WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

TIMBER NOTICE OF SALE

***SALE NAME**: WEBB VRH & WMZ* ***AGREEMENT NO**: 30-097375*

AUCTION: April 28, 2020 starting at 10:00 a.m., **COUNTY:** Mason
South Puget Sound Region Office, Enumclaw, WA

SALE LOCATION: Sale located approximately 20 miles northwest of Hoodsport.

PRODUCTS SOLD AND SALE AREA: All timber, except trees marked with blue paint or bounded out by yellow leave tree area tags, bounded by the following: white timber sale boundary tags, timber type change marked with pink flagging, blue special management area tags, and the USFS 2510 Road in Unit #1; white timber sale boundary tags in Unit #3;

All timber as described in Schedule A bounded by white timber sale boundary tags, blue special management area tags, and the 2540 and USFS 2510 roads in Unit #2;

All timber bounded by orange right of way tags in Unit #4;

All forest products above located on part(s) of Sections 2, 3, 10 and 11 all in Township 24 North, Range 3 West, W.M., containing 77 acres, more or less.

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

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg DBH	Ring Count	Total MBF	MBF by Grade 1P	2P	3P	SM	1S	2S	3S	4S	UT
Douglas fir	21.3	7	2,118						1,544	461	110	3
Hemlock	16.7	8	515						296	149	68	2
Red cedar	16.4		197							148	49	
Red alder	14.8		74						10	23	39	2
Cottonwood	18		4									4
Maple	16.9		2								2	
Sale Total			2,910									

MINIMUM BID: $855,000.00 **BID METHOD:** Sealed Bids

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

EXPIRATION DATE: October 31, 2021 **ALLOCATION:** Export Restricted

BID DEPOSIT: $85,500.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Harvest activities are estimated to be 100 percent ground based harvest. Ground based equipment, with self-leveling equipment limited to sustained slopes 60 percent or less, tracked ground based equipment limited to sustained slopes 45 percent or less, and all other ground based equipment limited to sustained slopes 35 percent or less. Yarding may be restricted during wet weather if rutting becomes excessive, per clause H-017.

Falling, yarding, and timber haul will not be permitted on weekends or State recognized holidays, unless approved in writing by the Contract Administrator.

ROADS: 8.60 stations of required construction. 21.10 stations of required reconstruction. 25.92 stations of optional construction. 303.32 stations of required prehaul maintenance. 17.70 stations of abandonment, if constructed. Purchaser maintenance on the USFS 2510, 2540, 4000, 4020, and 4020 Ext. roads and Spurs 1 and 2. Designated maintenance on all other roads used.

Rock for this proposal can be obtained from the State owned 2510 Pit at no cost to the Purchaser or any commercial rock source at the Purchaser's expense. Rock source development will be required per Road Plan clauses 6-10, 6-12 and as specified in the Rock Source Development Plan.

Operation of road construction equipment and rock haul will not be permitted on weekends or State recognized holidays, unless approved in writing by the Contract Administrator.

ACREAGE DETERMINATION

CRUISE METHOD: Acreage was determined by traversing boundaries by GPS. GPS data files are available at DNR's website for Timber Sale Auction Packets. See cruise narrative for cruise method.

FEES: $49,470.00 is due on day of sale. $9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: This sale contains high quality and/or pole logs, see Cruise.

Unit #2 is a Wetland Management Zone (WMZ) thinning. Purchaser will be required to mark take trees as described in Schedule A, which is part of the contract.

Cut all vine maple within the harvest unit(s), leaving a stump no more than 12 inches in height.

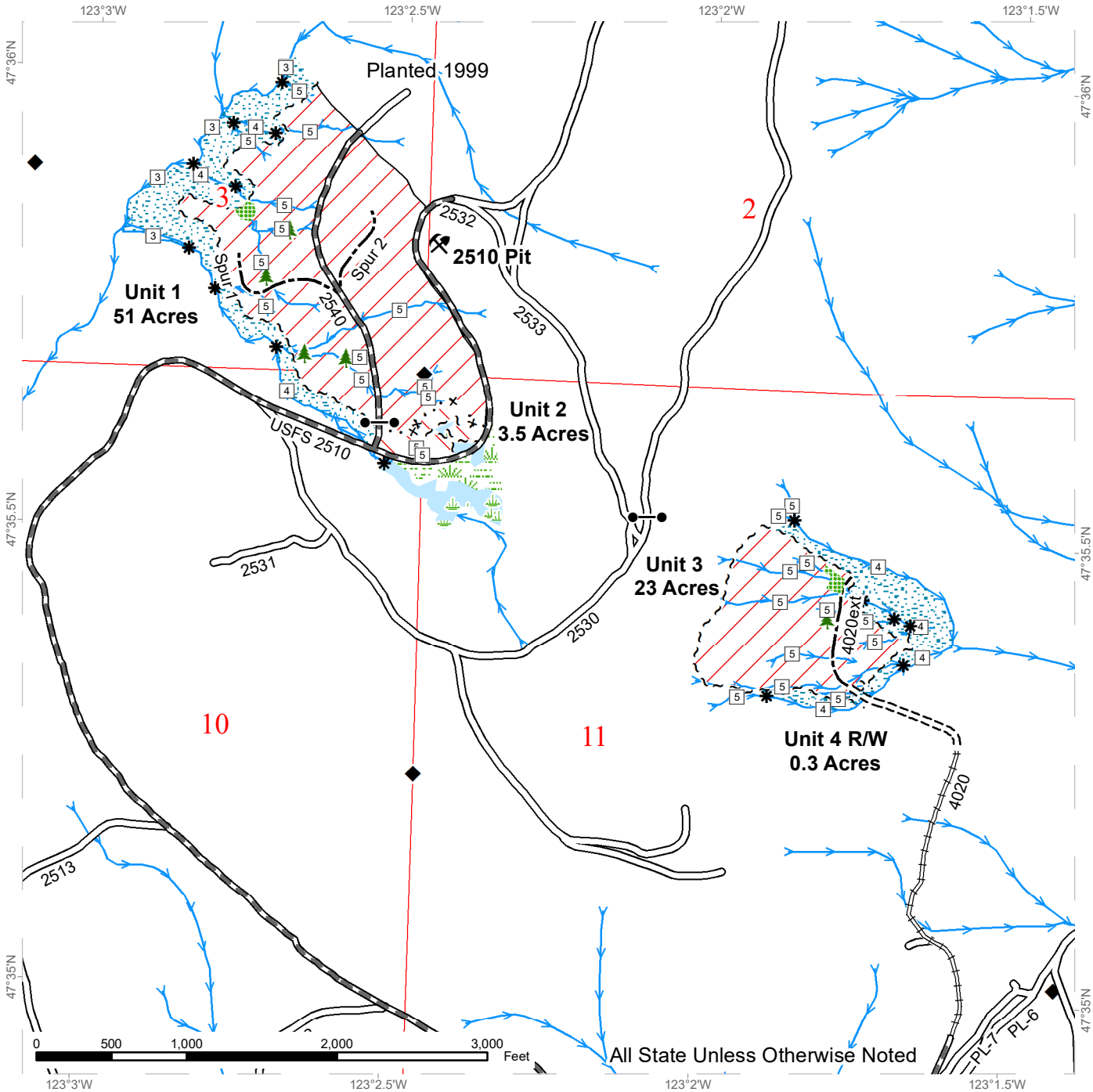
30 foot equipment limitation zones are required on all Type 5 streams.

See map for gate locations. Gate keys may be obtained by contacting the South Puget Sound Region Office at 360-825-1631 or by contacting Mike Davies at 360-801-0682.

TIMBER SALE MAP

SALE NAME: WEBB
AGREEMENT #: 30-097375
TOWNSHIP(S): T24R3W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Mason
ELEVATION RGE: 960-1440



- Sale Boundary Tags
- Special Mgmt Area
- Right of Way Tags
- Timber Type Change
- Variable Retention Harvest
- WMZ Thinning
- Leave Tree Area
- Riparian Mgt Zone
- Wetland Mgt Zone
- Wetland
- Stream Type
- Stream Type Break
- Streams
- Existing Roads
- Required Pre-Haul Maintenance
- Required Construction
- Required Reconstruction
- Optional Construction
- Survey Monument
- Gate (A383 Master)
- Leave Tree Area >1/4 Acre
- Rock Pit

N

Prepared By: jcob490

Modification Date: kfry490 1/30/2020

DRIVING MAP

SALE NAME: WEBB
AGREEMENT#: 30-097375
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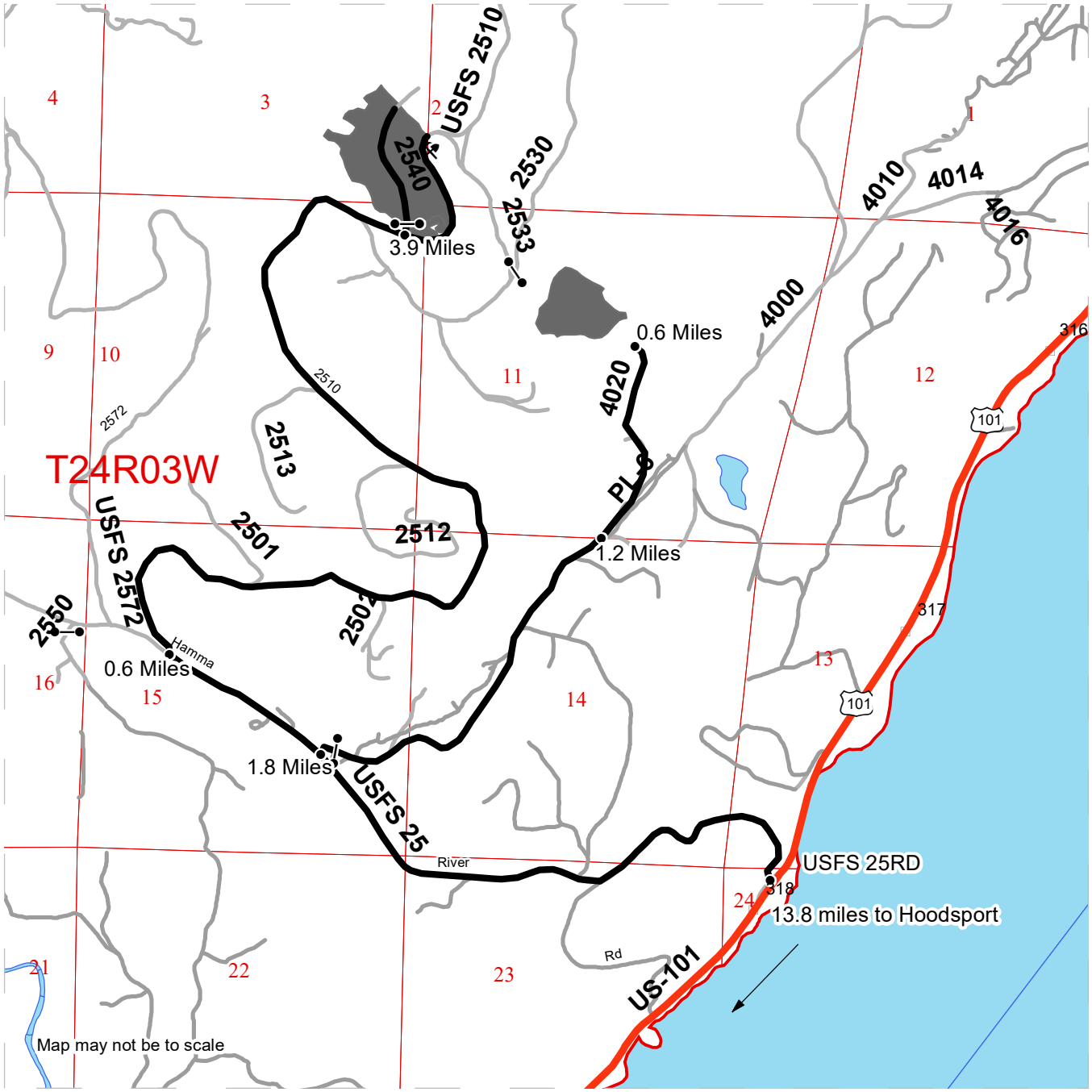

- Timber Sale Unit
- Haul Route
- Other Road
- Milepost Markers
- Distance Indicator
- Gate (A383 Master)
- Rock Pit

DRIVING DIRECTIONS:
From Hoodsport go 13.8 miles north on US-101. Turn left onto USFS 25 Road.

Units 1 and 2: Go 2.4 miles then turn right onto USFS 2510. Go 3.9 miles to 2540 Road.
Units 3 and 4: Go 1.8 miles then turn right onto 4000 Road. Go 1.2 then stay left onto 4020 Road.
Go 0.6 mile to end of 4020 Road where the 4020 Ext construction starts.

N

Prepared By: jcob490

Modification Date: nchi490 2/12/2020

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-097375

SALE NAME: WEBB VRH & WMZ

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on April 28, 2020 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All timber, except trees marked with blue paint or bounded out by yellow leave tree area tags, bounded by the following: white timber sale boundary tags, timber type change marked with pink flagging, blue special management area tags, and the USFS 2510 Road in Unit #1; white timber sale boundary tags in Unit #3;

All timber as described in Schedule A bounded by white timber sale boundary tags, blue special management area tags, and the 2540 and USFS 2510 roads in Unit #2;

All timber bounded by orange right of way tags in Unit #4;

All forest products above located, located on approximately 77 acres on part(s) of Sections 2, 3, 10, and 11 all in Township 24 North, Range 3 West W.M. in Mason County(s) as designated on the sale area and as shown on the attached timber sale map.

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

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

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the

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

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

Schedule	Title
A	WMZ Thinning Prescription

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to October 31, 2021.

G-040 Contract Term Adjustment - No Payment

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

a. Road and bridge failures which deny access.

b. Access road closures imposed by road owner.

c. Excessive suspensions as provided in clause G-220.

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

G-051 Contract Term Extension - Payment

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

a. A written request for extension of the contract term must be received prior to the expiration date of the contract.

b. Completion of all required roads and compliance with all contract and regulatory requirements.

c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

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

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

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

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

e. Payment of $730.00 per acre per annum for the acres on which an operating release has not been issued in Units #1, #3, and #4. Payment of $104.00 per acre per annum for the acres on which an operating release has not been issued in Unit #2.

f. In no event will the extension charge be less than $200.00.

g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.

b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."

c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.

d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The

descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.

e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.

f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any threatened or endangered species, or the presence of their habitat, within the sale area.

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

h. Items contained in any other documents prepared for or by the State.

G-062 Habitat Conservation Plan

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

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

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

G-063 Incidental Take Permit Notification Requirements

a. Purchaser shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITP) that are discovered within the area covered by the State's Habitat Conservation Plan (HCP), including, but not limited to: locations of occupied murrelet habitat; spotted owl nest sites; wolves; grizzly bears; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies; and additional stream reaches found to contain bull trout. Purchaser is required to notify the Contract Administrator upon discovery of any fish species found in streams or bodies of water classified as non-fish bearing. In all circumstances, notification must occur within a 24 hour time period.

b. Upon locating any live, dead, injured, or sick specimens of any permit species covered by the ITP, Purchaser shall immediately notify the Contract Administrator. Purchaser shall notify the Contract Administrator if there is any doubt as to the identification of a discovered permit species. Purchaser may be required to take certain actions to help the Contract Administrator safeguard the well-being of any live, injured or sick specimens of any permit species discovered, until the proper disposition of such specimens can be determined by the Contract Administrator. Any such requirements will be explained to Purchaser by the Contract Administrator during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.

c. Purchaser shall refer to a specific ITP number, ITP TE812521-1 or ITP 1168 (copies which are located in the region office) in all correspondence and reports concerning permit activities.

d. Provisions and requirements of the ITP shall be clearly presented and explained to Purchaser by Contract Administrator during the Pre-Work Conference as per contract clause G-330. All applicable provisions of the ITP and this schedule must be presented and clearly explained by Purchaser to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Purchaser may have about the ITP should be directed to the Contract Administrator.

G-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

a. Risk

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

b. Sale Area

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

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

c. Adjustment of Price

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

G-070 Limitation on Damage

In the event of a breach of any provision of this contract by the State, the exclusive remedy available to Purchaser will be limited to a return of the initial deposit, unapplied payments, and credit for unamortized improvements made by Purchaser.

