



SCALE TIMBER SALE NOTICE OF SALE

SALE NAME: 4-0 Post Wildfire Restoration Project AGREEMENT NO: 24001C

AUCTION: Tuesday, October 8 @ 9:00 am COUNTY: Asotin
WDFW Clarkston Office
1049 Port Way
Clarkston, WA 99403

SALE LOCATION: Sale located approximately 45 miles southwest of Clarkston, Washington in Sections 34 and 35 of Township 7 North, Range 43 EWM and Sections 2 and 3 of Township 6 North, Range 43 EWM. The entire sale comprises approximately 449 acres. See attached timber sale map.

PRODUCTS SOLD AND SALE AREA: All timber as described by pink flagging that is **not marked** with orange paint in units 1, 3, 4, 6, 7, 8 and 9. All timber to be removed by prescription **and trees not marked with a red band and the letter “L”** in operator select units 2 and 5. Logs will be delivered from the 4-0 Post Wildfire Restoration Thin located in parts of in Sections 34 and 35 of Township 7 North, Range 43 EWM and Sections 2 and 3 of Township 6 North, Range 43 EWM., in Asotin County, Washington. See attached map for location of units.
Optional removal for green pulp.

MINIMUM BID AND ESTIMATED LOG VOLUMES:

Species and Sort Specifications	Estimated Volume		Minimum Bid
	MBF	Tons	\$/Ton
DF, WL 5”+ dib Saw Green*	290	2,241	\$1/Ton
PP 5”+ dib Saw Green	590	4,648	\$1/Ton
GF 5”+ dib Saw Burned	37	158	\$1/Ton
DF/WL 5”+ dib Saw Burned	515	3,835	\$1/Ton
PP 5”+ dib Saw Burned	1,181	7,936	\$1/Ton
Conifer 4”+ dib Pulp Green**	--	500	\$1/Ton
TOTAL		19,318	

*Biddable species
**Optional removal



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BID METHOD: Sealed Bid

UNIT OF MEASURE: Tons

EXPIRATION DATE: 6/30/2025

ALLOCATION: Export Restricted

**PAYMENT
SECURITY:**

To be determined by the State as described in Clause P-045.2 of the Purchaser's Contract.

**BIDDING
PROCEDURES:**

A sealed bid and envelope must be submitted for the **total value**. Prospective Purchasers must bid on all sawlog sorts. **Pulp wood is optional bid.** Bids will be received in person at the address below by hand or by e-mail. **Bid deposits of at least 10% of the total bid value are due within 1 week of announcing the apparent successful bidder.**

Bids may be submitted by email or hand delivered to the following address no later than 9:00 am on Tuesday, October 8, 2024.

**Rod Pfeifle
WDFW Clarkston Office
1049 Port Way
Clarkston, WA 99403
Rod.pfeifle@dfw.wa.gov
509-680-3175**

Bids submitted by hand shall be delivered at the address above no later than 9:00 am on Tuesday, October 8, 2024 at 9:00 am

Complete bidding procedures and auction information may be obtained from Rod Pfeifle, WDFW Statewide Forester using the contact information from above.

**TIMBER EXCISE
TAX:**

Purchaser must pay the forest excise taxes associated with the log sorts delivered to them.

CONFIRMATION:

Each sort is subject to confirmation following auction. Sorts will not be confirmed until at least 7 days after auction. Final contract award is contingent upon the State's bid confirmation.

SPECIAL REMARKS:

The successful Purchaser(s) will be required to purchase logs from the sale area upon delivery to their location specified in the bid submitted. Logs will be delivered to the Purchaser's delivery location by the State's contract harvester. Purchaser is responsible for weighing and scaling costs. All tonnage loads will be weighed and all MBF loads will be scaled at State approved locations. The State reserves the right to determine where logs are authorized to be scaled and weighed.



SCALE TIMBER SALE NOTICE OF SALE

For more information regarding this timber sale contact:

Rod Pfeifle
WDFW Contract Administrator
1130 West University Way
Ellensburg, WA 98926
509-680-3175
Rod.pfeifle@dfw.wa.gov



STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE

SCALE SALE SEALED BID FORM

Sale Name _____ Agreement Number 24001C Date Tuesday, October 8, 2024

_____ hereby submits the following bid for delivered logs.
(Print Company Name)

_____ Telephone Number _____
(Print Name Authorized Company Representative) (Contact for bid result notification)

(Street Address)

(City, State and Zip)

Species and Sort Specifications	Estimated Volume		Minimum Bid	Purchaser Bid	Total Purchaser Value	Bid Deposit 10% of Total Purchaser Value***
	MBF	Tons	\$/Ton	\$/Ton		
DF, WL 5"+ dib Saw Green*	290	2,241	\$1/Ton			
PP 5"+ dib Saw Green	590	4,468	\$1/Ton			
GF 5"+ dib Saw Burned	37	158	\$1/Ton			
DF/WL 5"+ dib Saw Burned	515	3,835	\$1/Ton			
PP 5"+ dib dib Saw Black	1,181	7,936	\$1/Ton			
Conifer 4"+ dib Pulp**	--	500	\$1			
TOTAL		19,318				

* Biddable species **Optional removal for green pulp
***Only due by the apparent successful bidder within 1 week of sale date

Total Bid Deposit Amount \$ _____

Bid Deposit Type: Cash, Certified Check, Cashiers Check, or Money Order made out to WDFW
 Per Sale Bid Bond
 Statewide Bid Bond, Number _____

The successful bidder agrees to furnish payment security acceptable to the State in the amount as described in clause P-041 of the Purchaser's contract prior to log delivery and at a date to be determined by the State.

Bidder's Warranty and Bid Signature

By signing and submitting this bid as offer to purchase forest products from the State, the Bidder hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Bidder further warrants to the State that they enter this bid 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. Bidder also warrants to the State that they enter this bid without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representation by WDFW.

(Signature of Authorized Representative submitting this bid)

(Date of Signature)

(Print name and title of Authorized Representative submitting this bid)

NOTES: A separate bid form is required for each log sort bid and must be delivered in a separate envelope. Photocopies of this bid form may be used. Each photocopy must have original signatures. Final contract award is contingent upon the State's haul cost analysis. Actual haul route may vary and is subject to change at the State's discretion. All sales are subject to confirmation by WDFW.

SCALE SALE SEALED BID SUPPLEMENTAL INFORMATION FORM

(Print Company Name)

(Sale Name)

(Agreement Number)

Email

Log Manufacturing Specifications:

Sawlog species: Minimum 5” top diameter dib
Utility (Pulp) species: Minimum 2” top diameter dib
Peeler species: Minimum 6” top diameter dib

Log Delivery Information:

1) Designate the point of delivery and address (must be a street address)

(Location Name)

(Street Address)

(City, State and Zip)

2) Designate the state approved Scaling and Weighing facilities closest to the point of delivery as needed.

Scaling Location Information

(Scaling Location Name)

(Third Party Scaling Organization)

(Scaling Location Street Address)

(Scaling Location City, State and Zip)

Weighing Location Information

(Weighing Location Name)

(Weighing Location Owner)

(Weighing Location Street Address)

(Weighing Location City, State and Zip)

Instructions for Completing the Log Sort Sealed Bid and Supplemental Information Forms.

All bids submitted for the purchase of forest products being sold by the Washington State Department of Fish and Wildlife must have an original signature on behalf of the person or entity submitting the bid, and must be on the form provided or a photocopy thereof. WDFW will not accept bids that are not signed, and will not accept bids that are not on the current, approved bid form. All appropriate blanks including Agreement Number, Bid amount (per mbf or ton as appropriate), Bid deposit amount and type must be included. Signatures and date on bid form must be completed including the bid bond number if bidder is relying upon a bid bond for bid deposit.

Bids may not be accepted if a completed ‘**Log Sort Sealed Bid Supplemental Information Form**’ is not included with the approved ‘**Log Sort Sealed Bid Form**’.

For more specific information, contact the WDFW Contract Administrator.

In-Person Bids

- A. Sealed bids must received by 9:00 am on the day of sale at the location specified in the notice of sale.
- B. Sealed bids must be submitted in an envelope with the name of the sale, the bidder’s name and the contract agreement number clearly written on the outside of the envelope. The full legal name and business address of the bidder must be inserted where indicated on the form, and must be the same as the name on the bid bond and timber sale contract. The bid form must be signed by an authorized person. When a bidder has more than one person authorized to bid, then documentation of those persons with signature authority for bidding must accompany the bid or be on file at the region office. Please use your own envelope to submit your bid.
- C. Sealed bid envelopes must contain the following:
 1. A completed Log Sort Sealed Bid form;

2. A completed Supplemental Information form; and
3. A bid deposit amount. **Bid deposits are only required of the apparent successful bidder within 1 week of bid opening.**

E-Mailed Bids

- B. E-mailed bids will be accepted up to 9:00 am. On the day of sale shown on the Notice of Sale.
- C. Sealed bid envelopes must contain the following:
 1. A completed **'Scale Sale Sealed Bid Form'**;
 2. A completed **'Scale Sale Sealed Bid Supplemental Information Form'** and;
 4. A bid deposit amount. **Bid deposits are only required of the apparent successful bidder within 1 week of bid opening.**
- D. E-Mailed bids should be sent to: **Rod.pfeifle@dfw.wa.gov**

Rod Pfeifle
WDFW Contract Administrator
1130 West University Way
Ellensburg, WA 98926
509-680-3175
Rod.pfeifle@dfw.wa.gov

STATE OF WASHINGTON
WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS

Export Restricted Tonnage Scale Sale
AGREEMENT NO. 24001C

SALE NAME: Chief Joseph 4-0 Post-Wildfire Restoration Thin

THE STATE OF WASHINGTON DEPARTMENT OF FISH AND WILDLIFE (WDFW), 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: WDFW Wildlife Program Lands Division 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 a Bill of Sale and Contract for Forest Products with the State for the right to harvest and remove forest products from the timber sale area.

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

State: landowner and seller of Forest Products from the timber sale area. The State of Washington Department of Fish and Wildlife (WDFW) is represented by the WDFW Lands Division Manager as designated on the contract signature page. Contractual obligations to the State are enforced by the WDFW Lands Division Manager or their 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 **October 8, 2024** and the sale was confirmed on **October 15, 2024**. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase, cut, and remove the following forest products:

Species and Sort Specifications	Estimated Volume		Purchaser Bid	Total Purchaser Value	Bid Deposit
	MBF	Tons	\$/Ton		
DF, WL 5"+ dib Saw Green	290	2,241			
PP 5"+ dib Saw Green	590	4,648			
GF 5"+ dib Saw Burned	37	158			
DF/WL 5"+ dib Saw Burned	515	3,835			
PP 5" + dib Saw Burned	1,181	7,936			
Conifer 4"+ dib Pulp	--	500			
TOTAL		19,318			

19,318 Tons located on approximately 449 acres on part(s) of Sections 34 and 35, of Township 7 North, Range 43 EWM and Sections 2 and 3 of Township 6 North, Range 43 EWM in Asotin County, Washington as shown on the attached timber sale map and as designated on the sale area.

All forest products described above from the bole of the tree that meet or exceed 4 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 Fish and Wildlife.

G-030 Contract Term

Purchaser shall remove the forest products conveyed and complete all work required by this contract prior to June 30, 2025.

G-040 Contract Term Adjustment - No Payment

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

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

- d. Regulatory actions not arising from Purchaser's failure to comply with this contract which will prevent timber harvest for a period less than 6 months.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.
- g. THAT THE FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies. The State is not responsible for actions to enforce regulatory laws, such as the Washington Forest Practices Act (chapter 76.09 RCW), taken by the Department of Natural Resources or any other agency that may affect the operability of this timber sale.
- h. Items contained in any other documents prepared for or by the State.

G-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-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

a. Risk

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

b. Sale Area

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

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

c. Adjustment of Price

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

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

under the contract. Purchaser retains the final responsibility for its operations under this contract and State shall not be liable for any injuries resulting from Purchaser's reliance on any State advice regarding the method or manner of performance.

G-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-120 Responsibility for Work

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

G-121 Exceptions

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

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

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

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

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

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

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

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

G-140 Indemnity

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

G-150 Insurance

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

All insurance and surety bonds should be issued by companies admitted to do business within the State of Washington and have a rating of A-, Class VII or better in the most recently published edition of Best's Reports. Any exception shall be reviewed and approved by the department's risk manager before the insurance coverage is accepted. 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, Wildlife Program, Lands Manager and designated Contract Administrator 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 Fish and Wildlife with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements specified in the contract. Insurance coverage shall be obtained by the purchaser prior to

operations commencing and continually maintained in full force until all contract obligations have been satisfied or an operating release has been signed by the State.

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

The State of Washington, Department of Fish and Wildlife, its elected and appointed officials, agents and employees shall be named as an additional insured 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.

If Purchaser is self-insured, evidence of its status as a self-insured entity shall be provided to State. If requested by State, Purchaser must describe its financial condition and the self-insured funding mechanism.

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 Fish and Wildlife, 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 each occurrence.

