	LIVE	CUT	7	29.1	117	151	3,609	4.5	3.2	14.6	2.7	209.3
DF	32	LIVE	CUT	16	31.4	120	154	8,239	3.6	6.2	33.4	6.0	477.9
DF	34	LIVE	CUT	7	33.4	119	153	3,549	2.0	2.4	14.6	2.5	205.8
DF	36	LIVE	CUT	9	35.7	116	149	4,443	4.3	2.7	18.8	3.1	257.7
DF	38	LIVE	CUT	4	37.5	117	151	1,939	7.6	1.1	8.3	1.4	112.5
DF	40	LIVE	CUT	2	40.0	106	135	960	5.0	0.5	4.2	0.7	55.7
DF	42	LIVE	CUT	2	42.0	129	166	910	12.8	0.4	4.2	0.6	52.8
DF	46	LIVE	CUT	1	46.0	134	173	576	10.4	0.2	2.1	0.3	33.4
RA	10	LIVE	CUT	2	9.5	56	69	149	2.9	5.1	2.5	8.0	8.7
RA	12	LIVE	CUT	2	12.0	65	76	178	5.8	3.2	2.5	0.7	10.3
RA	14	LIVE	CUT	5	13.4	65	80	542	4.3	6.3	6.2	1.7	31.4
RA	16	LIVE	CUT	1	16.0	72	90	42	64.1	0.9	1.2	0.3	2.4

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	ВА	RD	MBF Net
WH	20	LIVE	CUT	2	19.0	85	106	385	1.0	1.3	2.5	0.6	22.3
WH	22	LIVE	CUT	1	21.0	83	96	109	35.6	0.5	1.2	0.3	6.3

Unit Sale Notice Volume (MBF): JECKLE U2

					MBF	Volume	by Grad	de	
Sp	DBH	Rings/In	Age	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility
DF	20.5			2,873	47	2,101	597	119	8
WH	19.2			119		68	45	6	
RC	24.4			110			101	9	
RA	15.7			62		12	24	24	3
ВС	24.0			12		10		3	
ALL	20.3			3,176	47	2,191	767	161	11

Unit Cruise Design: JECKLE U2

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (54.44) Measure/Count Plots, Sighting Ht = 4.5 ft	61.4	63.6	44	26	0

Unit Cruise Summary: JECKLE U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	96	180	4.1	0
WH	8	11	0.3	0
RC	11	11	0.3	0
RA	8	8	0.2	0
ВС	1	1	0.0	0
ALL	124	211	4.8	0

Unit Cruise Statistics: JECKLE U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	222.7	50.8	7.7	210.1	29.0	3.0	46,786	58.5	8.2
WH	13.6	245.9	37.1	142.4	32.2	11.4	1,938	248.0	38.8
RC	13.6	274.5	41.4	131.4	30.0	9.0	1,788	276.1	42.4
RA	9.9	272.4	41.1	102.8	23.0	8.1	1,017	273.3	41.9
BC	1.2	663.3	100.0	162.3	0.0	0.0	201	663.3	100.0
ALL	261.1	46.4	7.0	198.1	33.5	3.0	51,730	57.3	7.6

Unit Summary: JECKLE U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
ВС	LIVE	CUT	1	ALL	24.0	87	108	230	201	12.5	0.4	1.2	0.3	12.3
DF	LIVE	CUT	96	ALL	20.5	89	112	48,555	46,786	3.6	97.2	222.7	49.2	2,872.6
RA	LIVE	CUT	8	ALL	15.7	67	85	1,121	1,017	9.2	7.4	9.9	2.5	62.5
RC	LIVE	CUT	11	ALL	24.4	84	98	2,000	1,788	10.6	4.2	13.6	2.8	109.8
WH	LIVE	CUT	8	ALL	19.2	80	99	2,018	1,938	4.0	6.8	13.6	3.1	119.0
ALL	LIVE	CUT	124	ALL	20.3	87	109	53,924	51,730	4.1	116.0	261.1	57.8	3,176.2
ALL	ALL	ALL	124	ALL	20.3	87	109	53,924	51,730	4.1	116.0	261.1	57.8	3,176.2

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	BA	RD	MBF Net
BC	24	LIVE	CUT	1	24.0	87	108	201	12.5	0.4	1.2	0.3	12.3
DF	8	LIVE	CUT	1	8.0	18	22	120	0.0	6.6	2.3	0.8	7.3
DF	10	LIVE	CUT	1	10.0	52	64	183	0.0	4.3	2.3	0.7	11.2
DF	12	LIVE	CUT	4	12.0	72	83	1,120	0.0	11.8	9.3	2.7	68.7
DF	14	LIVE	CUT	6	13.8	73	93	1,672	1.0	13.4	13.9	3.7	102.6
DF	16	LIVE	CUT	6	15.5	88	111	2,243	1.0	10.7	13.9	3.5	137.7
DF	18	LIVE	CUT	4	17.2	91	116	1,451	0.0	5.7	9.3	2.2	89.1
DF	20	LIVE	CUT	9	19.4	104	126	3,735	1.1	10.1	20.9	4.7	229.3
DF	22	LIVE	CUT	7	21.6	107	132	3,138	1.0	6.4	16.2	3.5	192.7
DF	24	LIVE	CUT	4	23.2	106	136	1,902	2.7	3.2	9.3	1.9	116.8
DF	26	LIVE	CUT	9	25.3	109	140	4,349	1.8	6.0	20.9	4.1	267.1
DF	28	LIVE	CUT	9	27.5	115	149	5,309	1.1	5.0	20.9	4.0	326.0
DF	30	LIVE	CUT	8	29.7	118	152	4,535	3.9	3.8	18.6	3.4	278.4
DF	32	LIVE	CUT	9	31.5	122	157	5,366	3.8	3.8	20.9	3.7	329.5
DF	34	LIVE	CUT	3	33.7	125	161	1,806	3.0	1.1	7.0	1.2	110.9
DF	36	LIVE	CUT	6	35.3	128	165	3,528	13.8	2.0	13.9	2.3	216.6
DF	38	LIVE	CUT	3	37.7	121	155	1,776	4.1	0.9	7.0	1.1	109.1
DF	40	LIVE	CUT	4	39.0	135	174	2,802	5.1	1.1	9.3	1.5	172.0
DF	44	LIVE	CUT	3	43.7	125	161	1,751	11.2	0.7	7.0	1.1	107.5
RA	12	LIVE	CUT	1	12.0	57	77	131	0.0	1.6	1.2	0.4	8.0
RA	14	LIVE	CUT	2	13.5	68	89	304	3.0	2.5	2.5	0.7	18.7
RA	18	LIVE	CUT	3	17.3	70	85	388	9.1	2.3	3.7	0.9	23.8
RA	20	LIVE	CUT	1	19.0	70	82	133	10.6	0.6	1.2	0.3	8.1
RA	24	LIVE	CUT	1	24.0	75	89	62	38.9	0.4	1.2	0.3	3.8
RC	16	LIVE	CUT	1	16.0	69	86	150	0.0	0.9	1.2	0.3	9.2
RC	20	LIVE	CUT	1	20.0	81	96	169	2.3	0.6	1.2	0.3	10.4

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	BA	RD	MBF Net
RC	22	LIVE	CUT	1	22.0	63	73	86	27.7	0.5	1.2	0.3	5.3
RC	24	LIVE	CUT	1	23.0	102	118	190	24.0	0.4	1.2	0.3	11.7
RC	26	LIVE	CUT	2	26.0	79	93	276	16.2	0.7	2.5	0.5	17.0
RC	28	LIVE	CUT	2	27.0	99	112	388	5.2	0.6	2.5	0.5	23.8
RC	34	LIVE	CUT	1	33.0	136	136	258	0.0	0.2	1.2	0.2	15.9
RC	36	LIVE	CUT	1	35.0	90	115	143	12.0	0.2	1.2	0.2	8.8
RC	40	LIVE	CUT	1	39.0	72	91	128	14.1	0.1	1.2	0.2	7.9
WH	14	LIVE	CUT	1	14.0	60	74	140	0.0	1.6	1.7	0.5	8.6
WH	16	LIVE	CUT	1	16.0	78	97	234	0.0	1.2	1.7	0.4	14.4
WH	18	LIVE	CUT	1	17.0	99	121	305	0.7	1.1	1.7	0.4	18.8
WH	20	LIVE	CUT	1	20.0	88	110	245	0.0	8.0	1.7	0.4	15.0
WH	22	LIVE	CUT	2	22.0	76	95	412	7.7	1.3	3.4	0.7	25.3
WH	24	LIVE	CUT	1	23.0	95	120	338	0.0	0.6	1.7	0.4	20.8
WH	36	LIVE	CUT	1	35.0	83	104	263	14.3	0.3	1.7	0.3	16.2

Unit Sale Notice Volume (MBF): JECKLE U3

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw				
DF	19.3			611	396	190	26				
ALL	19.3			611	396	190	26				

Unit Cruise Design: JECKLE U3

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	34.5	34.8	34	17	0

Unit Cruise Summary: JECKLE U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH		14	0.4	0
DF	29	206	6.1	0
ALL	29	220	6.5	0

Unit Cruise Statistics: JECKLE U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)		Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	19.3	190.2	32.6						
DF	284.4	35.6	6.1	197.4	21.5	4.0	56,154	41.6	7.3
ALL	303.7	34.1	5.8	197.4	21.5	4.0	59,971	40.3	7.1

Unit Summary: JECKLE U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	29	ALL	19.1	95	120	17,770	17,719	0.3	45.1	89.7	20.5	611.3
DF	LIVE	LEA	62	ALL	20.2	94	116	38,547	38,436	0.3	87.5	194.7	43.3	1,326.0
WH	LIVE	CUT	0	ALL	9.5						2.8	1.4	0.4	
WH	LIVE	LEA	7	ALL	13.9	78	90				17.0	17.9	4.8	
ALL	LIVE	CUT	29	ALL	18.7	95	120	17,770	17,719	0.3	47.9	91.1	21.0	611.3
ALL	LIVE	LEA	69	ALL	19.3	91	112	38,547	38,436	0.3	104.5	212.6	48.1	1,326.0

Sp	Status	Rx	N	D	DBH	BL	THT		BF Net	Defect %	TPA	ВА	RD	MBF Net
ALL	ALL	ALL	98	ALL	19.1	92	114	56,317	56,154	0.3	152.4	303.7	69.1	1,937.3

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	12	LIVE	CUT	4	11.8	61	75	815	0.2	7.2	5.5	1.6	28.1
DF	14	LIVE	CUT	5	13.9	84	107	1,286	0.2	6.6	6.9	1.9	44.4
DF	16	LIVE	CUT	7	16.2	90	114	1,766	0.2	6.8	9.7	2.4	60.9
DF	18	LIVE	CUT	7	17.8	99	126	1,755	0.6	5.6	9.7	2.3	60.6
DF	20	LIVE	CUT	10	20.1	104	132	2,694	0.3	6.3	13.8	3.1	93.0
DF	22	LIVE	CUT	8	21.6	111	143	2,348	0.1	4.4	11.0	2.4	81.0
DF	24	LIVE	CUT	6	24.1	120	144	1,754	0.1	2.6	8.3	1.7	60.5
DF	26	LIVE	CUT	4	26.5	112	144	1,253	0.1	1.4	5.5	1.1	43.2
DF	28	LIVE	CUT	7	27.7	119	153	2,022	0.2	2.3	9.7	1.8	69.8
DF	30	LIVE	CUT	3	30.3	116	149	935	1.2	8.0	4.1	8.0	32.2
DF	32	LIVE	CUT	3	32.2			818	0.3	0.7	4.1	0.7	28.2
DF	34	LIVE	CUT	1	33.2			273	0.3	0.2	1.4	0.2	9.4
DF	8	LIVE	LEA	1	8.7	46	56	117	0.0	3.3	1.4	0.5	4.1
DF	10	LIVE	LEA	1	9.8			274	0.3	2.6	1.4	0.4	9.4
DF	12	LIVE	LEA	4	11.9	70	88	999	0.2	7.1	5.5	1.6	34.5
DF	14	LIVE	LEA	13	13.6	89	105	3,025	0.6	17.8	17.9	4.9	104.4
DF	16	LIVE	LEA	15	16.1	92	118	3,759	0.5	14.7	20.7	5.2	129.7
DF	18	LIVE	LEA	11	17.7	101	121	2,843	0.2	8.9	15.2	3.6	98.1
DF	20	LIVE	LEA	16	19.7	102	125	4,225	0.2	10.4	22.1	5.0	145.8
DF	22	LIVE	LEA	5	21.9	105	134	1,384	0.1	2.6	6.9	1.5	47.7
DF	24	LIVE	LEA	10	23.6	100	128	2,695	0.9	4.5	13.8	2.8	93.0
DF	26	LIVE	LEA	8	26.1	113	145	2,390	1.3	3.0	11.0	2.2	82.5
DF	28	LIVE	LEA	9	28.3	115	148	2,360	3.9	2.8	12.4	2.3	81.4
DF	30	LIVE	LEA	7	30.1	113	146	1,868	2.0	1.9	9.7	1.8	64.5
DF	32	LIVE	LEA	9	31.9	118	152	2,521	0.8	2.2	12.4	2.2	87.0
DF	34	LIVE	LEA	4	33.6	124	159	1,312	0.1	0.9	5.5	1.0	45.3
DF	36	LIVE	LEA	5	35.8	118	152	1,430	1.5	1.0	6.9	1.2	49.3
DF	38	LIVE	LEA	8	37.9	129	166	2,527	2.0	1.4	11.0	1.8	87.2
DF	40	LIVE	LEA	9	39.9	131	169	2,969	1.1	1.4	12.4	2.0	102.4
DF	42	LIVE	LEA	3	41.8	120	155	917	0.2	0.4	4.1	0.6	31.6
DF	44	LIVE	LEA	1	43.0			273	0.3	0.1	1.4	0.2	9.4
DF	48	LIVE	LEA	1	48.9			274	0.3	0.1	1.4	0.2	9.4
DF	50	LIVE	LEA	1	49.0			273	0.3	0.1	1.4	0.2	9.4

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	ВА	RD	MBF Net
WH	10	LIVE	CUT	1	9.5					2.8	1.4	0.4	_
WH	8	LIVE	LEA	1	7.9					4.1	1.4	0.5	
WH	10	LIVE	LEA	3	9.7	72	79			8.0	4.1	1.3	
WH	14	LIVE	LEA	1	13.9					1.3	1.4	0.4	
WH	16	LIVE	LEA	1	15.6	75	94			1.0	1.4	0.3	
WH	22	LIVE	LEA	1	21.8	87	109			0.5	1.4	0.3	
WH	24	LIVE	LEA	2	23.5	98	124			0.9	2.8	0.6	
WH	26	LIVE	LEA	1	26.8					0.4	1.4	0.3	
WH	28	LIVE	LEA	2	27.5	102	129			0.7	2.8	0.5	
WH	42	LIVE	LEA	1	41.4	165	165			0.1	1.4	0.2	

Unit Sale Notice Volume (MBF): JECKLE U4

				MBF Volume by Grade								
Sp	DBH	Rings/In	Age	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility			
DF	24.8			343	7	281	47	6	1			
WH	16.6			19			15	3				
RA	11.8			6				6				
ALL	22.7			367	7	281	62	15	1			

Unit Cruise Design: JECKLE U4

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft	39.9	39.9	39	20	0

Unit Cruise Summary: JECKLE U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
GF		1	0.0	0
BC		3	0.1	0
RC		23	0.6	0
DF	32	177	4.5	0
WH	3	20	0.5	0
RA	1	13	0.3	0
ALL	36	237	6.1	0

Unit Cruise Statistics: JECKLE U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
GF	1.2	624.5	100.0						
BC	3.6	460.5	73.7						
RC	27.7	219.1	35.1						
DF	213.0	54.9	8.8	223.3	25.5	4.5	47,560	60.5	9.9
WH	24.1	160.5	25.7	130.1	22.5	13.0	3,131	162.1	28.8
RA	15.6	286.5	45.9	115.9	0.0	0.0	1,813	286.5	45.9
ALL	285.3	39.1	6.3	207.7	29.9	5.0	59,255	49.3	8.0

Unit Summary: JECKLE U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
ВС	LIVE	LEA	3	ALL	30.5	94	118				0.7	3.6	0.7	
DF	LIVE	CUT	32	ALL	24.8	105	136	9,115	8,598	5.7	11.5	38.5	7.7	343.1
DF	LIVE	LEA	76	ALL	24.9	102	136	41,303	38,962	5.7	51.6	174.5	35.0	1,554.6
GF	LIVE	LEA	1	ALL	34.1	115	149				0.2	1.2	0.2	
RA	LIVE	CUT	1	ALL	11.8	70	101	151	139	7.4	1.6	1.2	0.4	5.6
RA	LIVE	LEA	10	ALL	14.6	76	99	1,807	1,674	7.4	12.4	14.4	3.8	66.8
RC	LIVE	LEA	11	ALL	21.0	78	99				11.5	27.7	6.0	
WH	LIVE	CUT	3	ALL	16.6	74	90	487	470	3.6	2.4	3.6	0.9	18.7
WH	LIVE	LEA	6	ALL	16.7	69	89	2,761	2,662	3.6	13.5	20.5	5.0	106.2
ALL	LIVE	LEA	107	ALL	22.2	91	119	45,871	43,297	5.6	89.9	241.9	50.7	1,727.6
ALL	LIVE	CUT	36	ALL	22.7	97	125	9,753	9,208	5.6	15.5	43.3	9.0	367.4
ALL	ALL	ALL	143	ALL	22.3	92	120	55,624	52,505	5.6	105.4	285.3	59.6	2,094.9

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	ВА	RD	MBF Net
ВС	28	LIVE	LEA	1	27.4	104	131			0.3	1.2	0.2	
BC	32	LIVE	LEA	1	31.4	90	113			0.2	1.2	0.2	
BC	34	LIVE	LEA	1	33.6	84	105			0.2	1.2	0.2	
DF	12	LIVE	CUT	1	12.4	82	117	188	0.0	1.4	1.2	0.3	7.5
DF	14	LIVE	CUT	1	14.4	95	126	204	0.0	1.1	1.2	0.3	8.2
DF	16	LIVE	CUT	1	16.7	101	127	209	2.6	8.0	1.2	0.3	8.3
DF	18	LIVE	CUT	2	18.0	105	131	422	0.5	1.4	2.4	0.6	16.8
DF	20	LIVE	CUT	1	20.4	103	132	221	2.6	0.5	1.2	0.3	8.8
DF	22	LIVE	CUT	2	21.8	103	132	398	4.2	0.9	2.4	0.5	15.9
DF	24	LIVE	CUT	2	24.1	80	101	307	1.4	0.8	2.4	0.5	12.2
DF	26	LIVE	CUT	2	25.2	129	166	589	1.8	0.7	2.4	0.5	23.5
DF	28	LIVE	CUT	3	27.5	112	144	804	5.7	0.9	3.6	0.7	32.1
DF	30	LIVE	CUT	5	30.5	124	159	1,603	3.7	1.2	6.0	1.1	64.0
DF	34	LIVE	CUT	1	33.7	120	154	276	12.1	0.2	1.2	0.2	11.0
DF	36	LIVE	CUT	5	35.6	114	147	1,463	7.6	0.9	6.0	1.0	58.4
DF	38	LIVE	CUT	2	37.1	118	151	635	6.7	0.3	2.4	0.4	25.3
DF	40	LIVE	CUT	2	40.1	121	155	608	8.8	0.3	2.4	0.4	24.3
DF	42	LIVE	CUT	1	42.8	145	187	377	12.6	0.1	1.2	0.2	15.1
DF	44	LIVE	CUT	1	43.7	113	145	295	12.8	0.1	1.2	0.2	11.8
DF	8	LIVE	LEA	1	8.3	41	83	133	0.0	3.2	1.2	0.4	5.3
DF	12	LIVE	LEA	2	12.7	79	114	431	3.5	2.7	2.4	0.7	17.2

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	14	LIVE	LEA	3	14.0			518	5.7	3.4	3.6	1.0	20.7
DF	16	LIVE	LEA	2	15.1			518	5.7	1.9	2.4	0.6	20.7
DF	18	LIVE	LEA	6	18.3	94	119	1,301	3.8	4.0	7.2	1.7	51.9
DF	20	LIVE	LEA	4	19.7	94	117	861	4.1	2.3	4.8	1.1	34.3
DF	22	LIVE	LEA	9	21.9	106	135	2,182	1.7	4.1	10.8	2.3	87.0
DF	24	LIVE	LEA	13	23.8	108	139	3,224	2.4	5.1	15.6	3.2	128.6
DF	26	LIVE	LEA	17	25.8	118	152	4,606	2.6	5.6	20.5	4.0	183.8
DF	28	LIVE	LEA	14	28.0	115	147	3,751	2.8	3.9	16.9	3.2	149.7
DF	30	LIVE	LEA	23	30.1	119	153	6,423	3.1	5.6	27.7	5.0	256.3
DF	32	LIVE	LEA	22	31.9	123	158	6,288	2.9	4.8	26.5	4.7	250.9
DF	34	LIVE	LEA	16	33.9	123	158	4,625	3.3	3.1	19.3	3.3	184.5
DF	36	LIVE	LEA	3	36.2	124	160	1,006	0.4	0.5	3.6	0.6	40.1
DF	38	LIVE	LEA	9	37.5	127	164	2,836	5.1	1.4	10.8	1.8	113.2
DF	40	LIVE	LEA	1	39.0			259	5.7	0.1	1.2	0.2	10.3
GF	34	LIVE	LEA	1	34.1	115	149			0.2	1.2	0.2	
RA	12	LIVE	CUT	1	11.8	70	101	139	7.4	1.6	1.2	0.4	5.6
RA	12	LIVE	LEA	2	11.8	70	103	267	3.7	3.2	2.4	0.7	10.7
RA	14	LIVE	LEA	4	13.9	79	103	584	9.9	4.6	4.8	1.3	23.3
RA	16	LIVE	LEA	3	16.0	77	94	419	6.1	2.6	3.6	0.9	16.7
RA	18	LIVE	LEA	3	17.5	77	92	404	5.9	2.2	3.6	0.9	16.1
RC	14	LIVE	LEA	3	13.6					3.6	3.6	1.0	
RC	16	LIVE	LEA	2	16.1	80	100			1.7	2.4	0.6	
RC	18	LIVE	LEA	3	17.6	70	88			2.1	3.6	0.9	
RC	20	LIVE	LEA	1	19.9	80	96			0.6	1.2	0.3	
RC	22	LIVE	LEA	2	21.9	93	119			0.9	2.4	0.5	
RC	24	LIVE	LEA	1	23.4					0.4	1.2	0.2	
RC	28	LIVE	LEA	1	28.1					0.3	1.2	0.2	
RC	30	LIVE	LEA	2	30.2	93	119			0.5	2.4	0.4	
RC	32	LIVE	LEA	2	32.6					0.4	2.4	0.4	
RC	34	LIVE	LEA	4	33.9	92	118			8.0	4.8	8.0	
RC	36	LIVE	LEA	2	35.7	89	114			0.3	2.4	0.4	
WH	16	LIVE	CUT	2	15.9	78	95	353	0.0	1.7	2.4	0.6	14.1
WH	18	LIVE	CUT	1	18.4	66	78	117	13.1	0.7	1.2	0.3	4.7
WH	8	LIVE	LEA	1	8.1			136	3.6	3.4	1.2	0.4	5.4
WH	12	LIVE	LEA	1	11.5	49	65	91	0.0	1.7	1.2	0.4	3.6
WH	14	LIVE	LEA	1	13.3	60	76	116	0.0	1.2	1.2	0.3	4.6
WH	16	LIVE	LEA	3	16.3			408	3.6	2.5	3.6	0.9	16.3
WH	18	LIVE	LEA	2	18.2			272	3.6	1.3	2.4	0.6	10.9

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	ВА	RD	MBF Net
WH	20	LIVE	LEA	3	19.4	92	115	453	2.2	1.8	3.6	0.8	18.1
WH	24	LIVE	LEA	1	23.3	101	127	237	0.0	0.4	1.2	0.2	9.4
WH	26	LIVE	LEA	1	25.9	100	126	250	0.0	0.3	1.2	0.2	10.0
WH	28	LIVE	LEA	1	28.0			136	3.6	0.3	1.2	0.2	5.4
WH	30	LIVE	LEA	1	30.7	109	138	291	0.0	0.2	1.2	0.2	11.6
WH	32	LIVE	LEA	1	31.3			136	3.6	0.2	1.2	0.2	5.4
WH	40	LIVE	LEA	1	40.4			136	3.6	0.1	1.2	0.2	5.4

Unit Sale Notice Volume (MBF): JECKLE U5

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw				
RA	16.1			61	21	21	19				
DF	18.8			17	13	4	1				
WH	19.0			8	6	1	1				
ALL	16.6			86	40	26	20				

Unit Cruise Design: JECKLE U5

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft	5.2	5.2	7	7	0

Unit Cruise Summary: JECKLE U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
RA	19	19	2.7	0
DF	3	3	0.4	0
WH	2	2	0.3	0
ALL	24	24	3.4	0

Unit Cruise Statistics: JECKLE U5

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
RA	108.6	75.8	28.7	107.6	27.3	6.3	11,681	80.6	29.3
DF	17.1	183.6	69.4	195.2	35.1	20.3	3,346	186.9	72.3
WH	11.4	264.6	100.0	131.8	16.6	11.8	1,507	265.1	100.7
ALL	137.1	47.2	17.8	120.6	36.9	7.5	16,534	59.9	19.4