The State shall not be liable for any damages, whether direct, incidental or consequential.

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-101 Forest Products Not Designated

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

The pricing schedule has not been set for the sale.

G-111 Title and Risk of Loss

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

G-116 Sustainable Forestry Initiative® (SFI) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: BV-SFIS-US09000572.

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

G-120 Responsibility for Work

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

G-121 Exceptions

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

Road is defined as the road bed, including but not limited to its component parts, such as 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. 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.

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

Nothing contained in clauses G-120 and G-121 shall be construed as relieving Purchaser of responsibility for, or damage resulting from, Purchaser's operations or negligence, nor shall Purchaser be relieved from full responsibility for making good any defective work or materials. Authorization to haul does not warrant that Purchaser

built roads are free from material defect and the State may require additional work, at Purchasers expense regardless of cost, to remedy deficiencies at any time.

G-140 Indemnity

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

G-150 Insurance

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

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

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

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

2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

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

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

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

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

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

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

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

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

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

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

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

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

G-160 Agents

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

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

G-170 Assignment and Delegation

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

G-180 Modifications

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

G-190 Contract Complete

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

G-200 Notice

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

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

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

G-210 Violation of Contract

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

b. If the contract expires pursuant to clause G-030 or G-031 without Purchaser having performed all its duties under this contract, Purchaser's right to operate is terminated and Purchaser shall not have the right to remedy the breach. This provision shall not relieve Purchaser of any payment obligations.

c. The State has the right to remedy the breach in the absence of any indicated attempt by Purchaser or if Purchaser is unable, as determined by the State, to

remedy the breach. Any expense incurred by the State shall be charged to Purchaser and shall be paid within 30 days of receipt of billing.

d. If Purchaser's violation is a result of a failure to make a payment when due, in addition to a. and b. above, interest shall accrue on the unpaid balance at 12 percent per annum, beginning the date payment was due.

G-220 State Suspends Operation

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

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

b. The Region Manager will issue a written decision on Purchaser's request within ten business days.

c. Within ten business days of receipt of the Region Manager's decision, Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.

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

G-250 Compliance with All Laws

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

G-260 Venue

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

G-270 Equipment Left on State Land

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

G-280 Operating Release

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

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; the USFS 25, USFS 2510, 2540, 4000, 4020, and 4020 Ext. roads and Spurs 1 and 2. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330 Pre-work Conference

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

G-340 Preservation of Markers

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

G-360 Road Use Reservation

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

G-370 Blocking Roads

Purchaser shall not block the USFS 25, USFS 2510, and 4000 roads, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

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

Easement No. 55-000429 entered into between State of Washington, Department of Natural Resources and US Forest Service, Department of Agriculture, dated October 23, 1969.

Easement No. 55-000782 entered into between State of Washington, Department of Natural Resources and Hama Hama Company, dated April 5, 1972.

G-430 Open Fires

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

G-450 Encumbrances

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

To be determined approximately one month prior to the day of sale.

Section P: Payments and Securities

P-011 Initial Deposit

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in Clause P-020, the initial deposit will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of $75,660.00. The total contract price consists of a $0.00 contract bid price plus $75,660.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

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

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

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

H-011 Certification of Fallers and Yarder Operators

All persons engaged in the felling and yarding of timber must receive certification in writing 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 or skid trails is occurring.

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

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 shall be subject to liquidated damages (clause D-040 or D-041).

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 144 square inches.

b. A leave tree top is broken or the live crown ratio is reduced below 30 percent.

c. A leave tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

If the Contract Administrator determines that a leave tree has been cut or damaged, the Purchaser may be required to pay liquidated damages for Excessive Leave Tree Damage as detailed in clause D-040.

H-013 Reserve Tree Damage Definition

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

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

a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 144 square inches.

b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.

c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

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

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

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 12 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other

mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-035 Fall Trees Into Sale Area

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

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the plan of operations, prepare an acceptable harvest plan for Unit #2 WMZ thinning. The plan shall address the marking, harvesting requirements, appropriate landing locations to reduce impacts to the WMZ and wetlands, which are part(s) of this contract. The harvest plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the harvest plan without prior written approval by the Contract Administrator.

H-051 Branding and Painting

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

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using ground based equipment, with self-leveling equipment limited to sustained slopes 60 percent or less, tracked ground based equipment limited to sustained slopes 45 percent or less, and all other ground based equipment limited to sustained slopes 35 percent or less. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

a. Equipment limitation zones are required within 50 feet of the wetland edge and 30 feet of Type 5 streams.

b. Type 5 stream equipment crossings require bank and channel protection and clean out and must be pre-approved by the Contract Administrator.

c. 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.

d. Cut all vine maple within the harvest unit(s), leaving a stump no more than 12 inches in height.

e. Falling, yarding, and timber haul will not be permitted on weekends or State recognized holidays, unless approved in writing by the Contract Administrator.

f. Provide, install and maintain caution signs along the haul route at locations to be determined by the Contract Administrator.

g. Notify all employees and contractors working on this sale that any danger tree marked or unmarked may be felled. Any marked danger tree will be replaced with a suitable tree of similar size and species as approved by the Contract Administrator.

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

H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

a. Leave 2 down logs per acre within Units #1 and #3. A log is defined as having a minimum diameter of 12 inches on the small end of the log and a minimum length of 20 feet or at least 100 board feet.

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

H-190 Completion of Settings

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

H-220 Protection of Residual or Adjacent Trees

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

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 8/29/2019 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on the USFS 2510, 2540, 4000, 4020, and 4020 Ext. roads and Spurs 1 and 2. All work shall be completed to the specifications detailed in the Road Plan.

C-060 Designated Road Maintainer

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

C-080 Landing Locations Approved Prior to Construction

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

C-140 Water Bars

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

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-030 Landing Debris Clean Up

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

S-035 Logging Debris Clean Up

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

S-050 Cessation of Operations for Low Humidity

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

S-060 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

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

S-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.

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

Appropriate Department of Ecology regional office (contact information below).
DNR Contract Administrator

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

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

ECY - Central Region:
1-509-575-2490
(Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, and Yakima counties)

ECY - Eastern Region:
1-509-329-3400
(Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, and Whitman counties)

S-131 Refuse Disposal

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

shall be covered/secured such that these waste materials are properly contained during transport.

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

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

D-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 $500.00 per tree for all damaged trees in Unit #2.

D-041 Reserve Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-013, Reserve Tree Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve tree is not possible, the damaged trees result in substantial injury to the State. The value of the damaged reserve trees at the time of the breach is not readily ascertainable. Therefore, the Purchaser agrees to pay the State as liquidated damages at the rate of $1,000.00 per tree for all damaged reserve trees that are not replaced in Units #1 and #3.

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

_____	_____
Purchaser	Scott Sargent South Puget Sound Region Manager
_____ Print Name	
Date: _____	Date: _____
Address:	

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

STATE OF _____)
)
COUNTY OF _____)

On this _____ day of _____, 20___, before me personally appeared _____
_____ to me known to be the _____ of the corporation that executed the within and foregoing instrument and acknowledged said instrument to be the free and voluntary act and deed of the corporation, for the uses and purposes therein mentioned, and on oath stated that (he/she was) (they were) authorized to execute said instrument.

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

_____
Notary Public in and for the State of

_____

My appointment expires _____

Schedule A
WMZ Thinning Prescription

Unit 2 WMZ Thinning Prescription

Harvest Prescription:
The harvest is a variable density thinning of the existing stand to achieve the residual target below for basal area (BA).

Unit #	Residual Target BA (square feet)
2	140

- The residual target BA is required; the Purchaser shall remove trees to achieve this target.
- Only trees measuring from thirteen (13) to thirty-four (34) inches in DBH shall be removed, listed numbers included.
- Only live trees six (6) inches and greater in DBH shall count towards the target BA.
- The residual BA targets are an average at the unit level.
- In any given area, the residual BA shall not vary by more than 20 square feet, above or below the residual target listed above.

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

Species preference (in descending order of priority)
1) western red cedar
2) Douglas-fir
3) western hemlock
4) Bigleaf maple
5) red alder

Form preference (in descending order of priority)
1) Free of disease & major damage
2) Structurally unique trees (fork tops, butt swell, spike knots, etc.)
3) Largest diameter
4) Fullest and most vigorous crown
5) Tallest height

Certification:
The Contract Administrator will approve and certify in writing all persons engaged in selection of leave trees or felling of timber prior to cutting operations, per clause H-011.

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: South Puget Sound

Timber Sale Name: Webb

Application Number: 30-097375

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 1,682 **linear feet**
Road to be constructed (optional and required) but not abandoned

Reconstruction: 2,110 **linear feet**
Road to be reconstructed (optional and required) but not abandoned

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

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

Pre-Haul Maintenance: 30,332 **linear feet**
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: 1,770 **linear feet**
Roads to be constructed (optional and required) and then abandoned

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

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contact. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829.
(Revised 9/18)

PRE-CRUISE NARRATIVE

Sale Name: **Webb**	Region: **South Puget Sound**
Agreement #: **30-097375**	District: **Hood Canal**
Contact Forester: **Mike Davies**	Phone/ Location: **(360)-801-0682** Ext: /
Alternate Contact: **John Coble**	Phone/ Location: **(360)-801-6915** Ext: /

Type of Sale (lump sum, mbf scale, tonnage scale or contract harvest): Lump sum
Required or Optional removal of utility as pulp: Optional
Evaluated for RFRS Implementation?: Yes
Percentage cable (specify downhill vs uphill): 0
Percentage ground based: 100
Species Onsite: ☒RC, ☒DF, ☒WH, ☒RA, ☒BC, ☒BLM, ☐NF, ☐SF, ☐SS, ☐ Other:(Please List)

UNIT ACREAGES* AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description Sec/Twp/Rng	Grant	Gross Traversed Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method, dimensions and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1 VRH	Sec 2,3,10,11/ T 24N/ R 3 W	01	54.3	0	0.6	2.9	0	50.8	GPS
2 VDT	Sec 10,11/ T24N/R3W	01	3.5	3.5	0	0	0	3.5	GPS
3 VRH	Sec 11/ T24N/ R3 W	07	23.1	0	0.3	0	0	22.8	GPS
4 R/W	Sec 11/ T24N/ R3 W	07	0.3	0.3	0	0	0	0.3	GPS
TOTAL ACRES			81.2	3.8	0.6	2.9	0	77.4	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Mark leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	VRH with blue painted trees and yellow tagged clumps		412
2	VDT by prescription	WMZ thinning	Leave 140 BA
3	VRH with blue painted trees and yellow tagged clumps		185
4	R/W		RMZ R/W

OTHER PRE-CRUISE INFORMATION:

Unit #	Estimated Volume	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	See Cruise	Gate #16 at 2510/2540 intersection. A383 lock.	See attached map.
2		None	See attached map.
3		Gate #29 at 25/4000 intersection. A383 lock.	See attached map.
4		Gate #29 at 25/4000 intersection. A383 lock.	See attached map.

REMARKS:

Leave trees in Units 1 and 3 are mostly blue painted scattered and clumped to protect Type 5 streams and wildlife trees. A few yellow tagged leave tree areas were used to protect sensitive sites. Higher than usual defect in DF.

Prepared By: Mike Davies Date: 8/29/19	Title: NRS2	CC:

Revised 2/23/2007 (PSLD)

Cruise Narrative

Sale Name: Webb	**Region: South Puget Sound**
App. #: 30-097375	**District: Hood Canal**
Lead Cruiser: Aaron Coleman	**Completion Date: 12/13/2019**
Other Cruisers: n/a	

Unit acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
VRH U1	50.8	Yes	
VDT U2	3.5	Yes	
VRH U3	22.8	Yes	
R/W U4	0.3	Yes	
Total	**77.4**	**Yes**	

Unit cruise specifications:

Unit #	Sample type (VP, FP, ITS,100%)	Expansion factor (BAF, full/half)	Sighting height (4.5 ft, 16 ft.)	Grid size (Plot spacing or % of area)	Plot ratio (Cru/Tally)	Total number of plots
VRH U1	VP	54.44 – Majors 33.61 – Minors	4.5 ft	198' x 198'	2:1	56
VDT U2	VP	33.61 – ALL	4.5 ft	198' x 198'	Cruise All	5
VRH U3	VP	54.44 – Majors 33.61 – Minors	4.5 ft	198' x 198'	2:1	25
R/W U4	VP	33.61 – ALL	4.5 ft	n/a	Cruise All	1
						87

Sale/Cruise Description:

Minor species cruise intensity:	Cruised on appropriate plots.					
Minimum cruise spec:	40% of Form-Factor at 16 feet D.O.B or 5 inch Top, and merchantable top.					
Avg. ring count by sp:	**DF =**	7	**WH =**	8		
Leave/take tree description:	VRH units contain leave tree areas bound with yellow "Leave Tree Area" tags and pink flashers/flagging, as well as a single band of blue paint on individual leave trees. VDT unit 2 is to be thinned following Schedule A.					
Status description:	**P** – Logs classified as pole volume.* **L** - Logs classified as leave volume.					
Sort Description:	**HA** - Logs meeting the following criteria: Surface characteristics for a high quality A sort will have sound tight knots not to exceed 1 1/2" in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots and knot indicators 1/2" in diameter and smaller shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log. (High Quality sort. Grades SM, 2S, 3S. Lengths 16ft-40ft, 2ft multiples min TDIB 8".) **HB -** Logs meeting the following criteria: Surface characteristics for an Intermediate B sort will have sound tight knots not to exceed 11/2" in diameter. May include logs with not more than two larger knots up to 2 1/2" in					

	diameter. Logs will have a growth ring count of 6 or more rings per inch in the outer third to end of the log. (Intermediate sort. Grades 2S, 3S. Lengths 16ft-40ft, 2ft multiples min TDIB 8".) **D** - Domestic quality logs that do not meet high quality or intermediate definitions. (Domestic sort. Grades 2S, 3S, 4S and utility. Lengths 16ft-40ft, min TDIB 5".) **R** - Logs meeting the following criteria: Surface characteristics for a rough log sort will not meet the requirements for a domestic 2S, but still be in limitations for a domestic 3S. Meaning logs will contain excessive knots in excess of 2 1/2" and not exceeding 3" with a recovery of less than 65% of the net scale and greater that 33% of the gross scale. (Rough oversize sort. Grade 3S. Lengths 16ft-40ft, 2ft multiples TDIB 12"+)

Field observations:

This sale consists of 2 variable retention harvest (VRH) units, 1 right-of-way (R/W) unit, and 1 variable density thinning (VDT) unit off forest road 25 (Hamma Hamma rd) in the Hood Canal State Forest.

The primary species breakdown for this sale is as follows:
Douglas-fir (DF): **71%**
Western Hemlock (WH): **17%**
Western red cedar (RC): **7%**
Red alder (RA): **2%**

***Although pole volume is included, a specific pole cruise was not done on this sale. Pole volume was captured on the same VP plots as the saw log volume.**

The DF throughout this sale averages 21" diameter with 96' bole height, the WH averages 16" diameter with 82' bole height and the RC averages 16" diameter with 66' bole height.

This is shovel ground, with some rocky, hummocky, and wet ground observed. Common defect consisted of broken/forked tops, spike knots and root rot.

All roads to this sale are in good condition and there are good access points into all units. A 383 key is needed to access the units through gates #16 and #29.