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

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

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

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

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

G-160 Agents

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

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

G-170 Assignment and Delegation

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

G-180 Modifications

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

G-190 Contract Complete

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

G-200 Notice

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

G-210 Violation of Contract

G-220 State Suspends Operations

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

G-210 Violation of Contract

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

G-220 State Suspends Operation

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

- a. In the event of a dispute, Purchaser must make a written request to the WDFW Lands Division Manager for resolution prior to seeking other relief.

- b. The WDFW Lands Division Manager will issue a written decision on Purchaser's request within ten business days.
- c. Within ten business days of receipt of the WDFW Lands Division Manager's decision, Purchaser may make a written request for resolution to the WDFW Wildlife Program Manager.
- d. Unless otherwise agreed, a conference will be held by the WDFW Wildlife Program Manager within 30 calendar days of the receipt of Purchaser's request for review of the WDFW Land Division Manager's written decision. Purchaser and the WDFW Lands Division 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: 1A, 2A, 2B, 1C, 2D, 3A, 3B, 4A, 6A, 8A and the Joe Mace Road. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-320 Erosion Control

Purchaser shall deliver 600 pounds of to a location designated by the Contract Administrator. Seed and fertilizer mix provided shall meet the specifications found in Section 8 of the Road Plan.

G-330 Pre-work Conference

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

the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

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

G-360 Road Use Reservation

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

G-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.

Section P: Payments and Securities

P-010 Initial Deposit

Purchaser paid \$ [REDACTED] 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 ton for forest products conveyed and cut or removed from the sale area units shown on the timber sale map.

Species and Sort Specifications	Estimated Volume		Bid Price/ Unit	Total BidValue
	MBF	Tons*	\$/Tons	
DF, WL 5"+ dib Saw Green	290	2,241		
PP 5"+ dib Saw Green	590	4,648		
GF 5"+ dib dib Saw Burned	37	158		
DF/WL 5"+ dib Saw Burned	515	3,835		
PP 5"+ dib Saw Burnded	1,181	7,936		
Conifer 4"+ dib Pulp Green	--	500		
TOTAL		19,318		

*Measurement method for payment to State

Species that are conveyed but are not listed in the table above shall be paid for by the ton.

Utility logs will be paid for by the ton.

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. Payment security for

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

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 Mismatch

Forest products included in this agreement which are destroyed, damaged, stolen, lost, or mismatched 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 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, performance security acceptable to the State in the amount of \$10,000. The Security provided shall guarantee performance of all provisions of this contract including required road work 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-040 Utility (Pulp) Logs

The purchaser can harvest and remove utility (pulp) logs that meet the minimum utility log standards as described by the log scaling rules applicable for this contract. **Pule removal is optional.**

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.

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 loads shall be borne by Purchaser.

L-070 Purchaser to Furnish Log Scale Information

If the Purchaser desires to roll out logs to insure logs are being manufactured to agreed to specifications, the Purchaser agrees to furnish the State with scaling information, supplied by a third party scaling organization showing the scale, count, and measure of forest products removed during each billing period unless the scale, count, and measure is performed by 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 Eastside 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 product 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 en-route 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 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 paid for at the utility rate.

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

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

H-011 Certification of Fallers and Skidder Operators

All persons engaged in the felling and yarding of timber must receive verbal certification from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that non-compliance of leave tree selection criteria or cut tree selection criteria is occurring, or excessive damage to leave trees is occurring.

Excessive damage for leave trees is defined in clause H-012.

Excessive damage for reserve trees is defined in clause H-013.

Excessive skid trail damage is defined in clause H-015 or H-016.

When leave tree damage exceeds the limits set forth in clause H-012, Purchaser may be subject to liquidated damages (clause D-040).

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 100 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 and not replaced, the Purchaser may be required to pay liquidated damages for Excessive Leave Tree Damage as detailed in clause D-040.

H-013 Reserve Tree (Skips) Damage Definition

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

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

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

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

H-015 Skid Trail Requirements

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

Purchaser shall comply with the following during the yarding operation:

- a. Skid trails will not exceed 12 feet in width, including rub trees.
- b. Skid trails shall not cover more than 10 percent of the total acreage on one unit.
- c. Whenever possible, visible skid trails from previous logging operations shall be used.
- d. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.
- e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.
- f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.

- g. Steeper skid trails will be water barred at the time of completion of skidding operations, if required by the Contract Administrator.

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds twelve (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-030 Timber Falling

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

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan. 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 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 shall 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-140 Special Harvest Requirements

**Requirements listed in this clause must be able to be approved by the Contract Administrator. Select from the requirements below as applicable. Each requirement may be edited or deleted or new ones added as applicable.*

Purchaser shall accomplish the following during the harvest operations:

Complete cutting, skidding, loading and hauling operations in Units 2 and 5 first.

Equipment limitation zones are required within 30 feet of Type 5 streams.

Crossings of Type 5 streams may be allowed at locations approved by the Contract Administrator. Purchaser shall place a culvert or log puncheon at crossing 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.

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.

No equipment shall operate or trees felled or damaged outside the timber sale boundary.

Landings shall be constructed in locations, and with drainage, that does not contribute sediment to typed water.

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, landings, and haul roads.

Skid trail closures shall occur immediately upon completion of yarding all tributary timber or no later than completion of a setting. Closure shall consist of creating water bars or other methods as directed by the Contract Administrator to prevent water accumulation and sediment movement.

In the event operations become inactive for long periods of time, skid trails shall be water barred if required by the Contract Administrator.

Once a skid trail is closed, the Purchaser shall not reopen a skid trail unless approved by the Contract Administrator.

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-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 Cut Conifer	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.

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.

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 Mismatch

Mismatch 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 mismatch 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.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated September 18, 2024, are hereby made a part of this contract.

C-060 Designated Road Maintainer

If required by the State, Purchaser shall perform maintenance and replacement work as directed by the Contract Administrator. Purchaser shall furnish a statement in a form satisfactory to the State showing the costs incurred while performing this work. The State shall reimburse Purchaser for said costs within 30 days of receipt and approval of the statement.

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-060 Pump Trailer

Purchaser shall provide a fully functional 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-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

If safe to do so, Purchaser shall take immediate action to contain and control all hazardous material spills. Purchaser shall ensure that enough quick response spill kits capable of absorbing at least 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. 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
Department of Ecology (ECY) at 1-800-645-7911
DNR Contract Administrator

S-131 Refuse Disposal

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

S-140 Fence Repair

Purchaser shall immediately repair all fence damage resulting from operations on this sale to an equal or better condition than existed at the time of sale. Contract Administrator shall be notified of fence repair location(s) and repair dates.

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 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 \$250 per tree for all damaged trees as determined by Contract Administrator.

D-041 Reserve Tree (Skip Tree) Damage

When Purchaser's operations exceed the damage limits set forth in clause H-013, Reserve Tree (Skip) Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve trees (skip trees) 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 \$250 per tree for all damaged reserve trees that are not replaced by the contractor.

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Cynthia Wilkerson
WDFW Wildlife Program Lands Manager

Date: _____
Address: _____

Date: _____

Attachments:

- Schedule A: Harvest Prescription
- Notice of Sale
- Road Plan
- Scale Sale Bid Form
- Unit Ortho Maps
- Unit Lidar Maps
- Unit Overview Map
- Cruise Reports
- Additional Road Work Rate Schedule

STATE OF WASHINGTON
DEPARTMENT OF FISH AND WILDLIFE

CHIEF JOSEPH 4-0 POST-WILDFIRE SCALE SALE ROAD PLAN
ASOTIN COUNTY
CHIEF JOSEPH WILDLIFE AREA

AGREEMENT NO.: 24001C

WDFW CONTRACT ADMINISTRATOR: ROD PFEIFLE

DATE: SEPTEMBER 18, 2024

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>
1A	0+00 to 6+25	Required Reconstruction
2A	0+00 to 29+74	Required Reconstruction
2B	0+00 to 5+59	Required Reconstruction
2C	0+00 to 45+43	Required Reconstruction
2D	0+00 to 5+32	Required Reconstruction
3A	0 + 00 to 11+ 97	Pre-Haul Maintenance
3B	0+00 to 2+00	Required Reconstruction
3C	0+00 to 18+87	Required Reconstruction
4A	0+00 to 8+50	Required Reconstruction
6A	0+00 to 16+30	Required Reconstruction
7A	0 + 00 to 60 + 29	Pre-Haul Maintenance
8A	0+00 to 37+19	Pre Haul Maintenance
Joe Mace Road	0 + 00 to 29+55	Pre-Haul Maintenance

0-5 RECONSTRUCTION

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

<u>Road</u>	<u><Stations></u>	<u>Requirements</u>
1A	0+00 to 6+25	Brush (as needed) and grade road
2A	0+00 to 29+74	Brush (as needed) and grade road
2B	0+00 to 5+59	Brush (as needed) and grade road
2C	0+00 to 45+43	Brush (as needed) and grade road
2D	0+00 to 5+32	Brush (as needed) and grade road
3B	0+00 to 2+00	Brush (as needed) and grade road
3C	0+00 to 18+87	Brush (as needed) and grade road

4A	0+00 to 8+50	Brush (as needed) and grade road
6A	0+00 to 16+30	Brush (as needed) and grade road

0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u><Stations></u>	<u>Requirements</u>
3A	0+00 to 11+97	Light brushing & spot grading
7A	0+00 to 60+29	Light brushing & spot grading
8A	0+00 to 37+19	Light brushing & spot grading
Joe Mace Road	0+00 to 50+33	Light brushing & spot grading

0-7 POST-HAUL MAINTENANCE

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

Section 1 – General

1-1 ROAD PLAN CHANGES

If the Contractor 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, Contractor shall obtain approval from the State for any submitted plan that changes the scope of work or environmental condition from the original road plan.

1-2 UNFORESEEN CONDITIONS

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

Contractor 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.

1-12 SURVEY MONUMENTS

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

<SUBSECTION ROAD MARKING>

1-15 ROAD MARKING

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

- Orange ribbon construction centerlines
- Use geo-referenced timber sale maps for location

<SUBSECTION TIMING>

1-20 COMPLETE BY DATE

Contractor shall complete pre-haul road before the start of timber haul, whichever comes first.

1-21 HAUL APPROVAL

Contractor shall not use roads under this road plan for any activities not associated with harvest operations without approval from the Contract Administrator.

1-22 WORK NOTIFICATIONS

Prior to the commencement of road work (pre-haul, reconstruction, post haul or abandonment), Contractor shall notify the Contract Administrator a minimum of 5 calendar days before work begins.

<SUBSECTION RESTRICTIONS>

1-25 ACTIVITY TIMING RESTRICTION

On all road(s), the operation of road construction equipment is not allowed on weekends or state recognized holidays, unless authorized in writing by the Contract Administrator.

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION or Contract Clause H-130 HAULING SCHEDULE, Contractor shall provide a maintenance plan to include further protection of state resources. Contractor 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. Contractor is required to maintain all haul roads at their own expense. 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

Contractor shall not allow silt-bearing runoff to enter any streams. If sediment delivery is observed log hauling operations will be suspended until the road dries out or mitigation measures, approved by the CA, are in place.

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 access 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 by the Contract Administrator. In the event that surface or base stability problems persist, Contractor shall cease operations, or perform corrective maintenance or repairs, subject to specifications within this road plan. Before and during any suspension, Contractor shall protect the work from damage or deterioration.

Section 2 – Maintenance

2-1 GENERAL ROAD MAINTENANCE

Contractor shall maintain all roads used under this contract in accordance with for the entire term of this contract. Maintenance is required even during periods of inactivity.

2-2 ROAD MAINTENANCE – CONTRACTOR MAINTENANCE

Contractor shall perform maintenance on roads listed in Contract Clause C-050 CONTRACTOR ROAD MAINTENANCE AND REPAIR in accordance with CONTRACT ADMINISTRATOR AND ROAD PLAN ROAD MAINTENANCE SPECIFICATIONS.

2-4 PASSAGE OF LIGHT VEHICLES

Contractor shall maintain Grouse Flats and Grouse Creek County Roads in a condition that will allow the passage of light administrative vehicles.

2-5 MAINTENANCE GRADING – EXISTING ROAD

On all roads used for haul on this timber sale, Contractor shall use a grader or dozer to shape the existing surface as needed or as required by the Contract Administrator.

2-7 CLEANING DITCHES, HEADWALLS, CULVERTS AND CATCH BASINS

On all haul roads, Contractor shall clean ditches, headwalls, catch basins and cross drain culvers. Work must be completed before log haul begins and as part of the final maintenance.

Section 3 – Clearing, grubbing, and disposal

3-1 BRUSHING

Harvester shall cut over-hanging brush and brush growing on all haul roads that would impede safe hauling of logs.

3-3 BRUSH REMOVAL

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

3-7 RIGHT-OF-WAY DECKING

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

3-8 PROHIBITED DECKING AREAS

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

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

3-12 STUMP PLACEMENT

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

3-20 ORGANIC DEBRIS DEFINITION

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

3-21 DISPOSAL COMPLETION

Contractor shall remove organic debris from the road surface, ditch lines, and culvert inlets and outlets. Contractor shall complete all disposal of organic debris before the contract termination date.