Unit Summary: JECKLE U5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	3	ALL	18.8	78	103	3,431	3,346	2.5	8.9	17.1	4.0	17.4
RA	LIVE	CUT	19	ALL	16.1	65	83	13,128	11,681	11.0	76.8	108.6	27.1	60.7
WH	LIVE	CUT	2	ALL	19.0	85	101	1,579	1,507	4.6	5.8	11.4	2.6	7.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
ALL	LIVE	CUT	24	ALL	16.6	68	86	18,138	16,534	8.8	91.5	137.1	33.6	86.0
ALL	ALL	ALL	24	ALL	16.6	68	86	18,138	16,534	8.8	91.5	137.1	33.6	86.0

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	14	LIVE	CUT	1	13.0	63	86	663	2.7	6.2	5.7	1.6	3.4
DF	28	LIVE	CUT	1	27.0	113	145	1,354	0.0	1.4	5.7	1.1	7.0
DF	30	LIVE	CUT	1	29.0	110	141	1,329	4.7	1.2	5.7	1.1	6.9
RA	14	LIVE	CUT	4	13.2	56	82	2,476	8.5	23.9	22.9	6.3	12.9
RA	16	LIVE	CUT	5	15.4	71	89	3,358	9.4	22.2	28.6	7.3	17.5
RA	18	LIVE	CUT	5	17.4	69	82	2,910	13.2	17.3	28.6	6.9	15.1
RA	20	LIVE	CUT	3	19.0	66	77	1,559	13.8	8.7	17.1	3.9	8.1
RA	22	LIVE	CUT	2	22.0	68	81	1,379	11.5	4.3	11.4	2.4	7.2
WH	20	LIVE	CUT	2	19.0	85	101	1,507	4.6	5.8	11.4	2.6	7.8

Unit Sale Notice Volume (MBF): JECKLE U6

				MBF Volume by Grade								
Sp	DBH	Rings/In	Age	All	Spec Mill	2 Saw	3 Saw	4 Saw	Utility			
DF	18.2			325	7	178	120	17	3			
WH	20.0			42		25	16	1				
RA	15.2			16		4	4	8				
RC	15.9			11			9	2				
ALL	18.0			395	7	208	149	29	3			

Unit Cruise Design: JECKLE U6

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1: VR, 1 BAF (54.44) Measure All, Sighting Ht = 4.5 ft	8.3	10.6	10	10	0

Unit Cruise Summary: JECKLE U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	39	39	3.9	0
WH	5	5	0.5	0
RA	3	3	0.3	0
RC	3	3	0.3	0
ALL	50	50	5.0	0

Unit Cruise Statistics: JECKLE U6

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	212.3	45.9	14.5	184.6	28.7	4.6	39,189	54.2	15.2
WH	27.2	170.0	53.7	187.0	9.8	4.4	5,090	170.3	53.9
RA	16.3	161.0	50.9	121.4	10.5	6.1	1,983	161.4	51.3
RC	16.3	161.0	50.9	83.4	23.0	13.3	1,362	162.6	52.6
ALL	272.2	34.0	10.7	175.0	31.3	4.4	47,624	46.2	11.6

Unit Summary: JECKLE U6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	39	ALL	18.2	86	118	40,554	39,189	3.4	117.5	212.3	49.8	325.3
RA	LIVE	CUT	3	ALL	15.2	72	92	2,176	1,983	8.9	13.0	16.3	4.2	16.5
RC	LIVE	CUT	3	ALL	15.9	57	72	1,362	1,362	0.0	11.8	16.3	4.1	11.3
WH	LIVE	CUT	5	ALL	20.0	96	120	5,162	5,090	1.4	12.5	27.2	6.1	42.3
ALL	LIVE	CUT	50	ALL	18.0	84	112	49,255	47,624	3.3	154.8	272.2	64.1	395.3
ALL	ALL	ALL	50	ALL	18.0	84	112	49,255	47,624	3.3	154.8	272.2	64.1	395.3

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	12	LIVE	CUT	4	11.5	73	108	3,213	2.9	30.4	21.8	6.4	26.7
DF	14	LIVE	CUT	2	13.0	73	103	1,276	4.8	11.8	10.9	3.0	10.6
DF	16	LIVE	CUT	9	15.6	86	116	7,708	1.9	36.7	49.0	12.4	64.0
DF	18	LIVE	CUT	1	17.0	99	126	929	0.0	3.5	5.4	1.3	7.7
DF	20	LIVE	CUT	5	19.8	97	122	4,550	1.6	12.7	27.2	6.1	37.8
DF	22	LIVE	CUT	3	21.3	88	134	2,791	3.0	6.6	16.3	3.5	23.2
DF	24	LIVE	CUT	2	24.0	98	126	1,977	3.3	3.5	10.9	2.2	16.4
DF	26	LIVE	CUT	1	26.0	112	144	1,223	0.0	1.5	5.4	1.1	10.2
DF	28	LIVE	CUT	1	28.0	112	144	1,300	3.3	1.3	5.4	1.0	10.8
DF	30	LIVE	CUT	1	30.0	112	144	1,262	4.0	1.1	5.4	1.0	10.5
DF	32	LIVE	CUT	1	32.0	125	161	1,372	3.1	1.0	5.4	1.0	11.4
DF	34	LIVE	CUT	5	33.4	107	137	5,848	6.1	4.5	27.2	4.7	48.5
DF	36	LIVE	CUT	1	36.0	120	155	1,406	4.5	8.0	5.4	0.9	11.7
DF	38	LIVE	CUT	1	37.0	126	162	1,532	2.4	0.7	5.4	0.9	12.7
DF	40	LIVE	CUT	1	39.0	124	160	1,631	0.0	0.7	5.4	0.9	13.5
DF	44	LIVE	CUT	1	43.0	106	136	1,171	14.6	0.5	5.4	8.0	9.7
RA	14	LIVE	CUT	1	13.0	79	104	709	12.4	5.9	5.4	1.5	5.9
RA	16	LIVE	CUT	1	16.0	64	77	581	5.1	3.9	5.4	1.4	4.8
RA	18	LIVE	CUT	1	18.0	70	87	693	8.2	3.1	5.4	1.3	5.8
RC	16	LIVE	CUT	2	15.5	56	72	930	0.0	8.3	10.9	2.8	7.7
RC	18	LIVE	CUT	1	17.0	58	72	432	0.0	3.5	5.4	1.3	3.6
WH	18	LIVE	CUT	2	17.5	104	129	2,100	0.9	6.5	10.9	2.6	17.4
WH	20	LIVE	CUT	1	20.0	87	109	933	0.0	2.5	5.4	1.2	7.7
WH	22	LIVE	CUT	1	21.0	92	116	1,066	2.7	2.3	5.4	1.2	8.8
WH	30	LIVE	CUT	1	29.0	84	105	991	2.3	1.2	5.4	1.0	8.2

Unit Sale Notice Volume (MBF): JECKLE U6b

				MBF Volume by Grad					
Sp	DBH	Rings/In	Age	All	4 Saw				
DF	8.1			2	2				
RA	12.0			0	0				
ALL	8.4			2	2				

Unit Cruise Design: JECKLE U6b

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
ST: Strip/Percent Sample (1 tree expansion)	2.3		1	1	0

Unit Cruise Summary: JECKLE U6b

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	3	92	92.0	0
RA	1	6	6.0	0
ALL	4	98	98.0	0

Unit Cruise Statistics: JECKLE U6b

Sp	BA (sq ft/acre)	BA CV (%)			V-BAR CV (%)		Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	14.4	0.0	0.0	59.6	4.3	2.5	858	4.3	2.5
RA	2.0	0.0	0.0	54.4	0.0	0.0	111	0.0	0.0
ALL	16.4	0.0	0.0	58.9	6.2	3.1	969	6.2	3.1

Unit Summary: JECKLE U6b

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	3	ALL	8.1	29	51	858	858	0.0	40.2	14.4	5.1	2.0
RA	LIVE	CUT	1	ALL	12.0	59	79	111	111	0.0	2.6	2.0	0.6	0.3
ALL	LIVE	CUT	4	ALL	8.4	31	53	969	969	0.0	42.8	16.4	5.6	2.2
ALL	ALL	ALL	4	ALL	8.4	31	53	969	969	0.0	42.8	16.4	5.6	2.2

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	8	LIVE	CUT	2	7.6	26	48	624	0.0	32.8	10.3	3.7	1.4
DF	10	LIVE	CUT	1	10.0	42	64	234	0.0	7.5	4.1	1.3	0.5
RA	12	LIVE	CUT	1	12.0	59	79	111	0.0	2.6	2.0	0.6	0.3

Cruise Unit Report JECKLE U7

Unit Sale Notice Volume (MBF): JECKLE U7

				MBF Volume by Grade								
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	Utility				
DF	19.3			29	19	9	1	0				
RA	16.3			7	3	2	2					
ALL	18.5			36	21	12	2	0				

Unit Cruise Design: JECKLE U7

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
B1: VR, 1 BAF (54.44) Measure All, Sighting Ht = 4.5 ft	1.0	0.9	2	2	0

Unit Cruise Summary: JECKLE U7

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	7	7	3.5	0
RA	2	2	1.0	0
ALL	9	9	4.5	0

Unit Cruise Statistics: JECKLE U7

Sp	BA (sq ft/acre)				V-BAR CV (%)		Net Vol (bf/acre)		Vol SE (%)
DF	190.5	20.2	14.3	153.5	8.7	3.3	29,244	22.0	14.7
RA	54.4	141.4	100.0	119.8	11.6	8.2	6,522	141.9	100.3
ALL	245.0	47.1	33.3	146.0	13.3	4.4	35,766	49.0	33.6

Unit Summary: JECKLE U7

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	ВА	RD	MBF Net
DF	LIVE	CUT	7	ALL	19.3	91	116	30,429	29,244	3.9	93.8	190.5	43.4	29.2
RA	LIVE	CUT	2	ALL	16.3	69	85	6,912	6,522	5.6	37.6	54.4	13.5	6.5
ALL	LIVE	CUT	9	ALL	18.5	85	107	37,341	35,766	4.2	131.4	245.0	56.9	35.8
ALL	ALL	ALL	9	ALL	18.5	85	107	37,341	35,766	4.2	131.4	245.0	56.9	35.8

Unit Stand Table: JECKLE U7

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	16	LIVE	CUT	1	16.0	85	108	3,802	0.5	19.5	27.2	6.8	3.8
DF	18	LIVE	CUT	1	18.0	95	116	4,144	4.3	15.4	27.2	6.4	4.1
DF	20	LIVE	CUT	3	19.6	92	117	12,275	5.4	38.8	81.7	18.4	12.3
DF	22	LIVE	CUT	1	21.0	93	119	4,119	5.7	11.3	27.2	5.9	4.1
DF	24	LIVE	CUT	1	24.0	95	121	4,904	0.7	8.7	27.2	5.6	4.9
RA	16	LIVE	CUT	1	15.0	64	79	2,994	2.2	22.2	27.2	7.0	3.0
RA	18	LIVE	CUT	1	18.0	75	93	3,528	8.4	15.4	27.2	6.4	3.5

Cruise Unit Report JECKLE U8

Unit Sale Notice Volume (MBF): JECKLE U8

				MBF Volume by Grade							
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw				
DF	13.1			8	1	6	1				
BC	12.8			2	2						
RA	10.0			2		0	2				
WH	14.0			0		0	0				
MA	10.0			0			0				
ALL	12.1			12	3	6	3				

Unit Cruise Design: JECKLE U8

Design	Cruise	FMA	N	N Cruise	N Void
	Acres	Acres	Plots	Plots	Plots
ST: Strip/Percent Sample (1 tree expansion)	0.9	2.1	1	1	0

Unit Cruise Summary: JECKLE U8

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	4	71	71.0	0
ВС	2	27	27.0	0
RA	3	50	50.0	0
WH	1	3	3.0	0
MA	1	1	1.0	0
ALL	11	152	152.0	0

Unit Cruise Statistics: JECKLE U8

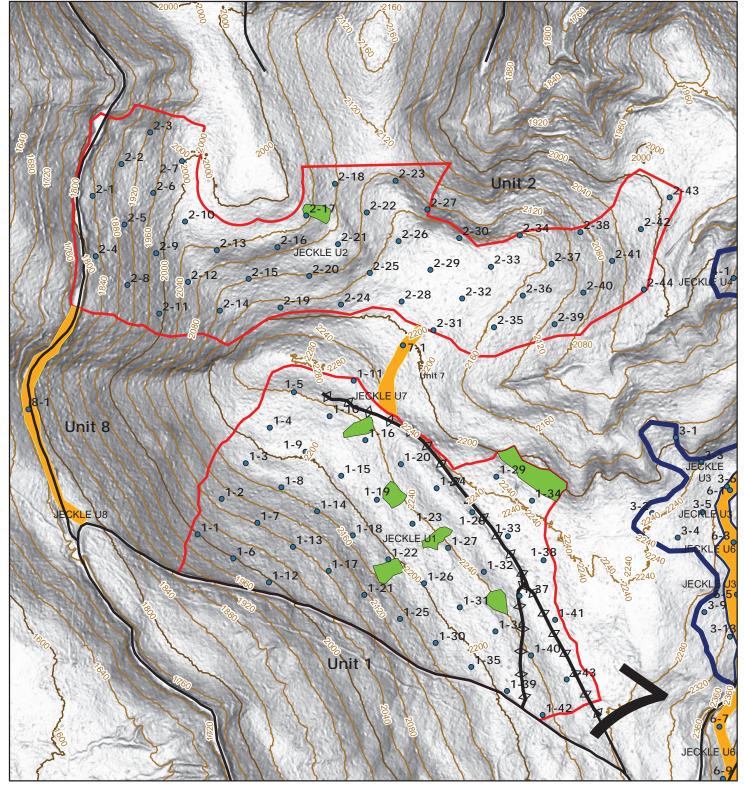
Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	73.5	0.0	0.0	113.8	28.9	14.5	8,365	28.9	14.5
BC	26.8	0.0	0.0	94.2	31.3	22.2	2,525	31.3	22.2
RA	30.2	0.0	0.0	77.2	28.5	16.5	2,330	28.5	16.5
WH	3.6	0.0	0.0	125.9	0.0	0.0	450	0.0	0.0
MA	0.6	0.0	0.0	67.3	0.0	0.0	41	0.0	0.0
ALL	134.7	0.0	0.0	101.8	28.1	8.5	13,711	28.1	8.5

Unit Summary: JECKLE U8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
ВС	LIVE	CUT	2	ALL	12.8	72	90	2,525	2,525	0.0	30.0	26.8	7.5	2.3
DF	LIVE	CUT	4	ALL	13.1	63	78	8,392	8,365	0.3	78.5	73.5	20.3	7.5
MA	LIVE	CUT	1	ALL	10.0	55	66	41	41	0.0	1.1	0.6	0.2	0.0
RA	LIVE	CUT	3	ALL	10.0	56	68	2,330	2,330	0.0	55.3	30.2	9.5	2.1
WH	LIVE	CUT	1	ALL	14.0	70	87	470	450	4.3	3.3	3.6	1.0	0.4
ALL	LIVE	CUT	11	ALL	12.1	62	77	13,757	13,711	0.3	168.2	134.7	38.5	12.3
ALL	ALL	ALL	11	ALL	12.1	62	77	13,757	13,711	0.3	168.2	134.7	38.5	12.3

Unit Stand Table: JECKLE U8

Sp	D	Status	Rx	N	DBH	BL	THT	BF Net	Defect %	TPA	BA	RD	MBF Net
ВС	10	LIVE	CUT	1	10.0	64	79	657	0.0	17.9	9.8	3.1	0.6
BC	16	LIVE	CUT	1	16.0	84	105	1,868	0.0	12.2	17.1	4.3	1.7
DF	8	LIVE	CUT	1	8.0	42	51	404	0.0	15.6	5.5	1.9	0.4
DF	12	LIVE	CUT	1	12.0	61	76	2,797	0.0	38.8	30.5	8.8	2.5
DF	16	LIVE	CUT	1	16.0	77	97	3,796	0.0	20.0	27.9	7.0	3.4
DF	20	LIVE	CUT	1	20.0	89	113	1,368	1.9	4.4	9.7	2.2	1.2
MA	10	LIVE	CUT	1	10.0	55	66	41	0.0	1.1	0.6	0.2	0.0
RA	8	LIVE	CUT	1	8.0	50	61	888	0.0	35.8	12.5	4.4	0.8
RA	12	LIVE	CUT	1	12.0	64	79	932	0.0	16.6	13.1	3.8	0.8
RA	16	LIVE	CUT	1	16.0	73	90	509	0.0	3.3	4.7	1.2	0.5
WH	14	LIVE	CUT	1	14.0	70	87	450	4.3	3.3	3.6	1.0	0.4

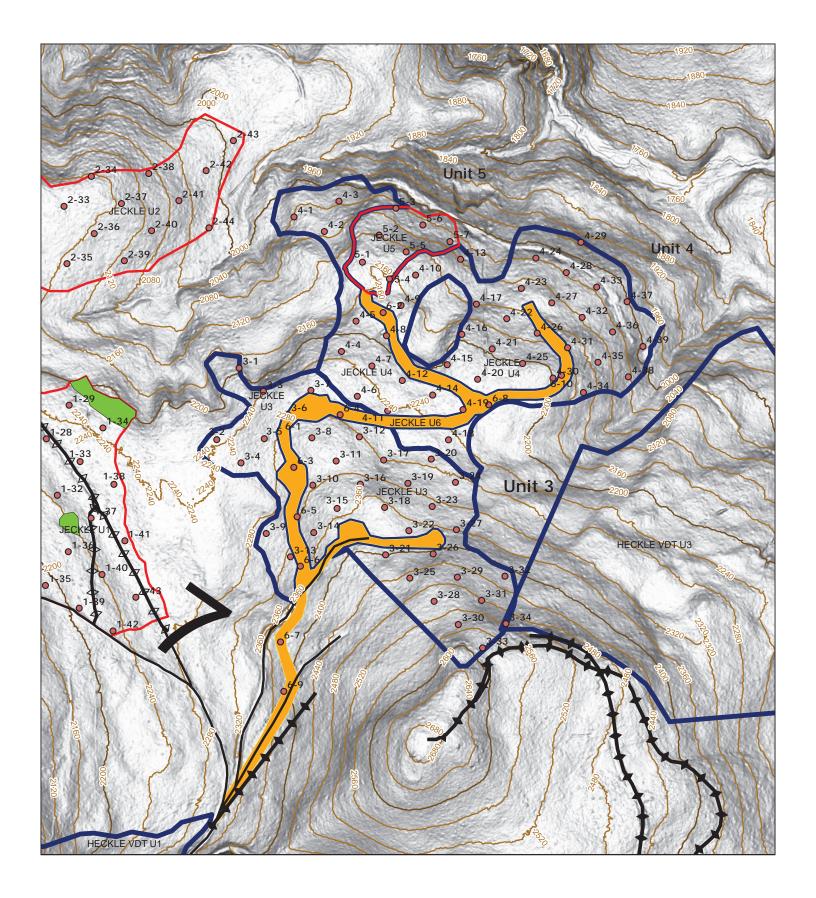


Legend

- plots
- leave tree areas

Planned Harvest

- Variable Retention Harvest
- Land Use Conversion
- Variable Density
 Thinning





Forest Practices Application/Notification Notice of Decision

Z4Z4U4 I
8/19/2024
8/19/2027
657

EARR Tax Credit: ⊠ Eligible □ Non-eligible

Reference: JECKLE VRH & VDT

30-104866

Destates			
<u>Decision</u>			
☐ Notification Accepted	Operations shall not begin before the effective date.		
	This Forest Practices Application is subject to the conditions listed below.		
☐ Disapproved	This Forest Practices Application is disapproved for the reasons listed below.		
☐ Withdrawn	Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).		
☐ Closed	All forest practices obligations are met.		
FPA/N Classification ☐ Class II ⊠ Class III	Number of Years Granted on Multi-Year Request ☐ Class IVS ☐ 4 years ☐ 5 years		
Conditions on Approval/Re	easons for Disapproval		
Issued By: Erica Christie	-Jones Region: South Puget Sound Region		
Title: Resource Protection	on Forester Date: 8/19/2024		
Copies to:	ndowner, Timber Owner, and Operator		
Issued in person: ⊠ LO	☑ TO ☑ OP By:		

Appeal Information

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

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources South Puget Sound Region
Physical Address 1111 Israel Road SW Suite 301 Tumwater, WA 98501	Physical Address 1125 Washington Street, SE Olympia, WA 98504	Physical Address 950 Farman Ave N Enumclaw, WA 98022
Mailing address Post Office Box 40903 Olympia, WA 98504-0903	Mailing Address Post Office Box 40100 Olympia, WA 98504-0100	Mailing Address 950 Farman Ave N Enumclaw, WA 98022

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

Other Applicable Laws

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

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

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

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

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

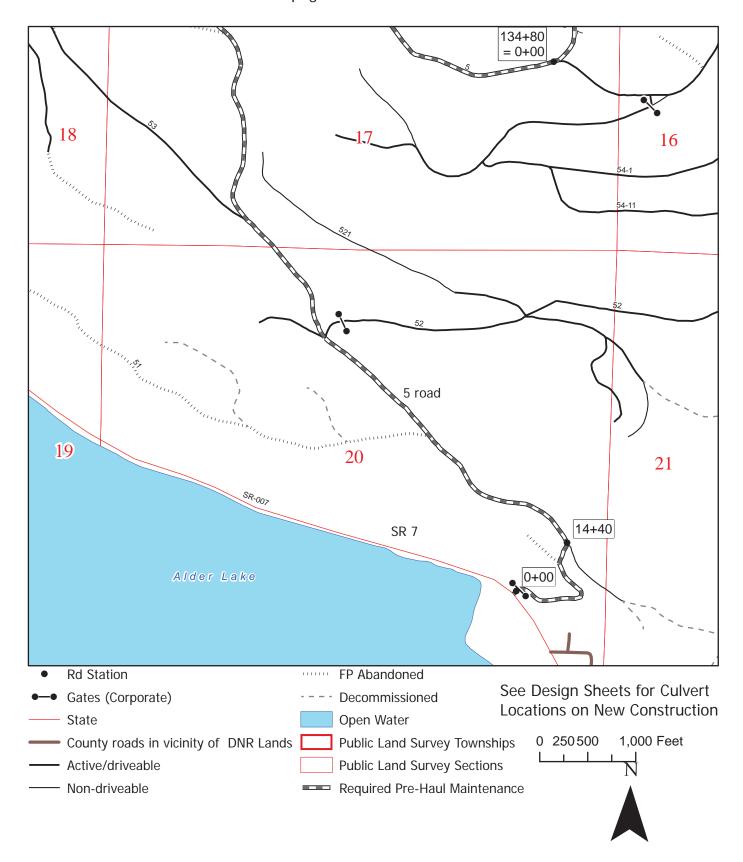
If the seller fails to notify the buyer about the continuing forestland obligation, the seller must pay the buyer's costs related to continuing forestland obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forestland obligation against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

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

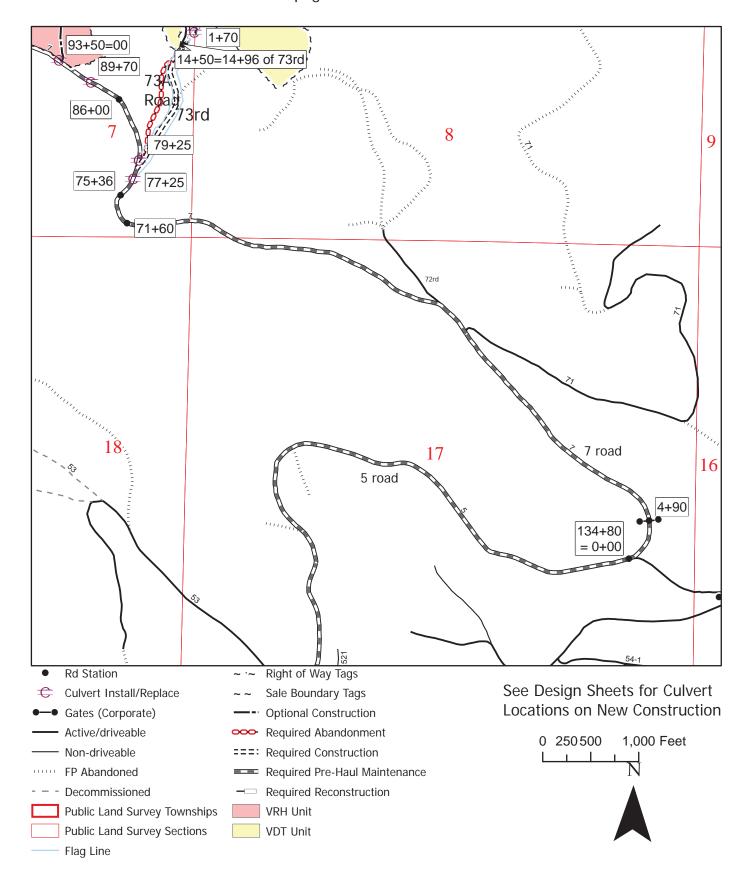
DNR Declaration of Mailing

	, caused the Notice of Decision for FPA/N No. <u>24:</u> stage paid. I declare under penalty of perjury of the decision of the correct.	· · · · · · · · · · · · · · · · · · ·
8/19/2024	Enumclaw, WA	(Circustura)
(Date)	(City & State where signed)	(Signature)