Grant(s):01, 07 **Prepared by: Aaron Coleman** **Title: Forest Check Cruiser**

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T24N R03W S02 Ty00U1
THRU
T24N R03W S02 Ty00U4

Project: **WEBB**

Acres **77.40**

Page **1**
Date **12/13/2019**
Time **3:12:01PM**

Spp	S T	So Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU CU		100.0	17											4	8		0.00	9.7
DF		HB 2S			120	120	9			100					100	40	13	240	1.45	.5
DF		HB 3S	2	3.4	628	607	47		100					7	93	38	10	142	0.93	4.3
DF		D 2S	73	5.3	20,555	19,472	1,507			33	67		1	1	98	40	16	385	2.17	50.6
DF		D 3S	19	1.8	5,203	5,112	396	4	96				5	8	87	37	9	115	0.81	44.6
DF		D 4S	5	.3	1,373	1,368	106	96	4			11	56	9	23	27	6	34	0.35	40.7
DF		D UT	1		42	42	3	44	56			44			56	24	6	36	0.41	1.2
DF	**Totals**		69	4.4	27,939	26,721	2,068	6	21	24	49	1	4	3	92	33	10	176	1.25	151.5
DF	L	CU CU		100.0	10											12	7		0.00	.6
DF	L	D 2S	70	5.7	508	479	37			25	75				100	40	16	446	2.45	1.1
DF	L	D 3S	16	2.0	116	114	9	20	80				3		97	38	8	87	0.68	1.3
DF	L	D 4S	14		91	91	7	100				12	35	27	27	29	5	29	0.26	3.1
DF	**Totals**		2	5.6	725	684	53	17	13	17	53	2	5	4	90	31	8	112	0.86	6.1
DF	P	HB 2S	34	.0	220	220	17			100					100	40	13	225	1.41	1.0
DF	P	HB 3S	30	2.7	196	190	15		100						100	39	9	102	0.66	1.9
DF	P	D 2S	21	2.5	142	138	11			100					100	38	13	221	1.48	.6
DF	P	D 3S	6		40	40	3		100						100	40	10	150	0.81	.3
DF	P	D 4S	9		51	51	4	100				48	52			22	5	24	0.29	2.1
DF	**Totals**		2	1.4	649	640	50	8	36	56		4	4		92	33	9	109	0.83	5.9
RA		CU CU														5	8		0.00	1.3
RA		D 2S	13	7.7	143	132	10			100			29	24	48	33	12	171	1.75	.8
RA		D 3S	31	9.8	332	299	23		83	17		17	25	15	43	31	11	114	1.18	2.6
RA		D 4S	53	7.3	544	504	39	57	43			6	52	14	28	30	6	44	0.51	11.5
RA		D UT	3		26	26	2	42	58				42	58		27	6	35	0.43	.7
RA	**Totals**		2	8.0	1,044	961	74	31	50	19		9	40	17	35	28	7	57	0.68	17.0
RC		CU CU		100.0	51											6	6		0.00	10.3
RC		D 3S	72	15.2	1,985	1,684	130	2	39	27	32		18		82	34	11	151	1.51	11.2
RC		D 4S	28	3.8	659	634	49	76	24			6	38	9	47	29	6	38	0.46	16.6
RC	**Totals**		6	14.0	2,696	2,318	179	22	35	19	24	2	24	3	72	24	7	61	0.86	38.1
RC	P	CU CU														6	6		0.00	.6
RC	P	D 3S	98	10.9	261	233	18	9	10	50	31		6		94	36	11	156	1.40	1.5
RC	P	D 4S	2		4	4	0	100					100			24	7	40	0.53	.1
RC	**Totals**		1	10.7	265	237	18	11	10	49	30		8		92	27	9	106	1.27	2.2
RC	L	CU CU														4	10		0.00	.3
RC	L	D 3S	76	25.5	101	75	6		43		57				100	36	13	201	2.00	.4
RC	L	D 4S	24		24	24	2	100							100	39	5	40	0.45	.6
RC	**Totals**		0	20.7	124	99	8	24	33		43				100	30	9	78	0.98	1.3
WH		CU CU		100.0	7											4	5		0.00	7.9
WH		D 2S	57	6.4	4,077	3,815	295			63	37				100	39	14	281	1.76	13.6
WH		D 3S	29	3.4	1,995	1,927	149	8	92				10	9	80	36	9	110	0.80	17.5
WH		D 4S	13		883	883	68	92	8			11	36	19	34	29	6	35	0.35	25.3
WH		D UT	1		27	27	2	100				43	57			22	6	25	0.30	1.1

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T24N R03W S02 Ty00U1
THRU
T24N R03W S02 Ty00U4

Project: **WEBB**
Acres **77.40**

Page **2**
Date **12/13/2019**
Time **3:12:01PM**

Spp	S T	So Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
WH Totals			17	4.8	6,990	6,653	515	15	28	36	21	2	8	5	85	30	8	102	0.87	65.3
WH	L	D 2S	34		38	38	3			100					100	40	13	240	1.45	.2
WH	L	D 3S	15		16	16	1		100						100	36	9	100	0.68	.2
WH	L	D 4S	51		56	56	4	37	63				100			25	6	32	0.37	1.7
WH Totals			0		110	110	9	19	47	35			51		49	27	7	53	0.52	2.1
BM		D 4S	100	24.0	30	23	2	100						100		33	7	46	0.95	.5
BM Totals			0	24.0	30	23	2	100						100		33	7	46	0.95	.5
CW		D UT	100	.0	49	49	4		100			18			82	29	10	110	1.08	.4
CW Totals			0	.0	49	49	4		100			18			82	29	10	110	1.08	.4
Totals				5.2	40,623	38,495	2,980	9	24	26	40	1	7	4	88	31	9	133	1.07	290.3

The total take volume is as follows:

Douglas-fir (DF):	**2118**
Western Hemlock (WH):	**515**
Western red cedar (RC):	**197**
Red alder (RA):	**74**
Bigleaf maple (BM):	**2**
Cottonwood (CW):	**4**
Total:	**2910 MBF**

TC PSTATS

PROJECT STATISTICS

PROJECT WEBB

DATE 12/13/2019

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
24N	03	02	WEBB	00U1	THR	77.40	87	425	S	W
24N	03W	02	WEBB	00U4						

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	87	425	4.9		
CRUISE	63	306	4.9	9,299	3.3
DBH COUNT					
REFOREST					
COUNT	23	102	4.4		
BLANKS	1				
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	147	55.9	21.3	96	30.0	138.3	27,939	26,721	6,263	6,259
DOUG FIR-L	14	3.8	14.4	71	1.1	4.3	725	684	164	162
DOUG FIR-P	6	2.1	18.2	94	0.9	3.8	649	640	161	161
WHEMLOCK	51	27.7	16.7	82	10.3	42.0	6,990	6,653	1,695	1,693
WHEMLOCK-L	3	1.0	13.2	77	0.3	.9	110	110	30	30
R ALDER	28	9.5	14.8	53	2.9	11.3	1,044	961	326	326
WR CEDAR	45	18.0	16.4	66	6.5	26.3	2,696	2,318	815	804
WR CEDAR-L	4	.7	17.7	70	0.3	1.2	124	99	37	37
WR CEDAR-P	5	.7	22.0	84	0.4	2.0	265	237	75	75
BL MAPLE	2	.5	16.9	34	0.2	.8	30	23	16	16
COTWOOD	1	.2	18.0	60	0.1	.4	49	49	14	14
TOTAL	*306*	*120.1*	*18.8*	*83*	*53.4*	*231.4*	*40,623*	*38,495*	*9,597*	*9,577*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	56.3	4.7	670	703	736			
DOUG FIR-L	117.3	32.5	481	713	944			
DOUG FIR-P	33.0	14.7	276	323	371			
WHEMLOCK	61.9	8.8	348	382	415			
WHEMLOCK-L	105.7	73.1	45	167	289			
R ALDER	52.3	10.1	112	125	137			
WR CEDAR	95.8	14.4	214	250	286			
WR CEDAR-L	74.4	42.5	167	290	413			
WR CEDAR-P	43.7	21.7	280	358	436			
BL MAPLE	15.7	14.7	38	45	52			
COTWOOD								
TOTAL	*83.6*	*4.8*	*476*	*500*	*524*	*279*	*143*	*70*

CL 68.1 SD: 1.0	COEFF VAR.%	S.E.%	SAMPLE TREES - CF LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	51.0	4.2	154	161	168			
DOUG FIR-L	110.7	30.7	109	158	206			
DOUG FIR-P	29.8	13.3	70	81	92			
WHEMLOCK	55.1	7.8	87	94	102			
WHEMLOCK-L	94.5	65.4	15	43	70			
R ALDER	61.3	11.8	38	44	49			
WR CEDAR	89.0	13.4	75	87	98			
WR CEDAR-L	72.2	41.3	63	107	152			
WR CEDAR-P	38.4	19.1	91	112	134			
BL MAPLE	22.1	20.7	25	32	39			
COTWOOD								
TOTAL	*72.3*	*4.2*	*117*	*122*	*128*	*208*	*106*	*52*

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
24N	03	02	WEBB	00U1	THR	77.40	87	425	S	W
24N	03W	02	WEBB	00U4						

CL 68.1 COEFF **TREES/ACRE** # OF PLOTS REQ. INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	84.5	9.0	51	56	61			
DOUG FIR-L	560.5	60.0	2	4	6			
DOUG FIR-P	426.0	45.6	1	2	3			
WHEMLOCK	174.7	18.7	23	28	33			
WHEMLOCK-L	662.8	71.0	0	1	2			
R ALDER	268.5	28.8	7	9	12			
WR CEDAR	184.5	19.8	14	18	22			
WR CEDAR-L	643.3	68.9	0	1	1			
WR CEDAR-P	824.0	88.3	0	1	1			
BL MAPLE	660.3	70.7	0	1	1			
COTWOOD	932.7	99.9	0	0	0			
TOTAL	*50.5*	*5.4*	*114*	*120*	*127*	*102*	*52*	*25*

CL 68.1 COEFF **BASAL AREA/ACRE** # OF PLOTS REQ. INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	69.6	7.5	128	138	149			
DOUG FIR-L	491.3	52.6	2	4	6			
DOUG FIR-P	430.6	46.1	2	4	6			
WHEMLOCK	146.8	15.7	35	42	49			
WHEMLOCK-L	692.0	74.1	0	1	2			
R ALDER	259.7	27.8	8	11	14			
WR CEDAR	161.0	17.2	22	26	31			
WR CEDAR-L	565.6	60.6	0	1	2			
WR CEDAR-P	767.0	82.2	0	2	4			
BL MAPLE	655.7	70.2	0	1	1			
COTWOOD	932.7	99.9	0	0	1			
TOTAL	*36.5*	*3.9*	*222*	*231*	*240*	*53*	*27*	*13*

CL 68.1 COEFF **NET BF/ACRE** # OF PLOTS REQ. INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	69.5	7.4	24,731	26,721	28,712			
DOUG FIR-L	469.6	50.3	340	684	1,028			
DOUG FIR-P	440.3	47.2	338	640	942			
WHEMLOCK	153.0	16.4	5,563	6,653	7,743			
WHEMLOCK-L	752.9	80.7	21	110	200			
R ALDER	250.4	26.8	703	961	1,219			
WR CEDAR	183.8	19.7	1,862	2,318	2,774			
WR CEDAR-L	559.9	60.0	40	99	158			
WR CEDAR-P	757.7	81.2	45	237	429			
BL MAPLE	672.5	72.0	6	23	40			
COTWOOD	932.7	99.9	0	49	98			
TOTAL	*44.0*	*4.7*	*36,680*	*38,495*	*40,311*	*77*	*40*	*19*

CL 68.1 COEFF **NET CUFT FT/ACRE** # OF PLOTS REQ. INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	69.4	7.4	5,793	6,259	6,724			
DOUG FIR-L	475.9	51.0	80	162	245			
DOUG FIR-P	439.0	47.0	85	161	237			
WHEMLOCK	149.8	16.0	1,421	1,693	1,964			
WHEMLOCK-L	741.5	79.4	6	30	53			
R ALDER	256.6	27.5	237	326	416			
WR CEDAR	172.3	18.5	656	804	952			
WR CEDAR-L	556.5	59.6	15	37	59			
WR CEDAR-P	766.7	82.1	13	75	137			
BL MAPLE	656.2	70.3	5	16	27			
COTWOOD	932.7	99.9	0	14	28			
TOTAL	*40.6*	*4.3*	*9,161*	*9,577*	*9,993*	*66*	*34*	*16*

CL 68.1 COEFF **V_BAR/ACRE** # OF PLOTS REQ. INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
24N	03	02	WEBB	00U1	THR	77.40	87	425	S	W
24N	03W	02	WEBB	00U4						

DOUG FIR			179	193	208	
DOUG FIR-L	469.6	50.3	80	161	242	
DOUG FIR-P	440.3	47.2	88	167	246	
WHEMLOCK	106.5	11.4	132	158	184	
WHEMLOCK-L	752.9	80.7	23	121	219	
R ALDER	239.2	25.6	62	85	108	
WR CEDAR	149.1	16.0	71	88	105	
WR CEDAR-L	559.9	60.0	32	81	130	
WR CEDAR-P	757.7	81.2	23	120	218	
BL MAPLE	672.5	72.0	8	29	50	
COTWOOD	932.7	99.9	0	124	249	
TOTAL	*40.6*	*4.3*	*159*	*166*	*174*	*66* *34* *16*

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

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T24N R03W S02 T00U1

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
24N	03W	02	WEBB	00U1	50.80	56	187	S	W

T24N R03W S02 T00U1

Spp	ST	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU	CU		100.0	10											1	9		0.00	5.8
DF		HB	2S			183	183	9			100					100	40	13	240	1.45	.8
DF		HB	3S	1		161	161	8		100						100	40	10	150	0.89	1.1
DF		DM	2S	77	4.9	20,086	19,108	971			29	71		0		100	40	16	404	2.24	47.3
DF		DM	3S	17	1.3	4,476	4,417	224	6	94				7	10	83	37	9	112	0.80	39.4
DF		DM	4S	4	.7	1,047	1,040	53	93	7			9	71	10	10	26	6	32	0.34	32.6
DF		DM	UT	1		28	28	1	100				100				20	5	20	0.24	1.4
DF Totals				64	4.1	25,991	24,938	1,267	5	18	23	54	0	4	2	93	33	11	194	1.35	128.3
DF	P	HB	2S	38	.0	335	335	17			100					100	40	13	225	1.41	1.5
DF	P	HB	3S	24		202	202	10		100						100	39	8	99	0.62	2.0
DF	P	DM	2S	24	2.5	216	211	11			100					100	38	13	221	1.48	1.0
DF	P	DM	3S	7		61	61	3		100						100	40	10	150	0.81	.4
DF	P	DM	4S	7		54	54	3	100				70	30			20	6	22	0.30	2.4
DF P Totals				2	.6	869	864	44	6	30	63		4	2		94	33	9	118	0.89	7.3
WH		CU	CU														3	5		0.00	10.3
WH		DM	2S	61	6.8	5,651	5,267	268			63	37				100	39	14	280	1.76	18.8
WH		DM	3S	26	3.2	2,378	2,303	117	10	90				13	12	75	36	9	105	0.77	22.0
WH		DM	4S	12		1,027	1,027	52	93	7			12	40	17	32	28	6	33	0.34	30.8
WH		DM	UT	1		13	13	1	100				100				20	6	20	0.32	.7
WH Totals				22	5.1	9,069	8,610	437	14	25	38	23	2	8	5	85	29	8	104	0.90	82.5
RC		CU	CU		100.0	78											6	6		0.00	13.9
RC		DM	3S	72	15.3	2,887	2,445	124		39	27	34		19		81	34	11	157	1.57	15.6
RC		DM	4S	28	3.8	944	908	46	74	26			6	40	9	44	29	6	38	0.46	23.9
RC Totals				9	14.2	3,909	3,353	170	20	36	19	25	2	25	3	71	25	7	63	0.88	53.5
RC	P	CU	CU														6	6		0.00	1.0
RC	P	DM	3S	98	10.9	398	354	18	9	10	50	31		6		94	36	11	156	1.40	2.3
RC	P	DM	4S	2		7	7	0	100					100			24	7	40	0.53	.2
RC P Totals				1	10.7	404	361	18	11	10	49	30		8		92	27	9	106	1.27	3.4
RA		CU	CU														9	5		0.00	.3
RA		DM	2S	10	14.7	95	81	4			100				59	41	34	13	165	1.90	.5
RA		DM	3S	21	13.9	176	152	8		48	52		25	75			28	11	92	1.12	1.6
RA		DM	4S	65	7.9	519	478	24	58	42			9	79	6	6	28	6	40	0.47	12.0
RA		DM	UT	4		27	27	1	17	83				17	83		31	7	51	0.58	.5
RA Totals				2	9.7	817	738	37	38	40	22		11	67	13	9	28	7	49	0.60	15.0
CW		DM	UT	100	.0	75	75	4		100			18			82	29	10	110	1.08	.7
CW Totals				0	.0	75	75	4		100			18			82	29	10	110	1.08	.7