3-23 PROHIBITED DISPOSAL AREAS

Contractor shall not place organic debris in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland, unless authorized by the Contract Administrator
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-25 SCATTERING ORGANIC DEBRIS

On roads or road segments requiring brushing, Contractor shall scatter organic debris in natural openings on the side of the road as directed by the Contract Administrator.

3-31 PILING

Contractor shall pile organic debris at landing sites no closer than 20 feet from standing timber and no higher than 10 feet. Piles must be free of rock and soil.

Section 4 – Excavation

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

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

<SUBSECTION SHAPING>

4-55 ROAD SHAPING

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

4-56 DRY WEATHER SHAPING

At any time of year, the Contract Administrator may require the application of water to facilitate shaping activities.

Section 5

<SUBSECTION CULVERTS>

5-7 TEMPORARY STREAM CULVERT INSTALLATION

Harvester shall install temporary culverts as shown on list below. Temporary stream culverts must be located in the natural channel of the stream. Temporary culverts must be removed within 30 days following completion of timber harvesting and site cleanup. And as directed by the Contract Administrator

SUBSECTION CULVERT INSTALLATION

5-15 CULVERT INSTALLATION

If temporary culvert installations are required for road drainage, culverts must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and must be installed in a manner consistent with the manufacturer's recommendations.

5-17 CROSS DRAIN SKEW AND SLOPE

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

SUBSECTION CATCH BASINS, HEADWALLS, AND ARMORING

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Contractor shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL. Rock used for headwalls must be approved by the Contract Administrator. 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.

SUBSECTION SURFACE DRAINAGE

5-30 DRIVABLE WATERBAR CONSTRUCTION

Contractor shall construct drivable water bars in accordance with the DRIVABLE WATERBAR DETAIL and as directed by the Contract Administrator. Drivable water bars must be installed concurrently with construction of the subgrade and must be maintained in an operable condition.

5-31 ROLLING DIP CONSTRUCTION

Contractor shall construct rolling dips in accordance with the ROLLING DIP DETAIL and as directed by the Contract Administrator. Rolling dips must be installed concurrently with construction of the subgrade and must be maintained in an operable condition.

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be water barred (drivable or non-drivable) at the discretion of the Contract Administrator by December 1. Contractor shall construct water bars at a maximum spacing that will produce a vertical distance of no more than 10 feet between water bars or between natural drainage paths, and with a maximum spacing of 300 feet.

5-40 ARMORED FORD CONSTRUCTION

If necessary, the Harvester shall construct armored fords in accordance with the ARMORED FORD DETAIL. Fords must be installed at the time of construction and must be maintained in an operable condition.

Section 6

<SUBSECTION DUST ABATEMENT>

6-80 WATERING FOR DUST ABATEMENT

Contractor shall use water for dust abatement on haul roads as directed by the Contract Administrator if necessary.

Section 7

SUBSECTION GATE CLOSURE

7-70 GATE CLOSURE

On the following road(s), Contractor 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.

<u>Road</u>	<u>Station</u>

Section 8

SUBSECTION REVEGETATION

8-15 REVEGETATION

On the following road(s), Contractor shall spread certified seed mixture previously approved by the Blue Mountain Wildlife Area Complex Manager on all exposed soils resulting from road work activities as directed by the Contract Administrator. Required seed not spread by the termination of this contract will become the property of the state.

<u>Road</u>	<u>Qty (lbs)*</u>	<u>Type</u>	<u>Comments</u>
All Roads to be Abandoned	20lbs/acre (132lbs)	See 8-25	See 8-25
All Landings to be Abandoned	20lbs/acre (72lbs)	See 8-25	See 8-25

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

8-16 REVEGETATION SUPPLY

*The Contractor shall provide the seed mixture as specified by the Chief Joseph Wildlife Area Manager.

8-17 REVEGETATION TIMING

On the following roads, Harvester shall revegetate as authorized in writing by the Contract Administrator.

SUBSECTION SEED AND MULCH

8-25 GRASS SEED

Harvester shall purchase 600 pounds of grass seed using the seed mixture listed below. Grass seed must meet the following specifications:

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

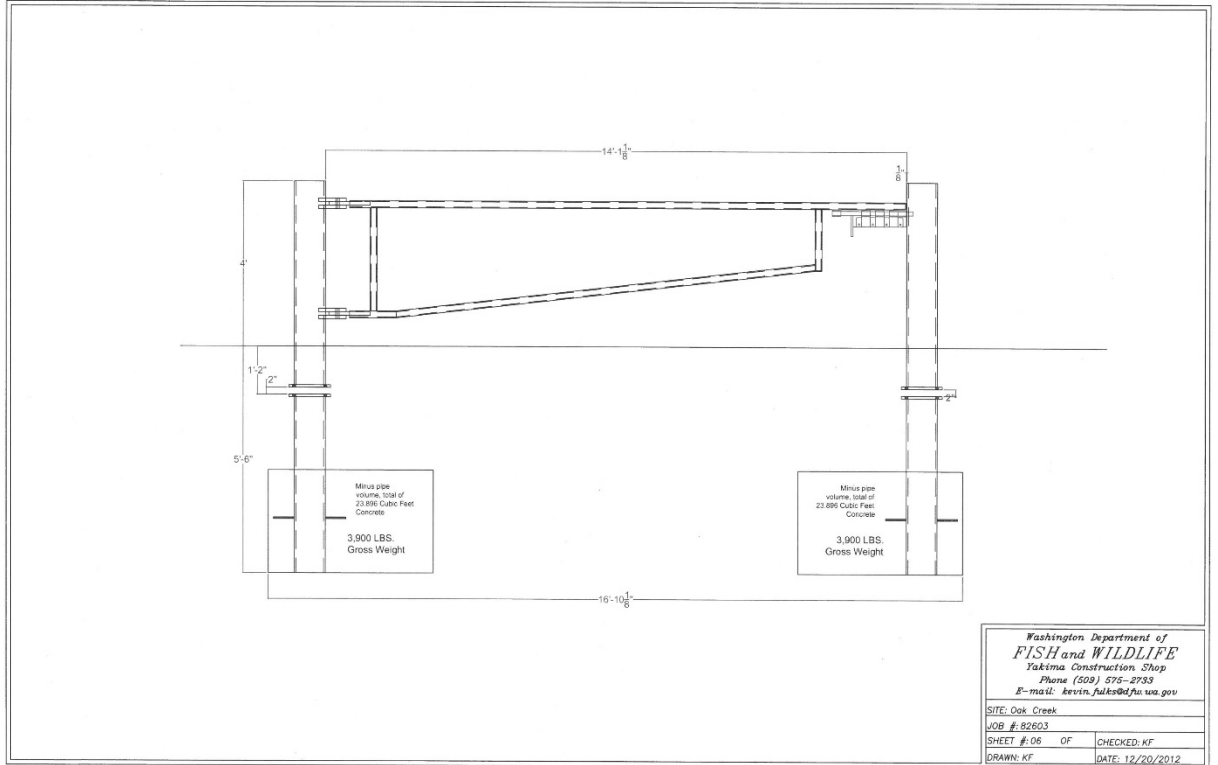
<u>Kind and Variety of Seed in Mixture</u>	<u>% by Weight</u>	<u><Minimum % germination></u>
Blue Bunch Wheat Grass	30%	90%
Mountain Brome	30%	90%
Red Clover	10%	90%
Prairie Junegrass	5%	90%
Thickspike Wheatgrass	25%	90%