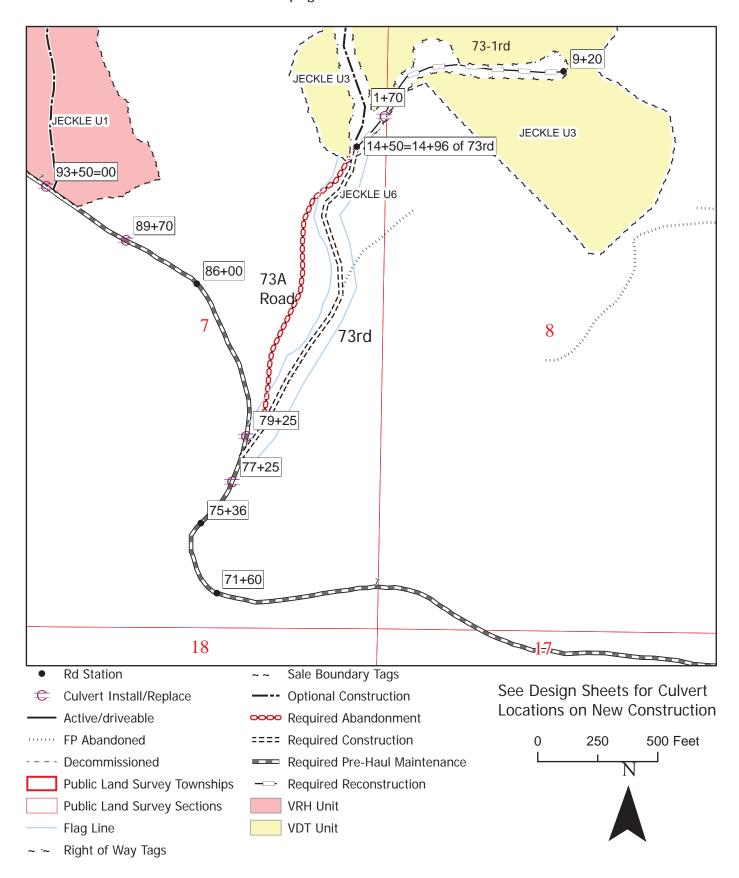
Jeckle VRH & VDT Road Work Maps page 1 of 8



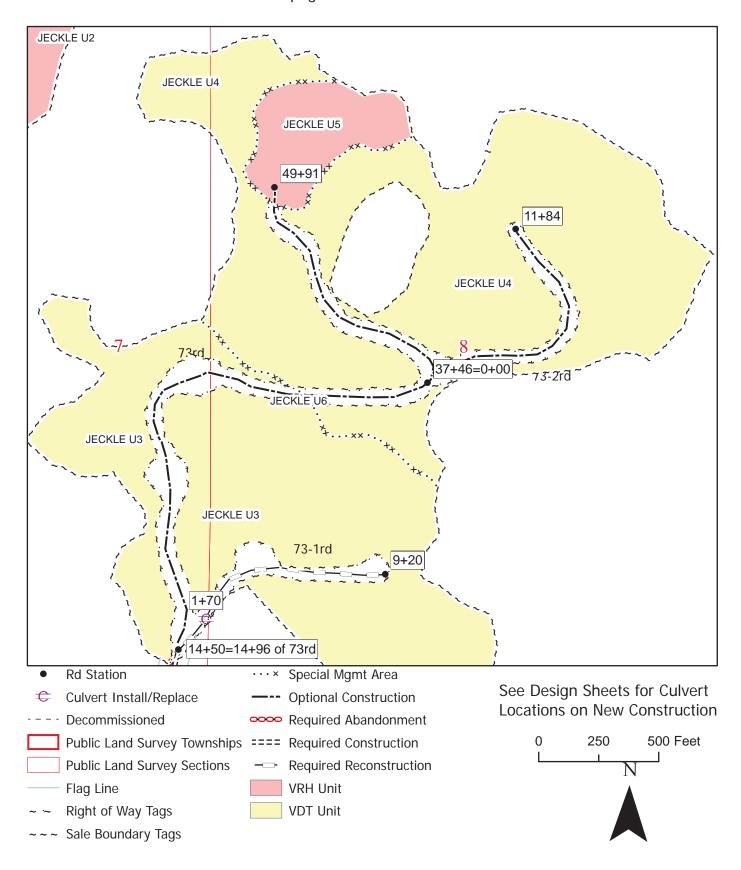
Jeckle VRH & VDT Road Work Maps page 2 of 8



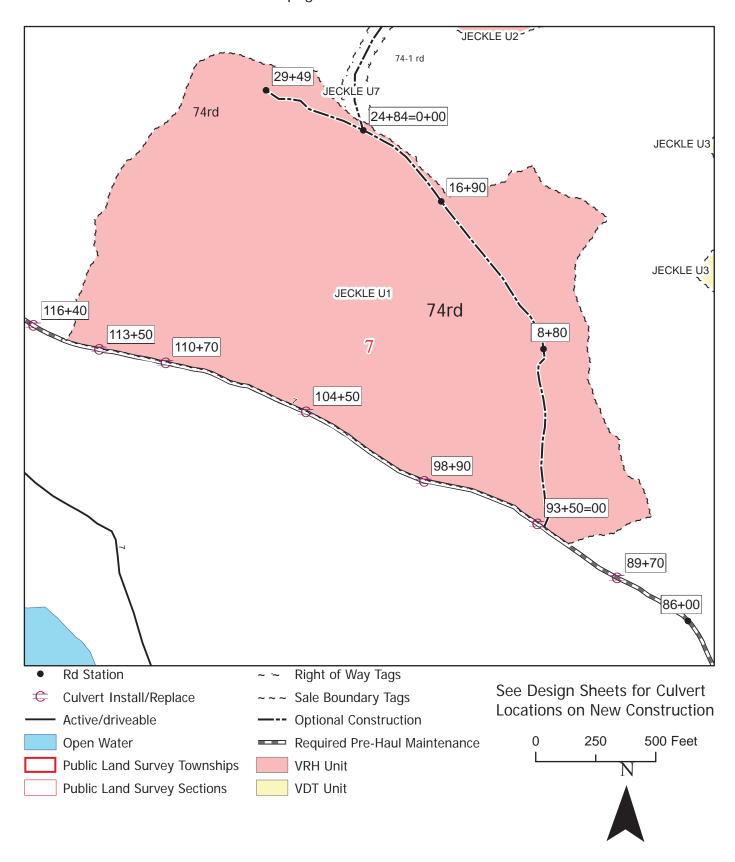
Jeckle VRH & VDT Road Work Maps page 3 of 8



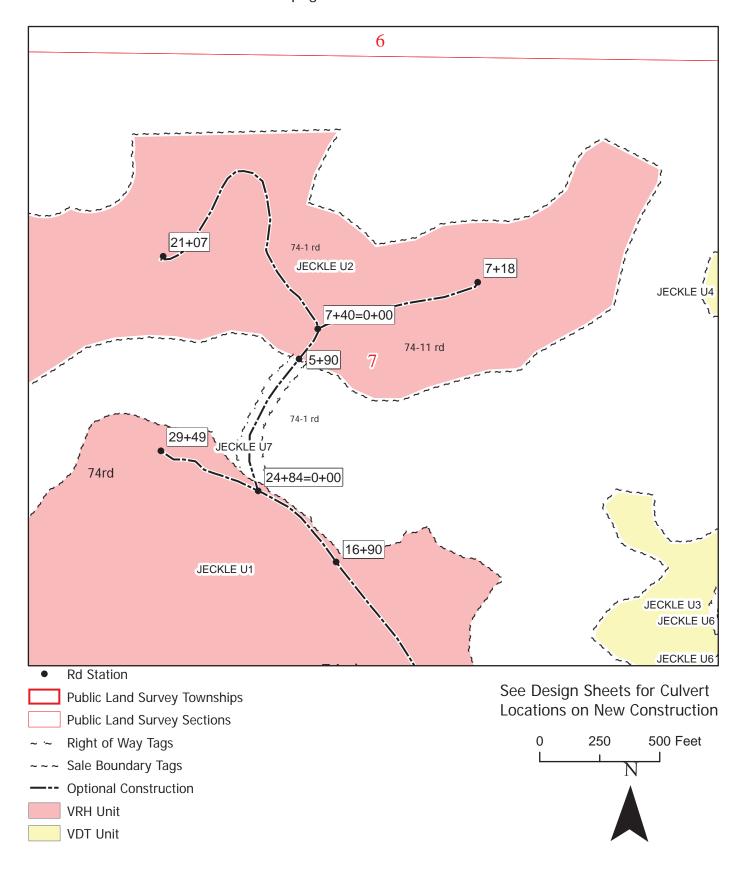
Jeckle VRH & VDT Road Work Maps page 4 of 8



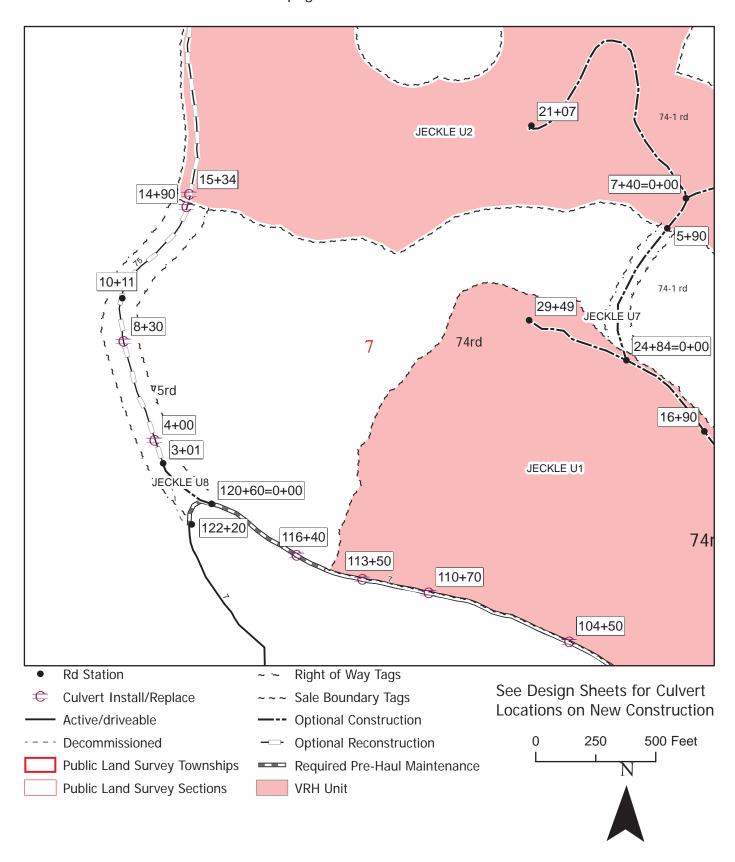
Jeckle VRH & VDT Road Work Maps page 5 of 8



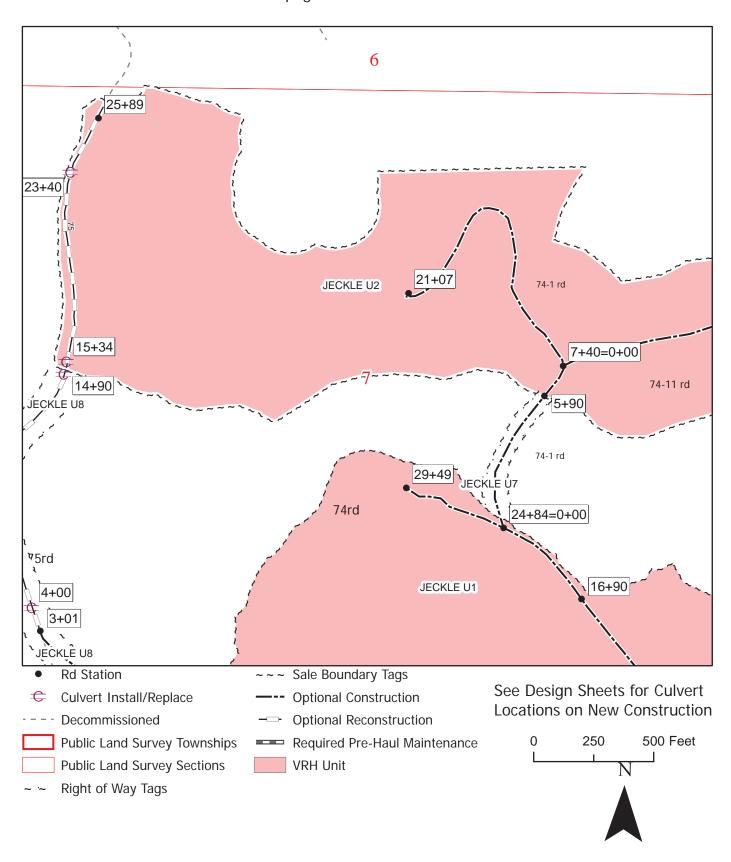
Jeckle VRH & VDT Road Work Maps page 6 of 8



Jeckle VRH & VDT Road Work Maps page 7 of 8



Jeckle VRH & VDT Road Work Maps page 8 of 8



STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES

JECKLE VRH & VDT TIMBER SALE ROAD PLAN PIERCE COUNTY RAINIER DISTRICT SPS REGION

AGREEMENT NO.: 30-104866 STAFF ENGINEER: M. BELL

DATE: 3/4/24

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>
5	0+00 to 134+80	Pre-haul maintenance
7	0+00 to 122+20	Pre-haul maintenance
73	0+00 to 14+96	Construction
73-1	0+00 to 9+20	Reconstruction
73A	0+00 to 14+50	Abandon
73	14+96 to 49+92	Abandon, if built
73-2	0+00 to 11+84	Abandon, if built

0-3 OPTIONAL ROADS

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

Road	<u>Stations</u>	<u>Type</u>
73	14+96 to 49+92	Construction
73-2	0+00 to 11+84	Construction
74	0+00 to 29+49	Construction
74-1	0+00 to 21+07	Construction
74-11	0+00 to 7+18	Construction
75	0+00 to 3+01	Construction
75	3+01 to 25+89	Reconstruction

0-4 CONSTRUCTION

Construction includes, but is not limited to:

- Clearing.
- Grubbing.
- Right of way debris disposal.
- Excavation and/or embankment to subgrade.
- Landing construction.
- Acquisition and installation of drainage structures.
- Manufacture or acquisition and application of optional rock.
- Road abandonment.

0-5 RECONSTRUCTION

Reconstruction includes, but is not limited to:

- Clearing.
- Grubbing.
- Right of way debris disposal.
- Excavation and/or embankment to subgrade.
- Road widening.
- Landing construction.
- Acquisition and installation of drainage structures.
- Manufacture or acquisition and application of rock.

0-6 PRE-HAUL MAINTENANCE

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

Road	<u>Stations</u>	<u>Requirements</u>
5	0+00 to 134+80	 Grading, shaping, and compaction of road surface.
7	0+00 to 122+20	 Brushing right-of-way. Culvert cleaning and headwall reconstruction. Ditch cleaning and reconstruction. Maintenance on steel gate Acquisition and installation of drainage structures. Grading, shaping, and compaction of road surface. Manufacture or acquisition and application of rock.

0-7 POST-HAUL MAINTENANCE

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

0-10 ABANDONMENT

This project includes abandonment listed in Clause 9-21 ROAD ABANDONMENT.

0-12 DEVELOP ROCK SOURCE

Purchaser may develop an existing rock source. Rock source development will involve Clearing, Stripping, Drilling, Blasting and Crushing, and manufacture of 5,000 cubic yard crushed rock stockpile in Black Rock Pit. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

0-13 STRUCTURES

Purchaser shall repair a steel gate. Requirements for these structures are listed in Section 7 STRUCTURES.

SECTION 1 - GENERAL

1-1 ROAD PLAN CHANGES

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

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

1-6 ORDER OF PRECEDENCE

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

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

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

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

Centerline is marked with orange flagging and orange pin flags for new construction.

1-16 CONSTRUCTION STAKES SET BY STATE

Purchaser shall perform work in accordance with the designs and reference points set in the field for grade and alignment. Reconstruction of existing road grades must conform to the original location except where construction staked or designed.

1-18 REFERENCE POINT DAMAGE

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

SUBSECTION TIMING

1-20 COMPLETE BY DATE

Purchaser shall complete pre-haul maintenance road work before the start of timber haul, unless approved in writing by the Contract Administrator.

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

Purchaser shall notify the Contract Administrator a minimum of 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 compaction
- Rock compaction

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

No operation of road construction equipment or rock haul will be allowed on weekends or state recognized holidays, unless authorized in writing by the Contract Administrator.

The specified activities are not permitted during the listed closure periods unless authorized in writing by the Contract Administrator.

<u>Activity</u>	Closure Period
Operation of road construction	November 1 to May 15
equipment or rock haul	November 1 to May 15

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a seasonal closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Purchaser shall comply with a maintenance plan, when a maintenance plan is determined necessary by the Contract Administrator, 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 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 new construction rocked roads.
- Wheel track rutting exceeds 4 inches on crushed rock roads.
- Surface or base stability problems persist.
- Weather is such that satisfactory results cannot be obtained in an area of operations.
- When, in the opinion of the Contract Administrator, excessive road damage or rutting may occur.

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

1-32 ASPHALT SURFACE RESTRICTION

Metal tracked equipment shall not be used on asphalt surfaces at any time. If equipment must be run on asphalt surfaces, then rubber-tired equipment or other methods, as approved in writing by Contract Administrator, shall be used.

Any dirt, rock, or other material tracked or spilled on the asphalt surface shall be removed immediately. Any damage to the surface(s) shall be repaired at the Purchaser's expense as directed by the Contract Administrator.

1-33 SNOW PLOWING RESTRICTION

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 AND/OR STATE

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.

The following county and/or state roads are affected by this sale:

Road Name
SR 7

1-43 ROAD WORK AROUND UTILITIES

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

Road	<u>Stations</u>	<u>Utility</u>
5 Road	0+00 to 49+00	Fiber optic cable and power
	(jct with 52 road)	buried in road way. Cable
		junction boxes in cut slope.

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.

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following road(s), Purchaser shall use a grader to shape the existing surface before timber haul.

<u>Road</u>	<u>Stations</u>
5	0+00 to 134+80
7	0+00 to 122+20

2-6 CLEANING CULVERTS

On the following road(s), Purchaser shall clean the inlets and outlets of all culverts.

<u>Road</u>	<u>Stations</u>
7	0+00 to 122+20

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall clean ditches, headwalls, and catchbasins. Work must be completed before rock application and/or timber haul and must be done in accordance with the TYPICAL SECTION SHEET. Pulling ditch material across the road or mixing in with the road surface is not allowed. Graders may not be used to clean ditches unless otherwise approved in writing by the Contract Administrator. Excavated material must be scattered outside the clearing limits.

Road	<u>Stations</u>
7	0+00 to 122+20

SECTION 3 - CLEARING, GRUBBING, AND DISPOSAL

3-1 BRUSHING

On the following road(s), Purchaser shall cut vegetative material up to 4 inches in diameter, including limbs, as shown on the BRUSHING LIST. Brushing must be achieved by manual or mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

Road	<u>Stations</u>
7	0+00 to 122+20

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal may not be used for brushing. Excavator buckets, log loaders and similar equipment may not be used for brushing unless otherwise approved in writing by the Contract Administrator.

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, 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.

3-8 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.
- Against standing trees unless approved by the Contract Administrator.

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. Purchase shall remove stumps using a hydraulic mounted excavator unless authorized in writing by the Contract Administrator. Grubbing must be completed before starting excavation and embankment.

3-20 ORGANIC DEBRIS DEFINITION

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

3-21 DISPOSAL COMPLETION

Purchaser shall remove organic debris from the road surface, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris before subgrade compaction, application of rock and/or timber haul.

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 20 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 55%.
- 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.
- In location that would impede drainage.

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.

SECTION 4 - EXCAVATION

4-2 PIONEERING

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

- Drainage must be provided on all uncompleted construction.
- Road pioneering operations may not undercut the final cut slope or restrict drainage.

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Purchaser shall follow these standards for road grade and alignment except as designed:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 12 percent adverse.
- Minimum curve radius is 60 feet at centerline.

4-5 CUT SLOPE RATIO

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

	Excavation	Excavation Slope
Material Type	Slope Ratio	<u>Percent</u>
Common Earth (on side slopes up to 55%)	1:1	100
Common Earth (56% to 70% side slopes)	¾:1	133
Common Earth (on slopes over 70%)	½:1	200
Fractured or loose rock	½:1	200
Hardpan or solid rock	1/4:1	400

4-6 EMBANKMENT SLOPE RATIO

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

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

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 road(s), 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. Pulling excavation material across the road or mixing in with the existing road surface is not allowed.

<u>Road</u>	<u>Stations</u>	<u>Comments</u>
75	10+11 to 15+34	See 75 Rd Narrow Section
		Design.

SUBSECTION DITCH CONSTRUCTION

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

The Purchaser shall construct and reconstruct ditches into the subgrade as specified on the TYPICAL SECTION SHEET. Excavated slopes shall be consistent with Clause 4-5 CUT SLOPE RATIO. Ditches shall be constructed concurrently with construction of the subgrade.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as needed. 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.

SUBSECTION WASTE MATERIAL (DIRT)

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 55% if the waste material is compacted and free of organic debris.

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.
- On side slopes steeper than 55%.
- 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.

SUBSECTION SHAPING

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.

SUBSECTION COMPACTION

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material in accordance with the COMPACTION LIST by routing equipment over the entire width of each lift. A plate compactor must be used for areas specifically requiring keyed embankment construction and for embankment and waste area segments too narrow to accommodate equipment. Waste material may be placed by end-dumping or sidecasting until sufficiently wide enough to support the 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.

4-63 EXISTING SURFACE COMPACTION

Purchaser shall compact maintained road surfaces in accordance with the COMPACTION LIST by routing equipment over the entire width. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before rock application.

SECTION 5 – DRAINAGE

SUBSECTION CULVERTS

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 AND DRAINAGE 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 plastic in accordance with Clauses 10-15 through 10-24.

5-7 USED CULVERT MATERIAL

On temporary roads, Purchaser may install used culverts. All other roads must have new culverts installed. Purchaser shall obtain approval from the Contract Administrator for the quality of the used culverts before installation. Culverts must meet the specifications in Clauses 10-15 through 10-24.

<u>Road</u>	<u>Stations</u>
73	14+96 to 49+92
73-2	0+00 to 11+84

5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT AND DRAINAGE LIST that are not installed will become the property of the state. Purchaser shall stockpile materials at the Ashford Cooler Compound at the start of the 8 road.

5-13 CONTINGENCY CULVERTS

The following culverts will be supplied by the Purchaser and are available for installation as directed by the Contract Administrator.

<u>Road</u>	<u>Size</u>
On any portion of road used	Four 18" x 30' culverts
for timber or rock haul.	Two 18" culvert bands for contingency
	culverts

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL 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. Culverts shall be banded using lengths of no less than 10 feet, and no more than one length less than 16 feet. Shorter section of banded culvert shall be installed at the inlet end.

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.

SUBSECTION ENERGY DISSIPATERS

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT LIST that specify the placement of rock. Energy dissipater installation is subject to approval by the Contract Administrator.

The type of energy dissipater and the amount of material must be consistent with the specifications listed on the CULVERT LIST. Energy dissipaters must extend a minimum of 1 foot to each side of the culvert at the outlet and a minimum of 2 feet beyond the outlet. Rock must be set in place by machine. Placement must 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 2 feet wide and 4 feet long.

5-26 HEADWALLS FOR CULVERTS

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross-drain culverts, except temporary 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. Placement must be by zero-dropheight method only. No placement by end dumping or dropping of rock is allowed.

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by November 1. Purchaser shall construct waterbars according to the attached 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 300 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(s) 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(s), a joint operating plan must be developed. All parties shall follow this plan. Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations in the listed locations.

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
Black Rock	SE ¼ SE ¼, Section 7, T15N, R5E	4 Inch In Place 1-1/2 Inch Minus Crushed Quarry Spalls

6-3 ROCK SOURCE STATE LAND, EXISTING STOCKPILE

Rock used in accordance with the quantities on the ROCK LIST may be obtained from the following existing stockpile(s) on state land at no charge to the Purchaser. Purchaser shall not remove additional yardage without prior written approval from the Contract Administrator. Other stockpiles may not be used without prior written approval from the Contract Administrator.

<u>Source</u>	<u>Location</u>	Rock Type	<u>Quantity</u>
Black Rock	SE ¼ SE ¼, Section 7, T15N, R5E	1-1/2 Inch Minus Crushed	6000

6-5 ROCK FROM COMMERCIAL SOURCE

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

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

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

<u>Source</u>	
Black Rock Pit	

SUBSECTION ROCK SOURCE DEVELOPMENT

6-12 ROCK SOURCE SPECIFICATIONS

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

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

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

- Pit walls must be maintained in a condition to minimize the possibility of the walls sliding or failing.
- The width of pit benches must be a minimum of 25 feet.
- The surface of pit floors and benches must be uniform and free-draining at a minimum 2% outslope gradient except as approved by the Contract Administrator.
- All operations must be carried out in compliance with all regulations of the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- All vehicle access to the top of the pit faces must be blocked.