T24N R03W S02 T00U1

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
24N	03W	02	WEBB	00U1	50.80	56	187	S	W

T24N R03W S02 T00U1

Spp	ST	Sort Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
Type Totals				5.3	41,134	38,937	1,978	9	22	27	42	1	8	3	88	30	9	134	1.10	290.7

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

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T24N R03W S02 T00U2

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
24N	03W	02	WEBB	00U2	3.50	5	38	S	W

T24N R03W S02 T00U2

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	L	CU	CU		100.0	213											12	7		0.00	13.4
DF	L	DM	2S	70	5.7	11,226	10,587	37			25	75				100	40	16	446	2.45	23.7
DF	L	DM	3S	16	2.0	2,574	2,522	9	20	80				3		97	38	8	87	0.68	29.1
DF	L	DM	4S	14		2,017	2,017	7	100				12	35	27	27	29	5	29	0.26	68.4
DF L Totals				38	5.6	16,030	15,127	53	17	13	17	53	2	5	4	90	31	8	112	0.86	134.6
DF		CU	CU															6		0.00	4.3
DF		DM	2S	70	4.2	8,986	8,608	30			20	80		6		94	39	16	390	2.21	22.1
DF		DM	3S	24		2,935	2,935	10	5	95					8	92	39	10	142	0.91	20.6
DF		DM	4S	6		702	702	2	100				8	55		36	27	6	39	0.41	18.0
DF Totals				30	3.0	12,624	12,245	43	7	23	14	56	0	7	2	90	33	11	188	1.32	65.0
WH		DM	2S	80	2.7	6,445	6,270	22			56	44				100	40	14	298	1.78	21.1
WH		DM	3S	15		1,139	1,139	4		100				7		93	35	9	93	0.66	12.2
WH		DM	4S	4		274	274	1	53	47			72	28			20	6	25	0.38	10.9
WH		DM	UT	1		67	67	0	100				100				17	6	20	0.32	3.3
WH Totals				19	2.2	7,926	7,750	27	3	16	45	36	3	2		95	32	10	163	1.22	47.5
WH	L	DM	2S	34		846	846	3			100					100	40	13	240	1.45	3.5
WH	L	DM	3S	15		352	352	1		100						100	36	9	100	0.68	3.5
WH	L	DM	4S	51		1,245	1,245	4	37	63				100			25	6	32	0.37	38.6
WH L Totals				6		2,443	2,443	9	19	47	35			51		49	27	7	53	0.52	45.7
RC	L	CU	CU														4	10		0.00	6.5
RC	L	DM	3S	76	25.5	2,228	1,659	6		43		57				100	36	13	201	2.00	8.3
RC	L	DM	4S	24		523	523	2	100							100	39	5	40	0.45	13.1
RC L Totals				5	20.7	2,752	2,183	8	24	33		43				100	30	9	78	0.98	27.8
RC		CU	CU															6		0.00	3.1
RC		DM	3S	100	20.8	739	585	2	26		74					100	36	9	95	1.04	6.2
RC Totals				1	20.8	739	585	2	26		74					100	24	8	63	1.04	9.2
Type Totals					5.1	42,514	40,333	141	12	20	23	46	1	8	2	89	31	9	122	0.98	329.9

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

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T24N R03W S02 T00U3

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
24N	03W	02	WEBB	00U3	22.80	25	76	S	W

T24N R03W S02 T00U3

Spp	ST	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CU	CU		100.0	37											5	8		0.00	19.2
DF		HB	3S	5	4.1	1,774	1,701	39		100					9	91	37	10	140	0.94	12.1
DF		DM	2S	66	6.1	23,544	22,105	504			41	59		1	4	95	39	15	351	2.06	63.0
DF		DM	3S	22	2.5	7,234	7,056	161	1	99				2	5	93	38	9	117	0.81	60.6
DF		DM	4S	6		2,162	2,162	49	98	2			12	41	9	38	28	6	36	0.36	60.1
DF		DM	UT	1		80	80	2		100						100	39	8	90	0.71	.9
DF Totals				88	5.0	34,831	33,104	755	7	27	27	39	1	4	5	91	33	10	153	1.13	215.8
DF	P	HB	3S	78	8.3	213	195	4		100						100	40	9	110	0.76	1.8
DF	P	DM	4S	22		53	53	1	100					100			29	5	30	0.29	1.8
DF P Totals				1	6.7	266	248	6	21	79				21		79	35	7	70	0.56	3.5
WH		CU	CU		100.0	24											11	5		0.00	3.7
WH		DM	2S	11	3.4	263	253	6			100					100	40	14	280	1.74	.9
WH		DM	3S	56	4.9	1,299	1,236	28		100						100	40	10	144	0.97	8.6
WH		DM	4S	30		669	669	15	90	10			3	22	29	45	32	6	43	0.39	15.5
WH		DM	UT	3		53	53	1	100					100			26	5	30	0.29	1.8
WH Totals				6	4.2	2,307	2,211	50	30	59	11		1	9	9	81	31	7	72	0.63	30.5
RA		CU	CU														4	9		0.00	3.2
RA		DM	2S	17	2.2	274	268	6			100			48		52	33	12	176	1.63	1.5
RA		DM	3S	41	7.7	691	638	15		100			14		24	62	33	11	129	1.22	5.0
RA		DM	4S	40	6.1	655	615	14	57	43				7	29	64	35	6	53	0.58	11.6
RA		DM	UT	2		26	26	1	100					100			23	5	20	0.24	1.3
RA Totals				4	6.0	1,647	1,548	35	24	58	17		6	13	21	60	30	8	68	0.79	22.6
RC		CU	CU														5	7		0.00	3.6
RC		DM	3S	57	7.8	194	179	4	49	51						100	36	8	81	0.82	2.2
RC		DM	4S	43	3.2	135	131	3	100					12	10	79	32	6	45	0.54	2.9
RC Totals				1	5.9	329	310	7	71	29				5	4	91	22	7	36	0.60	8.7
BM		DM	4S	100	24.0	103	79	2	100						100		33	7	46	0.95	1.7
BM Totals				0	24.0	103	79	2	100						100		33	7	46	0.95	1.7
Type Totals					5.0	39,484	37,500	855	9	30	26	35	1	5	6	89	32	9	133	1.03	283.0

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

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T24N R03W S02 T00U4

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
24N	03W	02	WEBB	00U4	.30	1	5	S	W

T24N R03W S02 T00U4

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 5-7	8-11	12-15	16+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		DM	2S	60	1.9	7,767	7,620	2			33	67				100	40	18	520	2.54	14.7
DF		DM	3S	5		513	513	0		100					100		31	9	70	0.83	7.3
DF		DM	4S	35		4,364	4,364	1	100				58	42			21	5	23	0.22	187.4
DF	**Totals**			70	1.2	12,644	12,497	4	35	4	20	41	20	15	4	61	23	6	60	0.54	209.4
RA		CU	CU														2	8		0.00	45.4
RA		DM	3S	55	6.7	3,198	2,985	1		100						100	40	10	140	1.06	21.3
RA		DM	4S	45	9.3	2,593	2,352	1	18	82			18			82	29	7	52	0.72	45.4
RA	**Totals**			30	7.8	5,791	5,337	2	8	92			8			92	20	8	48	0.81	112.1
Type Totals					3.3	18,435	17,835	5	27	30	14	29	16	10	3	70	22	7	55	0.63	321.5

TC TSTATS

STATISTICS

PROJECT WEBB

DATE 12/13/2019

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
24N	**03W**	**02**	**WEBB**	**00U1**	50.80	56	272	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	56	272	4.9		
CRUISE	39	187	4.8	6,113	3.1
DBH COUNT					
REFOREST					
COUNT	16	77	4.8		
BLANKS	1				
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	83	47.7	21.9	97	26.6	124.4	25,991	24,938	5,750	5,747
DOUG FIR-P	5	2.4	19.1	101	1.1	4.9	869	864	215	215
WHEMLOCK	37	34.0	17.0	83	13.0	53.5	9,069	8,610	2,181	2,180
WR CEDAR	40	25.3	16.4	66	9.2	37.2	3,909	3,353	1,174	1,157
WR CEDAR-P	5	1.1	22.0	84	0.6	3.0	404	361	115	115
R ALDER	16	9.5	13.6	46	2.6	9.6	817	738	249	249
COTWOOD	1	.3	18.0	60	0.1	.6	75	75	21	21
TOTAL	*187*	*120.3*	*18.8*	*82*	*53.7*	*233.2*	*41,134*	*38,937*	*9,704*	*9,683*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL: 68.1 % COEFF — **SAMPLE TREES - BF** — # OF TREES REQ. — INF. POP.

SD: 1.0 VAR.% S.E.% LOW AVG HIGH 5 7 10

	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	52.1	5.8	745	791	836			
DOUG FIR-P	17.9	8.9	328	360	392			
WHEMLOCK	57.3	9.5	356	393	431			
WR CEDAR	91.5	14.6	230	269	309			
WR CEDAR-P	43.7	21.7	280	358	436			
R ALDER	59.6	15.4	87	103	118			
COTWOOD								
TOTAL	*78.8*	*5.8*	*485*	*514*	*544*	*248*	*127*	*62*

CL: 68.1 % COEFF — **SAMPLE TREES - CF** — # OF TREES REQ. — INF. POP.

SD: 1.0 VAR.% S.E.% LOW AVG HIGH 5 7 10

	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	47.2	5.2	169	179	188			
DOUG FIR-P	15.5	7.7	82	89	96			
WHEMLOCK	50.6	8.4	89	97	105			
WR CEDAR	86.0	13.8	80	93	106			
WR CEDAR-P	38.4	19.1	91	112	134			
R ALDER	81.9	21.1	29	37	45			
COTWOOD								
TOTAL	*67.9*	*5.0*	*121*	*127*	*133*	*184*	*94*	*46*

CL: 68.1 % COEFF — **TREES/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0 VAR.% S.E.% LOW AVG HIGH 5 7 10

	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR	98.7	13.2	41	48	54			
DOUG FIR-P	384.0	51.3	1	2	4			
WHEMLOCK	158.5	21.2	27	34	41			
WR CEDAR	149.8	20.0	20	25	30			
WR CEDAR-P	660.4	88.2	0	1	2			
R ALDER	295.7	39.5	6	9	13			
COTWOOD	748.3	99.9	0	0	1			
TOTAL	*50.9*	*6.8*	*112*	*120*	*129*	*103*	*53*	*26*

STATISTICS

PROJECT WEBB

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
24N	03W	02	WEBB	00U1	50.80	56	272	S	W

CL: 68.1 % COEFF VAR. S.E.% — **BASAL AREA/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0 — LOW AVG HIGH — 5 7 10

CL: 68.1 % COEFF VAR.% S.E.% — **BASAL AREA/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0 — LOW AVG HIGH — 5 7 10

DOUG FIR	76.3	10.2	112	124	137			
DOUG FIR-P	386.6	51.6	2	5	7			
WHEMLOCK	129.5	17.3	44	53	63			
WR CEDAR	127.4	17.0	31	37	44			
WR CEDAR-P	614.4	82.0	1	3	5			
R ALDER	303.8	40.6	6	10	13			
COTWOOD	748.3	99.9	0	1	1			
TOTAL	*38.2*	*5.1*	*221*	*233*	*245*	*58*	*30*	*15*

CL: 68.1 % COEFF — **NET BF/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0 VAR.% S.E.% LOW AVG HIGH — 5 7 10

DOUG FIR	75.8	10.1	22,412	24,938	27,463			
DOUG FIR-P	385.7	51.5	419	864	1,308			
WHEMLOCK	133.8	17.9	7,071	8,610	10,149			
WR CEDAR	144.9	19.3	2,704	3,353	4,001			
WR CEDAR-P	606.9	81.0	68	361	653			
R ALDER	284.7	38.0	457	738	1,018			
COTWOOD	748.3	99.9	0	75	149			
TOTAL	*46.2*	*6.2*	*36,537*	*38,937*	*41,338*	*85*	*43*	*21*

CL: 68.1 % COEFF — **NET CUFT FT/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0 VAR.% S.E.% LOW AVG HIGH — 5 7 10

DOUG FIR	75.7	10.1	5,166	5,747	6,328			
DOUG FIR-P	387.2	51.7	104	215	325			
WHEMLOCK	131.2	17.5	1,798	2,180	2,562			
WR CEDAR	135.3	18.1	948	1,157	1,366			
WR CEDAR-P	614.1	82.0	21	115	209			
R ALDER	298.8	39.9	150	249	348			
COTWOOD	748.3	99.9	0	21	42			
TOTAL	*42.5*	*5.7*	*9,133*	*9,683*	*10,233*	*72*	*37*	*18*

CL: 68.1 % COEFF — **V-BAR/ACRE** — # OF PLOTS REQ. — INF. POP.

SD: 1.0 VAR.% S.E.% LOW AVG HIGH — 5 7 10

DOUG FIR	14.8	2.0	180	200	221			
DOUG FIR-P	385.7	51.5	86	178	269			
WHEMLOCK	83.6	11.2	132	161	190			
WR CEDAR	112.7	15.0	73	90	108			
WR CEDAR-P	606.9	81.0	23	120	218			
R ALDER	284.7	38.0	48	77	106			
COTWOOD	748.3	99.9	0	124	249			
TOTAL	*126.3*	*16.9*	*157*	*167*	*177*	*637*	*325*	*159*

STATISTICS

PROJECT WEBB

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
24N	03W	02	WEBB	00U2	3.50	5	38	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	5	38	7.6		
CRUISE	5	38	7.6	571	6.7
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	10	23.9	22.7	94	14.1	67.2	12,624	12,245	2,856	2,856
DOUG FIR-L	14	83.4	14.4	71	24.8	94.1	16,030	15,127	3,634	3,592
WHEMLOCK	6	15.8	21.6	100	8.7	40.3	7,926	7,750	1,877	1,877
WHEMLOCK-L	3	21.1	13.2	77	5.5	20.2	2,443	2,443	653	653
WR CEDAR	1	3.1	20.0	77	1.5	6.7	739	585	231	231
WR CEDAR-L	4	15.7	17.7	70	6.4	26.9	2,752	2,183	826	822
TOTAL	*38*	*163.0*	*16.9*	*78*	*62.0*	*255.4*	*42,514*	*40,333*	*10,077*	*10,031*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

SAMPLE TREES - BF

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	45.8	16.1	598	713	829			
DOUG FIR-L	117.3	32.5	481	713	944			
WHEMLOCK	46.2	20.5	453	570	687			
WHEMLOCK-L	105.7	73.1	45	167	289			
WR CEDAR								
WR CEDAR-L	74.4	42.5	167	290	413			
TOTAL	*98.1*	*16.1*	*491*	*586*	*680*	*385*	*196*	*96*

SAMPLE TREES - CF

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	39.3	13.9	142	165	187			
DOUG FIR-L	110.7	30.7	109	158	206			
WHEMLOCK	41.6	18.5	111	136	161			
WHEMLOCK-L	94.5	65.4	15	43	70			
WR CEDAR								
WR CEDAR-L	72.2	41.3	63	107	152			
TOTAL	*86.1*	*14.1*	*119*	*139*	*159*	*296*	*151*	*74*

TREES/ACRE

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	88.3	43.9	13	24	34			
DOUG FIR-L	102.6	51.0	41	83	126			
WHEMLOCK	115.2	57.2	7	16	25			
WHEMLOCK-L	139.3	69.2	6	21	36			
WR CEDAR	223.6	111.1		3	7			
WR CEDAR-L	132.7	65.9	5	16	26			
TOTAL	*81.0*	*40.2*	*97*	*163*	*229*	*324*	*165*	*81*

BASAL AREA/ACRE

CL: 68.1 % SD: 1.0

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	70.7	35.1	44	67	91			
DOUG FIR-L	73.2	36.4	60	94	128			
WHEMLOCK	108.7	54.0	19	40	62			
WHEMLOCK-L	149.1	74.1	5	20	35			
WR CEDAR	223.6	111.1		7	14			

STATISTICS

PROJECT WEBB

DATE 12/13/2019

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
24N	03W	02	WEBB	00U2	3.50	5	38	S	W

CL: 68.1 % COEFF

SD: 1.0 VAR.