Section 9 – Post-Haul road work

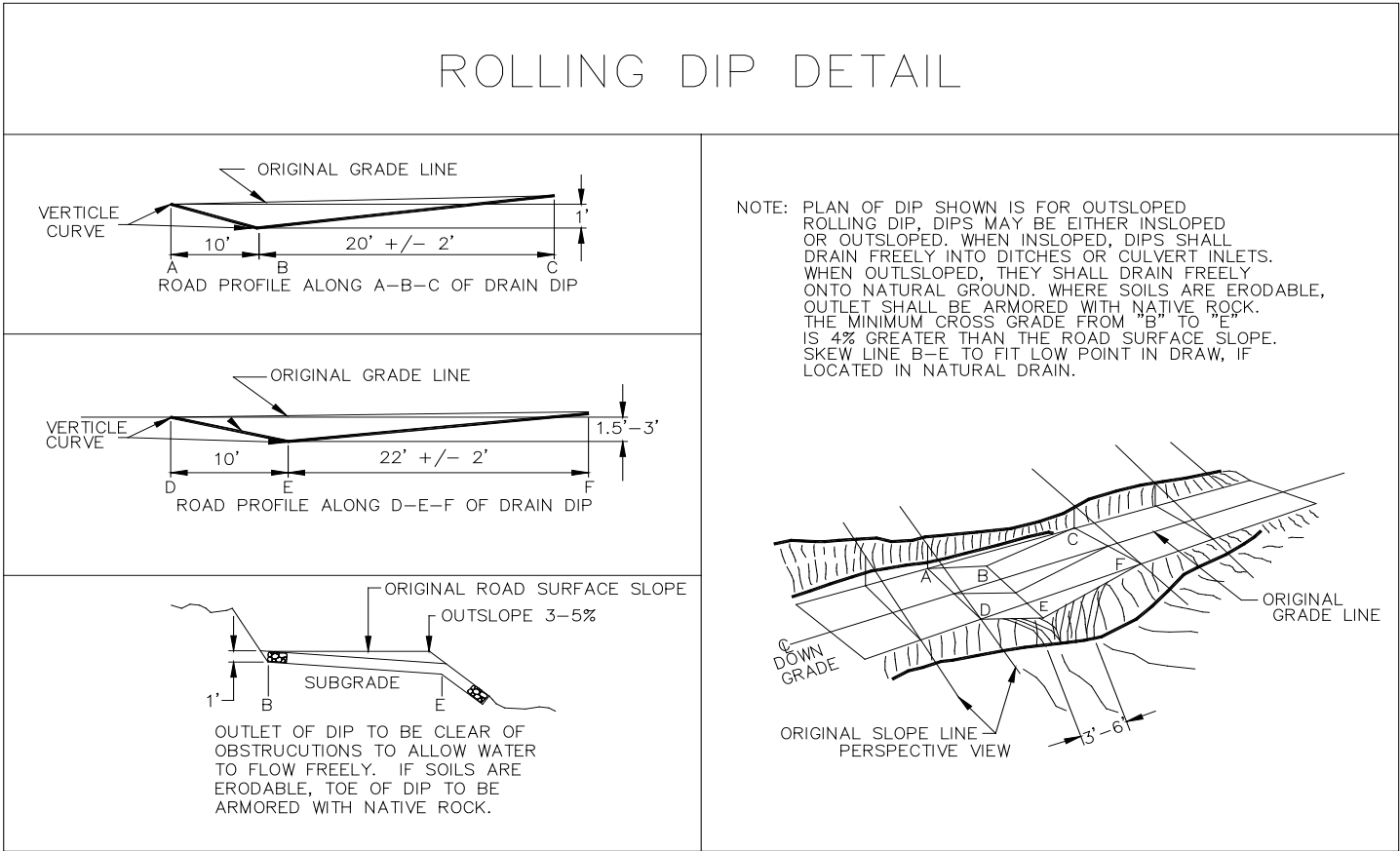
SUBSECTION POST-HAUL MAINTENANCE

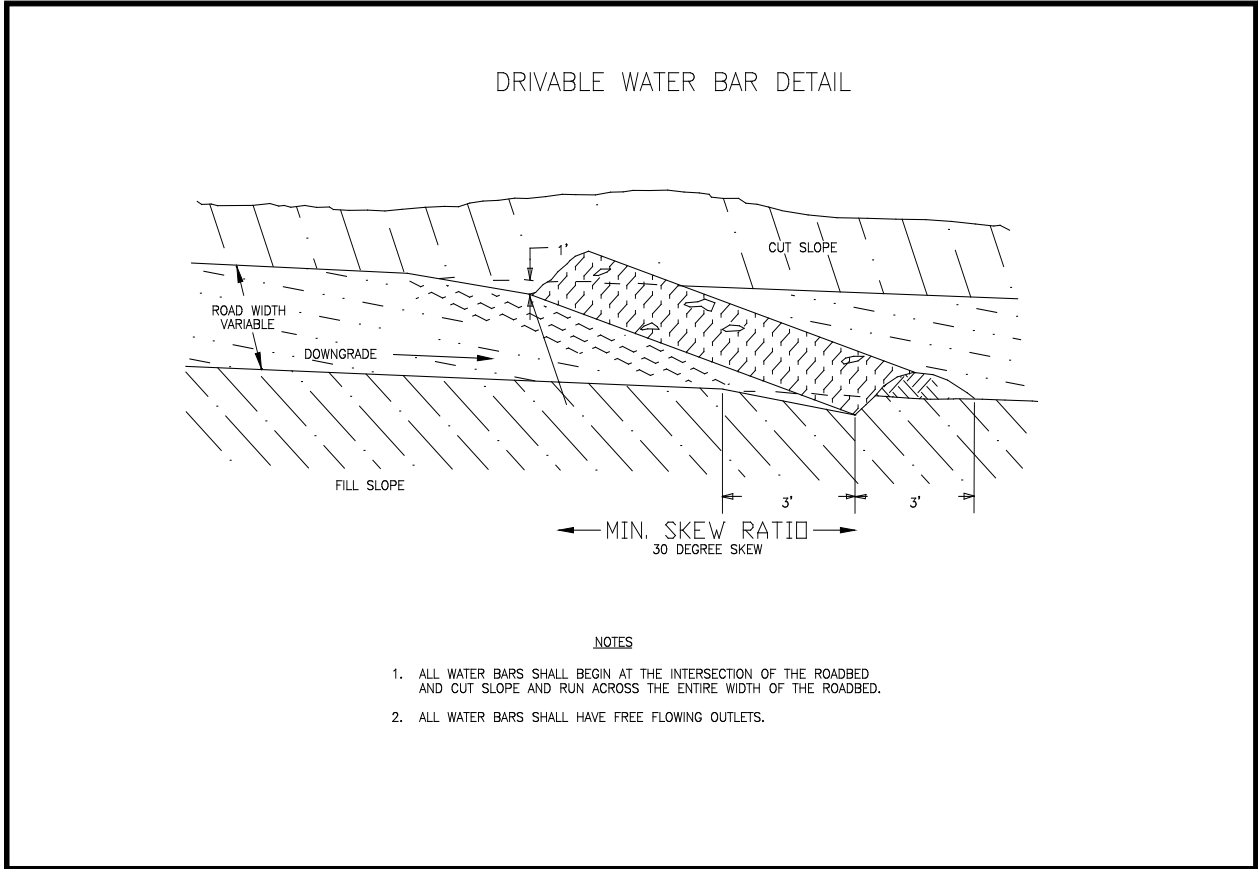
9-5 POST-HAUL MAINTENANCE

Harvester shall perform post-haul maintenance on all haul roads as needed. This may include grading and shaping, re-establishing, ditches, installing drivable water bars or drain dips and ditch outs.

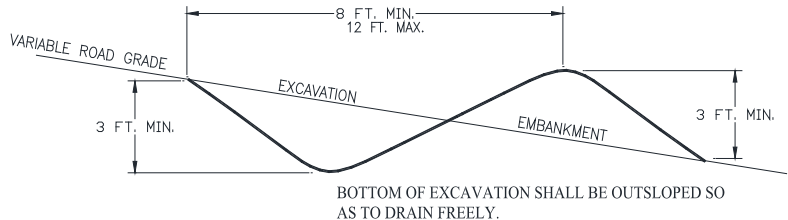


ROLLING DIP DETAIL



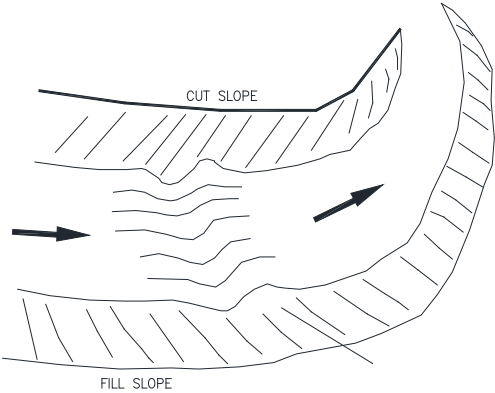


NON-DRIVABLE WATER BAR DETAIL



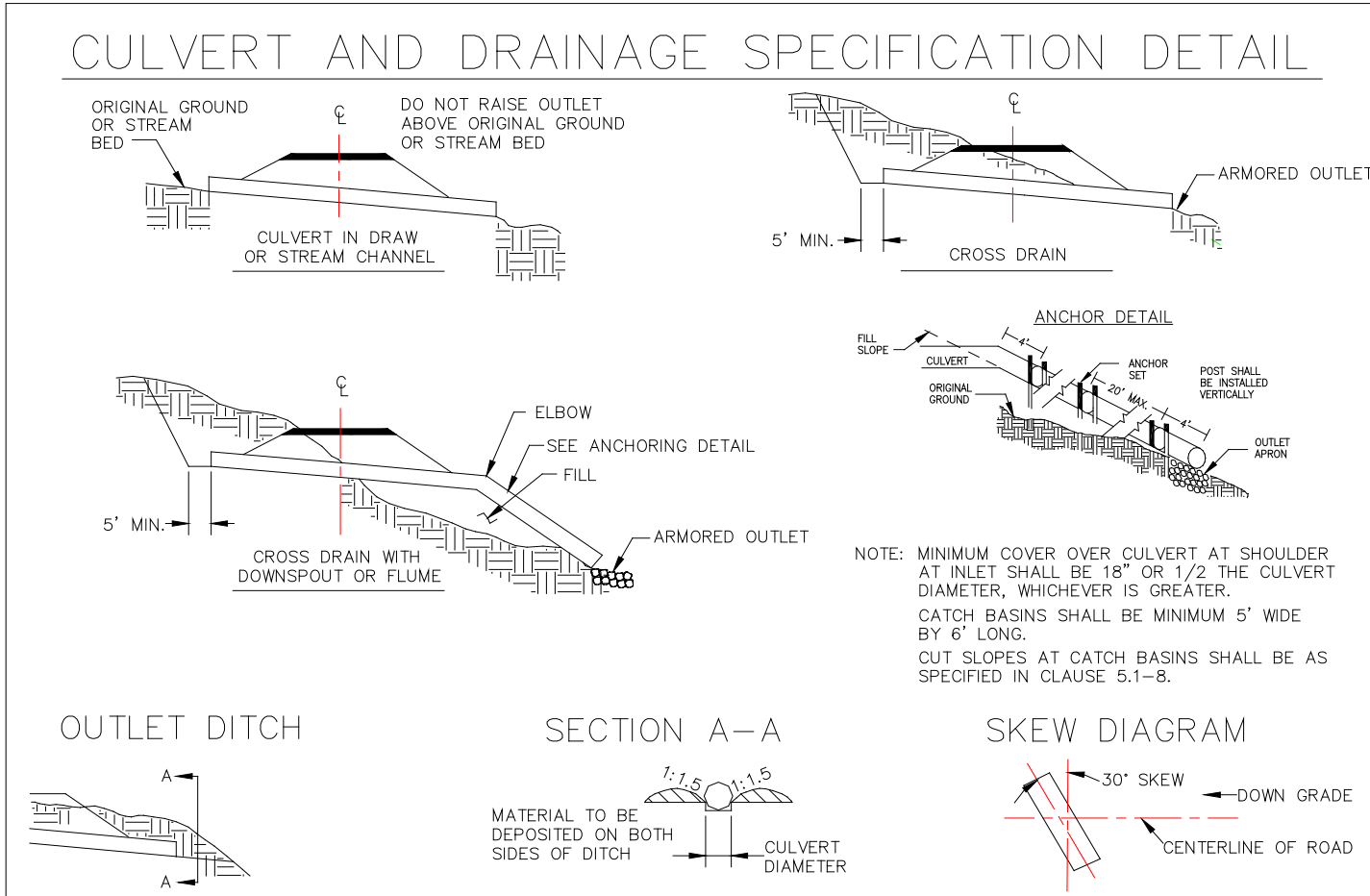
BOTTOM OF EXCAVATION SHALL BE OUTSLOPED SO AS TO DRAIN FREELY.

PROFILE VIEW

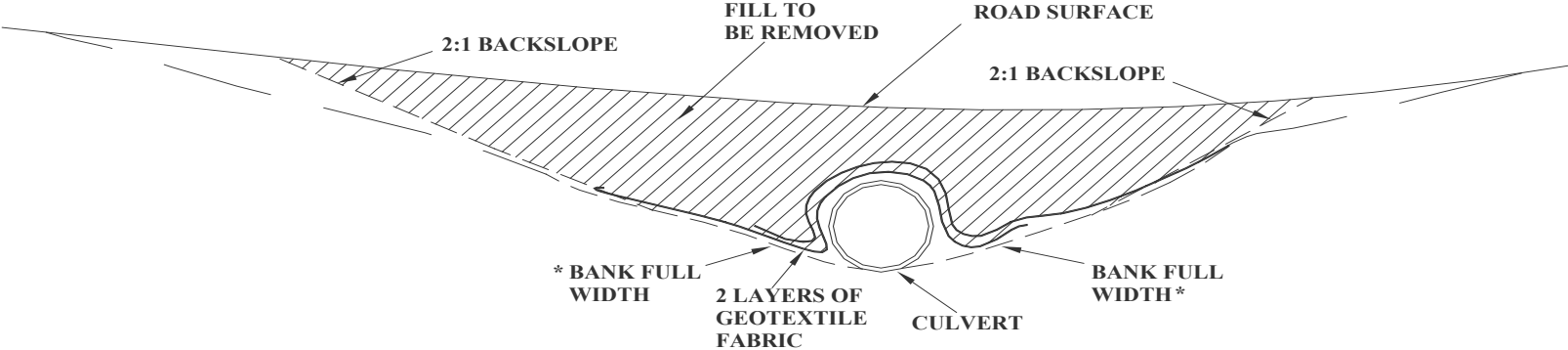


METHOD OF INSTALLATION

NOTE: EMBANKMENT SIDE OF UNDRIVABLE WATER BAR SHALL BE PLACED IN ON SIDE VEHICLE TRAFFIC WILL BE COMING FROM.