6-14 DRILL AND SHOOT

Rock drilling and shooting must meet the following specifications:

- Additional oversize material remaining in the rock source at the conclusion of the timber sale may not exceed 5% of the total volume mined in that source.
- Oversize material is defined as rock fragments larger than 1.5 feet in any dimension.
- Oversized rock that exceeds the maximum allowable amount must be reduced to a smaller size within the rock source.
- Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before blasting operations.
- Purchaser shall submit an informational drilling and shooting plan to the Contract
 Administrator within 5 calendar days after drilling.
- All operations must be carried out in compliance with the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and the Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- Purchaser shall block access roads before blasting operations.

SUBSECTION ROCK MANUFACTURE

6-20 ROCK CRUSHING OPERATIONS

Rock crushing operations must conform to the following specifications:

- Operations and placement of oversize material must be conducted in or near the rock source site, as approved in writing by the Contract Administrator.
- If a smooth roll crusher is used, the maximum size of material fed into it shall be equal to the largest size of the material coming out of it plus 8.5 percent of the roll radius.
- The crushing operation per pit must be concluded within 45 working days from the time it begins in that pit unless approved in writing by the Contract Administrator.
- Purchaser is required to produce sieve analysis for crushing operations every 1000 yards for 1-1/2 Inch Minus Crushed rock gradation type.
- Purchaser may use a commercial testing lab to produce sieve analyses.

6-23 ROCK GRADATION TYPES

Purchaser shall manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality when placed in hauling vehicles or during manufacture and placement into a stockpile. Purchaser shall provide a sieve analysis upon request from the Contract Administrator.

SUBSECTION ROCK GRADATIONS

6-29 1 ½-INCH MINUS CRUSHED ROCK

% Passing 1 ½" square sieve 100%
% Passing 1" square sieve 50 - 85%
% Passing U.S. #4 sieve 30 - 50%

% Passing U.S. #40 sieve 16% maximum % Passing U.S. #200 sieve 5% maximum

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

6-38 4-INCH IN-PLACE ROCK

Purchaser shall manufacture 4-inch in-place rock. In-place processing such as grid rolling, jaw crushing, or other such method as demonstrated by the Purchaser to be effective, shall be required if necessary to achieve the following requirements:

4-inch in-place rock must have a minimum of 90 percent of the top 4 inches of the running surface pass a 4-inch square opening.

In-place rock may not contain more than 5 percent by weight of clay, organic debris or trash by volume. No more than 50 percent of rock may be larger than 8 inches in any dimension and no rock may be larger than 12 inches in any dimension.

6-43 QUARRY SPALLS

% Passing 8" square sieve 100%

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

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

SUBSECTION ROCK MEASUREMENT

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

Measurement of 4 INCH IN PLACE is defined as the compacted depth(s) using the compaction methods required in this road plan. Estimated quantities specified in the ROCK LIST are compacted yards. Purchaser shall apply adequate amounts of rock to meet the specified rock depths. Specified rock depths are minimum requirements and are not subject to reduction.

6-56 ROCK MEASURMENT BY TRUCK VOLUME

Measurement of 1-1/2 INCH MINUS CRUSHED rock for road application is on a cubic yard truck measure basis. Purchaser shall 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 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 with Clause 6-67 ROCK STOCKPILE SPECIFICATIONS.

Rock Source	Rock Type	Quantity (c.y.)	Stockpile Location
Black Rock	1-1/2 Inch Minus	5,000	Black Rock Pit Stockpile
	Crushed		Site

6-67 ROCK STOCKPILE SPECIFICATIONS

Rock stockpiles listed in Clause 6-65 ROCK STOCKPILE LOCATION must meet the following specifications:

Before placing aggregates upon the stockpile site, the site must be cleared of vegetation, trees, stumps, brush, rocks, or other debris and the ground leveled to a smooth, firm, uniform surface.

When completed, the stockpile must be neat and regular in shape. The stockpile height is limited to a maximum of 24 feet. Stockpiles in excess of 200 cubic yards must be built up in layers of not more than 4 feet deep. Stockpile layers must 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 must be completed over the entire area of the pile before depositing aggregates in the next layer. The aggregates may not be dumped so that they run down and over the lower layers in the stockpile. The method of dropping from a bucket or spout in one location to form a cone shaped pile is not allowed.

No equipment other than pneumatic tired equipment may be used on stockpiles. 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.

SUBSECTION ROCK APPLICATION

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for subgrade including: ditches, headwalls, catch basins, culverts, energy dissipaters, ditch-outs, surface shaping and compacting before rock application.

6-71 ROCK APPLICATION

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

6-73 ROCK FOR WIDENED PORTIONS

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

6-75 OPTIONAL ROCK EXCEPTION

On the following road(s), Purchaser may 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>
73	14+96 to 49+92
73-2	0+00 to 11+84

SECTION 7 – STRUCTURES

SUBSECTION SIGNS

7-1 SIGN INSTALLATION

Purchaser shall purchase, install, and maintain the following road signs. Signs must be installed a minimum of 5 days before work begins.

Road	<u>Station</u>	<u>Sign</u>
5	0+50	Caution
	136+80	Active Timber Haul
7	71+60	Caution
	122+60	Active Timber Haul

SUBSECTION GATE CLOSURE

7-70 GATE CLOSURE

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

Road	Station 4+90	Gate No.	<u>Comment</u>				
7	4+90	516	From September 1 to March 15				

7-71 GATE CLOSURE DURING HAUL

On the following road(s), Purchaser shall keep gates closed and locked except for passing vehicles. If Purchaser elects to use an alternate plan for gate security, Purchaser shall submit a detailed plan to the Contract Administrator for written approval.

Road	<u>Station</u>	Gate No.	Closure Period	Comment
5	0+00 511		Closed from September 1 to March 15	Located in Elbe
7	4+90	516	Closed from March 15 to September 1	To Black Rock Pit

7-75 GATE MAINTENANCE

Purchaser shall conduct gate maintenance as listed. Purchaser shall remove all old gate material from state land before the termination of the contract.

Road	Station	Gate No.	<u>Requirements</u>
7	4+90	516	Weld two 18 inch lengths of 3/8 inch Grade 30 chain to the holdback in such a manner that the chain can be used to lock the gate arm to the holdback. Chain shall be zinc plated or galvanized.

SECTION 9 - POST-HAUL ROAD WORK

9-1 EARTHEN BARRICADES

Purchaser shall construct barricades in accordance with the BARRICADE DETAIL.

<u>Road</u>	<u>Stations</u>	<u>Comment</u>
73A	0+00	If determined necessary by Contract
		Administrator
73A	14+50	
73	14+96	
73-2	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.

Road	<u>Stations</u>	Additional Requirements				
5	0+00 to 134+80	Grading, shaping, and compaction of road surface.				
7	0+00 to 122+20	Grading, shaping, and compaction of road surface.				
73	0+00 to 14+96	Clean road. Grading, shaping, and compaction of road surface.				
73-1	0+00 to 9+20	Clean road. Grading, shaping, and compaction of road surface.				
74	0+00 to 29+49	Clean road. Grading, shaping, and compaction of road surface.				
74-1	0+00 to 21+07	Clean road. Grading, shaping, and compaction of road surface.				
74-11	0+00 to 7+18	Clean road. Grading, shaping, and compaction of road surface.				
75	0+00 to 25+89	Clean road. Grading, shaping, and compaction of road surface.				

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-21 ROAD ABANDONMENT

Purchaser shall abandon the following roads before the termination of this contract.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
73A	0+00 to 14+50	73A Road Abandonment
73	14+96 to 49+92	Abandonment
73-2	0+00 to 11+84	Abandonment

9-22 73A ROAD ABANDONMENT

- Construct non-drivable waterbars according to the attached 73A ROAD ABANDONMENT DETAIL.
- 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 must be out sloped to provide positive drainage. Outlets must be on stable locations.
- If deemed necessary by Contract Administrator, block road at 0+00 with earthen barricades in accordance with the attached BARRICADE DETAIL.

- Block road at 14+50 with earthen barricades in accordance with the attached BARRICADE DETAIL.
- Construct a trench with a 2-foot flat bottom and walls no steeper than 2:1 as shown on attached 73A ROAD ABANDONMENT DETAIL and marked in the field.
- Slope all trench walls and approach embankments no steeper than 2:1.

9-23 ABANDONMENT

- Remove road shoulder berms.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR
 DETAIL at a maximum spacing that will produce a vertical drop of no more than 10 feet
 between waterbars or between natural drainage paths and with a maximum spacing of
 100 feet.
- 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 must be outsloped to provide positive drainage. Outlets must be on stable locations.
- Block roads with earthen barricades in accordance with the attached EARTHEN BARRICADE DETAIL.
- Remove culverts.
- Remove ditch cross drain culverts and leave the resulting trench open.
- Slope all trench walls and approach embankments no steeper than 1.5:1.

SECTION 10 MATERIALS

SUBSECTION CULVERTS

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.

10-22 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.

SECTION 11 SPECIAL NOTES

11-1 STOCKPILE ROCK MEASUREMENT

Measurement of the 1-1/2 INCH MINUS CRUSHED Stockpile is on an in-pile basis unless an alternative method is approved, in writing, by the Contract Administrator. The Contract Administrator, or their designee, will measure the stockpile to determine if it meets the quantity listed in the ROCK LIST.

11-2 ASPHALT APPROACH CLEANING

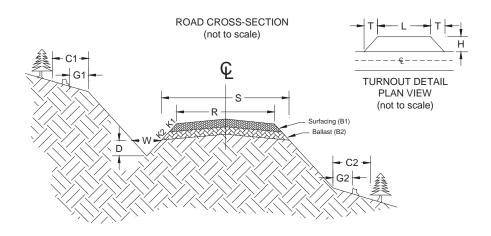
Purchaser shall clean the paved approach to the 5 Road at station 0+00 from SR 7 to Gate 511. Purchaser shall remove all dirt, rock, or other material on the asphalt surface. Work shall be completed prior to the start of timber haul and again after the completion of timber haul. Any dirt, rock, or other material tracked or spilled on the paved approach during haul shall be removed by the Purchaser and at the Purchaser's expense.

11-3 ADDITIONAL 7 ROAD PRE-HAUL MAINTENANCE

On the following road, Purchaser shall cut the 7 road to the dimensions shown on the 7 ROAD DESIGN. Depth is approximate and may be lessened if approved by the Contract Administrator. Material cut is stockpiled rock that shall be used as part of the 7 road required surface rock or as culvert bedding.

Road	<u>Station</u>	<u>Comment</u>
7	71+60 to 75+36	Estimate 400 cyds of rock will be removed from
		the roadway

TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width (feet)	Road Width (feet)	Dito Width (feet)	ch* Depth (feet)	Crown in. @ CL	Grubbin (fe	_	Clearing Limits (feet)	
				S	R	W	D		G1	G2	C1	C2
5	0+00	134+80	А	-	Varies Min 14'	2	1	4	-	-	-	-
7	0+00	122+20	А	-	12	2	1	4	2	2	5	5
73	0+00	14+96	С	15	12	2	1	4	2	2	flagging	flagging
73	14+96	49+92	С	15	12	2	1	4	0	0	tags	tags
73-1	0+00	9+20	С	15	12	2	1	4	2	2	tags	tags
73-2	0+00	11+84	С	15	12	2	1	4	0	0	tags	tags
74	0+00	16+90	С	15	12	2	1	4	2	2	5	5
74	16+90	25+00	С	15	12	2	1	4	2	2	5	SB tags
74	25+00	29+49	С	15	12	2	1	4	2	2	5	5
74-1	0+00	5+90	С	15	12	2	1	4	2	2	tags	tags
74-1	5+90	21+07	С	15	12	2	1	4	2	2	5	5
74-11	0+00	7+18	С	15	12	2	1	4	2	2	5	5
75	0+00	15+00	С	15	12	2	1	4	2	2	tags	tags
75	15+00	25+89	С	15	12	2	1	4	2	2	SB tags	5

^{*}Tags are Right of Way Tags. SB tags are Sale Boundary Tags. Flagging is pink flagging.

ROCK LIST, pg 1 of 2

BALLAST

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y./ Station	# of Stations	C.Y. Sub-total	Rock Source
			K2	B2		4 Inch In place		
	<u> </u>			l			I	
73	0+00	14+96	1.5:1	12"	50	15	750	Black Rock
73*	14+96	49+92	1.5:1	12"	50	35	1750	
73-1	0+00	9+20	1.5:1	12"	50	9.2	460	
73-2*	0+00	11+84	1.5:1	12"	50	11.84	592	
74	0+00	29+49	1.5:1	12"	50	29.49	1475	
74-1	0+00	21+07	1.5:1	12"	50	21.07	1054	
74-11	0+00	7+18	1.5:1	12"	50	7.18	359	
75	0+00	3+01	1.5:1	12"	50	3.01	151	
75	3+01	10+11	1.5:1	12"	50	7.1	355	
75	10+11	15+34	1.5:1	12"	50	5.23	262	
75	15+34	25+89	1.5:1	12"	50	10.55	528	
Landings*							600	
1-1/2" or 2-1/2' See Culvert List.		from stockp	oile for culv	ert bedding.	6	9 Culverts	54	
Quarry Spalls fo	r culvert instal	lations. See	Culvert List		I	I	37	
·	·			·	·		ALLACT TOTAL	. 0427 Cubic yes

BALLAST TOTAL: 8427 Cubic yards

SURFACE

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	Truck C.Y. per Station	# of Stations	Truck C.Y. Subtotal	Comments Rock Source
			K2	B2	1-1/2 Inch	Minus Crush	ed Stockpile	Black Rock
7	0+00	57+22	1.5:1	4"	25	57.22	1860	
7	57+22	144+00	1.5:1	4"	25	86.7	2818	
7	144+00	168+00	1.5:1	6"	33	24	1030	
Manufactured 1-2	1/2 Inch Minu	us Crushed fo	or Black Roo	ck Pit	u		5000	

SURFACE TOTAL: 5708 cubic yards Stockpile: 5000 cubic yards

^{*}Optional Rock: Purchaser is allowed the following rock depths from State owned rock sources, but application of rock is not required.

ROCK LIST, pg 2 of 2

NOTE: 4 Inch In Place yardages are estimated on a compacted (In-Place) basis. Compliance of required rock will be based on compacted depth measurement. **Apply appropriate factors to determine loose amounts for estimating purposes.** If Purchaser elects to haul in wet weather additional rock may be obtained from a commercial source at the Purchaser's expense and with prior written approval from the Contract Administrator.

COMPACTION LIST

Road	From Station	To Station	Туре	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
- 1		Culvert Installations	12					
	All new construction and reconstruction		Embankment	12			4 low freq.	3
_			Fill & select borrow	12	Smooth			
		Subgrade			Drum	14,000		
			Rock	12	Vibratory	1 1,000	with Vibe	3
			Waste Area	12	Roller		on	
All pre	All pre-haul and post haul		After grading existing road surface and prior to rocking					
			Culvert Installations	12				
			Rock	6				

CULVERT AND DRAINAGE LIST, pg 1 of 2

Road		Cu	lvert	Length (ft)		Riprap (C.Y.)			Backfill	Placement	Const.		
Number	Location	Dia. (in)	Туре	Culvert	Downspt	Flume	Inlet	Outlet	Туре	Material*	Method*	Staked*	Remarks
7	77+25	18	PD	40			0.5	0.5	QS	SR			Replacement
	79+25	18	PD	40	•••••••••••••••••••••••••••••••••••••••		0.5	0.5	QS	SR			
	89+70	18	PD	40			0.5	0.5	QS	SR			Replacement
	93+50	18	PD	40			0.5	0.5	QS	SR			Replacement
	98+90	18	PD	40			0.5	0.5	QS	SR			Replacement
	104+50	18	PD	40			0.5	0.5	QS	SR			Replacement
	110+70	18	PD	40			0.5	0.5	QS	SR			Replacement
1	113+50	18	PD	40			0.5	0.5	QS	SR			Replacement
	116+40	18	PD	40			0.5	0.5	QS	SR			Replacement
73	2+11	18	PD	30	•		0.5	0.5	QS	NT			
	5+05	18	PD	30			0.5	0.5	QS	NT			
	13+24	18	PD	30			0.5	0.5	QS	NT			
	13+67	18	PD	30			0.5	0.5	QS	NT			
	18+38	18	TEMP	30			0.5	0.5	QS	NT			
	20+99	18	TEMP	30			0.5	0.5	QS	NT			
	32+94	18	TEMP	30			0.5	0.5	QS	NT			
	33+57	18	TEMP	30			0.5	0.5	QS	NT			
	44+48	18	TEMP	30			0.5	0.5	QS	NT			
73-1	1-70	18	PD	30	•		0.5	0.5	QS	NT			
73-2	7+47	18	TEMP	30			0.5	0.5	QS	NT			
	10+51	18	TEMP	30			0.5	0.5	QS	NT			
~	2.44	40		20			0.5	0.5	06	N.T.			
74	3+14	18	PD	30			0.5	0.5	QS	NT			
	15+00 24+80	18 18	PD PD	30 30			0.5	0.5 0.5	QS QS	NT NT			
74-1	4+02	18	PD	30			0.5	0.5	QS	NT			
	16+24	18	PD	30			0.5	0.5	QS	NT			
	19+90	18	PD	30			0.5	0.5	QS	NT			
74-11	6+37	18	PD	30			0.5	0.5	QS	NT			
75	4+00	18	PD	30			0.5	0.5	QS	NT			
	8+30	18	PD	30			0.5	0.5	QS	NT			
	14+90	18	PD	30			0.5	0.5	QS	NT			
	15+34	18	PD	30			0.5	0.5	QS	NT			
	23+40	18	PD	30			0.5	0.5	QS	NT			

CULVERT AND DRAINAGE LIST, pg 2 of 2

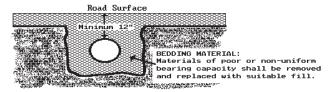
Road		Cu	lvert		Length (ft)		R	iprap (C.Y	·.)	Backfill	Placement	Const.	
Number	Location	Dia. (in)	Туре	Culvert	Downspt	Flume	Inlet	Outlet	Туре	Material*	Method*	Staked*	Remarks
		18	TEMP	30			0.5	0.5	QS	NT			
Contingona	, autoorta	18	TEMP	30			0.5	0.5	QS	NT			
Contingency	y cuiverts	18	TEMP	30			0.5	0.5	QS	NT			
		18	TEMP	30			0.5	0.5	QS	NT			
,		1											

^{*} SEE CULVERT AND DRAINAGE SPECIFICATION DETAIL

PD = Polyethylene Pipe Dual Wall AASHTO No. M294 Type S or ASTM F2648

TEMP = Temporary Culvert

CULVERT BACKFILL AND BASE PREPARATION (For culverts less than 36")



Key:

QS - Quarry Spalls SR - Shot Rock

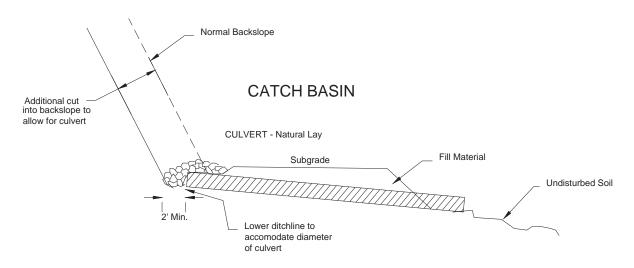
NT - Native (bank run)

SL - Select Fill

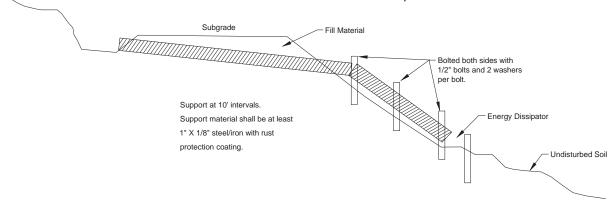
HL - Heavy Loose Riprap
LL - Light Loose Riprap
Flume - Half round pipe
Downspout - Full round pipe

CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 1 of 3)



CULVERT - With Flume or Downspout



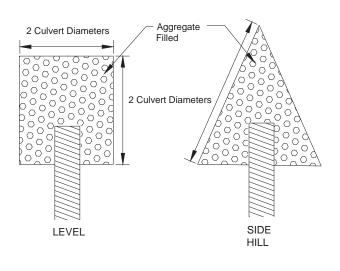
CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 2 of 3)

Proper preparation of foundation and placement of bedding material shall precede the installation of all culvert pipe. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform dense unyielding base. The backfill material shall be placed so that the pipe is uniformly supported along the barrel.

Low spot allows for water to continue down ditch in case of plugged culvert Subgrade Ditch Culvert Headwall Headwall 30° Skew

ENERGY DISSIPATORS



Headwalls to be constructed of material that will resist erosion.

Dissipator Specifications:
Depth: 1 culvert diameter
Aggregate: as specified in the
CULVERT LIST.

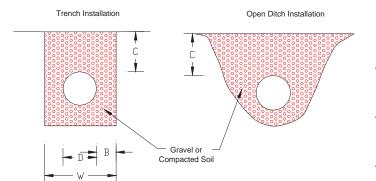
CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 3 of 3)

POLYETHYLENE PIPE INSTALLATION

INSTALLATION REQUIREMENTS:

- 1. Crushed stone, gravel, or compacted soil backfill material shall be used as the bedding and envelope material around the culvert. The aggregate size shall not exceed 1/6 pipe diameter or 4" diameter, whichever is smaller.
- 2. The corrugated pipe shall be laid on grade, on a layer of bedding material as shown for the two types of installations. If native soil is used as the bedding and backfill material, it shall be well compacted in six inch layers under the haunches, around the sides and above the pipe to the recommended minimum height of cover.
- 3. Either crushed aggregate or flexible (asphalt) pavement may be laid as part of the minimum cover requirements.
- 4. Site conditions and availability of bedding materials often dictate the type of installation method used.
- 5. The load bearing capability of flexible conduits is dependent on the type of backfill material used and the degree of compaction achieved. Crushed stone and gravel backfill materials typically reach a compaction level of 90-95% AASHTO standard density without compaction. When native soils are used as backfill material, a compaction level of 85% is required. This minimum compaction can be achieved by either hand or mechanical tamping.



MINIMUM DIMENSIONS Trench or Open Ditch Installation

Nominal Diameter	Minimum Thickness	Minimum Cover	Min. Trench Width
D	В	С	W
18"	6"	12"	36"
24"	6"	12"	42"
30"	6"	12"	48"
36"	6"	12"	54"

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, page 1of 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.

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.

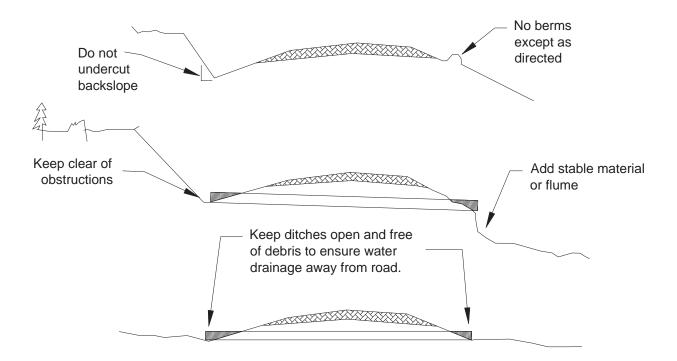
FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS, page 2 of 2

Termination of Use or End of Season

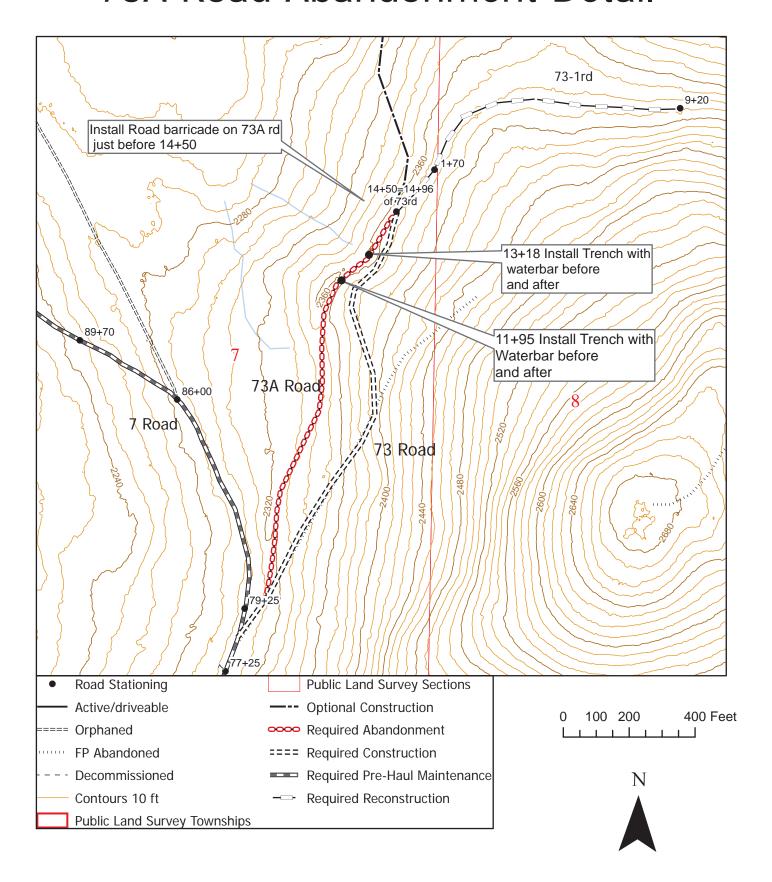
 At the conclusion of logging operations, ensure all conditions of these specifications have been met.