BASAL AREA/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
WR CEDAR-L	52.0	13	27	41			
TOTAL	*23.4*	*196*	*255*	*315*	*109*	*56*	*27*

CL: 68.1 % COEFF

SD: 1.0 VAR.%

NET BF/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	33.5	8,145	12,245	16,345			
DOUG FIR-L	31.0	10,443	15,127	19,810			
WHEMLOCK	54.2	3,551	7,750	11,950			
WHEMLOCK-L	83.9	395	2,443	4,492			
WR CEDAR	111.1		585	1,236			
WR CEDAR-L	50.9	1,072	2,183	3,293			
TOTAL	*23.1*	*31,034*	*40,333*	*49,632*	*106*	*54*	*27*

CL: 68.1 % COEFF

SD: 1.0 VAR.%

NET CUFT FT/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	33.5	1,899	2,856	3,813			
DOUG FIR-L	32.6	2,421	3,592	4,762			
WHEMLOCK	53.7	869	1,877	2,885			
WHEMLOCK-L	82.1	117	653	1,190			
WR CEDAR	111.1		231	488			
WR CEDAR-L	50.2	409	822	1,235			
TOTAL	*22.6*	*7,762*	*10,031*	*12,299*	*102*	*52*	*26*

CL: 68.1 % COEFF

SD: 1.0 VAR.%

V-BAR/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	33.5	121	182	243			
DOUG FIR-L	31.0	111	161	211			
WHEMLOCK	54.2	88	192	296			
WHEMLOCK-L	83.9	20	121	223			
WR CEDAR	111.1		87	184			
WR CEDAR-L	50.9	40	81	122			
TOTAL	*23.1*	*121*	*158*	*194*	*106*	*54*	*27*

STATISTICS

PROJECT WEBB

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
24N	03W	02	WEBB	00U3	22.80	25	110	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	25	110	4.4		
CRUISE	18	76	4.2	2,544	3.0
DBH COUNT					
REFOREST					
COUNT	7	25	3.6		
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	51	77.4	20.7	96	39.7	180.7	34,831	33,104	7,978	7,970
DOUG FIR-P	1	1.8	15.0	73	0.6	2.2	266	248	68	68
WHEMLOCK	8	15.9	14.2	75	4.6	17.4	2,307	2,211	608	601
R ALDER	10	10.5	16.8	67	3.9	16.1	1,647	1,548	528	529
WR CEDAR	4	4.4	15.0	62	1.4	5.4	329	310	116	116
BL MAPLE	2	1.7	16.9	34	0.7	2.7	103	79	54	54
TOTAL	*76*	*111.6*	*19.2*	*88*	*51.2*	*224.5*	*39,484*	*37,500*	*9,353*	*9,339*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

SAMPLE TREES - BF

CL: 68.1 % SD: 1.0	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	57.2	8.0	534	580	627			
DOUG FIR-P								
WHEMLOCK	65.9	24.9	143	190	237			
R ALDER	38.5	12.8	140	161	182			
WR CEDAR	65.1	37.2	46	73	99			
BL MAPLE	15.7	14.7	38	45	52			
TOTAL	*78.7*	*9.0*	*398*	*437*	*477*	*247*	*126*	*62*

SAMPLE TREES - CF

CL: 68.1 % SD: 1.0	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	51.6	7.2	127	136	146			
DOUG FIR-P								
WHEMLOCK	57.7	21.7	40	51	62			
R ALDER	36.0	12.0	48	55	61			
WR CEDAR	50.6	28.9	22	31	40			
BL MAPLE	22.1	20.7	25	32	39			
TOTAL	*67.7*	*7.8*	*99*	*107*	*115*	*183*	*93*	*46*

TREES/ACRE

CL: 68.1 % SD: 1.0	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	51.7	10.6	69	77	86			
DOUG FIR-P	500.0	102.0		2	4			
WHEMLOCK	205.6	41.9	9	16	23			
R ALDER	192.7	39.3	6	10	15			
WR CEDAR	263.3	53.7	2	4	7			
BL MAPLE	348.7	71.1	0	2	3			
TOTAL	*42.2*	*8.6*	*102*	*112*	*121*	*74*	*38*	*19*

BASAL AREA/ACRE

CL: 68.1 % SD: 1.0	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	44.9	9.2	164	181	197			
DOUG FIR-P	500.0	102.0		2	4			
WHEMLOCK	174.0	35.5	11	17	24			
R ALDER	191.3	39.0	10	16	22			
WR CEDAR	233.9	47.7	3	5	8			

STATISTICS

PROJECT WEBB

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
24N	03W	02	WEBB	00U3	22.80	25	110	S	W

CL: 68.1 % COEFF

SD: 1.0 VAR.

BASAL AREA/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
BL MAPLE	346.1	70.6	1	3	5			
TOTAL	*25.9*	*5.3*	*213*	*225*	*236*	*28*	*14*	*7*

CL: 68.1 % COEFF

SD: 1.0 VAR.%

NET BF/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	45.5	9.3	30,034	33,104	36,174			
DOUG FIR-P	500.0	102.0		248	502			
WHEMLOCK	169.5	34.6	1,447	2,211	2,975			
R ALDER	194.3	39.6	935	1,548	2,162			
WR CEDAR	265.2	54.1	142	310	477			
BL MAPLE	355.5	72.5	22	79	136			
TOTAL	*33.5*	*6.8*	*34,936*	*37,500*	*40,064*	*47*	*24*	*12*

CL: 68.1 % COEFF

SD: 1.0 VAR.%

NET CUFT FT/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	44.9	9.1	7,241	7,970	8,699			
DOUG FIR-P	500.0	102.0		68	138			
WHEMLOCK	171.2	34.9	391	601	812			
R ALDER	194.1	39.6	320	529	738			
WR CEDAR	247.9	50.6	57	116	175			
BL MAPLE	346.4	70.6	16	54	92			
TOTAL	*29.6*	*6.0*	*8,776*	*9,339*	*9,902*	*36*	*19*	*9*

CL: 68.1 % COEFF

SD: 1.0 VAR.%

V-BAR/ACRE

	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR			166	183	200			
DOUG FIR-P	500.0	102.0		114	230			
WHEMLOCK	169.5	34.6	83	127	171			
R ALDER	174.7	35.6	58	96	134			
WR CEDAR	265.2	54.1	26	58	89			
BL MAPLE	355.5	72.5	8	29	50			
TOTAL	*124.5*	*25.4*	*156*	*167*	*178*	*645*	*329*	*161*

TC TSTATS

STATISTICS

PAGE 1

PROJECT WEBB

DATE 12/13/2019

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
24N	**03W**	**02**	**WEBB**	**00U4**	0.30	1	5	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	1	5	5.0		
CRUISE	1	5	5.0	72	6.9
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	3	194.7	9.7	44	32.3	100.8	12,644	12,497	2,539	2,539
R ALDER	2	45.4	16.5	55	16.6	67.2	5,791	5,337	1,844	1,844
TOTAL	*5*	*240.1*	*11.3*	*46*	*49.9*	*168.1*	*18,435*	*17,835*	*4,382*	*4,382*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

SAMPLE TREES - BF

CL: 68.1 % COEFF

SD: 1.0 VAR.%

	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	162.0	112.1		387	820			
R ALDER	47.1	44.1	67	120	173			
TOTAL	*166.9*	*82.9*	*48*	*280*	*512*	*1,375*	*702*	*344*

SAMPLE TREES - CF

CL: 68.1 % COEFF

SD: 1.0 VAR.%

	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	161.6	111.8		80	170			
R ALDER	21.0	19.6	33	41	49			
TOTAL	*145.9*	*72.5*	*18*	*64*	*111*	*1,052*	*537*	*263*

TC PSPCTLTCM

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

T24N R03W S02 Ty00U	50.8
T24N R03W S02 Ty00U	3.5
T24N R03W S02 Ty00U	.3

Project WEBB
Acres 77.40

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Date: 12/13/2019
Time 3:12:02PM

Species	ST	Total Trees	Total Logs	Total Tons	Net Cubic Ft/ Tree	Net Cubic Ft/ Log	CF/ LF	Total CCF Gross	Total CCF Net	Total MBF Gross	Total MBF Net
DOUG FIR		4,328	10,981	13,815	111.93	44.11	1.28	4,847	4,844	2,162	2,068
WHEMLOCK		2,144	4,446	4,199	61.10	29.47	0.91	1,312	1,310	541	515
WR CEDAR		1,394	2,146	1,483	44.64	28.99	0.93	631	622	209	179
R ALDER		734	1,208	694	34.42	20.91	0.71	252	253	81	74
DOUG FIR	L	292	424	363	43.04	29.62	0.90	127	126	56	53
DOUG FIR	P	165	453	355	75.69	27.48	0.82	125	125	50	50
WR CEDAR	P	58	123	137	101.33	47.27	1.35	58	58	21	18
WHEMLOCK	L	74	160	73	30.99	14.30	0.53	23	23	9	9
WR CEDAR	L	55	75	68	52.44	38.51	1.01	29	29	10	8
COTWOOD		17	35	26	62.49	31.25	1.08	11	11	4	4
BL MAPLE		39	39	33	31.41	31.41	0.95	12	12	2	2
Totals		9,299	20,090	21,246	79.71	36.90	1.11	7,428	7,413	3,144	2,980

Wood Type Species	Total Trees	Total Logs	Total Tons	Net Cubic Ft/ Tree	Net Cubic Ft/ Log	CF/ LF	Total CCF Gross	Total CCF Net	Total MBF Gross	Total MBF Net
C	8,509	18,809	20,493	83.88	37.94	1.13	7,152	7,137	3,057	2,900
H	790	1,282	754	34.88	21.51	0.73	276	276	87	80
Totals	9,299	20,090	21,246	79.71	36.90	1.11	7,428	7,413	3,144	2,980

TC TSTNDSUMRdVBar

Stand Table Summary with RD, V-bar - Type

Project **WEBB**

T24N R03W S02 T00U2

T24N R03W S02 T00U2

Page: 1
Date: 12/13/201
Time: 3:12:11PM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
24N	03W	02	WEBB	00U2	3.50	5	38

Spc	ST	DBH Class	Sample Trees	QMD DBH	Total Age	Bole Ht.	Total Ht.	Avg FF	Avg CR	RD	V Bar	Ht/D	Trees/ Acre	BA/ Acre	Gross Bd. Ft. Acre	Def %	Net Bd. Ft. Acre	MBF
DF	L	8	2	8.2	60	59	59	85		4.7	82	86.3	36.658	13.44	1,100		1,100	4
DF	L	10	1	9.6	60	62	62	81		2.2	80	77.5	13.373	6.72	535		535	2
DF	L	12	1	12.1	60	77	77	84		1.9	100	76.4	8.418	6.72	673		673	2
DF	L	14	1	14.1	60	60	74	85		1.8	83	63.0	6.199	6.72	682	18	558	2
DF	L	15	1	15.4	60	67	83	84		1.7	101	64.7	5.197	6.72	728	7	676	2
DF	L	20	2	19.9	60	96	121	85		3.0	158	73.0	6.229	13.44	2,152	1	2,121	7
DF	L	27	1	27.1	60	112	142	84		1.3	205	62.9	1.678	6.72	1,376		1,376	5
DF	L	28	1	28.4	60	120	125	84		1.3	182	52.8	1.528	6.72	1,268	4	1,222	4
DF	L	30	1	29.6	60	133	170	82		1.2	251	68.9	1.407	6.72	1,758	4	1,688	6
DF	L	31	1	31.2	60	137	175	82		1.2	254	67.3	1.266	6.72	1,836	7	1,709	6
DF	L	38	1	38.0	60	130	166	83		1.1	263	52.4	.854	6.72	1,920	8	1,767	6
DF	L	44	1	43.9	60	138	176	81		1.0	253	48.1	.640	6.72	2,002	15	1,701	6
DF		Totals	14	14.4	60	71	77	84		24.8	161	64.3	83.446	94.11	16,030	6	15,127	53
DF		17	2	16.9	60	79	99	86		3.3	135	70.5	8.631	13.44	1,809		1,809	6
DF		21	1	20.5	60	101	128	85		1.5	188	74.9	2.933	6.72	1,261		1,261	4
DF		23	1	22.8	60	119	151	85		1.4	226	79.5	2.371	6.72	1,565	3	1,517	5
DF		24	3	24.0	60	106	134	84		4.1	204	66.8	6.422	20.17	4,147	1	4,104	14
DF		32	3	32.2	60	88	119	83		3.6	176	44.5	3.567	20.17	3,841	7	3,553	12
DF		Totals	10	22.7	60	94	120	85		14.1	182	63.5	23.924	67.22	12,624	3	12,245	43
WH		18	1	18.0	60	101	126	85		1.6	181	84.0	3.804	6.72	1,217		1,217	4
WH		19	2	19.0	60	98	122	85		3.1	179	76.6	6.793	13.44	2,446	1	2,412	8
WH		25	1	24.9	60	102	127	86		1.3	198	61.2	1.988	6.72	1,391	4	1,332	5
WH		27	1	27.3	60	99	123	83		1.3	192	54.1	1.654	6.72	1,373	6	1,290	5
WH		28	1	27.8	60	108	135	83		1.3	223	58.3	1.595	6.72	1,499		1,499	5
WH		Totals	6	21.6	60	100	125	85		8.7	192	69.3	15.834	40.33	7,926	2	7,750	27
WH	L	12	2	11.8	60	73	73	84		3.9	85	73.8	17.562	13.44	1,139		1,139	4
WH	L	19	1	18.7	60	100	125	86		1.6	194	80.2	3.524	6.72	1,304		1,304	5
WH		Totals	3	13.2	60	77	82	84		5.5	121	73.9	21.086	20.17	2,443		2,443	9
RC	L	11	1	11.1	60	65	65	72		2.0	60	70.3	10.003	6.72	400		400	1
RC	L	20	1	20.0	60	75	94	74		1.5	83	56.4	3.081	6.72	616	10	555	2
RC	L	26	1	26.3	60	86	109	79		1.3	127	49.7	1.782	6.72	998	14	855	3
RC	L	39	1	39.0	60	86	109	75		1.1	55	33.5	.810	6.72	737	49	373	1
RC		Totals	4	17.7	60	70	78	73		6.4	81	52.8	15.676	26.89	2,752	21	2,183	8
RC		20	1	20.0	60	77	97	80		1.5	87	58.2	3.081	6.72	739	21	585	2
RC		Totals	1	20.0	60	77	97	80		1.5	87	58.2	3.081	6.72	739	21	585	2
Totals			38	16.9	60	78	89	83		62.0	158	63.1	163.046	255.44	42,514	5	40,333	141