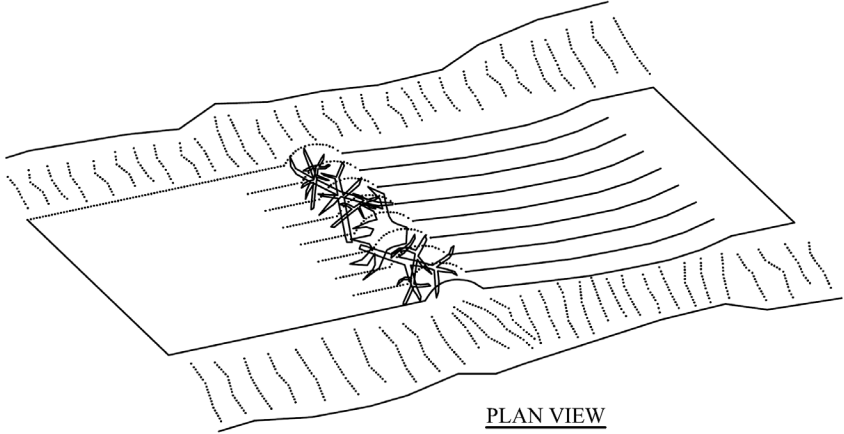


TEMPORARY CULVERT DETAIL



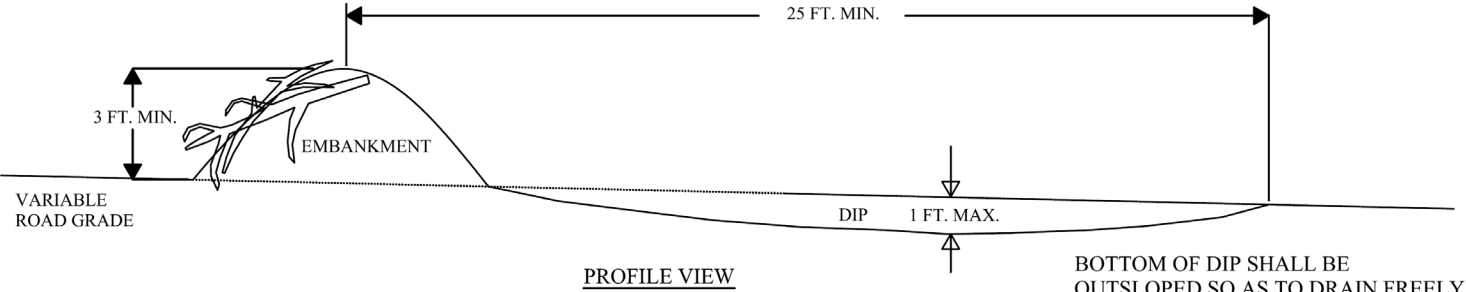
* BEGIN 2:1 SLOPE AT FIVE FEET FROM BANK FULL WIDTH

EARTHEN BARRICADE DETAIL

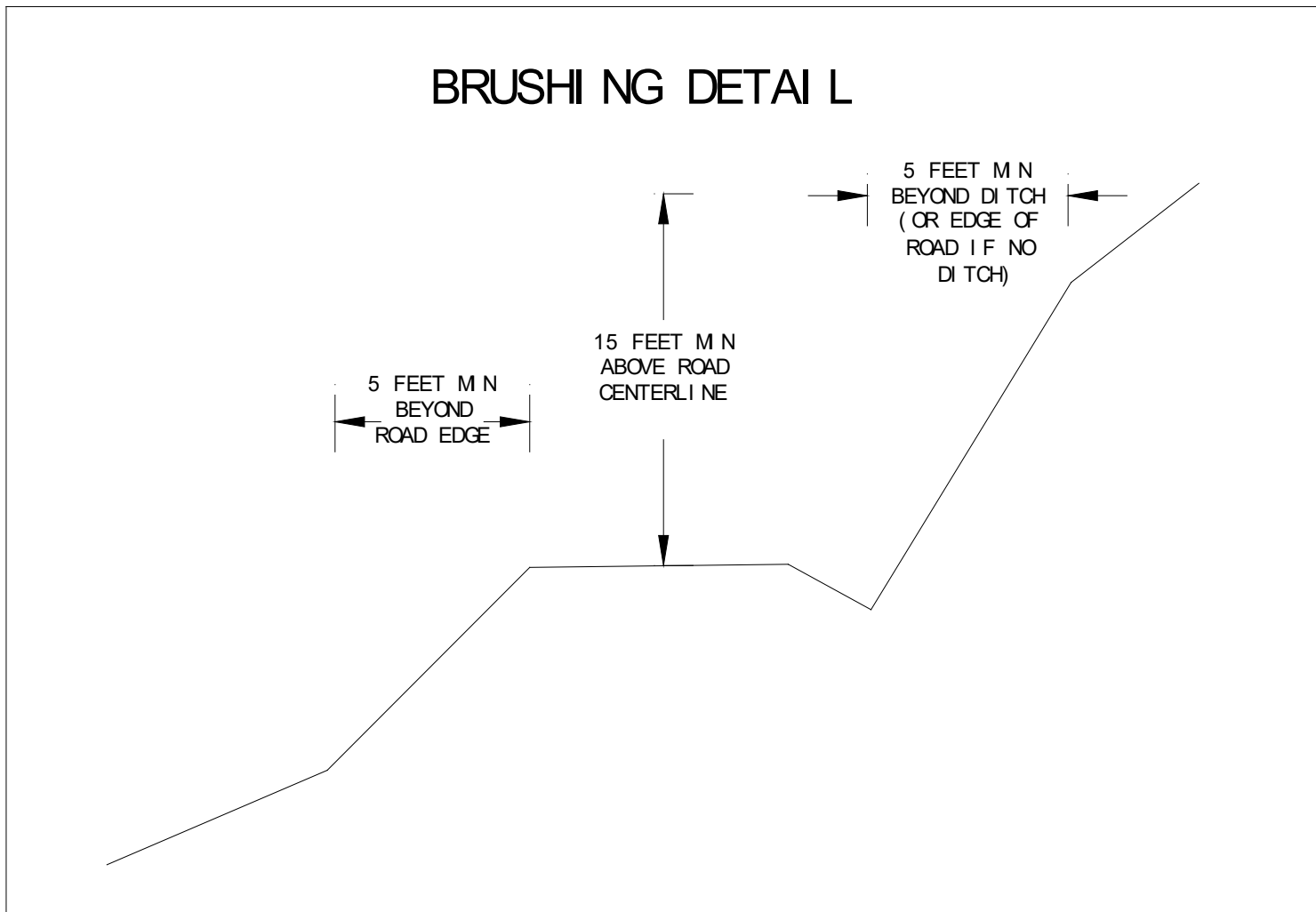


SLASH AND ROOT WADS SHALL BE INCORPORATED IN THE EMBANKMENT SIDE OF THE BARRICADE.

NOTE: EMBANKMENT SIDE OF BARRICADE SHALL BE PLACED ON SIDE VEHICLE TRAFFIC WILL BE COMING FROM.



BRUSHING DETAIL



FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Surface

- Grade and shape road surfaces, turnouts, and shoulders to the original shape to provide a smooth, rut-free traveled surface and maintain surface water runoff in an even, unconcentrated manner.
- Blading shall not undercut the backslope.
- 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 as directed by the Contract Administrator.
- Remove shoulder berms, created by grading, to facilitate drainage, except as marked or directed by the Contract Administrator.

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

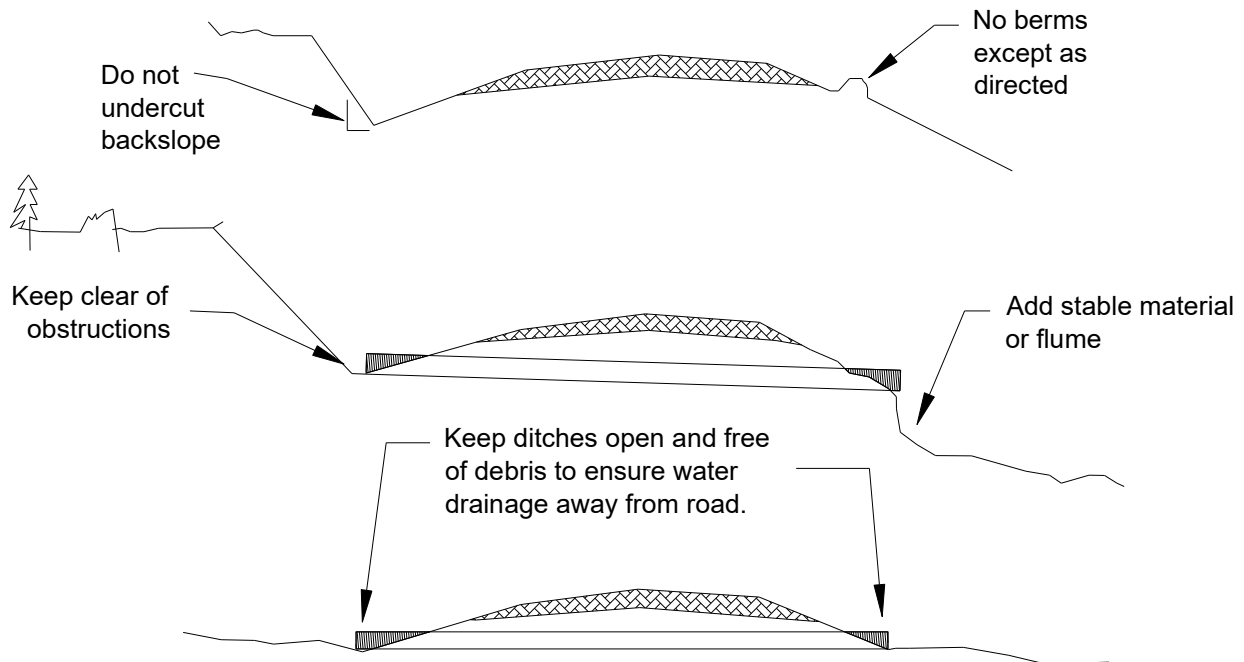
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

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.



Schedule A Harvest Prescription Summary

The 4-O Forest Restoration Project has been designed to be a post-wildfire thinning operation utilizing a combination leave tree marking strategy (Units 1, 3, 4, 6, 7, and 8) with an operator select prescription (Units 2 and 5). To achieve the desired post-harvest stand composition and structure this prescription involves a combination of spacing, species, and diameter limit guidelines.

GENERAL GUIDELINES FOR ALL UNITS

- Harvest unit boundaries are delineated with pink ribbon.
- **Do not** cut outside of areas delineated with pink ribbon unless authorized to do so in writing by the Contract Administrator.
- Road centerline locations are delineated with orange ribbon.
- **Do not cut** hardwood species unless they pose a threat to public safety or leaving them would be a violation of Washington State Labor and Industries (L & I) rules.
- Skidding should be perpendicular to all natural, low-lying draws.
- Type “NS” streams may be crossed with equipment, but stream crossings must be kept to a minimum **and** approved in writing by the Contract Administrator.
- **Leave a minimum** of 2 down logs (at least 10” in diameter at the large end) per acre.
- **There are skips flagged with pink ribbon where no harvesting or skidding will be permitted.** These areas range in size from 1 - 10 acres, and **no equipment or felled trees will be allowed in these areas.**

OPERATOR SELECT UNIT PRESCRIPTION (UNITS 2 and 5)

- These units experienced a high severity wildfire in July 2024 with 99% tree mortality.
- The Contractor will be responsible for selecting leave trees and take trees utilizing the following criteria:
 - In general, leave trees shall be:
 - All trees marked with a red band and the letter “L”
 - Approximately 14 ponderosa pine trees/acre, including a mix of diameter classes ranging from 12” – 24” dbh.
 - Variably spaced throughout, creating a mixed mosaic of small openings (1-3 acres) and clumps of heavy retention with 30+ trees/acre.
 - All trees greater than 28” dbh.
 - All pre-fire standing snags. If felled for safety reasons, these snags will be retained on-site to meet the down woody debris requirement.
 - In areas that contain no trees that meet the retention guidelines above, emphasis should be placed on creating openings that do not exceed 3 acres, and minimizing the distance between leave trees to less than 300’.
 - In general, take trees shall be:

- Douglas-fir, grand fir, ponderosa pine, and western larch (in order of preference from most desirable to least desirable) that can make a merchantable sawlog and are not marked with red paint.
- All trees in Unit 2 within 100' of the Grouse Flats County Road shall be felled.

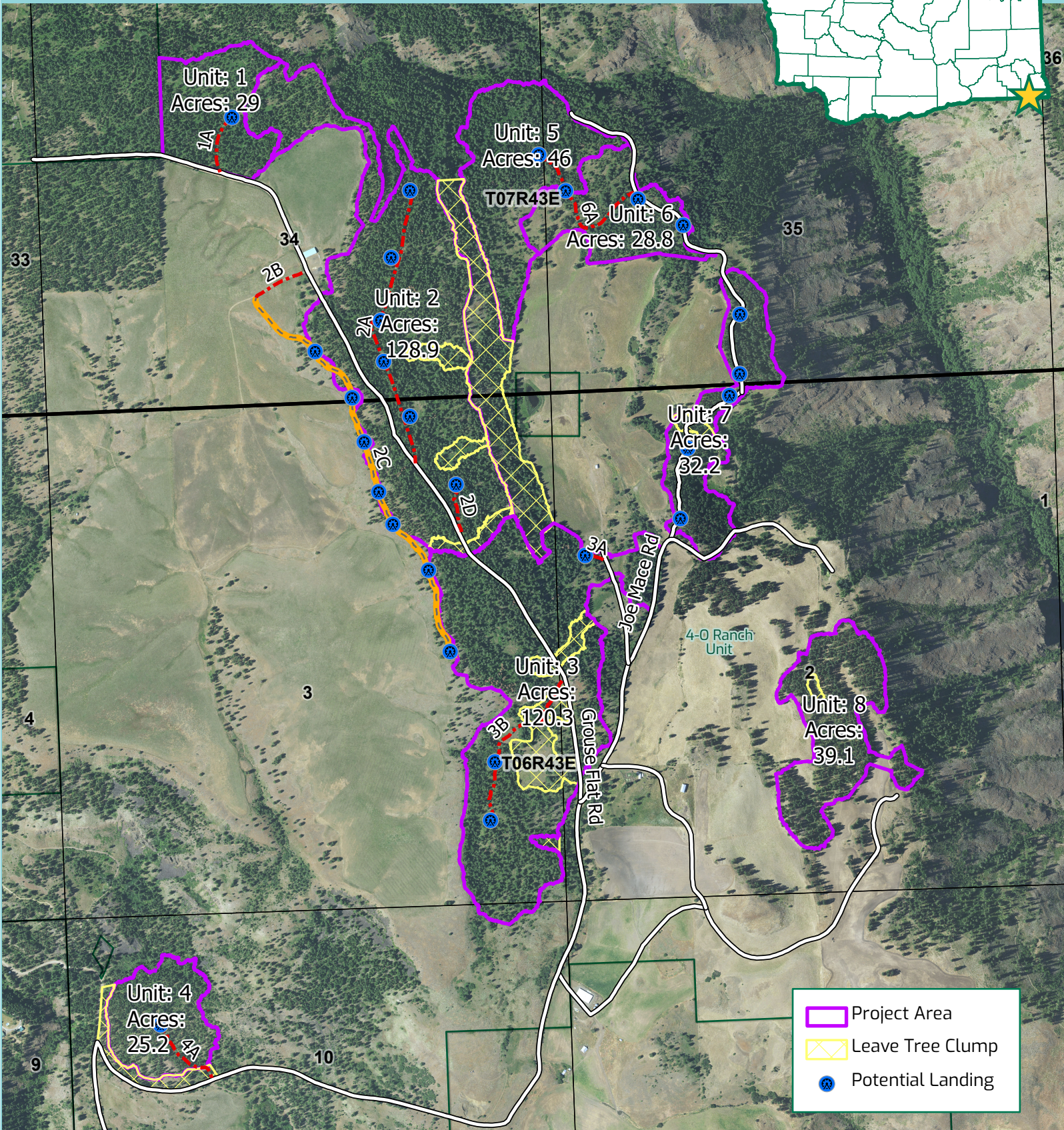
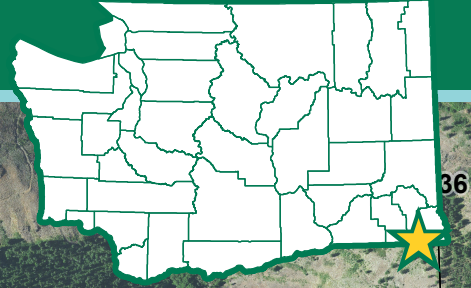
LEAVE TREE MARKED UNIT PRESCRIPTION (UNITS 1, 3, 4, 6, 7, AND 8)

- These units experienced a mixed severity wildfire (Units 1, 3, 6, and 7), or were not burned (Units 4 and 8) in July 2024.
- Only harvest conifer trees greater than 6" diameter at breast height (DBH) **not marked with orange paint** (one mark at eye level and one butt mark on the downhill side).
- Those conifers designated with two orange bands at eye level and one butt mark on the downhill side are designated for Wildlife Reserve Tree (WRT) creation. These trees should be cut as high as the harvesting equipment can reach (at least 10' high). The top log(s) from these trees (if merchantable) can be manufactured for removal.