Debris

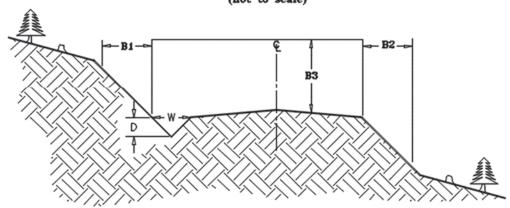
Remove fallen timber, limbs, and stumps from the slopes, roadway, ditchlines, and culvert inlets.



73A Road Abandonment Detail



BRUSHING DETAIL



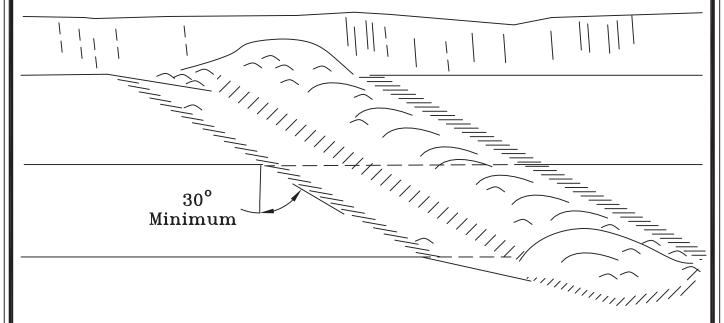
BRUSHING LIST

Road Number	Road Width (feet)	Dit	ch		Brushing Limits (feet)		Remarks
		Width (feet)	Depth (feet)		(1001)		In addition to brushing
		W	D	B1	B2	В3	
7	12	2	1	5	5	14	Cut brush an extra 5 feet on the inside of curves to provide extra visibility on switchbacks and curves

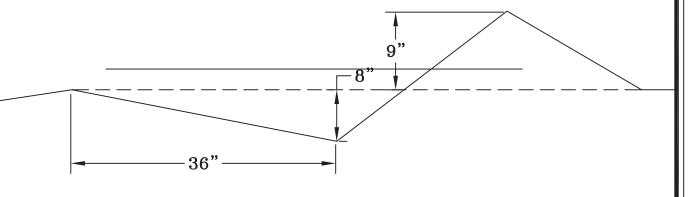
<u>B1</u> extends horizontally the specified distance in feet from the back of the ditch. <u>B2</u> extends horizontally the specified distance in feet from the outside edge of the running surface. Brush is defined as all non-merchantable vegetative material found within the specified limits. Brush that is cut shall be removed to the downhill side of the road and placed such that it will not block ditches, ditch-outs, or drainage structures. Signs, culvert location markers, culverts or any other identification features damaged by brushing shall be replaced at the Purchasers expense. Stumps shall not be greater than 3 inches tall after brushing.

Drivable Water Bar Detail

Cross Ditch



Cross Section at Centerline

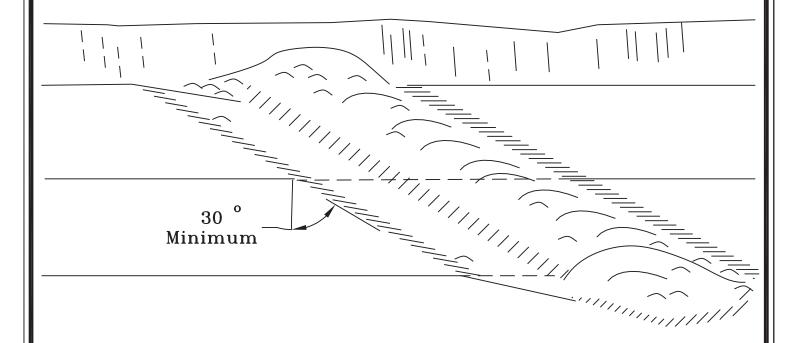


Drivable Water Bar Detail

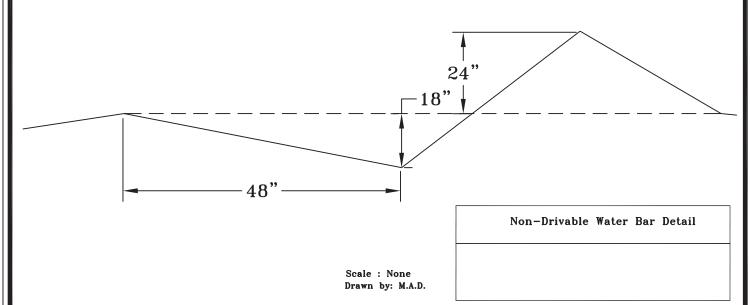
Scale: None Drawn by: M.A.D.

Non-Drivable Water Bar Detail

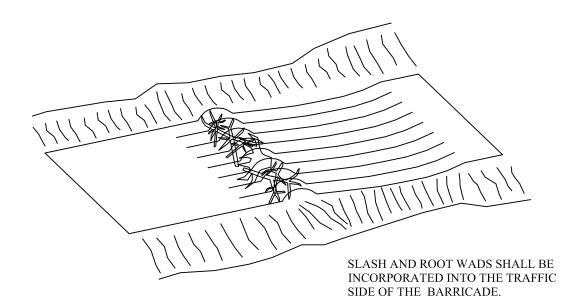
Cross Ditch



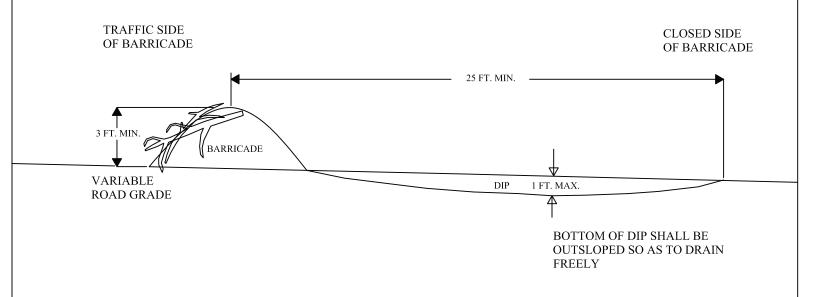
Cross Section at Centerline

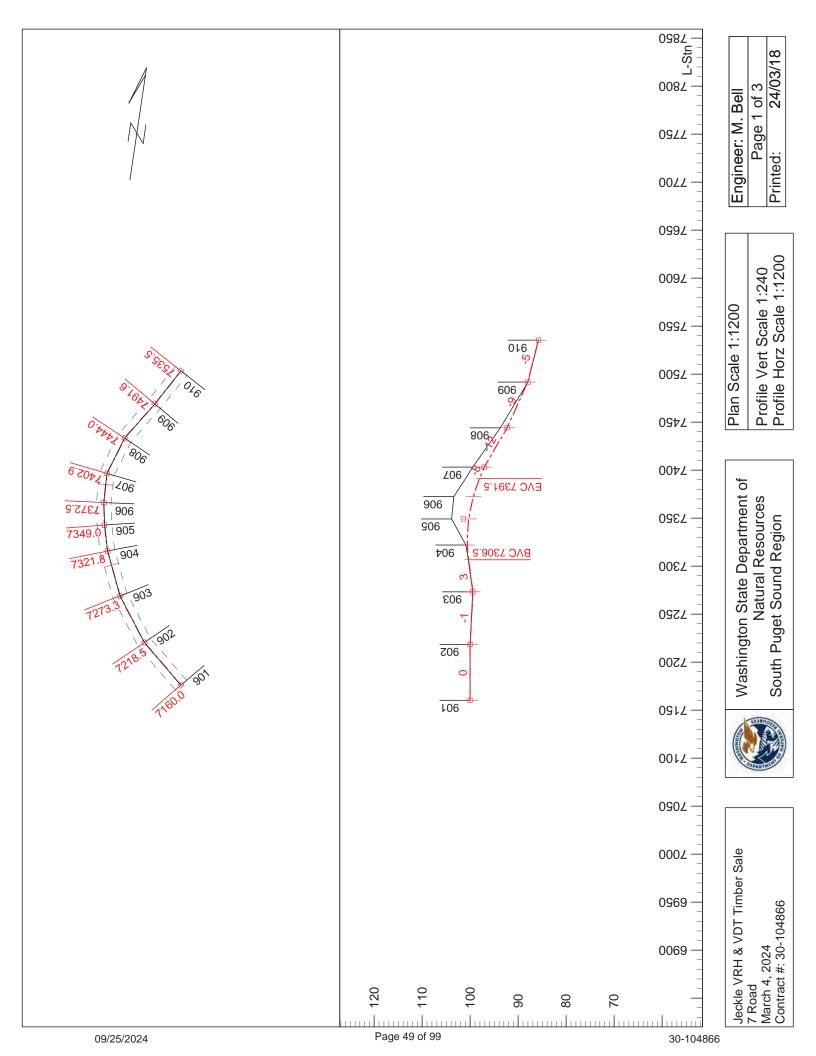


BARRICADE DETAIL



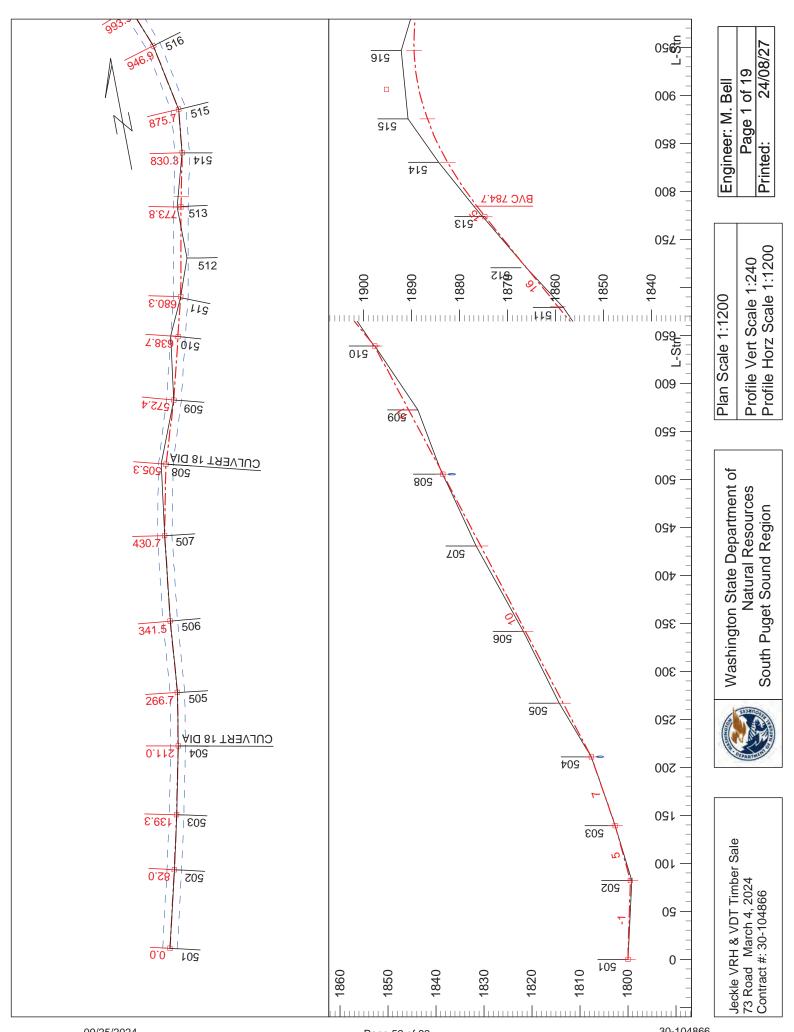
PLAN VIEW

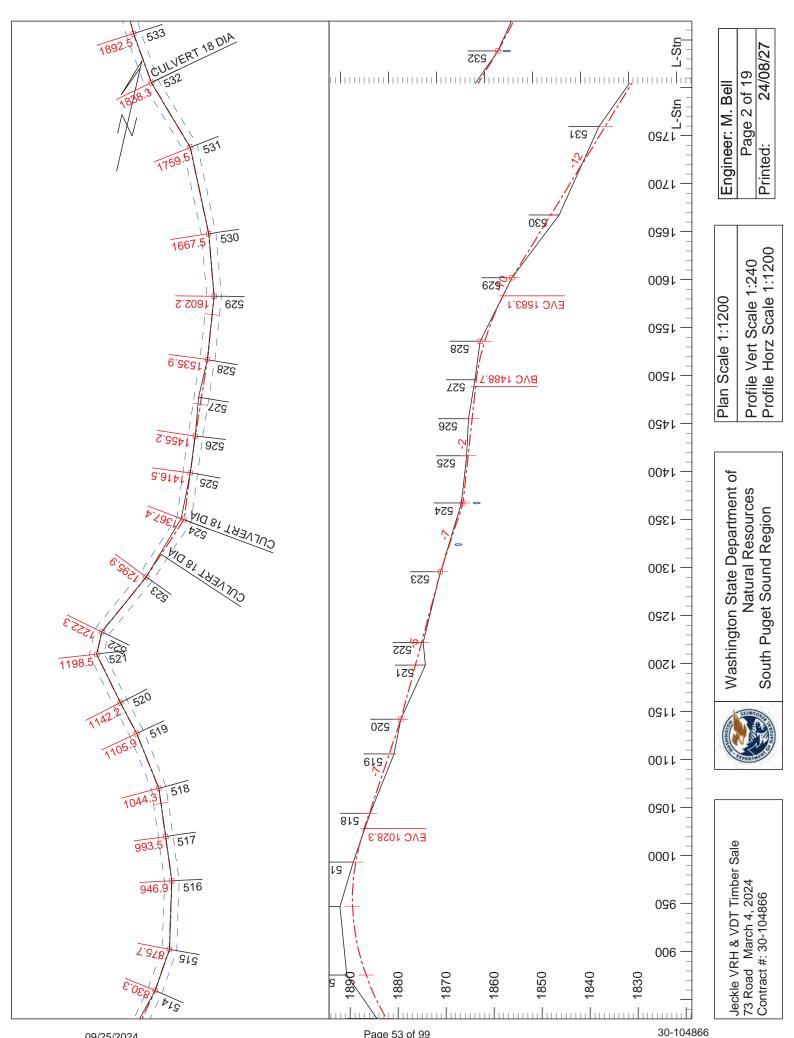


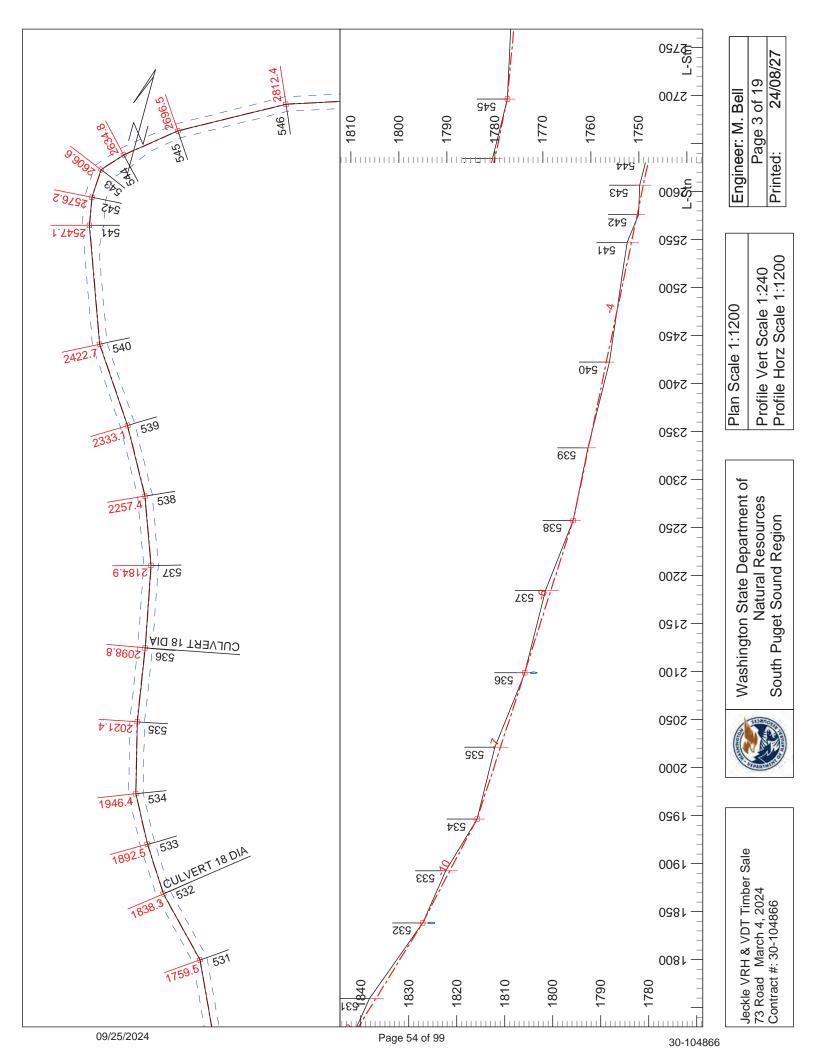


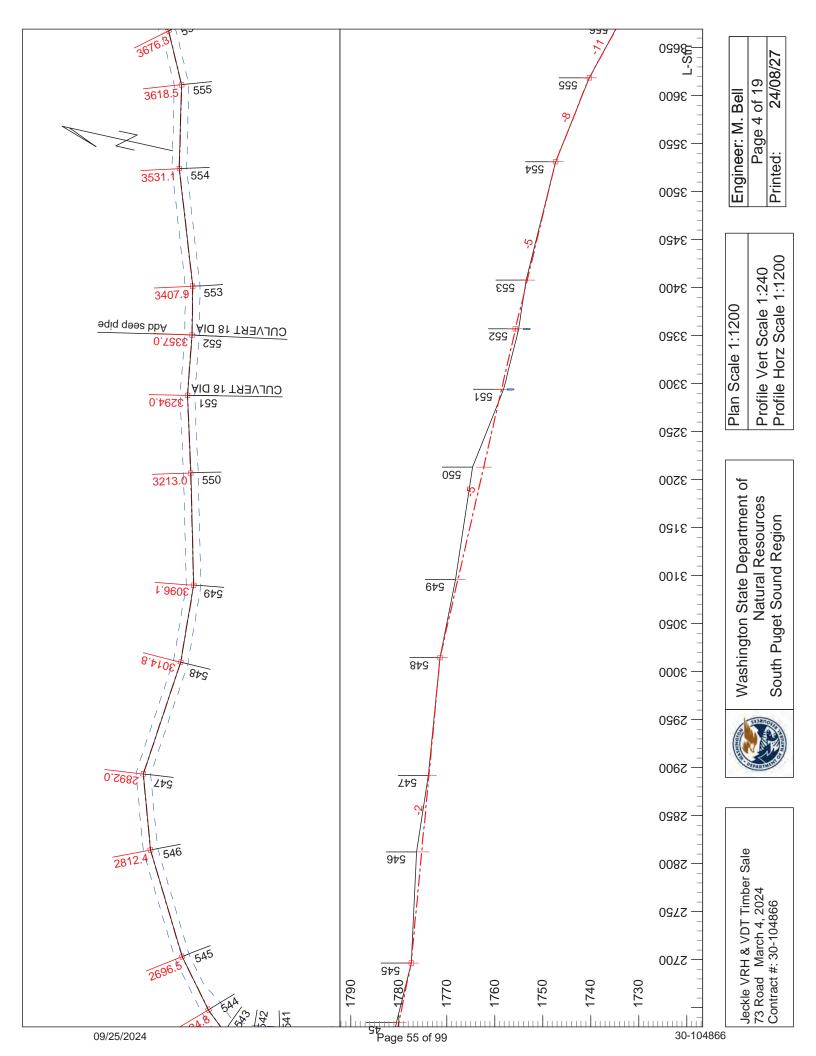
ROADENG Section			Section Scale 1:240 Page 1:24	Page 2 of 3
E:\00_FY25_Jeckle\Jeckle RoadEng\7rd_stockpile on road.tr1	Eng\7rd_stockpile on road.tr1			24/03/18
7.1	7160.0		7218.5	
110		110		
100		100		
05	- 00 10	0t 06	0250	- 30
160.0 Grd.Lst: n 901 SsI:	0.0	218.5 G 902 S	0 H. Offset: 0.0 0 Cut Dp: 0.0	15.2 : 7.6
Grd.Nxt.: 0 Ssr: 0 CL Ele	CL Elev: 100.0 Rd. Wd. R: 7.6	Grd.Nxt.: -1 Ssr:	0 CL	9.7
	7273.3		7321.8	
		110		
000				
	-	100		
0130 0730	- 10 - 20 - 30 - 40	0 1	10	30
L-Stn: 7273.3 Grd.Lst: -1 H. Offset:	Offset: 0.0 Rd. Wd.: 15.2	L-Stn: 7321.8 Grd	Grd.Lst: 1 H. Offset: 0.0 Rd. Wd.: 18	15.2
Index: 903 Ssl: 0 Cut Dp: Grd.Nxt: 3 Ssr: 0 CL Elev:	0.0 Rd. Wd. L: 7. : 99.5 Rd. Wd. R: 7.	Index: 904 Ssl: Grd.Nxt.: 1 Ssr:	0 Cut Dp: 0.3 Rd. Wd. L: 7.6 CL Elev: 100.6 Rd. Wd. R: 7.6	7.6 7.6
	7349.0	110	7372.5	
EE	ER		ER	
100		100		
06 02 01	- 0 - - 30 - 40	0t	02- - 0 - - 10	40
L-Stn: 7349.0 Grd.Lst: -3 H. Offset: Index: 905 Ssl: 4 Cut Dp: Grd.Nxt: -3 Ssr: -1 CL Elev: 1	H. Offset: 0.0 Rd. Wd.: 15.2 Cut Dp: 3.6 Rd. Wd. L: 7.6 CL Elev: 100.3 Rd. Wd. R: 7.6	L-Stn: 7372.5 Grd. Index: 906 SSI: Grd.Nxt:: -6 SSr:	Lst: -6 H. Offset: 0.0 Rd. Wd.: 21 Cut Dp: 4.1 Rd. Wd. L -13 CL Elev: 99.3 Rd. Wd. R	15.2 : 7.6 : 7.6

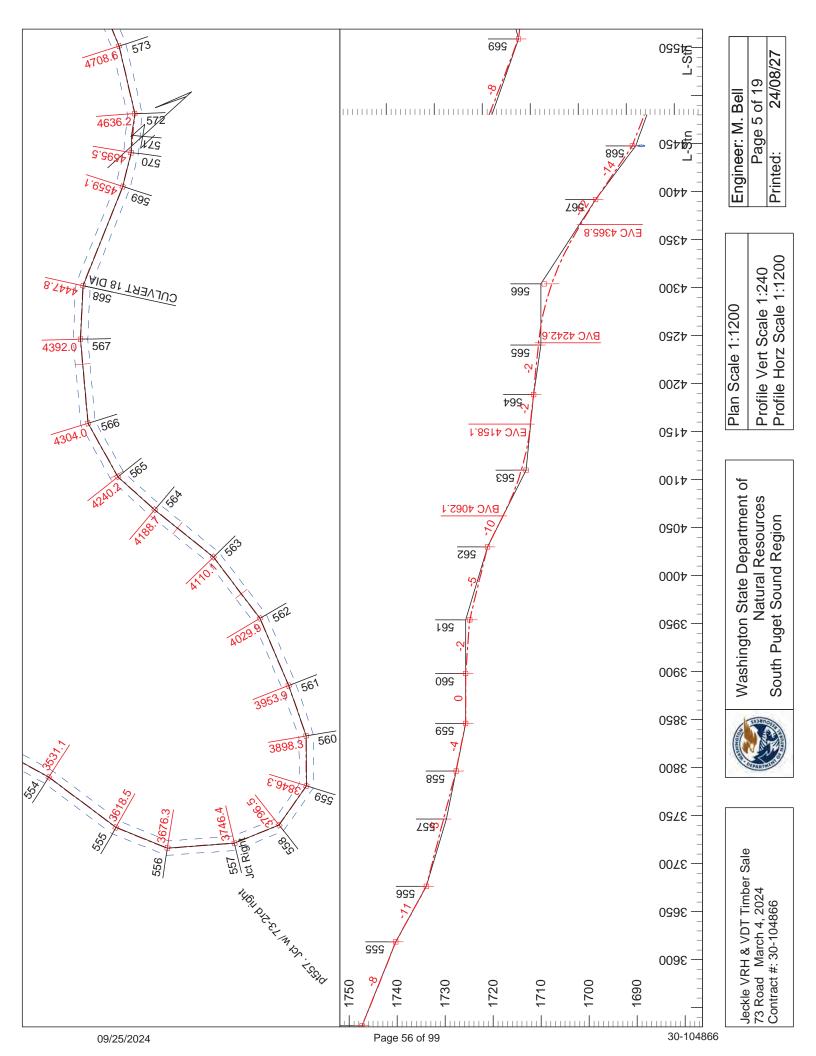
ROADENG Section		Sec	Section Scale 1:240 Page 3 of 3
E:\00_FY25_Jeckle\Jeckle RoadEng\7rd	rd_stockpile on road.tr1		24/03/18
7402.9			7444.0
<u>ਬ</u>	В	100	
100		90 TEW	D EH
0030	30 + 40	-30	01-
L-Stn: 7402.9 Grd.Lst: -8 H. Offset: C	-8 H. Offset: 0.0 Rd. Wd.: 15.2	L-Stn: 7444.0 Grd.Lst:	-12 H. Offset: 0.0 Rd. Wd.: 15.2
907 Ssl: -10 Cut Dp:		806	Cut Dp: 1.4
Grd.Nxt.: -12 Ssr: 2 CL Elev: 97	97.1 Rd. Wd. R: 7.6	Grd.Nxt.: -9 Ssr:	-5 CL Elev: 92.3 Rd. Wd. R: 7.6
7491.6		100	7535.5
06		06	
Q		08	
0 01- 02- 06-	30	07- 07-	01 02 05 04 040
909 Ssl: 0 Cut Dp:		910	Cut Dp: 0.0
Grd.Nxt.: -5 Ssr: 0 CL Elev: 88	88.0 Rd. Wd. R: 7.6	Grd.Nxt.: n/a Ssr:	0 CL Elev: 85.8 Rd. Wd. R: 7.6
Sol: OCELIEV.		וא	CL LIEV. 03.0