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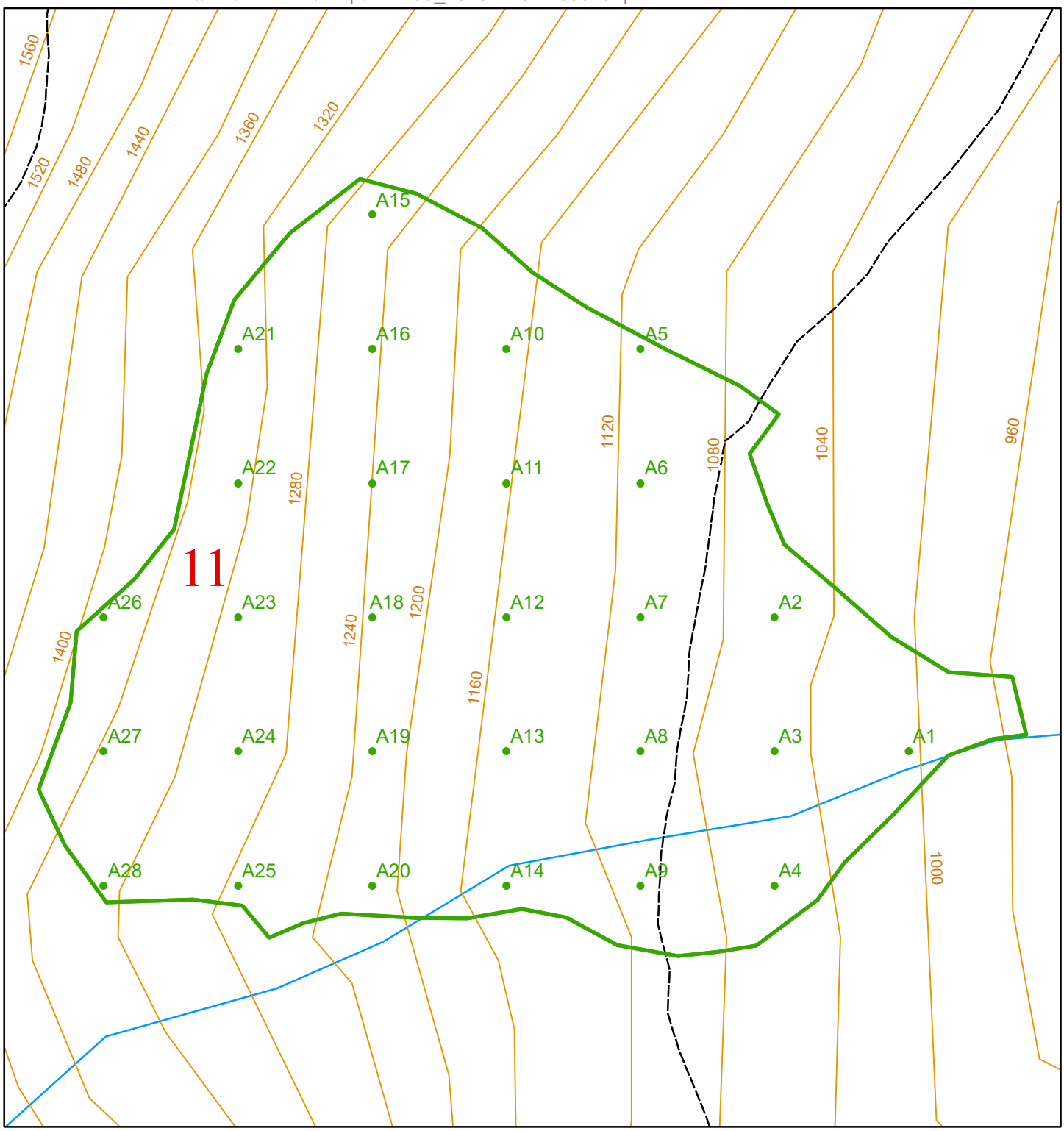

Webb

LAYER NAME:	harvest type	Township:	T24R03W
POLY ID:	1	Total Sample Points:	28
Acres:	23	Spacing Between Points:	Width: 198 Height: 198
		Point Rotation Degrees:	0

N

0 70 140 280 420 560 Feet

Scale 1:2,500

Legend
- Sample Points
- Unit
- Public Land Survey Sections
- Contours 40-foot

Washington State Department of Natural Resources
Hilary Franz, Commissioner of Public Lands

Nov 25, 2019 03:01 PM

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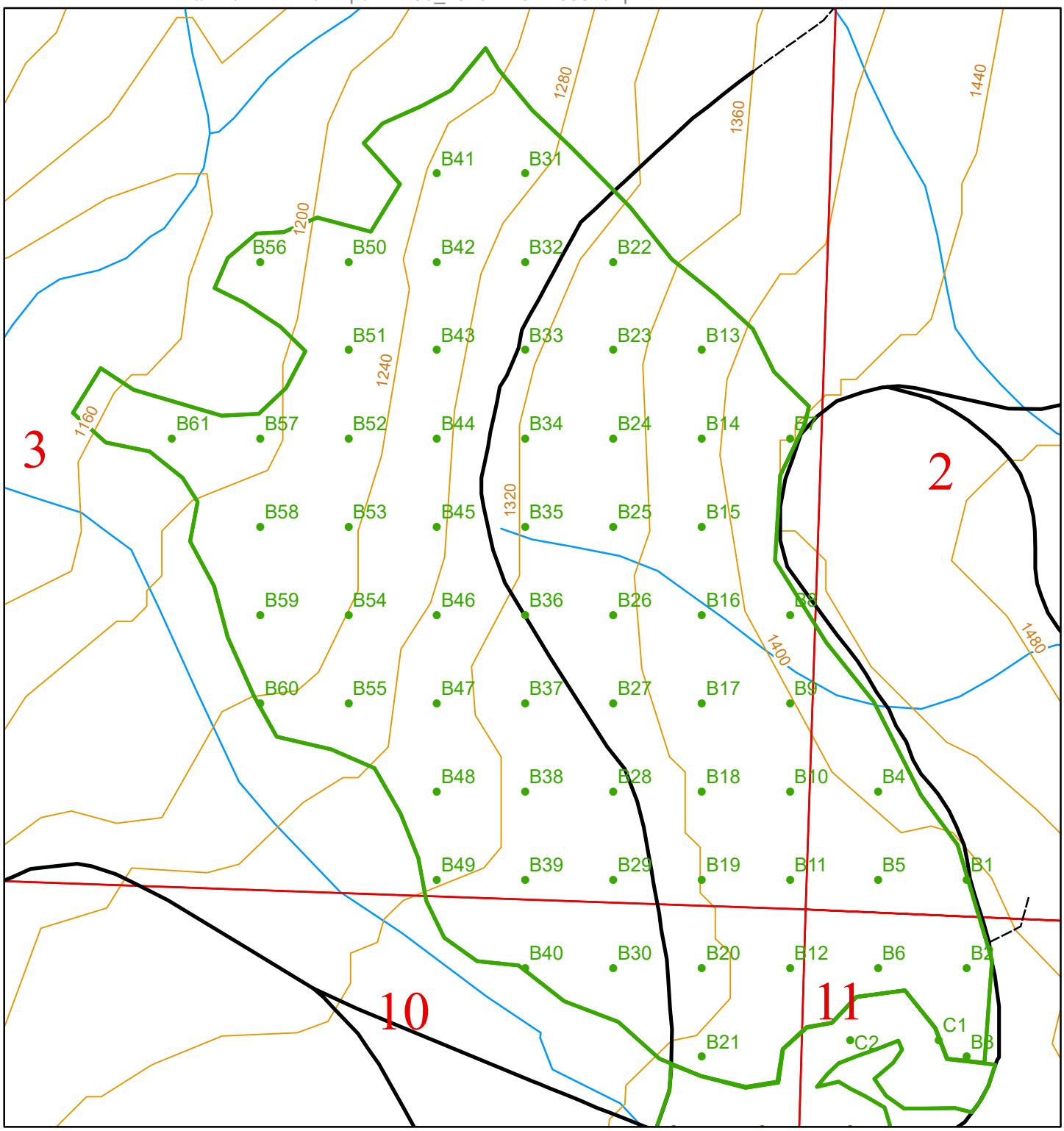

Webb

LAYER NAME:	harvest type	Township:	T24R03W
POLY ID:	2	Total Sample Points:	61
Acres:	54	Spacing Between Points:	Width: 198 Height: 198
		Point Rotation Degrees:	0

N

0 110 220 440 660 880 Feet

Scale 1:3,800

Legend

- Sample Points
- Unit
- Public Land Survey Sections
- Contours 40-foot

Washington State Department of Natural Resources
Hilary Franz, Commissioner of Public Lands

Nov 25, 2019 03:01 PM

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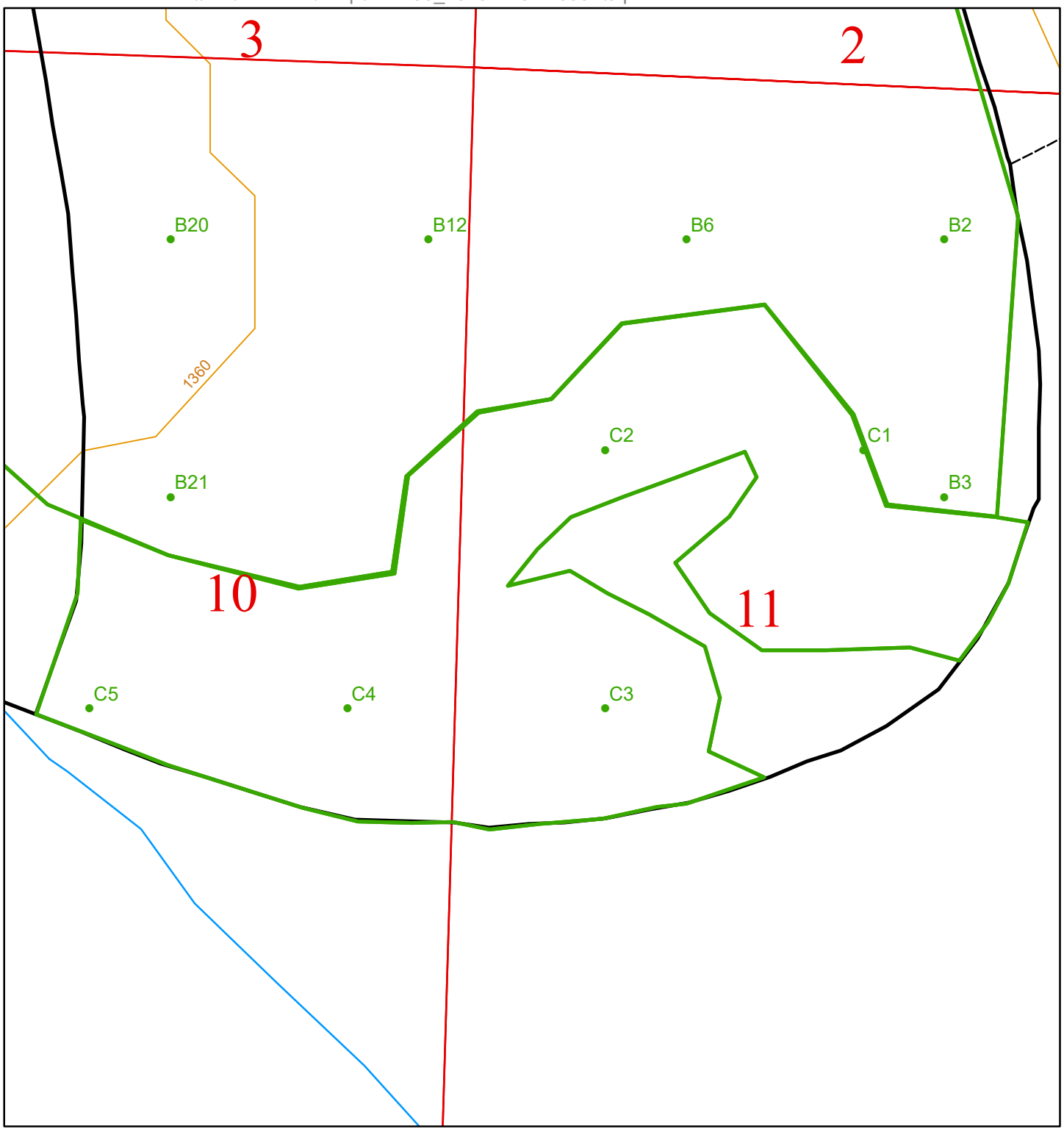


Webb

LAYER NAME:	harvest type	Township:	T24R03W
POLY ID:	3	Total Sample Points:	5
Acres:	3	Spacing Between Points:	Width: 198 Height: 198
		Point Rotation Degrees:	0

N

0 37.5 75 150 225 300 Feet

Scale 1:1,300

Legend

- Sample Points
- Unit
- Public Land Survey Sections
- Contours 40-foot

Washington State Department of Natural Resources
Hilary Franz, Commissioner of Public Lands

Nov 25, 2019 03:01 PM

Forest Practices Application/Notification

Notice of Decision

FPA/N No: 2421414
Effective Date: 1/22/2020
Expiration Date: 1/22/2023
Shut Down Zone: 652 SE
EARR Tax Credit: ☒ Eligible ☐ Non-eligible
Reference: Webb #30-097375

Decision

☒ **Notification** Operations shall not begin before the effective date.

☒ **Approved** This Forest Practices Application is subject to the conditions listed below.

☐ **Disapproved** This Forest Practices Application is disapproved for the reasons listed below.

☐ **Closed** Applicant has withdrawn approved FPA/N

FPA/N Classification

☐ Class II ☒ Class III ☐ Class IVG ☐ Class IVS

Number of Years Granted on Multi-Year Request

☐ 4 yrs ☐ 5 yrs

Conditions on Approval / Reasons for Disapproval

Issued By: Jason Sharp
Region: South Puget Sound

Title: Resource Protection Forester
Date: 1/22/2020

Copies to: ☒ Landowner, Timber Owner and Operator.

Issued in person: ☒ Landowner ☒ Timber Owner ☒ Operator By: [signature]

AEM 1-22-20

Appeal Information

You have thirty (30) days to appeal this Decision and any related State Environmental Policy Act determinations to the Pollution Control Hearings Board in writing at the following addresses:
Physical address: 1111 Israel Rd. SW, Ste 301, Tumwater, WA 98501
Mailing address: P.O. BOX 40903, OLYMPIA, WA 98504-0903
Information regarding the Pollution Control Hearings Board can be found at: http://www.eluho.wa.gov/
At the same time you file an appeal with the Pollution Control Hearings Board, also send a copy of the appeal to the Department of Natural Resources' region office and the Office of the Attorney General at the following addresses:

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

And

Department Of Natural Resources
South Puget Sound Region
950 Farman Ave N
Enumclaw, WA 98022

Other Applicable Laws

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

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

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

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

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

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

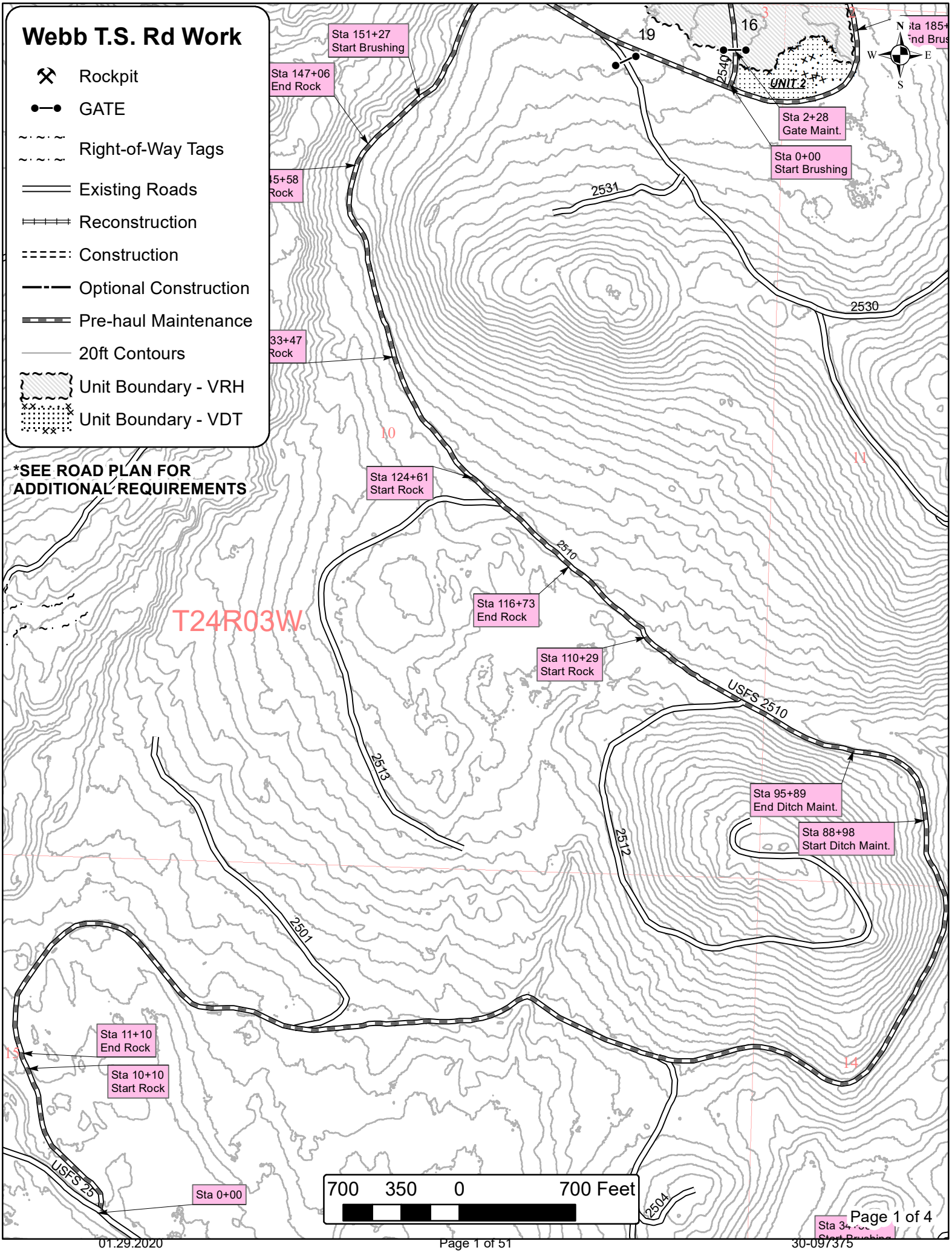
If the seller fails to notify the buyer about the continuing forest land obligation, the seller must pay the buyer's costs related to continuing forest land obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forest land obligation against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