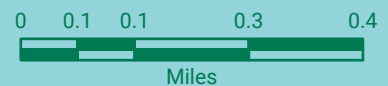
4-O Forest Restoration Recon Map

4-O Forest Restoration

Draft Boundaries & Acreages



Department of Fish and Wildlife



This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

ACCESS ROAD WORK ORDER EQUIPMENT RATES

Effective 07/01/2022

Motor Grader		
To 140 HP	CAT 120H, 120M	177.00
To 175 HP	John Deere 670D, 670G, 672D, G; CAT 12M; CAT 140G; CAT143H; Volvo G930; Komatsu GD-655-3	219.00
To 200 HP	John Deere 772; CAT 140M; Volvo G940;	238.00
Over 200 HP	CAT 160M, 14M, 16H; Komatsu GD-825A-2	308.00

Ripper/Scarifier Use

To 140 HP	4.80
To 175 HP	7.20
Over 175 HP	12.00

Front End Loader; Loader/Backhoe

To 75 HP	JD 310 L EP, CAT 416D, CAT 416E; Komatsu WB142-2	142.00
To 110 HP	CAT 420E; Case 580, 590; CAT 908H, 914G; John Deere 344J	150.00
To 160 HP	CAT 924H, 930H; Hyundai HL730-9; John Deere 524K	152.00
Over 160 HP	John Deere 624K; Case 621E; CAT 938H, 950H, 966K	170.00
Addition for special attachment use: compactor, clam, extendaboom, etc.		7.80

Gravel Trucks

On-Highway Rear Dump	165.00
On-Highway Rear Dump Transfer Trailer (2 axles, 10 CY)	18.00
On-Highway Bottom Dump Trailer (3 axles, 12 CY)	18.00

Dozers

To 75 HP	Case 650 K; CAT D3K XL	135.00
To 105 HP	CAT D4K, D5K; Case 750K, 850K; John Deere 450J, 550J, 650J; Komatsu D37EX-24	176.00
To 135 HP	CAT D6K; Case 1150K, John Deere 700J; Komatsu D51EX-22	200.00
To 185 HP	John Deere 750J; Case 1650, 1850; CAT D6N; Komatsu D61EX -15	227.00
To 240 HP	CAT D6T, D7E; John Deere 850J; Komatsu D65EX-17	262.00
Over 240 HP	CAT D8T; John Deere 950J	378.00

Ripper Use

To 180 HP	9.00
To 235 HP	15.00
Over 235 HP	24.00

Tractor Brush Cutters

To 67 PTO HP	120.00	
To 80 PTO HP	127.00	
Over 80 PTO HP	JD 6320	136.00

Excavators

To 60 HP	Kubota U45, U55; John Deere 50D; Hitachi 50U; CAT 307D	138.00
To 95 HP	CAT 312D, 314D; Hitachi 120-3, 135US-3; Link-Belt 135; Komatsu PC 120-6, PC130-8; John Deere 120D, 135D	178.00
To 120 HP	CAT 315D; John Deere 160LC; Doosan 175LCV; Komatsu PC160LC-8; Link-Belt 160 LX; Volvo EC160C L	205.00

ACCESS ROAD WORK ORDER EQUIPMENT RATES

Effective 07/01/2022

Excavators (continued)		
To 140 HP	CAT 319D L, 320C; Hitachi 160LC-3; Link-Belt 210LX	212.00
To 170 HP	CAT 320D; Hitachi 200LC-3, Link-Belt 240 LX; PC220LC-8; John Deere 225D LC; Volvo EC240C	215.00
To 230 HP	CAT 324D, 324E, 328D, 329D; John Deere 240D, 270D, 290G; Hitachi 240LC-3 270LC-3; Link-Belt 290 LX RBL; Volvo EC 290C	250.00
Over 230 HP	CAT 330D L, 336; Volvo EC330C, John Deere 350G, 350D; Komatsu PC300LC-8, PC390LC-11; Link-Belt 330 X4; Hitachi 330LC-6, 350LC-3	280.00
Add Attachment Rate to Excavator		36.00
Self Propelled Vibratory Compactors		
To 80 HP	Bomag BW145DH-40, BW177D-40; Dynapac CA150D; Sakai SV 201D; Ing. Rand SD45F TF	140.00
To 125 HP	Bomag BW177PDBH-40; CAT CP-433E; Sakai SV400D-II; Dynapac CA152D	160.00
Over 125 HP	Bomag BW211PD-40; Dynapac CA262D; Ing Rand SD105DA TF; Sakai SV505D-I	190.00
Track Mounted Rock Drills (with one operator)		
To 4.5 inch diameter hole		380.00
Over 4.5 inch diameter hole		446.50
Heavy Equipment Hauling		
On-Highway Rear Dump		165.00
Tilt Deck Utility Trailer (2 axle, up to 40,000 lbs)		10.00
Tilt Deck Utility Trailer (3 axle, up to 50,000 lbs)		13.00
On-Highway Truck Tractor (GVW up to 50,000 lbs)		142.00
Lowbed Trailer (2-axle, up to 50,000 lbs)		15.00
Lowbed Trailer (3-axle, up to 80,000 lbs)		35.00
Water Trucks		
On-Highway Water Tanker (3,000 gallon capacity)		104.00
On-Highway Water Tanker (4,000 gallon capacity)		126.00
Off-Highway Water Tanker (5,000 gallon capacity)		147.00
Power Saws; Pumps		10.00
Laborer Wages (Fully Burdened Rates including profit and overhead)		
Laborer- Journey Level		50.00
Laborer- Apprentice Level		47.00

Notations

- 1 HP taken at the Flywheel unless stated otherwise.
- 2 WA Sales Tax - Add sales tax only if an activity is not directly tied to a state timber sale. Sales tax on purchased material will be reimbursed.
- 3 Hourly rates include operator, owning and operating costs, profit and overhead, and also includes all costs of service and support vehicles.
- 4 Specification data such as weight and flywheel HP can be determined upon request by providing equipment make and model information.
- 5 Rates for equipment not included in this schedule can be determined upon request.

Log Stock - Tons by Species, Sort, Grade, Len, Dia Class

State, County: WA ASOTIN

Species: GEN WEST

Page: 1/3

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 40 RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

Grown To:

Acres: 449.00

Count Trees: 216

Cost: ACI-2023

Edited:

Species	Stat	Srt	Grd	Log Len Class	Gross Tons	% Def	Net Tons	% Spp	Tons Per Acre	Net Tons by Scaling Diameter in Inches							
										2-4	5-7	8-11	12-17	18-23	24-29	30-39	40-99
PP	B	DO	4PP	32-35			493	11.4	1				364	129			
PP	B	DO	4PP	40+			88	2.0						88			
PP	B	DO	5PP	16-21			307	7.1	1		307						
PP	B	DO	5PP	24-27			470	10.9	1		324	147					
PP	B	DO	5PP	28-31			163	3.8			163						
PP	B	DO	5PP	32-35			2,329	53.8	5		359	1,098	872				
PP	B	DO	5PP	36-39			477	11.0	1			434	43				
PP-B		Total					4,327	22.7	10		1,153	1,678	1,279	217			
PP	G	PU	UT	12-15			18	0.4			18						
PP	G	PU	UT	16-21			241	5.2	1		203	38					
PP	G	PU	UT	22-23			69	1.5			69						
PP	G	PU	UT	24-27			148	3.2			100	48					
PP	G	PU	UT	28-31			63	1.3			63						
PP	G	PU	UT	32-35			116	2.5			116						
PP	G	PU	UT	36-39			189	4.1			189						
PP	G	PU	UT	40+			23	0.5			23						
PP	G	DO	4PP	32-35			64	1.4					64				
PP	G	DO	5PP	16-21			244	5.3	1		223	21					
PP	G	DO	5PP	22-23			382	8.2	1		218	114	49				
PP	G	DO	5PP	28-31			79	1.7			79						
PP	G	DO	5PP	32-35			1,830	39.4	4		611	650	568				
PP	G	DO	5PP	36-39			275	5.9	1		275						
PP	G	DO	5PP	40+			907	19.5	2		257	471	179				
PP-G		Total					4,648	24.4	10		782	1,750	1,256	860			
PP	R	PU	UT	12-15			4	0.1			4						
PP	R	PU	UT	16-21			57	1.6			57						
PP	R	PU	UT	22-23			7	0.2			7						
PP	R	PU	UT	24-27			23	0.6			23						
PP	R	PU	UT	32-35			95	2.6			95						
PP	R	PU	UT	36-39			31	0.8			31						
PP	R	DO	4PP	32-35			131	3.6					131				
PP	R	DO	5PP	16-21			82	2.3			82						
PP	R	DO	5PP	24-27			254	7.1	1		214	40					
PP	R	DO	5PP	28-31			75	2.1			75						
PP	R	DO	5PP	32-35			1,336	37.0	3		300	508	528				
PP	R	DO	5PP	36-39			385	10.7	1			134	252				
PP	R	DO	5PP	36-39			1,128	31.3	3		127	737	264				
PP-R		Total					3,609	19.0	8		216	798	1,419	1,175			
DF	B	DO	3M	22-23			72	3.0					72				
DF	B	DO	3M	32-35			94	4.0					94				

Log Stock - Tons by Species, Sort, Grade, Len, Dia Class

State, County: WA ASOTIN

Species: GEN WEST

Page: 2/3

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 40 RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

Grown To:

Acres: 449.00

Count Trees: 216

Cost: ACI-2023

Edited:

Species	Stat	Srt	Grd	Log Len Class	Gross Tons	% Def	Net Tons	% Spp	Tons Per Acre	Net Tons by Scaling Diameter in Inches							
										2-4	5-7	8-11	12-17	18-23	24-29	30-39	40-99
DF	B	DO	3M	40+			973	41.2	2			471	501				
DF	B	DO	4M	16-21			144	6.1			58	86					
DF	B	DO	4M	24-27			312	13.2	1		236	77					
DF	B	DO	4M	28-31			46	1.9				46					
DF	B	DO	4M	32-35			518	22.0	1		220	299					
DF	B	DO	4M	36-39			202	8.6				202					
DF-B		Total					2,360	12.4	5		513	1,180	667				
DF	G	PU	UT	12-15			44	1.9		44							
DF	G	PU	UT	16-21			85	3.6		85							
DF	G	DO	3M	36-39			263	11.1	1				263				
DF	G	DO	3M	36-39			1,287	54.3	3			506	781				
DF	G	DO	4M	16-21			128	5.4			109	19					
DF	G	DO	4M	22-23			184	7.7			111	72					
DF	G	DO	4M	28-31			249	10.5	1		182	67					
DF	G	DO	4M	32-35			131	5.5			131						
DF-G		Total					2,370	12.5	5	130	533	664	1,044				
DF	R	PU	UT	12-15			2	0.3		2							
DF	R	PU	UT	16-21			13	2.1		13							
DF	R	PU	UT	24-27			13	2.0		13							
DF	R	DO	3M	16-21			50	7.8					50				
DF	R	DO	3M	40+			298	47.0	1				298				
DF	R	DO	4M	16-21			57	9.0			57						
DF	R	DO	4M	32-35			54	8.6				54					
DF	R	DO	4M	40+			147	23.2				147					
DF-R		Total					634	3.3	1	28	57	201	348				
WL	B	DO	3M	40+			258	45.3	1			258					
WL	B	DO	4M	16-21			18	3.2			18						
WL	B	DO	4M	24-27			9	1.5			9						
WL	B	DO	4M	32-35			99	17.4			69	30					
WL	B	DO	4M	36-39			185	32.6			34	151					
WL-B		Total					569	3.0	1		130	439					
WL	R	PU	UT	12-15			13	4.2			13						
WL	R	PU	UT	16-21			12	4.1			12						
WL	R	DO	3M	40+			73	24.4				73					
WL	R	DO	4M	24-27			18	6.1			18						
WL	R	DO	4M	40+			184	61.2			184						
WL-R		Total					300	1.6	1		227	73					
GF	B	DO	4M	28-31			56	100.0			56						
GF-B		Total					56	0.3			56						

Log Stock - Tons by Species, Sort, Grade, Len, Dia Class

State, County: WA ASOTIN

Species: GEN WEST

Page: 3/3

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 40 RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

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Edited:

Species	Stat	us	Srt	Grd	Log Len Class	Gross Tons	% Def	Net Tons	% Spp	Tons Per Acre	Net Tons by Scaling Diameter in Inches						
											2-4	5-7	8-11	12-17	18-23	24-29	30-39
GF	R	DO	3M	40+				134	84.6				134				
GF	R	DO	4M	16-21				24	15.4			24					
GF-R		Total						158	0.8			24	134				
Stand(s)/Project Totals								19,032	100.0	42							
								Percent Measured Tree Net Tons = 100.0				1,155	5,242	7,045	5,372	217	

Species, Sort, Grade - Mbf by Species, Sort, Grade; Summarized: Len, Dia Classes

State, County: WA ASOTIN

Species: GEN WEST

Page: 1/2

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 4O RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

Grown:

Acres: 449.00

Count Trees: 216

Cost: ACI-2023

Edited:

Species	Stat	Srt	Grd	% Net BdFt	BdFt per Acre			Total Net Mbf	Percent (%) of Net BdFt Volume												Average Log				Logs /Acre			
					% Def	Gross	Net		Log Scale Dia						Log Length						Len (Ft)	Dia (In)	CuFt /Len					
					2-4	5-7	8-11		12-17	18-23	24-29	30-39	40-99	12-15	16-21	22-23	24-27	28-31	32-35	36-39				40+				
PP	B	DO	4PP	17.2	1.9	266	261	117				59	41						82	18	32	16.7	280	1.8	.930			
PP	B	DO	5PP	82.8	3.7	1,306	1,258	565			31	43	26					10	12	4	64	11	26	8.1	53	0.6	23.828	
PP-B			Totals	100.0	3.0	1,571	1,518	682			25	36	32	7				8	10	3	67	12	27	8.4	61	0.6	24.758	
PP	G	PU	UT	5.1	0.5	68	68	30	50	50							39	26			32	3	23	2.4	3	0.1	25.078	
PP	G	DO	4PP	2.3	0.2	30	30	14				100									100		32	17.9	360	2.2	.083	
PP	G	DO	5PP	92.6	2.6	1,250	1,217	546			42	34	24				8	11	2	50	6	23	29	7.5	57	0.5	21.437	
PP-G			Totals	100.0	2.0	1,348	1,315	590	3	42	32	24					9	11	2	49	7	22	26	4.8	28	0.4	46.599	
PP	R	PU	UT	1.5	-0.7	17	17	8	100												58	42	25	2.2	3	0.1	5.725	
PP	R	DO	4PP	5.6		62	62	28				100									100		32	16.2	331	2.0	.187	
PP	R	DO	5PP	92.9	3.2	1,065	1,031	463			22	42	37				3	7	2	47	12	30	31	9.0	75	0.7	13.818	
PP-R			Totals	100.0	3.0	1,144	1,110	499	2	20	39	40					3	6	2	50	11	28	30	7.1	56	0.6	19.731	
DF	B	DO	3M	50.1	0.6	342	340	152				36	64								8	10	82	36	12.3	183	1.3	1.855
DF	B	DO	4M	49.9	2.4	347	338	152			42	58					12	31	3	40		14	27	7.3	46	0.5	7.338	
DF-B			Totals	100.0	2.0	689	678	304			21	47	32				6	19	2	25		48	30	8.3	74	0.7	9.193	
DF	G	PU	UT	0.0																			16	2.2		0.1	4.612	
DF	G	DO	3M	72.5	3.5	485	468	210				32	68									18	82	39	12.4	193	1.3	2.418
DF	G	DO	4M	27.5	3.0	183	177	80			80	20					20	29	35	17			26	6.8	38	0.4	4.696	
DF-G			Totals	100.0	3.0	668	645	290			22	29	49				5	8	10	5	13	60	25	6.1	55	0.6	11.727	
DF	R	PU	UT	0.0																			21	2.1		0.1	.896	
DF	R	DO	3M	66.1		106	106	48				100					20					80	27	13.1	129	1.2	.828	
DF	R	DO	4M	33.9	3.7	57	55	25			23	77					23				23	54	30	8.4	45	0.5	1.224	
DF-R			Totals	100.0	1.0	163	161	72			8	26	66				21				8	71	27	7.8	55	0.6	2.948	
WL	B	DO	3M	46.2		99	99	44				100										100	40	10.7	106	0.6	.927	
WL	B	DO	4M	53.8	1.5	116	115	52			42	58					6	4		33		57	33	7.1	43	0.3	2.647	
WL-B			Totals	100.0	1.0	215	213	96			22	78					3	2		18		77	35	8.1	60	0.4	3.574	
WL	R	PU	UT	11.8	-2.2	11	11	5			100						37	63					14	5.1	17	0.2	.689	
WL	R	DO	3M	29.8		29	29	13				100										100	40	10.0	150	0.9	.192	
WL	R	DO	4M	58.4	5.1	59	56	25			100										10	90	36	7.3	64	0.6	.881	
WL-R			Totals	100.0	3.0	99	96	43			70	30					4	7		6		82	28	6.8	55	0.6	1.762	

Stand Summary Report

State, County: WA ASOTIN

Species: GEN WEST

Page: 1/4

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 40 RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

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Acres: 449.00

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Edited:

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre		BdFt Def %	Total Net			
											CuFt	BdFt	Tons	CuFt		BdFt	Tons	Ccf	Mbf
PP	B	7	1	50	84	68	0.923	0.26	0.923	113.3	3	20	2	18	0.0	26	11	8	
PP	B	8	1	50	88	43	2.229	0.78	2.084	64.3	4	20	8	42	0.0	83	35	19	
PP	B	9	1	61	89	56	1.756	0.79	1.686	74.6	7	27	12	45	4.2	131	54	20	
PP	B	10	1	54	89	54	2.230	1.19	2.180	65.8	7	29	16	62	0.0	175	73	28	
PP	B	11	1	58	89	61	1.534	1.05	1.726	65.4	11	35	18	61	3.1	196	82	27	
PP	B	12	2	50	88	68	1.710	1.33	1.497	68.2	17	57	1	26	85	1.9	278	116	38
PP	B	13	2	50	87	63	0.872	0.78	0.876	58.5	17	55	15	48	9.2	159	66	22	
PP	B	14	1	56	89	66	1.283	1.33	1.440	57.1	17	62	1	24	89	1.9	258	108	40
PP	B	15	2	58	88	75	0.885	1.08	1.168	59.8	21	70	1	24	81	7.7	262	109	37
PP	B	16	2	50	89	83	0.940	1.30	1.869	62.4	18	70	1	34	131	3.5	368	153	59
PP	B	17	1	56	89	83	0.444	0.69	0.719	59.0	25	90	18	65	4.8	197	82	29	
PP	B	18	7	55	87	82	1.074	1.91	1.844	54.6	27	94	1	49	173	5.5	527	220	78
PP	B	19	4	56	89	90	0.696	1.33	1.409	57.5	26	97	1	37	137	6.1	399	166	61
PP	B	20	1	61	89	89	0.560	1.21	1.177	53.6	29	109	1	34	129	0.0	364	152	58
PP	B	21	1	69	90	94	0.286	0.69	0.620	53.8	32	138	20	86	0.2	213	89	38	
PP	B	22	0	80	90	99	0.106	0.29	0.250	53.4	34	160	9	40	0.0	92	38	18	
PP	B	23	1	66	89	88	0.190	0.55	0.452	45.9	34	140	15	63	0.9	166	69	28	
PP	B	24	2	65	89	88	0.185	0.58	0.424	44.0	38	144	16	61	8.7	175	73	27	
PP	B	25	1	61	89	86	0.112	0.38	0.465	41.2	22	86	10	40	4.8	111	46	18	
PP	B	29	2	60	89	106	0.089	0.40	0.178	44.0	76	348	14	62	2.8	146	61	28	
PP-B			34	55	88	66	18.102	17.94	22.985	65.2	17	66	10	402	1,518	3.4	4,327	1,803	682
PP	G	7	1	50	87	56	1.625	0.43	2.858	95.4	3	8	8	23	0.0	85	35	11	
PP	G	8	4	50	86	55	4.326	1.50	7.471	83.1	4	11	1	28	79	0.0	299	124	36
PP	G	9	4	50	87	58	4.250	1.90	7.351	76.4	5	14	1	37	100	0.0	397	166	45
PP	G	10	2	50	87	48	1.523	0.79	2.005	58.6	7	9	14	18	0.0	152	63	8	
PP	G	11	2	50	88	63	1.182	0.78	2.605	68.4	6	17	16	44	0.0	168	70	20	
PP	G	12	4	50	87	65	1.701	1.36	3.650	64.7	8	23	1	29	83	0.0	311	130	37
PP	G	13	2	50	89	65	1.326	1.18	2.828	60.6	9	27	1	26	77	0.0	276	115	34
PP	G	14	3	50	88	65	2.262	2.38	5.379	55.9	10	29	1	54	155	6.4	577	241	70
PP	G	15	1	50	90	80	0.621	0.77	1.743	63.7	12	43	21	76	2.8	222	93	34	
PP	G	16	5	50	88	76	1.183	1.62	3.160	57.3	12	39	1	39	122	7.1	422	176	55
PP	G	17	4	50	88	75	0.955	1.48	2.660	53.4	14	42	1	37	111	0.0	398	166	50
PP	G	18	5	50	87	72	0.660	1.18	1.487	47.9	20	61	1	29	90	4.5	315	131	41
PP	G	19	2	50	89	89	0.441	0.87	1.309	56.2	20	67	1	26	87	6.7	278	116	39
PP	G	20	4	50	87	80	0.471	1.03	1.303	47.8	21	70	1	27	91	2.8	291	121	41
PP	G	21	2	50	88	89	0.185	0.44	0.551	51.5	24	88	13	49	0.0	142	59	22	
PP	G	22	3	50	89	96	0.286	0.76	0.865	52.4	28	102	1	24	88	0.0	262	109	40
PP	G	25	1	50	90	104	0.042	0.15	0.126	49.5	39	170	5	21	0.0	53	22	10	
PP-G			49	50	88	63	23.040	18.63	47.352	69.0	9	28	10	431	1,315	2.5	4,648	1,937	590
PP	L	9	0	50	90	0	0.542	0.26	0.000	0.0					0.0				
PP	L	10	0	61	90	0	0.743	0.40	0.000	0.0					0.0				
PP	L	12	0	50	90	0	0.350	0.26	0.000	0.0					0.0				
PP	L	13	0	80	90	0	0.300	0.29	0.000	0.0					0.0				
PP	L	14	0	64	90	0	0.887	0.95	0.000	0.0					0.0				
PP	L	15	0	50	90	0	0.224	0.26	0.000	0.0					0.0				
PP	L	16	0	57	90	0	0.480	0.67	0.000	0.0					0.0				
PP	L	17	0	57	90	0	0.424	0.67	0.000	0.0					0.0				
PP	L	18	0	50	90	0	0.292	0.52	0.000	0.0					0.0				
PP	L	19	0	55	90	0	0.474	0.93	0.000	0.0					0.0				

Stand Summary Report

State, County: WA ASOTIN

Species: GEN WEST

Page: 2/4

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 40 RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

Grown To:

Acres: 449.00

Count Trees: 216

Cost: ACI-2023

Edited:

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
PP	L	20	0	55	90	0	0.431	0.93	0.000	0.0						0.0			
PP	L	22	0	50	90	0	0.095	0.26	0.000	0.0						0.0			
PP	L	24	0	50	90	0	0.084	0.26	0.000	0.0						0.0			
PP	L	27	0	50	90	0	0.066	0.26	0.000	0.0						0.0			
PP-L			0	58	90	0	5.390	6.92	0.000	0.0	0	0				0.0			
PP	R	7	0	50	90	42	0.703	0.17	0.346	76.4	8	10	3	3	0.0	30	13	2	
PP	R	9	2	50	86	49	1.481	0.66	1.762	64.5	7	12	12	21	0.0	127	53	10	
PP	R	10	1	57	89	69	1.148	0.67	0.876	80.9	14	51	12	45	0.0	131	55	20	
PP	R	11	0	50	90	75	0.434	0.26	0.306	85.7	17	60	5	18	0.0	56	23	8	
PP	R	12	0	50	90	69	0.210	0.16	0.723	70.2	5	15	3	11	0.0	37	15	5	
PP	R	13	1	53	89	71	1.646	1.51	2.090	66.0	15	47	1	32	98	4.6	342	142	44
PP	R	14	1	50	88	56	0.664	0.69	0.872	48.9	14	37	12	32	16.3	131	55	14	
PP	R	15	2	50	85	70	0.445	0.55	0.672	56.1	19	46	13	31	7.3	136	57	14	
PP	R	16	2	50	88	82	0.619	0.84	1.476	62.2	15	55	1	23	81	0.0	244	102	36
PP	R	17	1	53	90	87	0.791	1.24	2.251	61.2	16	64	1	35	144	0.0	376	157	64
PP	R	18	1	50	88	86	0.485	0.87	1.428	56.9	16	57	1	23	81	0.0	250	104	36
PP	R	19	4	50	88	78	0.731	1.44	1.666	49.2	23	73	1	38	122	0.0	406	169	55
PP	R	20	3	53	88	85	0.567	1.26	1.391	50.5	26	91	1	36	127	4.8	385	160	57
PP	R	21	5	54	87	85	0.443	1.06	1.076	48.6	28	89	1	30	96	5.4	327	136	43
PP	R	22	2	50	86	87	0.173	0.46	0.408	47.3	33	105	13	43	5.2	145	60	19	
PP	R	23	0	50	90	87	0.151	0.43	0.383	45.9	32	106	12	41	5.0	134	56	18	
PP	R	24	1	50	89	82	0.249	0.76	0.625	41.4	33	113	1	21	71	5.7	225	94	32
PP	R	25	1	61	90	88	0.118	0.40	0.283	42.0	41	159	12	45	4.5	126	52	20	
PP-R			27	52	88	70	11.058	13.42	18.634	62.5	18	60	8	335	1,110	2.9	3,609	1,504	499
DF	B	7	0	80	90	66	0.480	0.14	0.159	107.8	18	65	3	10	7.6	37	13	5	
DF	B	9	1	56	87	56	1.526	0.67	1.341	74.9	8	34	11	46	1.7	142	50	21	
DF	B	10	0	50	90	56	0.925	0.50	0.984	67.1	9	31	9	30	0.0	113	40	14	
DF	B	11	1	50	84	55	0.394	0.24	0.394	62.3	11	30	4	12	0.0	55	19	5	
DF	B	12	0	80	90	66	0.171	0.14	0.159	64.4	18	65	3	10	7.6	37	13	5	
DF	B	13	2	80	88	66	0.635	0.57	0.637	62.0	18	65	12	41	7.6	148	52	19	
DF	B	14	1	69	89	75	0.641	0.69	0.999	64.1	17	59	17	59	0.0	212	74	26	
DF	B	15	1	66	89	88	0.472	0.55	1.091	72.3	14	57	16	63	0.0	201	71	28	
DF	B	16	0	50	90	66	0.376	0.50	0.984	50.8	11	36	11	35	0.0	144	51	16	
DF	B	17	1	50	88	68	0.336	0.50	0.741	49.2	16	49	12	36	0.0	149	52	16	
DF	B	18	1	80	86	82	0.082	0.14	0.164	55.0	25	100	4	16	5.0	52	18	7	
DF	B	19	1	60	89	84	0.212	0.40	0.421	53.8	27	98	11	41	0.0	146	51	19	
DF	B	20	2	69	89	83	0.324	0.69	0.650	50.1	31	114	1	20	74	4.2	257	90	33
DF	B	21	1	50	89	91	0.217	0.52	0.438	52.0	38	145	17	64	0.0	212	74	29	
DF	B	22	0	56	90	90	0.257	0.67	0.539	49.7	39	149	1	21	81	0.8	269	94	36
DF	B	23	0	80	90	92	0.052	0.14	0.101	48.9	46	180	5	18	2.3	59	21	8	
DF	B	25	1	80	87	100	0.042	0.14	0.084	47.8	60	245	5	20	0.0	64	23	9	
DF	B	27	0	80	90	100	0.037	0.14	0.084	44.9	60	245	5	20	0.0	64	23	9	
DF-B			13	62	88	68	7.180	7.37	9.971	66.4	18	68	5	184	678	1.5	2,360	828	304
DF	G	8	0	50	90	86	0.478	0.17	0.192	129.0	28	87	5	17	7.7	68	24	7	
DF	G	10	3	50	83	52	1.327	0.67	2.654	64.2	5	15	13	40	0.0	169	59	18	
DF	G	12	1	50	87	59	0.421	0.32	0.870	60.0	8	20	7	17	25.0	88	31	8	
DF	G	13	0	50	90	68	0.182	0.16	0.435	64.3	9	29	4	13	11.4	52	18	6	
DF	G	14	0	50	90	75	0.380	0.40	1.395	64.5	8	28	11	39	4.3	145	51	17	

Stand Summary Report

State, County: WA ASOTIN

Species: GEN WEST

Page: 3/4

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 40 RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

Grown To:

Acres: 449.00

Count Trees: 216

Cost: ACI-2023

Edited:

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre		BdFt Def %	Total Net			
											CuFt	BdFt	Tons	CuFt		BdFt	Tons	Ccf	Mbf
DF	G	15	1	50	88	86	0.275	0.32	0.836	70.7	13	50	11	42	0.0	136	48	19	
DF	G	17	1	50	88	89	0.162	0.24	0.487	64.7	17	57	8	28	5.9	104	36	12	
DF	G	18	2	50	87	87	0.173	0.31	0.434	57.8	22	78	9	34	0.0	121	42	15	
DF	G	19	0	50	90	94	0.082	0.16	0.265	59.7	20	73	5	19	0.0	67	24	9	
DF	G	20	0	50	90	89	0.115	0.24	0.487	54.5	17	57	8	28	5.9	104	36	12	
DF	G	21	3	50	87	83	0.284	0.69	0.852	47.1	25	81	1	21	69	5.3	268	94	31
DF	G	22	2	50	88	88	0.341	0.89	0.992	48.0	28	103	1	28	102	1.3	359	126	46
DF	G	23	1	50	89	92	0.132	0.39	0.415	47.7	31	114	13	47	3.1	165	58	21	
DF	G	24	2	50	87	93	0.168	0.53	0.504	46.3	36	125	1	18	63	4.4	231	81	28
DF	G	26	0	50	90	97	0.176	0.64	0.647	45.3	36	136	1	23	88	1.5	295	103	40
DF-G			16	50	87	73	4.696	6.13	11.465	66.3	16	56	5	185	645	3.4	2,370	832	290
DF	R	10	0	50	90	83	0.332	0.17	0.314	103.8	15	53	5	17	6.3	59	21	8	
DF	R	14	0	50	90	63	0.232	0.24	0.329	54.8	19	45	6	15	0.0	80	28	7	
DF	R	16	1	50	84	63	0.164	0.24	0.329	46.1	19	45	6	15	0.0	80	28	7	
DF	R	17	1	50	86	83	0.105	0.17	0.314	58.2	15	53	5	17	6.3	59	21	8	
DF	R	20	1	50	89	84	0.233	0.52	0.469	49.8	33	115	15	54	0.0	197	69	24	
DF	R	22	1	50	87	81	0.063	0.16	0.188	45.0	25	90	5	17	0.0	61	21	8	
DF	R	23	0	50	90	84	0.095	0.26	0.235	44.8	33	115	8	27	0.0	98	35	12	
DF-R			4	50	89	77	1.224	1.76	2.178	65.0	23	74	1	50	161	1.3	634	222	72
WL	B	10	0	50	90	86	0.957	0.52	0.541	103.2	23	90	12	49	0.0	132	55	22	
WL	B	12	2	80	88	93	0.342	0.29	0.684	90.0	12	50	8	34	5.0	87	36	15	
WL	B	13	1	50	88	86	0.271	0.26	0.271	77.6	23	90	6	24	0.0	66	28	11	
WL	B	14	1	61	90	89	0.395	0.40	0.562	78.3	20	79	11	44	0.0	120	50	20	
WL	B	16	1	50	87	78	0.182	0.24	0.363	60.0	18	70	7	25	0.0	70	29	11	
WL	B	17	1	50	90	98	0.158	0.26	0.316	67.6	27	115	9	36	0.0	93	39	16	
WL-B			6	56	89	88	2.305	1.98	2.738	88.1	19	78	1	53	213	0.8	569	237	96
WL	G	15	0	50	90	0	0.210	0.24	0.000	0.0					0.0				
WL-G			0	50	90	0	0.210	0.24	0.000	0.0	0	0			0.0				
WL	L	15	0	50	90	0	0.218	0.26	0.000	0.0					0.0				
WL-L			0	50	90	0	0.218	0.26	0.000	0.0	0	0			0.0				
WL	R	13	1	50	87	77	0.279	0.24	0.557	73.3	12	35	7	19	14.3	72	30	9	
WL	R	14	1	50	87	77	0.236	0.24	0.471	67.4	14	45	6	21	0.0	69	29	10	
WL	R	16	1	50	89	84	0.367	0.50	0.855	63.8	17	65	15	56	0.0	160	67	25	
WL-R			3	50	88	80	0.881	0.98	1.883	67.8	15	51	1	28	96	2.8	300	125	43
GF	B	8	1	80	84	56	0.391	0.14	0.391	82.0	7	30	3	12	0.0	28	13	5	
GF	B	14	0	80	90	56	0.140	0.14	0.391	49.1	7	30	3	12	0.0	28	13	5	
GF-B			1	80	86	56	0.531	0.29	0.782	73.3	7	30	6	23	0.0	56	26	11	
GF	R	13	1	50	85	82	0.266	0.26	0.533	73.4	15	55	8	29	0.0	79	36	13	
GF	R	32	0	50	90	82	0.046	0.26	0.533	30.6	15	55	8	29	0.0	79	36	13	
GF-R			1	50	86	82	0.313	0.52	1.066	67.1	15	55	16	59	0.0	158	72	26	

Stand Summary Report

State, County: WA ASOTIN

Species: GEN WEST

Page: 4/4

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 4O RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

Grown To:

Acres: 449.00

Count Trees: 216

Cost: ACI-2023

Edited:

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log			Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt	Tons		Cf	Mbf	
Stands/Project:			154	54	88	62	75.149	76.43	119.055	61.9	14	49	42	1,689	5,819	2.7	19,032	7,585	2,613	

Statistics of Sampled Population

State, County: WA ASOTIN

Species: GEN WEST

Page: 1/1

Project: 4 O RANCH

Plots: 162

Sort: NW SORTS

Date: 09/16/2024

Tract: 40 RANCH

Trees: 370

Grade: NW SCALE GRADES

Cruised:

Stand: 1 : 8

Measured Trees: 154

Price: ACI-2018

Grown To:

Acres: 449.00

Count Trees: 216

Cost: ACI-2023

Edited:

Sample data collection information

	Total Plots	Sample Trees	Trees /Plot	Trees /Acre	Est Total Trees	% Sample Trees
Basal Plots (B)	108	154	1.43	29.099	13,065	1.18
Basal DBH Count Plots (B)	27	216	8.00	46.050	20,676	1.04
Blank Plots (B)	27		.00	.000		.00

Stand Summary - Averages

Species Group	St	Sample Tres	QM Dbh	Avg Total Ht	Trees /Acre	Basal Area /Acre	RD %	Mbf CV %	Mbf SE %	Tons /Acre	Net Ccf /Acre	Net Mbf /Acre	Total Net Ccf	Total Net Mbf
PONDEROS	B	34	13.5	66	18.102	17.94	4.89	63.3	10.4	10	4.02	1.518	1,803	682
PONDEROS	G	49	12.2	63	23.040	18.63	5.34	67.3	9.8	10	4.31	1.315	1,937	590
PONDEROS	R	27	14.9	70	11.058	13.42	3.47	71.5	12.8	8	3.35	1.110	1,504	499
DOUG FIR	B	13	13.7	68	7.180	7.37	1.99	56.4	13.3	5	1.84	.678	828	304
DOUG FIR	G	16	15.5	73	4.696	6.13	1.56	96.6	24.1	5	1.85	.645	832	290
DOUG FIR	R	4	16.2	77	1.224	1.76	0.44	56.9	23.2	1	0.50	.161	222	72
W LARCH	B	6	12.5	88	2.305	1.98	0.56	50.3	19.0	1	0.53	.213	237	96
W LARCH	R	3	14.3	80	0.881	0.98	0.26	40.2	28.4	1	0.28	.096	125	43
GR FIR	B	1	10.0	56	0.531	0.29	0.09				0.06	.023	26	11
GR FIR	R	1	17.5	82	0.313	0.52	0.12				0.16	.059	72	26
		154	13.5	67	69.330	69.02	18.72	95.2	7.5	42	16.89	5.819	7,585	2,613

Confidence Level (CL) 68.26 out of 100.

Standard Deviation (SD) 1.00

Coefficient of Variation % (CV) and Stand Error of Estimate % (SE) are both computed from plot data

Measured Unit	SD	CL	CV%	SE%	per-Acre Range			Plots Required for SE%			Total Volume Range		
					Low	Avg	High	5%	10%	15%	Low	Avg	High
Net Mbf (1000 BdFt)	1.00	68.26	95.20	7.48	5.38	5.82	6.25	362	90	40	2,417	2,613	2,808
Net Ccf (100 CuFt)	1.00	68.26	91.72	7.21	15.68	16.89	18.11	336	84	37	7,038	7,585	8,132
Net Tons	1.00	68.26	93.94	7.38	39.26	42.39	45.52	352	88	39	17,627	19,032	20,436
Basal Area	1.00	68.26	91.27	7.17	70.95	76.43	81.92	333	83	37			
Trees	1.00	68.26	119.42	9.38	68.10	75.15	82.20	570	142	63			

	SD	CL	CV%	SE%	per-Tree Range			Sample Trees Required		
					119	126	132	421	105	46
Sample Trees BF	1.00	68.26	102.66	5.17						
Sample Trees CF	1.00	68.26	91.82	4.62	33	35	37	337	84	37

Trees per Plot	Number Required		
Required Measured Trees per Plot - BdFt per Acre	1	1	1
Required Measured Trees per Plot - CuFt per Acre	1	1	1