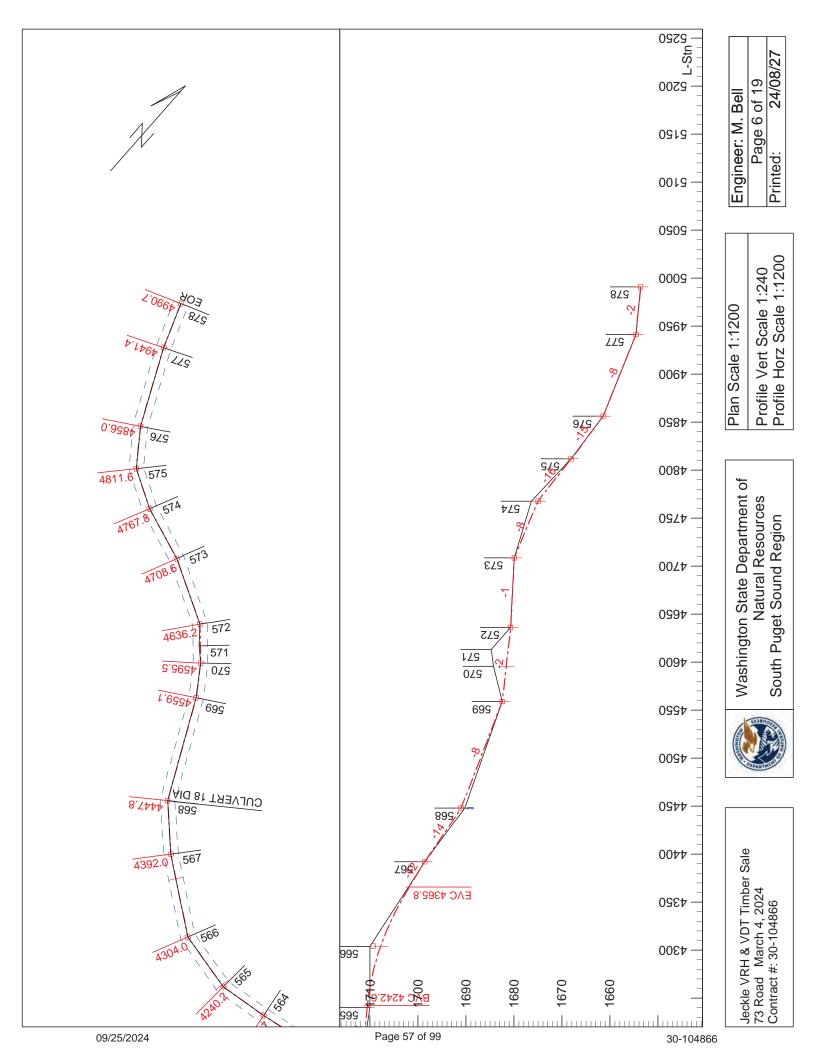












ROADENG Section	Section								Secti	Section Scale 1:240	le 1:24	<u>Q</u>	P	Page 7 of 19	
E:\00_FY25	E:\00_FY25_Jeckle\Jeckle RoadEng\73rd.tr1	Road	IEng\73rd.t	r1										24/08/27	
, , , , , , , , , , , , , , , , , , ,			0:0								82.0				
1810							2 0 0 1								
1800							1800								
179 0 4		٥١	- 0 -	- 20	- 30		179 6 		02	01	- 0 -	٥١ -	- 20	- 30	0:
L-Stn:	0.0 Grd.Lst:	<u> </u>	n/a H. Offset:	0.0	Rd. Wd.:	15.2	L-Stn:	82.0	Grd.Lst:	·	- H. O.	H. Offset:	-0.1	Rd. Wd.:	15.2
Index:						7.6	Index:		Ssl:				-0.3	Rd. Wd. L:	7.6
Grd.Nxt.:	-1 Ssr:	-	-8 CL Elev:	1800.0	Rd. Wd. R:	7.6	Grd.Nxt.:	2	Ssr:	`-	13 CL	CL Elev:	1799.5	Rd. Wd. R:	7.6
1840			139.3				1820				211.0				
<u> </u>							1810								
1800															
0 †- –	05	01		- 20	08 -		1800 04	06	02	01		٥١ -	- 20	06 -	2:
L-Stn : 1	8		5 H. Offset:] []	15.2	L-Stn:	211.0	Grd.Lst:		7 H. 0	H. Offset:	0.0	Rd. Wd.:	15.2
Index:	503 Ssl: 7 Ssr.		9 Cut Dp:	0.0	Rd. Wd. L:	7.6	Index:	504	Ssl:	,- 7	-10 Cut	Cut Dp:	0.0	Rd. Wd. L:	7.6
			9 -			2								; ; ;	2
1820							1830						\		
1810				N			1820								
04-	-30	01-	- 0 -	- 20	- 30		181 4	08-	02-	01-	- 0	01 -	- 20	- 30	
L-Stn: 2	266.7 Grd.Lst:	\ \ \ \ \ \	10 H. Offset:	0.0	Rd. Wd.:	15.2	L-Stn : Index:	341.5	Grd.Lst:	,- 1	10 H. C	H. Offset:	0.0	Rd. Wd.:	15.2
Grd.Nxt.:				181		7.6	Grd.Nxt.:		Ssr:	7			1821.3	Rd. Wd. R:	7.6

ROADENG Section	Section				Section	Section Scale 1:240	Page 8 of 19	
E:\00_FY25_	Jeckle\Jeckle	FY25_Jeckle\Jeckle RoadEng\73rd.tr1	tr1				24/08/27	
		430.7	\	1850		505.3		
1840				1840				
1830								
Ab	05	0l - 0 -	- 20	400	05	01	- 20	
L-Stn: 43	430.7 Grd.Lst:	10 H. Offset:	0.0 Rd. Wd.: 1		Grd.Lst:		4.9 Rd. Wd.:	15.2
Index:	507 Ssl:	-16 Cut Dp:	0.9 Rd. Wd. L:	7.6 Index:	508 Ssl:	-10 Cut Dp:	0.1 Rd. Wd. L: 7	7.6
- 1860		10				00		5
			,	7				
= 1850				000				
1840				1850		<u></u>		
		01-	50	07-		01-	30	
F	572.4 Grd.Lst:	11 H. Offset:	0.0 Rd. Wd.:	15.2 L-Stn:	638.6 Grd.Lst:	11 H. Offset:	7.5 Rd. Wd.:	15.2
)			-1.9 Rd. Wd. L:				Rd. Wd. L:	7.6
Grd.Nxt.:	11 Ssr:	12 CL Elev: 679.3	1845.7 Rd. Wd. R:	7.6 Grd.Nxt.:	11 Ssr:	12 CL Elev: 720.5	1852.7 Rd. Wd. R: 7	7.6
<u>=</u> 1870) 		1880			\	
1860				1870				
1111111		>		1860		<u> </u>		
1859	20	01	- 20	017-	-30	01 -	- 30	- - - -
	0 7	O I	0.1 Rd. Wd.: 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 0	J .	4 Rd. Wd.: 1	15.2
::		10 CL Elev:	1859.3 Rd. Wd. R:	7.6 Grd.Nxt.:		30 CL Elev:	Rd. Wd. R:	9.7
								7

ROADENG Section	Section				Sectio	Section Scale 1:240	Page 9 of 19	6
E:\00_FY25	5_Jeckle\Jeckle	FY25_Jeckle\Jeckle RoadEng\73rd.tr1					24/08/27	
1890		774.1		1890		830.3		
1880				1880				
0 	05	0 - 0 - 0 - 0 - 20	- 20	04-	02	01	- 30	07 -
	774.1 Grd.Lst:		રવે. Wd.: 1	L-Stn:	830.3 Grd.Lst:		0.0	15.2
Index:	513 Ssl:	-36 Cut Dp: 13 CL Elev:	0.5 Rd. Wd. L: 7.	7.6 Index:	514 Ssl: 11 Ssr:	-30 Cut Dp:	1.9 Rd. Wd. L: 1882.5 Rd. Wd. R:	7.6
1900		875.7		шшш		946.9		
1890				2 6 2 6 5 6				
1880								
\	-30 /	01	- 50	1886		01	- 30	07 -
L-Stn:	875.7 Grd.Lst:	7 H. Offset:	0.0 Rd. Wd.: 1	.2 L-Stn :	946.9 Grd.Lst:	1 H. Offset:	⇉	-
Index: Grd.Nxt.:	515 Ssl: 7 Ssr:	-36 Cut Dp: 15 CL Elev:	4.0 Rd. Wd. L: 7.6 1886.7 Rd. Wd. R: 7.6	7.6 Index: 7.6 Grd.Nxt.:	516 Ssl: 1 Ssr:	-36 Cut Dp: 20 CL Elev:	2.7 Rd. Wd. L: 1889.5 Rd. Wd. R:	7.6
		993.5		+		14-		
1900 1890				1890				
				1880				
1880	-30	01-	- 30	01/-	0230	01 -	- 30	07
	993.5 Grd.Lst:	ΞÓ		L-Stn :	1044.3 Grd.Lst:	-7 H. Offset:	0 (_
Grd.Nxt.:		-33 CL Elev:	Rd. Wd. E.	7.6 Grd.Nxt.:		-17 Cut Dp. 28 CL Elev:	-0.2 Rd. Wd. E. 1886.0 Rd. Wd. R:	0.7
			5	_				

ROADENG Section	ction				Sectio	Section Scale 1:240	Page 10 of 19) of 19
E:\00_FY25_Je	eckle\Jeckle R	FY25_Jeckle\Jeckle RoadEng\73rd.tr1			-		24/08/27	3/27
		1105.9				1142.2		
1890				1890				
1880				1880				
0230	02	- 0 - 00 -	- 30	187.0	02	01	- 30	07 -
L-Stn: 1105.9	.9 Grd.Lst:	-7 H. Offset:	Rd. Wd.:	15.2 L-Stn:				/d.: 15.2
Index: 51	519 Ssl: -7 Ser:	-28 Cut Dp:	-1.0 Rd. Wd. L:	7.6 Index:	520 Ssl:	-29 Cut Dp:	0.0 Rd. Wd. L: 1879 4 Rd Wd R	Rd. Wd. L: 7.6
		1 ≈ -	- 1	ЩШ	,	1 21 -		
<u>=</u> 1880				1880				
<u> </u>				18/0				
017	02			0 -	-30	0 -	- 20	0t -
L-Stn: 1198.5	1198.5 Grd.Lst:	-5 H. Offset:	0.0 Rd. Wd.:	15.2 L-Stn:	1222.3 Grd.Lst:	-5 H. Offset:	0.0 Rd. Wd.:	
Index: 52	521 Ssl:	-24 Cut Dp:	-2.0 Rd. Wd. L:	7.6 Index:	522 Ssl:	-20 Cut Dp:	-0.3 Rd. Wd. L:	Rd. Wd. L: 7.6
		126 -			?	165 -		
1880								
1870			1	2 2 -				
		_		1860	(<u> </u>		
96 97- 0E-	os	0 -	30	0t	οε- 	01-	50 - 30	07
12	1	4	Rd. Wd.:	ار د	1367.4	1	}	_
					524			
Grd.Nxt.:	-7 Ssr:	21 CL Elev:	1871.2 Rd. Wd. R:	7.6 Grd.Nxt.:	t.: -2 Ssr:	22 CL Elev:	1866.5 Rd. M	Rd. Wd. R: 7.6

ROADENG Section	ection				Secti	Section Scale 1:240	Page 11 of 19	6
E:\00_FY25_	Jeckle\Jeckle R	FY25_Jeckle\Jeckle RoadEng\73rd.tr1			-		24/08/27	
1880		1416.5		1880		1455.2		\
1870				1870				
1860				1860				
04	06	- 0 -	- 20	07	05	01-	- 00 - - 30 - 30	04
L-Stn: 1416.5	6.5 Grd.Lst:	-2 H. Offset:	ત્રવ. Wd.: 1	5.2 L-Stn :	1455.2 Grd.Lst:		0.0 Rd. Wd.:	_
Index: 5 Grd.Nxt.:	525 Ssl: -2 Ssr:	-35 Cut Dp: 26 CL Elev:	0.3 Rd. Wd. L: 7 1865.4 Rd. Wd. R: 7	7.6 Index: 7.6 Grd.Nxt.:	526 Ssl: -2 Ssr:	-55 Cut Dp: 24 CL Elev:	0.7 Rd. Wd. L: 1864.6 Rd. Wd. R:	7.6
		1495.8				1535.9		
1870				1870				
1860				1860	\			
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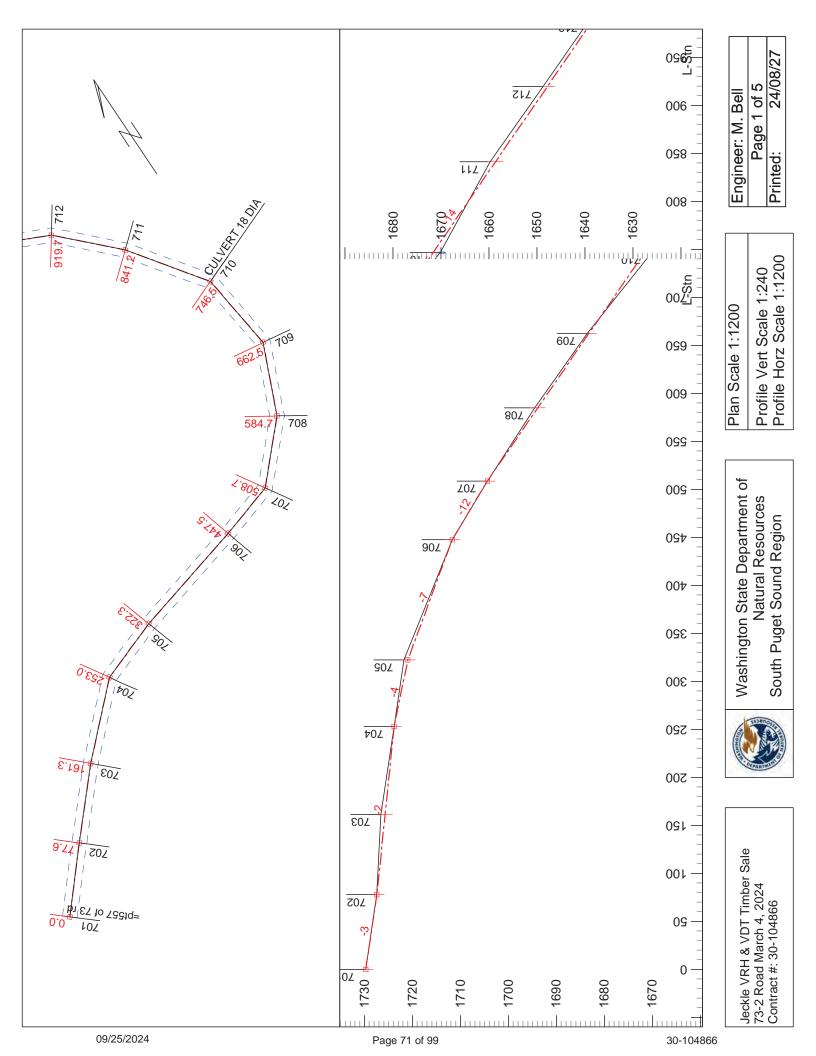
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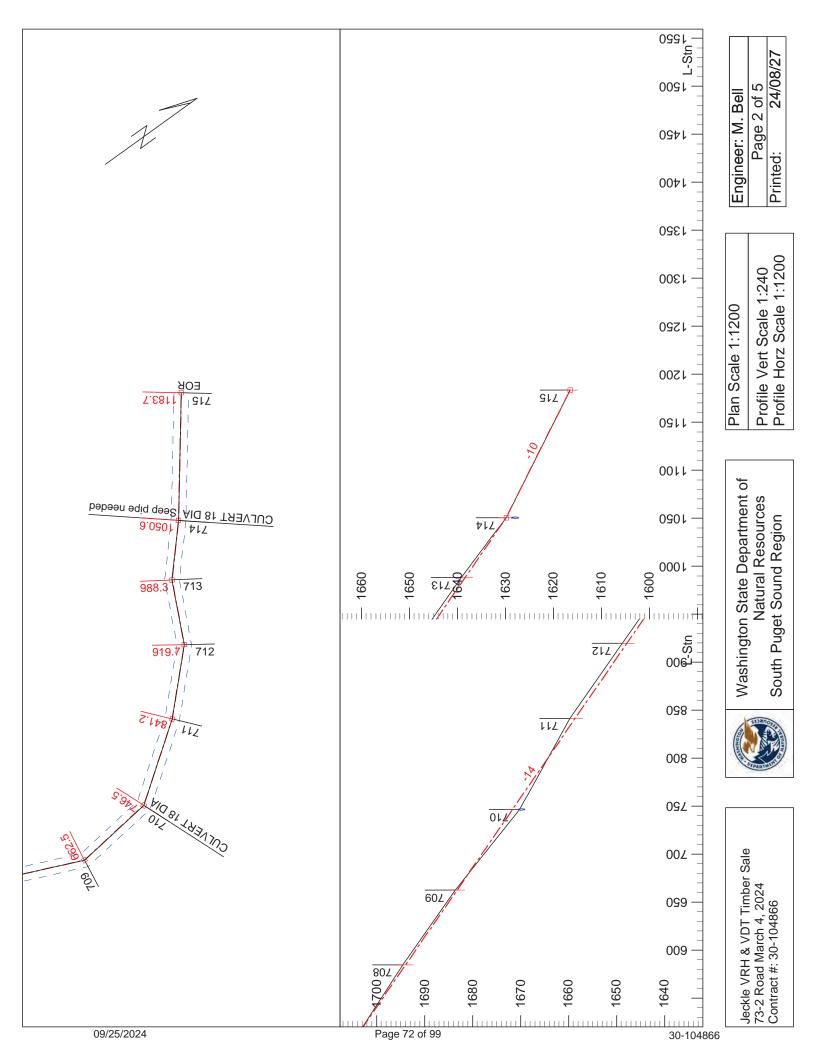
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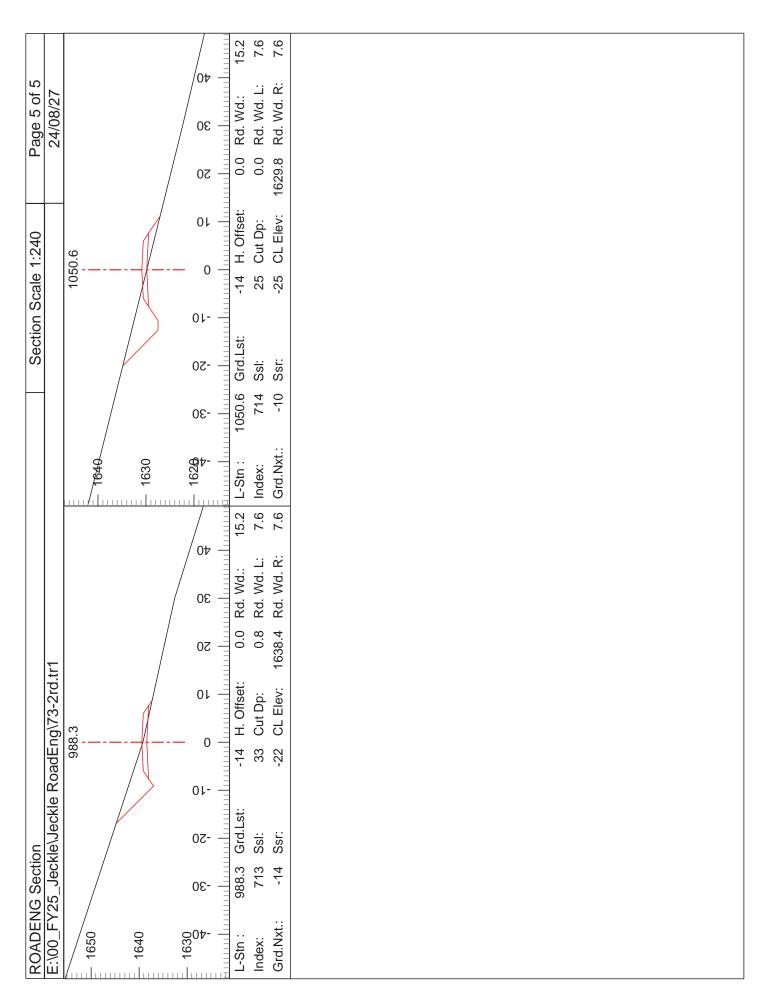
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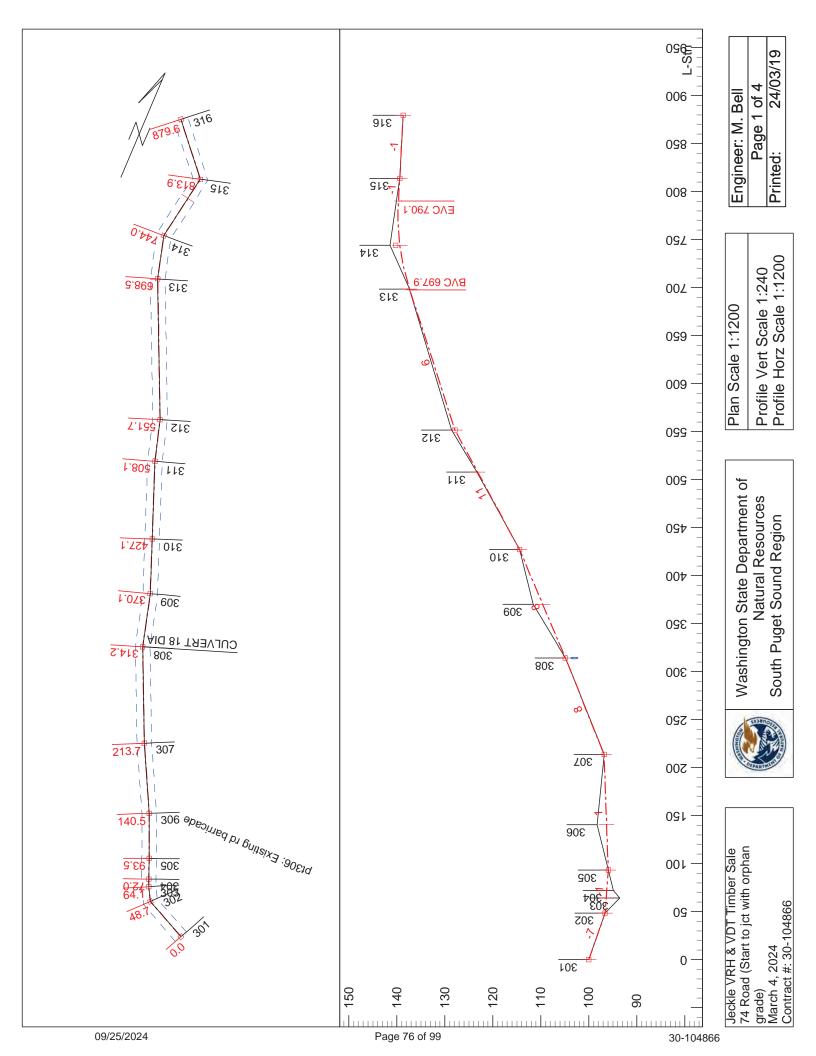




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1730									1730								
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Grd.Nxt.:			``			1721.0	Rd. Wd. R:			-12				CL Elev:	1711.7	Rd. Wd. R:	7.6