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

DNR affidavit of mailing:

On this day 1/22/2020 (date mm/dd/yyyy), I placed in the United States mail at Olympia (post office location), WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA **#2421414**

Meredith Dessens (Printed name) _____ (Signature)


Webb T.S. Rd Work
Rockpit
GATE
Right-of-Way Tags
Existing Roads
Reconstruction
Construction
Optional Construction
Pre-haul Maintenance
20ft Contours
Unit Boundary - VRH
Unit Boundary - VDT
*SEE ROAD PLAN FOR ADDITIONAL REQUIREMENTS
Sta 151+27 Start Brushing
Sta 147+06 End Rock
Sta 2+28 Gate Maint.
Sta 0+00 Start Brushing
Sta 124+61 Start Rock
Sta 116+73 End Rock
Sta 110+29 Start Rock
Sta 95+89 End Ditch Maint.
Sta 88+98 Start Ditch Maint.
Sta 11+10 End Rock
Sta 10+10 Start Rock
Sta 0+00
T24R03W
UNIT 2
2549
2531
2530
2510
2513
2512
2501
2504
USFS 2510
USFS 25
700 350 0 700 Feet
N
S
E
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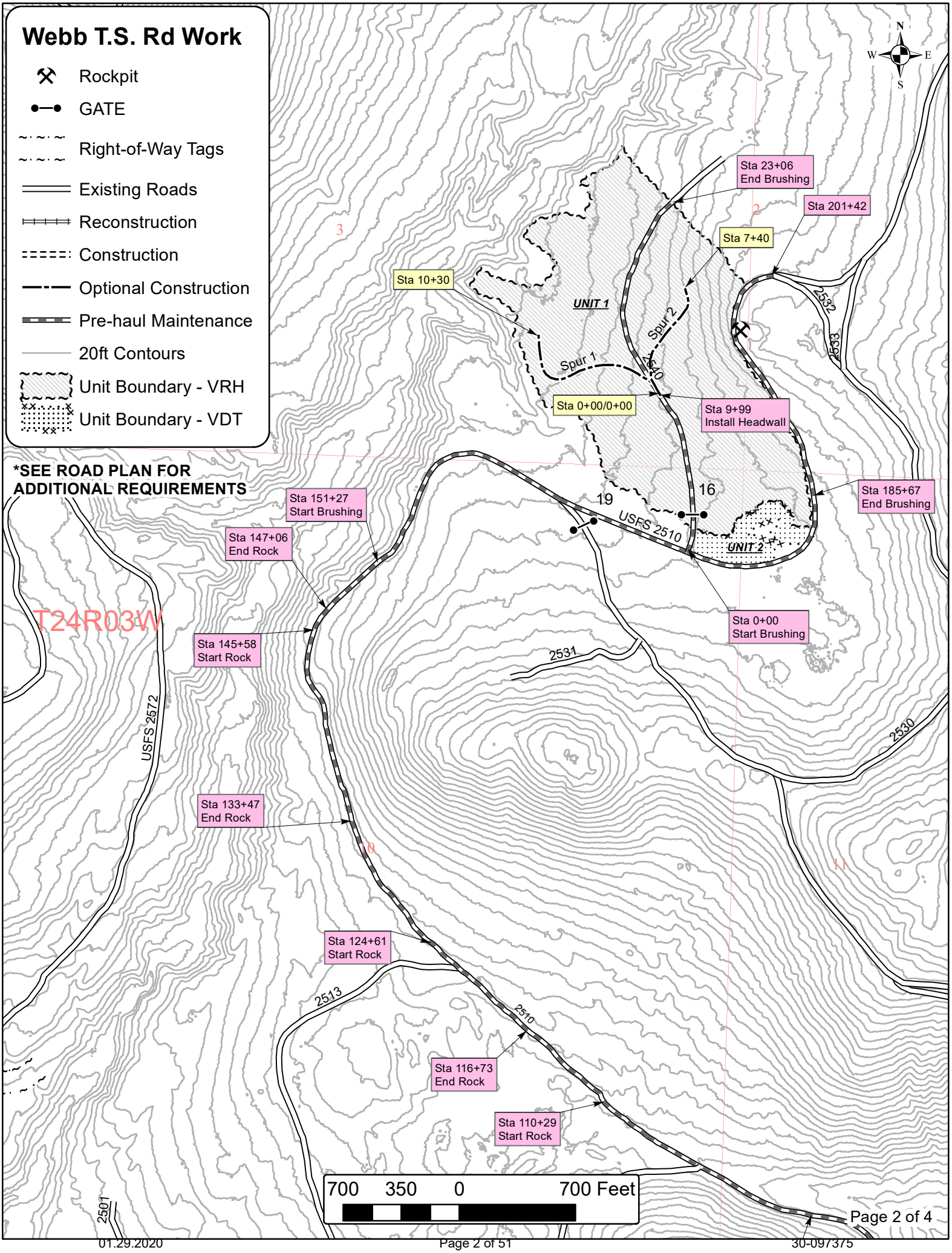
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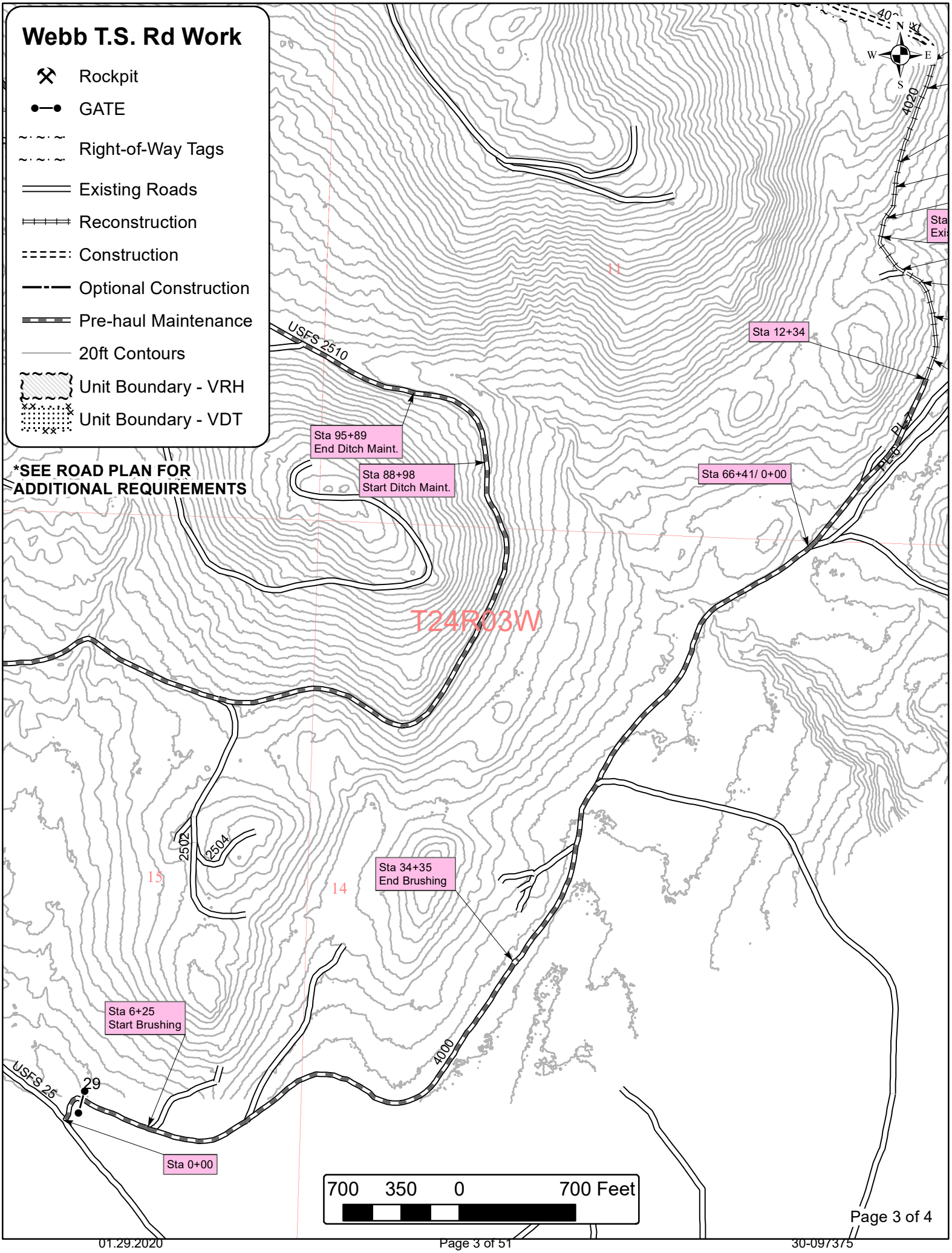
Rockpit
GATE
Right-of-Way Tags
Existing Roads
Reconstruction
Construction
Optional Construction
Pre-haul Maintenance
20ft Contours
Unit Boundary - VRH
Unit Boundary - VDT
*SEE ROAD PLAN FOR ADDITIONAL REQUIREMENTS
N
W
E
S
Sta 23+06 End Brushing
Sta 201+42
Sta 7+40
Sta 10+30
UNIT 1
Spur 2
Spur 1
2540
2532
2533
Sta 0+00/0+00
Sta 9+99 Install Headwall
Sta 185+67 End Brushing
19
16
USFS 2510
UNIT 2
Sta 151+27 Start Brushing
Sta 147+06 End Rock
Sta 0+00 Start Brushing
T24R03W
Sta 145+58 Start Rock
2531
USFS 2572
2530
Sta 133+47 End Rock
10
11
Sta 124+61 Start Rock
2513
2510
Sta 116+73 End Rock
Sta 110+29 Start Rock
2501
700 350 0 700 Feet


Webb T.S. Rd Work
Rockpit
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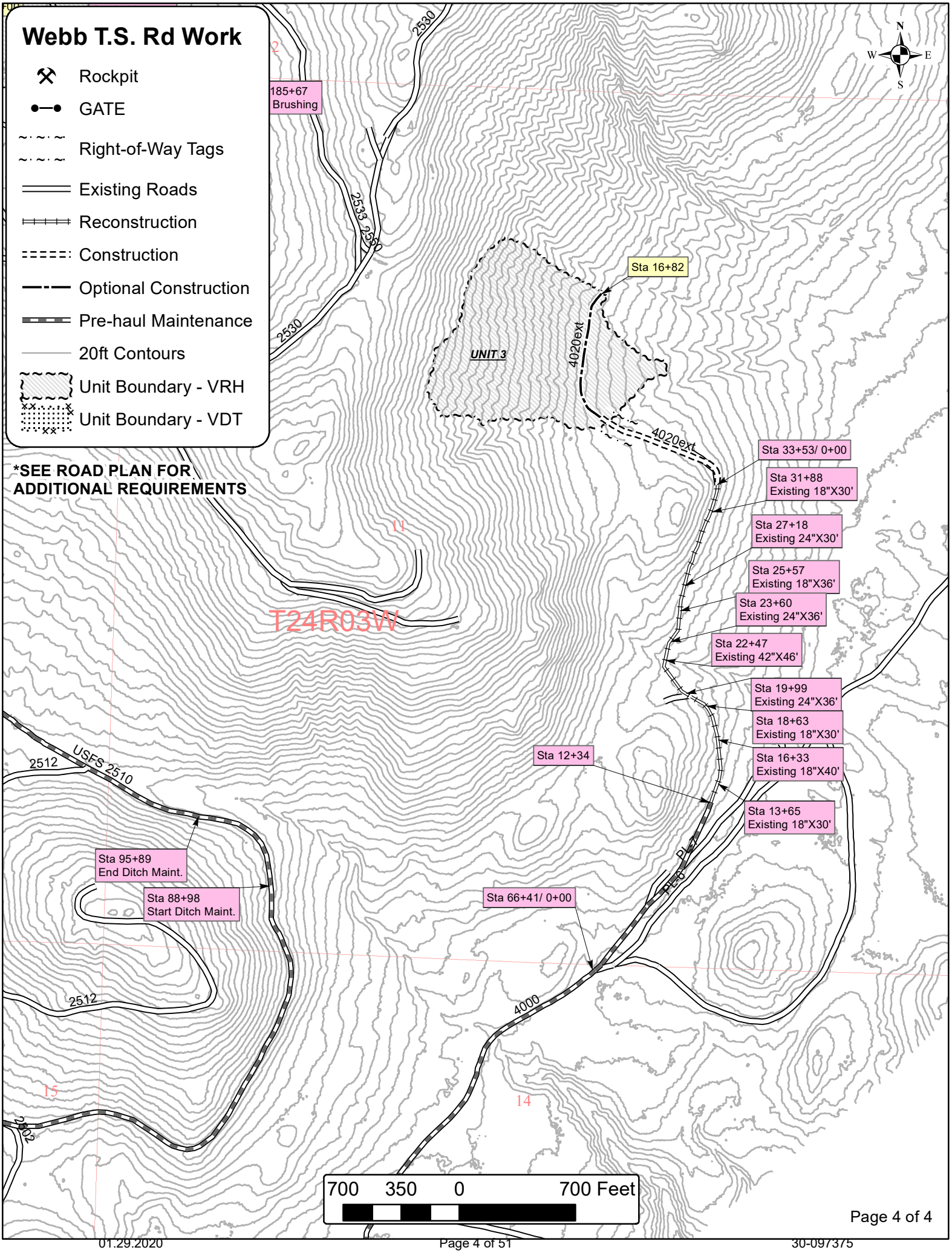
Right-of-Way Tags
Existing Roads
Reconstruction
Construction
Optional Construction
Pre-haul Maintenance
20ft Contours
Unit Boundary - VRH
Unit Boundary - VDT
*SEE ROAD PLAN FOR ADDITIONAL REQUIREMENTS
USFS 2510
Sta 95+89
End Ditch Maint.
Sta 88+98
Start Ditch Maint.
Sta 12+34
Sta 66+41/ 0+00
T24R03W
11
15
14
2502
2504
Sta 34+35
End Brushing
Sta 6+25
Start Brushing
4000
4020
USFS 25
29
Sta 0+00
700 350 0 700 Feet
N
W
E
S


Webb T.S. Rd Work
Rockpit
GATE
Right-of-Way Tags
Existing Roads
Reconstruction
Construction
Optional Construction
Pre-haul Maintenance
20ft Contours
Unit Boundary - VRH
Unit Boundary - VDT
*SEE ROAD PLAN FOR ADDITIONAL REQUIREMENTS
185+67 Brushing
2530
2533
2530
2530
UNIT 3
4020ext
4020ext
Sta 16+82
Sta 33+53/ 0+00
Sta 31+88 Existing 18"X30'
Sta 27+18 Existing 24"X30'
Sta 25+57 Existing 18"X36'
Sta 23+60 Existing 24"X36'
Sta 22+47 Existing 42"X46'
Sta 19+99 Existing 24"X36'
Sta 18+63 Existing 18"X30'
Sta 16+33 Existing 18"X40'
Sta 13+65 Existing 18"X30'
Sta 12+34
Sta 66+41/ 0+00
Sta 95+89 End Ditch Maint.
Sta 88+98 Start Ditch Maint.
T24R03W
USFS 2510
2512
2512
2512
4000
PL 6
PL 7
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700 350 0 700 Feet

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

WEBB TIMBER SALE ROAD PLAN
MASON COUNTY
HOOD CANAL DISTRICT
SOUTH PUGET SOUND REGION

AGREEMENT NO.: 30-097375 STAFF ENGINEER: Heymann
DATE: 8/29/19

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

Road	Stations	Type
2510	0+00 to 201+42	Pre-haul Maintenance
2540	0+00 to 23+06	Pre-haul Maintenance
4000	0+00 to 66+41	Pre-haul Maintenance
4020	0+00 to 12+43	Pre-haul Maintenance
4020	12+43 to 33+53	Reconstruction
4020ext	0+00 to 8+60	Construction

0-3 OPTIONAL ROADS

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

Road	Stations	Type
Spur 1	0+00 to 10+30	Construction
Spur 2	0+00 to 7+40	Construction
4020ext	8+60 to 16+82	Construction

0-4 CONSTRUCTION

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

clearing;
grubbing;
right-of-way debris disposal;
excavation and/or embankment to subgrade;
landing construction;
acquisition and installation of drainage structures;
acquisition, manufacture, and application of rock;

road abandonment.