ROADENG Section	3 Section									Section	n Scale	Section Scale 1:240		Pa	Page 4 of 5	
E:\00_FY2	FY25_Jeckle\Jeckle RoadEng\73-2rd.tr1	kle Ro	adEng\73	-2rd.tr1										2	24/08/27	
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Index: Grd.Nxt.:	707 Ssl: -14 Ssr:		4 Cut Dp: -14 CL Elev:		0.0 R 1704.4 R	Rd. Wd. L: Rd. Wd. R:	7.6	Index: Grd.Nxt.:	708	Ssl: Ssr:	15	5 Cut Dp: 9 CL Elev:		0.6 F 1693.9 F	Rd. Wd. L: Rd. Wd. R:	7.6
1690			662.5					1680				746.5				
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L-Stn: Index: Grd.Nxt::	662.5 Grd.Lst: 709 SsI: -14 Ssr:);;	-14 H. Offset: 23 Cut Dp: -30 CL Elev:	7	0.0 R 0.4 R 1683.2 R	Rd. Wd.: 15.2 Rd. Wd. L: 7.6 Rd. Wd. R: 7.6	15.2	L-Stn: Index: Grd.Nxt::	746.5 710 -14	Grd.Lst: Ssl: Ssr:	-14 30 -38	-14 H. Offset: 30 Cut Dp: -38 CL Elev:	_	0.0 Rd. Wc -1.5 Rd. Wc 1671.7 Rd. Wc	Rd. Wd.: Rd. Wd. L: Rd. Wd. R:	15.2 7.6 7.6
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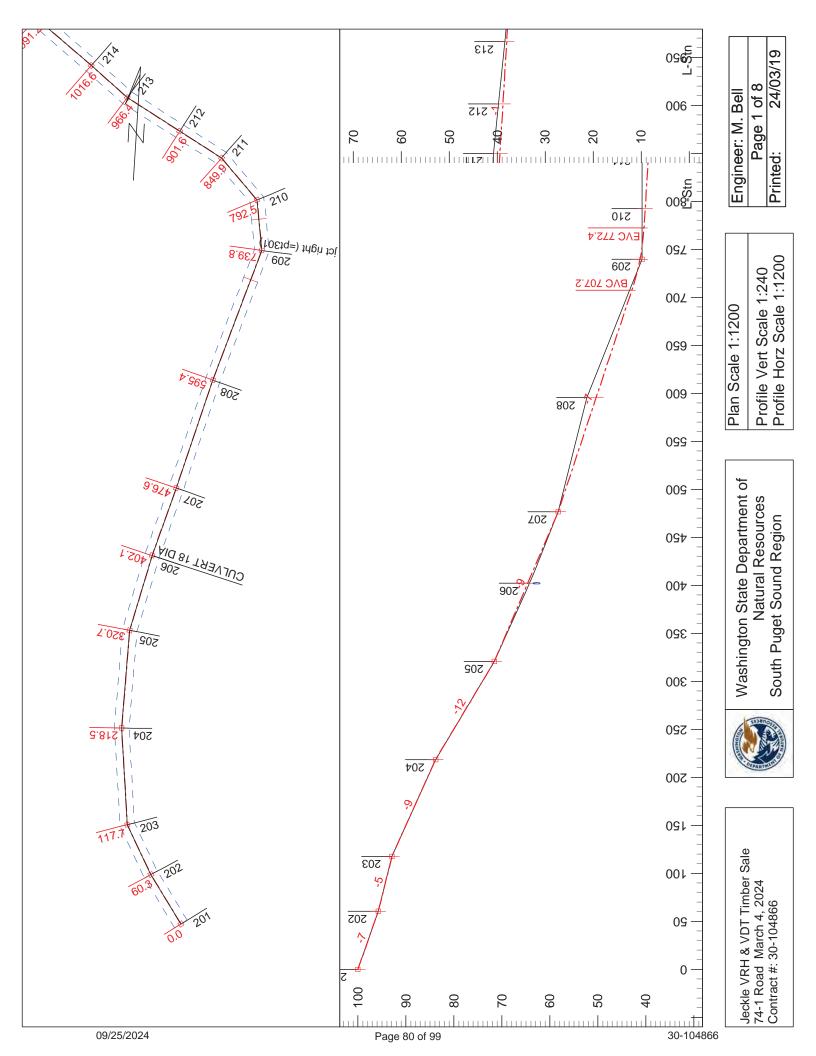


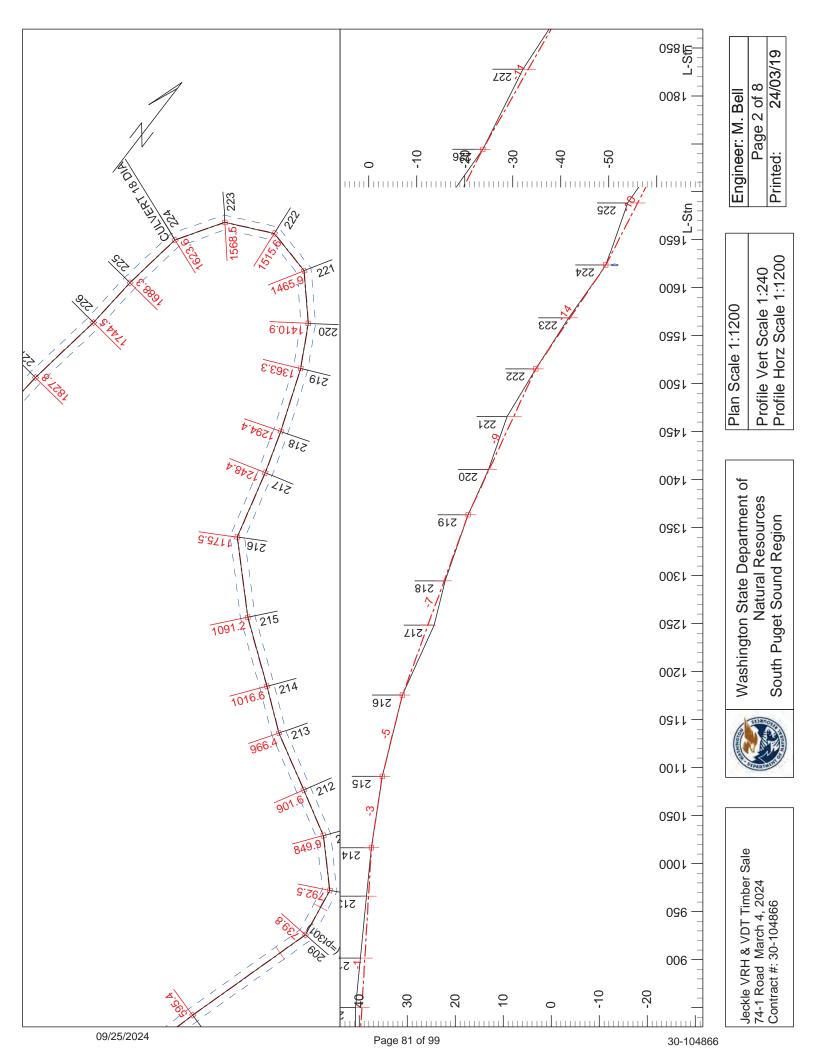


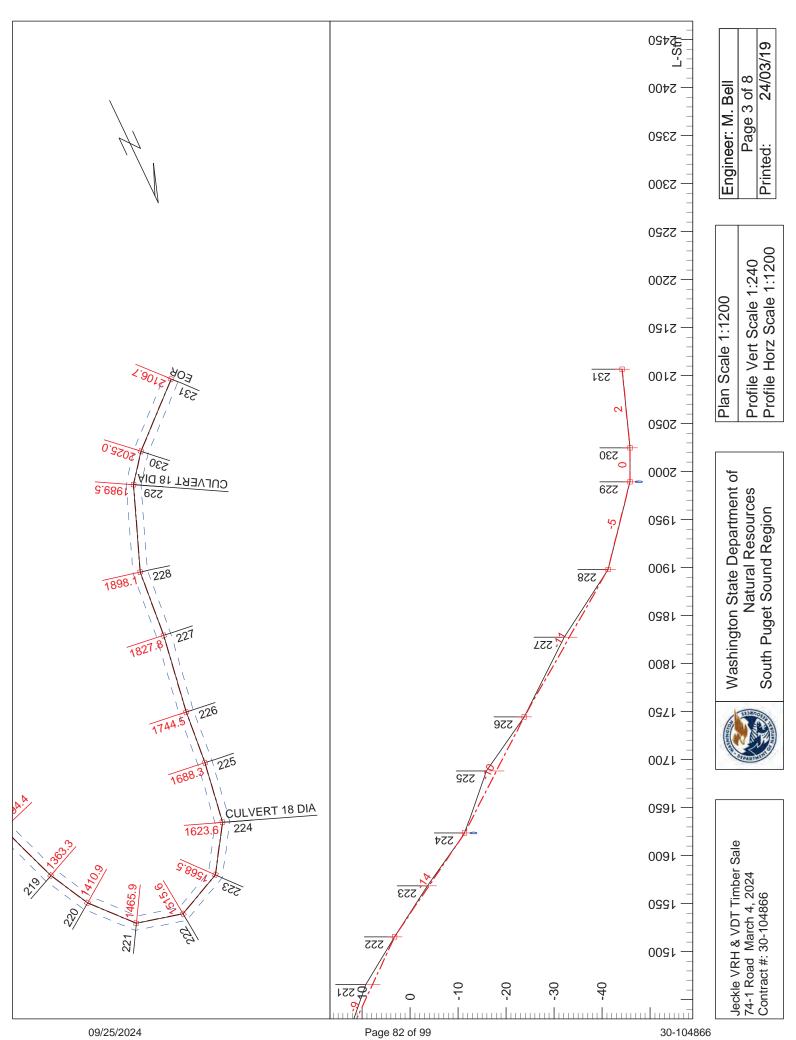
ROADENG Section			Section (Section Scale 1:240 P	Page 2 of 4
E:\00_FY25_Jeckle\Jeckle RoadEng\74rd.tr1	kle RoadEng\74rd.tr1				24/03/19
110	0:0	110		48.7	
100		100			
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Grd.Nxt.: -7 Ssr:	-6 CL Elev: 100.0 Rd. Wd. R: 7.6 64.1	Grd.Nxt.: -1	Ssr: -15	CL Elev: 96.6 Rd. Wd. R: 7.6 72.0	7.6
<u> </u>		2			
100		100			
06		06			
0430	01001	04	05	- 10	05 -
3rd.	I. Offset: 0.0 Rd. tut Dp: -2.9 Rd.	L-Stn: 72.0 Index: 304 Grd.Nxt: -1	Grd.Lst: -1 Ssl: -16 Ssr: 17	0.0 Rd. Wd.: -1.4 Rd. Wd. L	15.2 : 7.6 : 7.6
	93.5				
100		100			
06		06			
04	01-	07-	0230	01	07 -
L-Stn: 93.5 Grd.Lst: Index: 305 Ssl: Grd.Nxt.: 1 Ssr:	-1 H. Offset: 0.0 Rd. Wd.: 15.2 -9 Cut Dp: 0.0 Rd. Wd. L: 7.6 16 CL Elev: 95.9 Rd. Wd. R: 7.6	L-Stn: 140.5 Index: 306 Grd.Nxt.: 1	Grd.Lst: 1 Ssl: -9 Ssr: 13	H. Offset: 0.0 Rd. Wd.: 15.2 Cut Dp: 2.0 Rd. Wd. L: 7.6 CL Elev: 96.3 Rd. Wd. R: 7.6	15.2 :: 7.6 :: 7.6

E:\00_FY25_Jeckle\Jeckle RoadEng\74rd.tr1 213.7 100				0.1.1		4
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C		110				
	•	100		<i>)</i> 	`	
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L-Stn: 213.7 Grd.Lst: 1 H. Offset: 0.0 Rd. Wd.: 15.2		L-Stn: 314.2 G	Grd.Lst: 8	H. Offset: 0.0 F	Rd. Wd.: 15.2	
4t.: 8 Ssr: 20 CL Elev: 96.8		300 t.: 8		CL Elev: 104.9	Rd. Wd. R: 7.6 Rd. Wd. R: 7.6	
370.1		130		427.1		
120		120				
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20 30 30 10 - 10 - 20	07 -	04	02	- 0 -	- 30	07 -
3rd.Lst: 8 H. Offset: 0.0 Rd. Wd.: 15 3sl: -8 Cut Dp: 2.0 Rd. Wd. L: 7 3sr: 14 CL Elev: 109.6 Rd. Wd. R: 7		L-Stn: 427.1 G Index: 310 Si Grd.Nxt: 11 Si	8 ώ <u>4</u>	H. Offset: 0.0 Cut Dp: 0.0 CL Elev: 114.4	3d 3d 3d	
508.1		140		551.7		
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ROADENG Section	Section Scale 1:240 Page 4 of 4
E:\00_FY25_Jeckle\Jeckle RoadEng\74rd.tr1	
698.5	744.0
140	140
40 20 20 20 30 20 20	30 40 30 30 30 30
698.5 Grd.Lst: 6 H. Offset: 0.0 Rd. Wd.: 15.2 313 Ssl: 0 Cut Dp: 0.0 Rd. Wd. L: 7.6 tt: 6 Ssr: 17 CL Elev: 137.3 Rd. Wd. R: 7.6	744.0 Grd.Lst: 314 Ssl: tt.: 3 Ssr: 2
813.9	879.6
140	140
10 0 0	
2, 9, 9,	L-Stn: 879.6 Grd.Lst: -1 H. Offset: 0.0 Rd. Wd.: 15.2 Index: 316 Ssl: 23 Cut Dp: 0.0 Rd. Wd. L: 7.6 Grd.Nxt.: n/a Ssr: 13 CL Elev: 138.7 Rd. Wd. R: 7.6







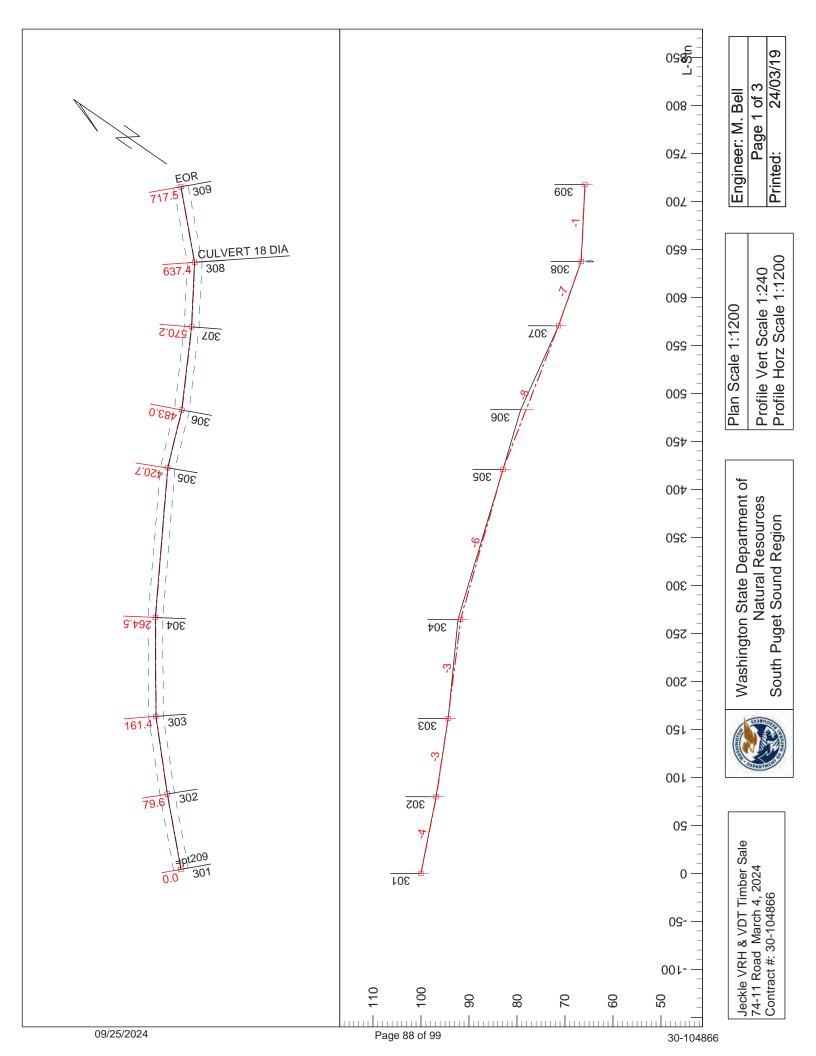
ROADENG Section	Section	Section Scale 1:240 Page 4 of 8
E:\00_FY25_Jeckle\Jeckle RoadEng\74-1rd.tr1		24/03/19
110	110	60.3
100	06	
0t30 - 30 - 30 - 30	04	- 10 - 10 - 10 - 10
0.0 Grd.Lst: n/a H. Offset: 0.0 Rd. Wd.: 15 201 Ssl: 0 Cut Dp: 0.0 Rd. Wd. L: 7 -7 Ssr: 0 CL Elev: 100.0 Rd. Wd. R: 7		-7 H. Offset: 0.0 Rd. Wd.: 15.2 7 Cut Dp: 0.0 Rd. Wd. L: 7.6 20 CL Elev: 95.8 Rd. Wd. R: 7.6
	111111	218.5
100	06 08	
04	07 07	- 10 - 20 - 30 - 40
rd.Lst: -5 H. Offset: 0.0 Rd. Wd.: sl: 22 Cut Dp: 0.0 Rd. Wd. I sr: -30 CL Elev: 92.9 Rd. Wd. I	218.5 Grd.Lst:	H. Offset: 0.0 Rd Cut Dp: 0.0 Rd CL Elev: 83.8 Rd
320.7	08	402.1
08	02	
70	09	
0530 0130 0130	0740	-10 -10
L-Stn: 320.7 Grd.Lst: -12 H. Offset: 0.0 Rd. Wd.: 15.2 Index: 205 Ssl: 9 Cut Dp: 0.0 Rd. Wd. L: 7.6 Grd.Nxt.: -9 Ssr: -10 CL Elev: 71.6 Rd. Wd. R: 7.6	L-Stn: 402.1 Grd.Lst: Index: 206 Ssl: Grd.Nxt.: -9 Ssr:	-9 H. Offset: 0.0 Rd. Wd.: 15.2 3 Cut Dp: -0.4 Rd. Wd. L: 7.6 -7 CL Elev: 64.6 Rd. Wd. R: 7.6

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739.8 Grd.Lst: -9 H. Offset: 0.0 Rd. Wd.: 15.2 Index: 208 Ssi: -7 Ssr: -5 CL Elev: 58.3 Rd. Wd. R: 7.6 Grd.Nxt:: -7 Ssr: -5 CL Elev: 58.3 Rd. Wd. R: 7.6 Grd.Nxt:: -7 Ssr: -7 Ssr: -7 Ssr: -5 CL Elev: 58.3 Rd. Wd. R: 7.6 Grd.Nxt:: -7 Ssr:	L-Stn: 595.4 Grd.Lst: -7 H. Offset: 0.0 Rd. Wd.: 15.2 Index: 208 Ssl: 2 Cut Dp: 2.0 Rd. Wd. L: 7.6 Grd.Nxt:: -7 Ssr: -5 CL Elev: 50.4 Rd. Wd. R: 7.6 50 40 40 40 40 40 40 40 40 40 40 40 40 40
17 Ssr5 CL Elev. 58.3 Rd. Wd. R. 7.6 Grd.Nxt.: -7 Ssr7 Ssr.	Grd.Nxt.: -7 Ssr: -5 CL Elev: 50.4 Rd. Wd. R: 7.6 50 40 40 40 40 40 40 40 40 40
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739.8 Grd.Lst: -4 H. Offset: 0.0 Rd. Wd.: 15.2 209 Ssl: -5 CLE Elev: 41.2 Rd. Wd. R: 7.6 Grd.Nxt: -1 Ssr: -5 CLE Elev: 41.2 Rd. Wd. R: 7.6 Grd.Nxt: -1 Ssr: -5 CLE Elev: 41.2 Rd. Wd. R: 7.6 Grd.Nxt: -1 Ssr: -5 CLE Elev: 41.2 Rd. Wd. R: 7.6	L-Stn: 792.5 Grd.Lst: -1 H. Offset: 0.0 Rd. Wd.: 1 Index: 210 Ssl: 2 Cut Dp: 0.6 Rd. Wd. L
tt: -4 Ssr: -5 CL Elev: 41.2 Rd. Wd. R: 7.6 Grd.Nxt: -1 Ssr:	210 3SI. 2 CUL DP. 0.0
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849.9	901.6
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10 40 40 30 30 30 30 30 3	0t30 8 0t -
L-Stn: 849.9 Grd.Lst: -1 H. Offset: 0.0 Rd. Wd.: 15.2 L-Stn: 901.6 Grd.Lst: -1 Index: -1 Ssl: 2 Cut Dp: 1.3 Rd. Wd. L: 7.6 Index: 212 Ssl: 2 Ssl: 2 Grd.Nxt.: -1 CL Elev: 39.5 Rd. Wd. R: 7.6 Grd.Nxt.: -1 Ssr: -1 Ssr: -1	901.6 Grd.Lst: 212 Ssl: t.: -1 Ssr:

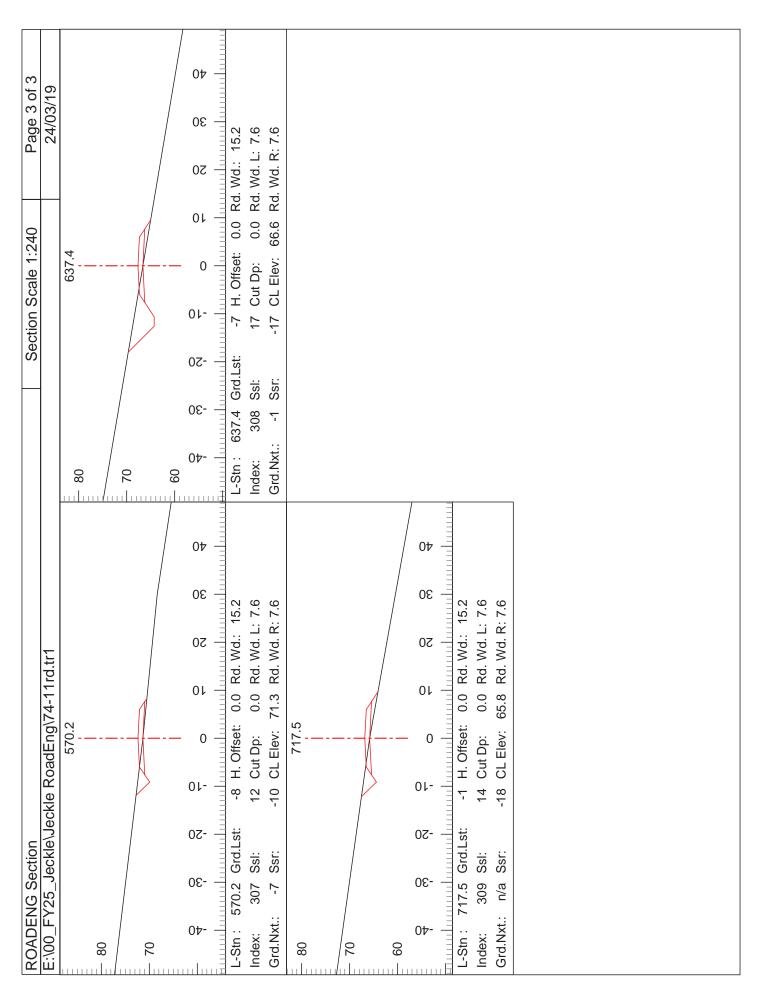
ROADENG Section			Section Scale 1:240 Page	Page 6 of 8
E:\00_FY25_Jeckle\Jeckle RoadEng\74-1rd.tr1	IEng\74-1rd.tr1			24/03/19
	966.4	- 50	1016.6	
40		- 40		
00- 00- 00-	10 20 30 40	06- 04-	0 0 10 30	01⁄2
L-Stn: 966.4 Grd.Lst: -1 H. Offset Index: 213 Ssl: 1 Cut Dp: Grd.Nxt: -1 Ssr: 0 CL Elev:	1 Cut Dp: 0.4 Rd. Wd. E. 7.6 0 CL Elev: 38.1 Rd. Wd. R: 7.6	L-Stn: 1016.6 Grd.Lst: Index: 214 Ssl: Grd.Nxt: -3 Ssr:	st: -1 H. Offset: 0.0 Rd. Wd.: 15.2 -4 Cut Dp: 0.0 Rd. Wd. L: 7.6 5 CL Elev: 37.5 Rd. Wd. R: 7.6	
1	1091.2		1175.5	
40		40		
30		30		
	- 10	5040 40	01 -	0† -
L-Stn : 1091.2 Grd.Lst: -3 H. Offset: Index: 215 Ssl: -8 Cut Dp: Grd.Nxt:: -5 Ssr: 8 CL Elev: 3	H. Offset: 0.0 Rd. Wd.: 15.2 Cut Dp: 0.0 Rd. Wd. L: 7.6 CL Elev: 35.2 Rd. Wd. R: 7.6	L-Stn: 1175.5 Grd.Lst: Index: 216 Ssl: Grd.Nxt: -7 Ssr:	-st: -5 H. Offset: 0.0 Rd. Wd.: 15.2 -14 Cut Dp: 0.0 Rd. Wd. L: 7.6 10 CL Elev: 31.0 Rd. Wd. R: 7.6	
	1248.4		1294.4	
30		30		
20		70		
0730	- 00 -	05	0110	0t -
L-Stn: 1248.4 Grd.Lst: -7 H. Offset Index: 217 Ssl: -13 Cut Dp: Grd.Nxt.: -7 Ssr: 14 CL Elev:	H. Offset: 0.0 Rd. Wd.: 15.2 Cut Dp: -1.2 Rd. Wd. L: 7.6 CL Elev: 25.7 Rd. Wd. R: 7.6	L-Stn: 1294.4 Grd.Lst: Index: 218 Ssl: Grd.Nxt.: -7 Ssr:	-st: -7 H. Offset: 0.0 Rd. Wd.: 15.2 -10 Cut Dp: -0.2 Rd. Wd. L: 7.6 12 CL Elev: 22.3 Rd. Wd. R: 7.6	

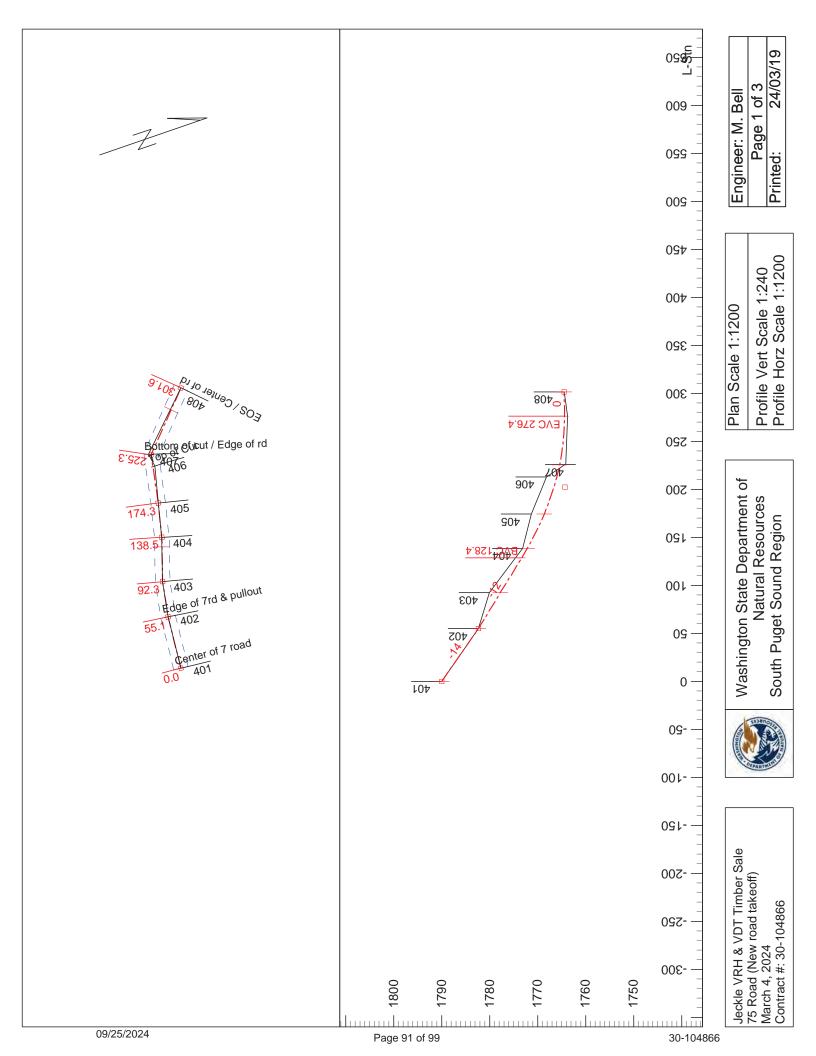
ROADENG Section	Section Scale 1:240	Dage 7 of 8
E:\00_FY25_Jeckle\Jeckle RoadEng\74-1rd.tr1		
1363.3	1410.9	
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20		
10	10	
-30 -30		- 10
L-Stn: 1363.3 Grd.Lst: -7 H. Offset: 0.0 Rd. Wd.: 15.2	L-Stn: 1410.9 Grd.Lst: -9 H. Offset: 0	9 H. Offset: 0.0 Rd. Wd.: 15.2
Index: 219 Ssl: -13 Cut Dp: 0.0 Rd. Wd. L: 7.6 Grd Nxt9 Ssr: -2 Cl Fley: 17.3 Rd Wd R: 7.6	Index: 220 Ssl: -5 Cut Dp: 0 Grd Nxt -9 Ssr 0 Cl Fley: 12	0.1 Rd. Wd. L: 7.6 129 Rd Wd R: 76
1465.9	1515.0	
	10	
10		
	0	
- 0 00	01	- 10
L-Stn : 1465.9 Grd.Lst: -9 H. Offset: 0.0 Rd. Wd.: 15.2	L-Stn: 1515.6 Grd.Lst: -9 H. Offset: 0	0.0 Rd. Wd.: 15.2
Index: 221 Ssl: -6 Cut Dp: 1.4 Rd. Wd. L: 7.6 Grd.Nxt.: -9 Ssr: -13 CL Elev: 7.8 Rd. Wd. R: 7.6	Index: 222 Ssl: 2 Cut Dp: 0 Grd.Nxt:: -14 Ssr: -14 CL Elev: 3	0.0 Rd. Wd. L: 7.6 3.2 Rd. Wd. R: 7.6
1568.5	1623.6	
	0	
	-10	
-10	C	
0t	01- 02- 05- 07-	30 - 30
L-Stn: 1568.5 Grd.Lst: -14 H. Offset: 0.0 Rd. Wd.: 15.2 Index: 223 Ssl: 10 Cut Dp: 0.3 Rd. Wd. L: 7.6	L-Stn: 1623.6 Grd.Lst: -14 H. Offset: 0 Index: 224 Ssl: 18 Cut Dp: 0	0.0 Rd. Wd.: 15.2 0.0 Rd. Wd. L: 7.6
Grd.Nxt.: -14 Ssr: -28 CL Elev: -3.9 Rd. Wd. R: 7.6	Grd.Nxt.: -10 Ssr: -20 CL Elev: -11.4	.4 Rd. Wd. R: 7.6

ROADENG Section	Section Scale 1:240	Page 8 of 8
E:\00_FY25_Jeckle\Jeckle RoadEng\74-1rd.tr1		24/03/19
1688.3	1744.5	
L-Stn: 1688.3 Grd.Lst: -10 H. Offset: 0.0 Rd. Wd. L: 7.6 Grd.Nxt: -10 Ssr: -25 CL Elev: -18.0 Rd. Wd. R: 7.6	Part Part	Rd. Wd. L: 7.6 Rd. Wd. R: 7.6 Rd. Wd. R: 7.6
L-Stn: 1827.8 Grd.Lst: -11 H. Offset: 0.0 Rd. Wd. I: 7.6 Grd.Nxt: -11 Ssr: -30 CL Elev: -33.2 Rd. Wd. R: 7.6	898.1 Grd.Lst: -11 H. Offset: 0.0 228 Ssl: -18 CL Elev: -41.2	20 30 40 Rd. Wd.: 15.2 Rd. Wd. L: 7.6 Rd. Wd. R: 7.6
-40	-40	
L-Stn: 1989.5 Grd.Lst: -5 H. Offset: 0.0 Rd. Wd. L: 7.6 Grd.Nxt: 0 Ssr: -11 CL Elev: -45.8 Rd. Wd. R: 7.6	L-Stn: 2025.0 Grd.Lst: 0 H. Offset: 0.0 Rd. Grd.Nxt:: 2 Ssr: -10 CL Elev: -45.8 Rd.	20 30 40 Rd. Wd.: 15.2 Rd. Wd. L: 7.6 Rd. Wd. R: 7.6

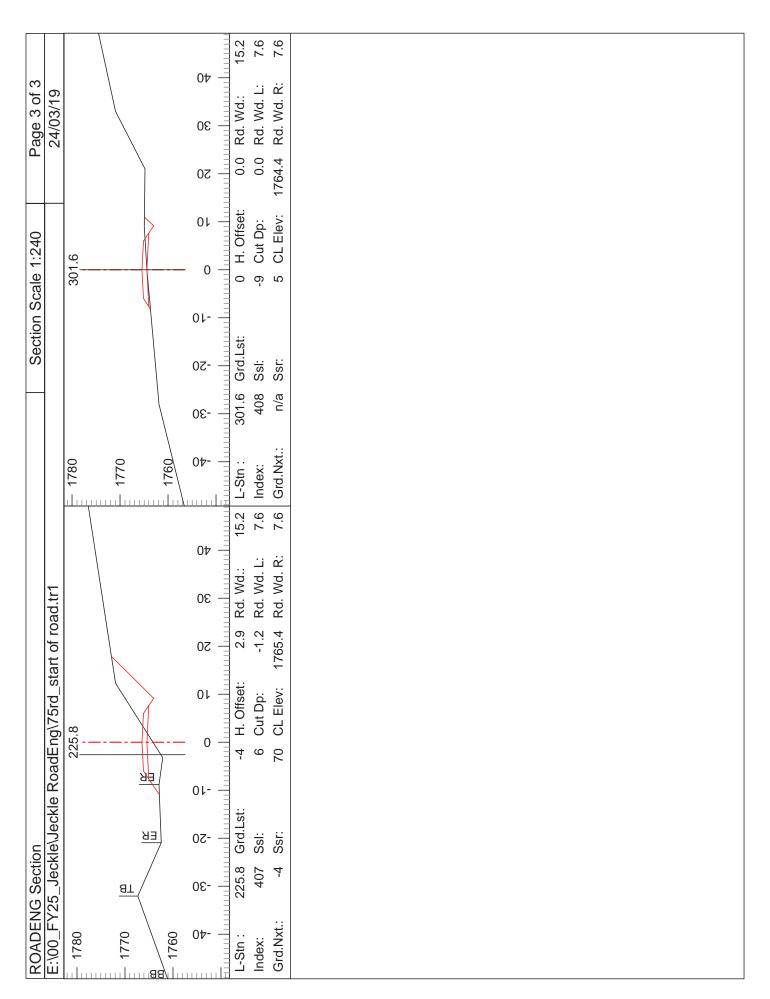


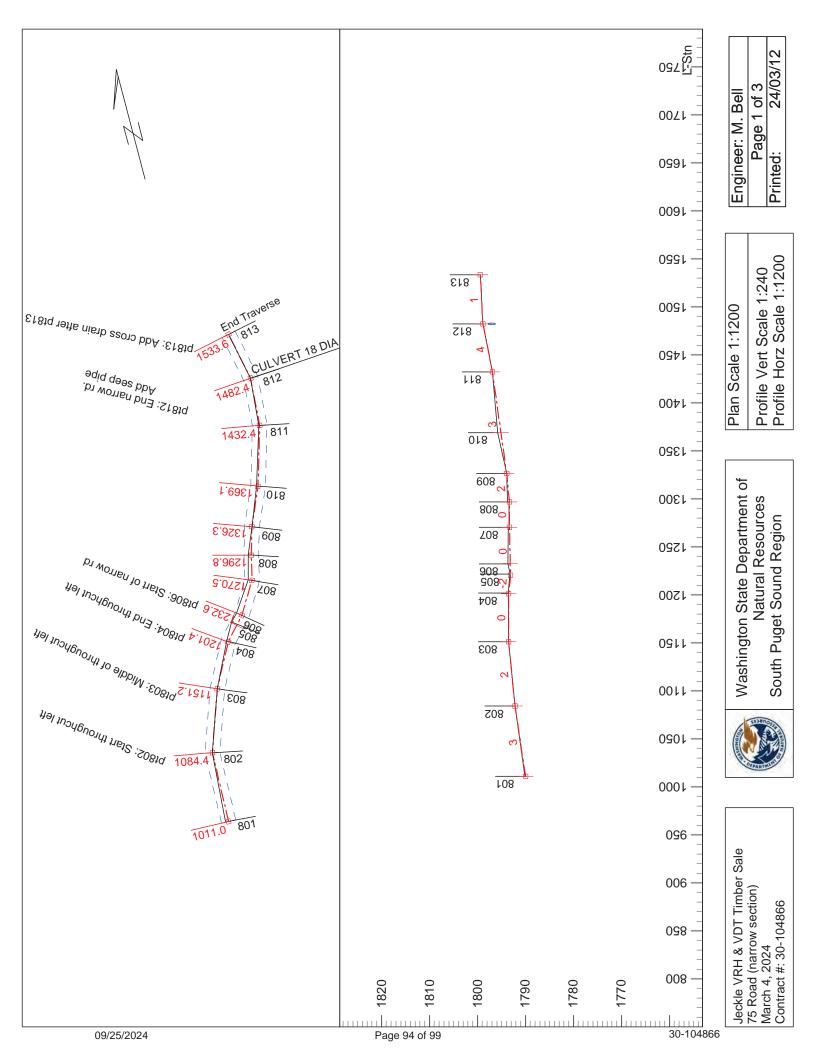
ROADENG Section		Section Scale 1:240 Page 2 of 3
E:\00_FY25_Jeckle\Je	E:\00_FY25_Jeckle\Jeckle RoadEng\74-11rd.tr1	24/03/19
110	0.0	79.6
190		100
07 01 06	0 0 02 	0430 40 20 20 20 20
0.0 G 301 Si 4-		79.6 Grd.Lst: - 302 Ssl: tt.: -3 Ssr: -
110	161.4	264.5
100		100
06		06
04	- 10	01 -
L-Stn: 161.4 Grd.Lst: Index: 303 Ssl: Grd.Nxt: -3 Ssr:	-3 H. Offset: 0.0 Rd. Wd.: 15.2 2 Cut Dp: 0.0 Rd. Wd. L: 7.6 -4 CL Elev: 94.4 Rd. Wd. R: 7.6	L-Stn: 264.5 Grd.Lst: -3 H. Offset: 0.0 Rd. Wd.: 15.2 Index: 304 Ssl: 3 Cut Dp: 0.6 Rd. Wd. L: 7.6 Grd.Nxt.: -6 Ssr: -13 CL Elev: 91.7 Rd. Wd. R: 7.6
06	420.7	483.0
80		08
0430	-10 -10 -10 -10	0430 30 30 30
L-Stn: 420.7 Grd.Lst: Index: 305 Ssl: Grd.Nxt.: -8 Ssr:	-6 H. Offset: 0.0 Rd. Wd.: 15.2 6 Cut Dp: 0.0 Rd. Wd. L: 7.6 -9 CL Elev: 82.9 Rd. Wd. R: 7.6	L-Stn: 483.0 Grd.Lst: -8 H. Offset: 0.0 Rd. Wd.: 15.2 Index: 306 Ssl: 8 Cut Dp: 1.1 Rd. Wd. L: 7.6 Grd.Nxt.: -8 Ssr: -13 CL Elev: 78.1 Rd. Wd. R: 7.6





ROADEN	ROADENG Section											Secti	Section Scale 1:240	le 1:2	40		Page 2 of 3	3	
E:\00_FY;	FY25_Jeckle\Jeckle RoadEng\75rd	Jeckle F	RoadE	ng\75rc		start of road.tr1	d.tr1										24/03/19		
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06) 					<u>a</u>				1780	30									
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1790					<u> </u>		\overline{DT}		1780	30									
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Grd.Nxt.:		. ;.	2 7		,.		Rd. Wd. R:			:: dxt.:		Ssr:	`		CL Elev:	1772.1	Rd. Wd. R:		7.6
1780			1	174.3					1780	30				212.7					
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1/00 1/00 1/10	05	01-		0 —	01	- 20	30	07		07-	-30	-20	01-	0 =	01 =	50	30	07	=
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Grd.Nxt.:	405 SSI.		15	CL Elev:			Rd. Wd. R:	7.0 ?: 7.6	Grd.Nxt.:	۲. dxt.:		Ssr:	r 'i		Cut Dp. CL Elev:	2.1 1766.0	Rd. Wd. R.		7.6
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ROADENG Section	Section				Section 5	Section Scale 1:240	Page 2 of 3	of 3
E:\00_FY25_	FY25_Jeckle\Jeckle RoadEng\75rd		_narrow section.tr1				24/03/12	12
1111111		1084.4		Inn		1151.2		
1800				1800				
1790				7 1 0 0				
				08/1				
04	0530	0 -	- 20	07-	05	01 -	- 30	07 -
L-Stn: 10		3 H. Offset:	0.0 Rd. Wd.:	15.2 L-Stn:	∄	2 H. Offset:	0.0 Rd. Wd.:	.: 15.2
Index:	802 Ssl:	-1 Cut Dp:	Rd. Wd. L:		803 Ssl:			
Grd.Nxt.:	2 Ssr:	4 CL Elev:	1792.2 Rd. Wd. R:	7.6 Grd.Nxt.:	0 Ssr:	2 CL Elev:	1793.5 Rd. Wd. R:	. R: 7.6
1800		1201.8		1800		1221.8		
1790		<u></u>		1790		·—		
04-	-30	01 -	- 30 - 30	07-	30	01 -	- 30	01/
L-Stn: 12 Index:	1201.8 Grd.Lst: 804 Ssl:	-2 H. Offset: -3 Cut Dp:	:.	15.2 L-Stn: 7.6 Index:	1221.8 Grd.Lst: 805 Ssl:	0 H. Offset: -8 Cut Dp:	┨	.: 15.2 . L: 7.6
Grd.Nxt.:		2 CL Elev:	1793.5 Rd. Wd. R:	7.6 Grd.Nxt.:	0 Ssr:	1 CL Elev:	1793.1 Rd. Wd. R:	
1800		1232.4		1800		1270.4		
1790				1790				
0 -	-30	01 -	02 –	0 -	-30	01 -	- 30	07 -
L-Stn: 12	1232.4 Grd.Lst: 806 Ssl:	0 H. Offset:	6.0 Rd. Wd.: 18 0.5 Rd. Wd. L:	15.2 L-Stn: 7.6 Index:	1270.4 Grd.Lst: 807 Ssl:	0 H. Offset: -5 Cut Do:	4.0 Rd. Wd.:	.: 15.2 . L: 7.6
Grd.Nxt.:						3 CL Elev:	1793.3 Rd. Wd. R:	

ROADEN	ROADENG Section				Section	Section Scale 1:240	Page 3 of 3	3
E:\00_FY;	25_Jeckle\Jeckl	FY25_Jeckle\Jeckle RoadEng\75rd_r	_narrow section.tr1				24/03/12	
1800		1296.8		1800		1326.3		
1790				1790				
07-	05	01-	- 50 - 50	0†-	20	- 0 -	- 30	07 -
L-Stn:	1296.8 Grd.Lst:		3.2 Rd. Wd.: 1	-	1326.3 Grd.Lst:	2 H. Offset:	0.0	_
Index:	808 Ssl:	-8 Cut Dp: 12 CL Elev:	0.4 Rd. Wd. L: 1793.3 Rd. Wd. R:	7.6 Index: 7.6 Grd.Nxt.:	809 Ssl: 3 Ssr:	-7 Cut Dp: 11 CL Elev:	0.0 Rd. Wd. L: 1793.9 Rd. Wd. R:	3.7 7.6
1810		1369.1		\perp		1432.4		
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L-Stn :	_	w (1.7 Rd. Wd.: 1	#	╡		Ⅎ	-
Grd.Nxt.:	810 SSI: 3 SSI:	-13 CUT DP: 11 CL Elev:	1795.1 Rd. Wd. R:	7.6 Grd.Nxt.:	811 58: 4 Ssr:	-9 Cut Dp: 3 CL Elev:	0.0 Kd. Wd. L: 1796.9 Rd. Wd. R:	6.7 :: 7.6 ::
		1482.4				1533.6		
1810				1810				
1800				1800				
1790 40	20	01	05 -	1798 1798	05	- 0 -	- 30	01/2
L-Stn:	2.4 G	4 H. O	0.0 Rd. Wd.: 1	_	_	Ξ.	-	-
Index:	812 Ssl: 1 Scr:	-17 Cut Dp:	0.0 Rd. Wd. L:	7.6 Index:	813 SSI:	-8 Cut Dp:	0.0 Rd. Wd. L:	7.6
GIG:IVAL:			74. 74. 7.	_				

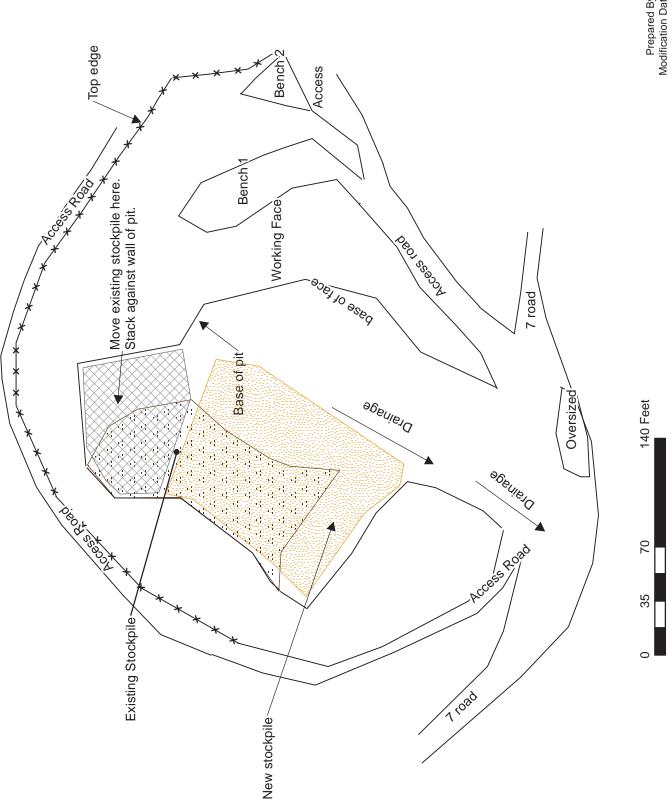
Legal Description: SE ¼ SE ¼, Section 7, Township15 North, Range 5 East, W.M.

Rock Pit Name: Black Rock Pit

PIT DEVELOPMENT PLAN, pg 1 of 2

- Pile root wads and organic debris larger than one cubic foot in volume in clean, burnable piles as directed by the Contract Administrator.
- Purchaser may use the existing stockpile first and then crush a new stockpile or may crush rock and use that in lieu of stockpile rock on the 7rd.
- After surfacing, restack remainder of Existing Stockpile into hatched area on map showing Move Existing Stockpile Here. Then the new stockpile can be placed in the Existing Stockpile area.
- A minimum stripping width of 20 feet must be maintained from all pit faces and at the termination of operations pit shall be left in said condition.
- Pile all reject rock and overburden away from pit working area as shown or as directed by the Contract Administrator. New oversize material shall not exceed 5% of the total mined for the sale. Oversize material is defined as rock fragments larger than 1.5 feet in any dimension.
- Pit floor shall be sloped to allow drainage as shown. No ponding will be allowed.
- Maximum face height shall not exceed 30 feet in height.
- Working bench width shall be a minimum of 20 feet.
- At the termination of use the pit face shall have a maximum backslope of ¼:1 for hardpan and solid rock and ½:1 for fractured or loose rock.
- At the termination of use, all overburden shall have a maximum backslope of 1:1.
- At the termination of use, the access road shall be blocked to all motorized traffic.
- Rock shall not be used from any stockpile without prior written approval from the Contract Administrator.
- Pit expansion and removal of any timber must be approved by Contract Administrator.
- At the completion of operations, Contractor shall request written approval from the Contract Administrator for final rock source condition and compliance with the terms of this plan.
- Quantity and Quality of ballast pit are not guaranteed by the State.
- See "Black Rock Pit Plan View, pg 2 of 2" drawing for additional information.

~ o f 7 \mathbf{b} Black Rock Pit Development Plan,



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ROCK ACCOUNTABILITY DETAIL

SALE	NAME:		F	Purchaser:	
Agree	ement #:			Contractor:	
Rock	Quarry/Pit: 1	Fruck No:	т	ruck No:	
		DAILY RC	OCK LOAD RECOR	D	
DATE	LOAD TIME	ROAD NO.	TYPE OF ROCK	QUANTITY	COMMENTS
		Tarvella District Control			
		Truck Driver Signat		IATURE	DATE

Form Revised 02/2018

DEPARTMENT OF NATURAL RESOURCES - SOUTH PUGET SOUND REGION

SUMMARY - ROAD DEVELOPMENT COSTS

(COSTS ARE ESTIMATES ONLY & ARE NOT GUARANTEED BY THE STATE OR PART OF THE ROAD PLAN.)

SALE/PROJECT NAME: **Jeckle** CONTRACT NUMBER: **30-104866**

			1	1
TYPE:		Construction	Reconstruction	Pre-Haul Maintenance
NUMBER OF	F STATIONS:	122.51	9.20	257.00
AVG. SIDES	LOPE:	22	15	
CLEADING	AND GRUBBING:	\$18,127	\$2,525	
CLEAKING A	AND OROBBING.	φ16,127	\$2,323	
EXCAVATIO	ON AND FILL:	\$23,758	\$9,126	
MISC. MAIN		, -,,	117	\$8,943
				. ,
ROCK TOTA	LS:			
	Ballast:	\$65,715	\$16,908	\$21,348
	Surfacing:	\$309	\$0	\$0
	Riprap/Quarry Spalls:	\$204	0	\$0
	Stockpiles:			\$47,500
CULVERTS .	AND FLUMES:	\$13,293	\$3,614	\$7,410
STRUCTURE	ES:	\$0	\$0	\$0
GENERAL E	XPENSES:	\$9,712	\$2,896	\$6,816
MOBILIZAT	ION:	\$2,483	\$2,483	\$2,483
TOTAL C	OSTS:	\$133,601	\$37,552	\$94,500
COST PER	STATION:	\$1,091	\$4,082	\$368

POST HAUL COSTS: \$21,842

NOTE1: This appraisal has no allowance for profit and risk. NOTE2: This appraisal does not account for optional rock.

TOTAL (All Roads) =	\$287,495
SALE VOLUME MBF =	7,572
TOTAL COST PER MBF =	\$37.97

Plans to be furnished by: Compiled by: M. Bell Date: 03/12/24

FORM 9-87(Rev. 05-03)

Jeckle_Cost Estimate