0-5 RECONSTRUCTION

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

brushing right-of-way;
clearing existing excavation and embankment slopes;
grubbing existing excavation and embankment slopes;
right-of-way debris disposal;
pulling ditches;
cleaning ditches;
constructing ditches;
grading and shaping existing road surface and turnouts;
compaction of road surface.

0-6 PRE-HAUL MAINTENANCE

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

brushing right-of-way;
removing fallen right-of-way debris;
pulling ditches;
cleaning ditches;
constructing catch basin and headwall;
cleaning culvert inlets and outlets;
grading and shaping existing road surface and turnouts;
spot rocking.

0-7 POST-HAUL MAINTENANCE

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

0-10 ABANDONMENT

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

0-12 DEVELOP ROCK SOURCE

Purchaser may develop an existing rock source. Work for developing rock sources is listed in Section 6 ROCK AND SURFACING.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for 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 Purchaser's choice of construction season or techniques will be at the Purchaser's expense. Unforeseen conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

1-3 ROAD DIMENSIONS

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

1-4 ROAD TOLERANCES

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

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

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

1-9 DAMAGED METALLIC COATING

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

1-15 ROAD MARKING

Purchaser shall perform road work in accordance with the state's marked location.

1-16 CONSTRUCTION STAKES SET BY STATE

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

1-18 REFERENCE POINT DAMAGE

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

1-21 HAUL APPROVAL

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

1-23 ROAD WORK PHASE APPROVAL

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

- Drainage installation & Subgrade compaction
- Rock compaction

1-25 ACTIVITY TIMING RESTRICTION

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

1-29 SEDIMENT RESTRICTION

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

1-30 CLOSURE TO PREVENT DAMAGE

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

- Surface or base stability problems persist.
- Weather is such that satisfactory results cannot be obtained in an area of operations.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

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

1-33 SNOW PLOWING RESTRICTION

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

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

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

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

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

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

2-2 ROAD MAINTENANCE – PURCHASER MAINTENANCE

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

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

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

2-5 MAINTENANCE GRADING – EXISTING ROAD

On the following road(s), Purchaser shall use a grader to shape the existing surface before rock application and/or timber haul. Purchaser shall accomplish all grading using a motor grader with a minimum of 175 horsepower.

Road	Stations
2510	0+00 to 201+42
2540	0+00 to 23+06
4000	0+00 to 66+41
4020	0+00 to 12+43

2-7 RECONSTRUCTING DITCHES, HEADWALLS, AND CATCH BASINS

On the following road(s), Purchaser shall reconstruct ditches, headwalls, and catch basins. Work must be completed before timber haul and must be done in accordance with the TYPICAL SECTION SHEET dimensions

Road	Stations	Type
2510	88+98 to 95+89	Reconstruct Ditch
2540	9+99	Build Headwall

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-1 BRUSHING

On the following road(s), Purchaser shall cut vegetative material up to 5 inches in diameter, including limbs, as shown on the BRUSHING DETAIL. Brushing must be achieved by manual or mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

Road	Stations
2510	151+27 to 185+67
2540	0+00 to 23+06
4000	6+25 to 34+35

3-5 CLEARING

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

3-8 PROHIBITED DECKING AREAS

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

- Within the grubbing limits.
- Within 50 feet of any stream.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing trees.

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Grubbing must be completed before starting excavation and embankment.

3-20 ORGANIC DEBRIS DEFINITION

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

3-21 DISPOSAL COMPLETION

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

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland.
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 55%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris in natural openings. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

SECTION 4 – EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

Purchaser shall use a track mounted hydraulic excavator for construction work involving pioneering, clearing and grubbing, unless authorized in writing by the Contract Administrator.

4-2 PIONEERING

Pioneering may not extend past construction that will be completed during the current construction season. In addition, the following actions must be taken as pioneering progresses:

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

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

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

4-5 CUT SLOPE RATIO

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

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

4-6 EMBANKMENT SLOPE RATIO

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

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

4-21 TURNOUTS

Purchaser shall construct turnouts intervisible with a maximum distance of 1,000 feet between turnouts. Locations may be adjusted to fit the final subgrade alignment and sight distances. Minimum dimensions are shown on the TYPICAL SECTION SHEET.

4-22 TURNAROUNDS

Optional Turnarounds must be no larger than 30 feet long and 30 feet wide.

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

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

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as 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.

4-35 WASTE MATERIAL DEFINITION

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

4-38 PROHIBITED WASTE DISPOSAL AREAS

Purchaser shall not deposit waste material in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- Within a wetland management zone.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.

4-55 ROAD SHAPING

Purchaser shall shape the subgrade and surface as shown on the TYPICAL SECTION SHEET. The subgrade and surface shape must ensure runoff in an even, un-concentrated manner, and must be uniform, firm, and rut-free. Purchaser shall accomplish all shaping using a motor grader with a minimum of 175 horsepower.

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material in accordance with the COMPACTION LIST by routing equipment over the entire width of each lift.

4-61 SUBGRADE COMPACTION

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

SECTION 5 – DRAINAGE

5-1 REMOVAL OF SHOULDER BERMS

Purchaser shall remove berms from road shoulders. The construction of ditchouts is required where ponding could result from the effects of sidecast debris.

5-5 CULVERTS

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and

may not terminate directly on unprotected soil. Culverts must be new material and meet the specifications in Clauses 10-15 through 10-24.

5-7 USED CULVERT MATERIAL

On the following road(s), Purchaser may install used culverts. All other culverts must have new culverts installed.

Road	Stations
Spur 1	0+00 to 10+30
Spur 2	0+00 to 7+40

5-12 UNUSED MATERIALS STATE PROPERTY

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

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

Purchaser shall obtain written approval from the Contract Administrator for the installation of culverts 30 inches in diameter and over before backfilling.

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

All culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point. Stream crossing culverts must be installed with a depth of cover specified in the Engineer's design.

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts, except for temporary culverts. Energy dissipater installation is subject to approval by the Contract Administrator.

The type of energy dissipater and the amount of material must be consistent with the specifications listed on the CULVERT LIST. Placement must be by zero-drop-height method only. No placement by end dumping or dropping of rock is allowed.

5-25 CATCH BASINS

Purchaser shall construct catch basins in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions of catch basins are 2 feet wide and 4 feet long.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

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

5-33 NATIVE SURFACE ROADS

If overwintered, native surface roads must be waterbarred by November 1. Purchaser shall construct waterbars according to the attached DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical distance of no more than 10 feet between waterbars or between natural drainage paths, and with a maximum spacing of 300 feet.

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

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

Source	Location	Rock Type
2510	SW ¼ SW ¼ Sec 2 T24N R03W	3 Inch Jaw Run/Quarry Spalls

6-5 ROCK FROM COMMERCIAL SOURCE

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

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

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

6-12 ROCK SOURCE SPECIFICATIONS

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

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

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

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

6-14 DRILL AND SHOOT

Rock drilling and shooting must meet the following specifications:

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

6-21 IN-PLACE PROCESSING

Purchaser may use in-place processing, such as a grid roller or other method, if suitable crushing can be demonstrated to meet the surfacing size specified in Clause 6-34 3-INCH JAW RUN ROCK. The use of in-place processing methods is subject to written approval by the Contract Administrator.

6-23 ROCK GRADATION TYPES

Purchaser shall provide and/or manufacture rock in accordance with the types and amounts listed in the ROCK LIST. Rock must meet the following specifications for gradation and uniform quality. The exact point of evaluation for conformance to specifications will be determined by the Contract Administrator.

6-34 3-INCH JAW RUN ROCK

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

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

6-43 QUARRY SPALLS

% Passing 8" square sieve	100%
% Passing 3" square sieve	40% maximum
% Passing 3/4" square sieve	10% maximum

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

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

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

6-70 APPROVAL BEFORE ROCK APPLICATION

Purchaser shall obtain written approval from the Contract Administrator for subgrade and drainage before rock application.

6-71 ROCK APPLICATION

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

SECTION 7 – STRUCTURES

7-70 GATE CLOSURE

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

SECTION 9 – POST-HAUL ROAD WORK

9-1 BARRICADES

Purchaser shall construct barricades in accordance with the BARRICADE DETAIL.

Road	Stations
Spur 1	1+15
Spur 2	1+35

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

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

9-5 POST-HAUL MAINTENANCE

Purchaser shall perform post-haul maintenance in accordance with the FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS (FARMS) and as specified below.

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-21 ROAD ABANDONMENT

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

Road	Stations
Spur 1	0+00 to 10+30
Spur 2	0+00 to 7+40

9-22 ABANDONMENT

- Remove road shoulder berms except as directed.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing that will produce a vertical drop of no more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 100 feet.
- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
- Key waterbars into the cut-slope to intercept the ditch. Waterbars must be outsloped to provide positive drainage. Outlets must be on stable locations.
- Block roads with barricades in accordance with the attached BARRICADE DETAIL.
- Remove culverts.
- Remove ditch cross drain culverts and leave the resulting trench open.
- Slope all trench walls and approach embankments no steeper than 1.5:1.
- Scatter woody debris onto abandoned road surfaces.

SECTION 10 MATERIALS

10-17 CORRUGATED PLASTIC CULVERT

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

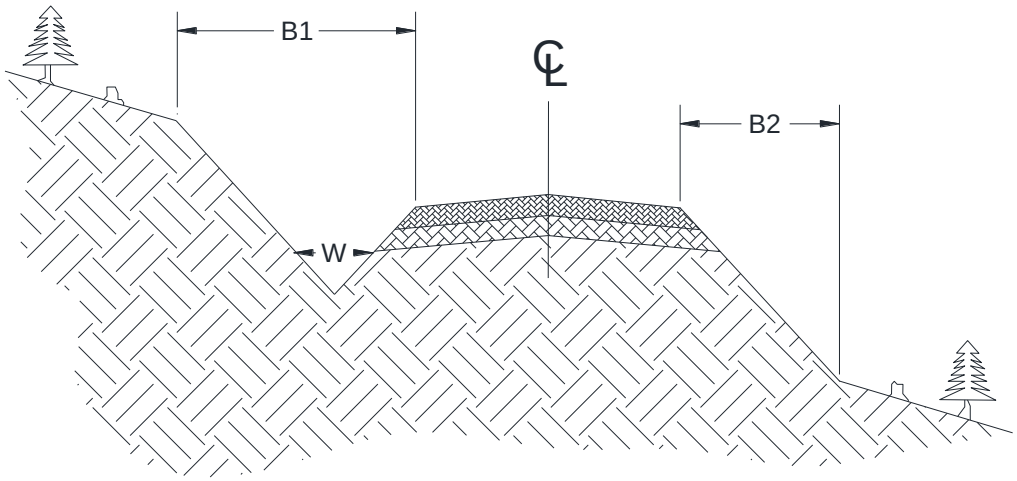
10-22 PLASTIC BAND

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

COMPACTION LIST

Road	From Station	To Station	Type	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
2510 2510 2510 4020 4020ext Spur 1 Spur 2	110+29 124+61 145+58 12+34 0+00 0+00 0+00	116+73 133+47 147+06 33+53 16+82 10+30 7+40	Embankment Subgrade Rock	12	Vibratory Smooth Drum	14,000	4	3

BRUSHING DETAIL
(not to scale)



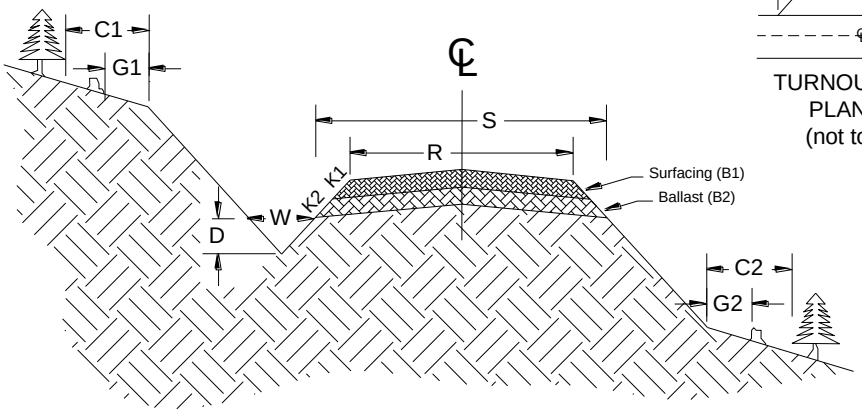
BRUSHING LIST

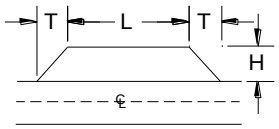
Road Number	From station	To station	Road Width (feet)	Ditch		Brushing Limits (feet)		Remarks
				Width (feet)	Depth (feet)			In addition to brushing…
				W	D	B1	B2	
2510	151+27	185+67	12	2.5	1	10	10	
2540	0+00	23+06	12	2.5	1	10	10	
4000	6+25	34+35	12	2.5	1	10	10	

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

TYPICAL SECTION SHEET

ROAD CROSS-SECTION
(not to scale)





TURNOUT DETAIL
PLAN VIEW
(not to scale)

Road Number	From Station	To Station	Tolerance Class	Subgrade Width (feet)	Road Width (feet)	Ditch Width (feet)	Ditch Depth (feet)	Crown in. @ CL	Grubbing Limits (feet)		Clearing Limits (feet)		Cut Slope Ratio	Fill Slope Ratio
				S	R	W	D		G1	G2	C1	C2	%	%
2510	0+00	201+42	A	16	12	2.5	1	4	0	0	0	0	100	67
2540	0+00	23+06	A	16	12	2.5	1	4	0	0	0	0	100	67
4000	0+00	66+41	A	16	12	2.5	1	4	0	0	0	0	100	67
4020	0+00	33+53	C	16	12	2.5	1	4	5	5	7	7	100	67
4020ext	0+00	6+20	C	16	12	2.5	1	4	5	5	7	7	100	67
4020ext	6+20	8+29	C	16	12	2.5	1	4	5	5	Tags	Tags	100	67
4020ext	8+29	16+82	C	16	12	2.5	1	4	5	5	7	7	100	67
Spur 1	0+00	10+30	C	16	12	2.5	1	4	0	0	0	0	100	67
Spur 2	0+00	7+40	C	16	12	2.5	1	4	0	0	0	0	100	67

ROCK LIST

BALLAST

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y. Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K2	B2				3 Inch Jaw Run	L	H	T
2510	10+10	11+10	1 ½ :1	8″	32	1.00	32	2510 Pit			
2510	110+29	116+73	1 ½ :1	8″	32	6.44	206	2510 Pit			
2510	124+61	133+47	1 ½ :1	8″	32	8.86	284	2510 Pit			
2510	145+58	147+06	1 ½ :1	8″	32	1.48	47	2510 Pit			
*4020	12+43	33+53	1 ½ :1	8″	32	21.10	675	2510 Pit			
4020ext	0+00	16+82	1 ½ :1	8″	32	16.82	538	2510 Pit			
*Spur 1	0+00	10+30	1 ½ :1	8″	32	10.30	330	2510 Pit			
*Spur 2	0+00	7+40	1 ½ :1	8″	32	7.40	237	2510 Pit			
			Quarry Spalls for culvert headwalls/energy dissipaters				18	2510 Pit			

OPTIONAL ROCK 1,242 Cubic Yards
REQUIRED ROCK 1,125 Cubic Yards
BALLAST TOTAL 2,367 Cubic Yards

*Optional Rock: If Purchaser elects to haul on optional rock roads in wet weather, the depth listed above is recommended but not required.

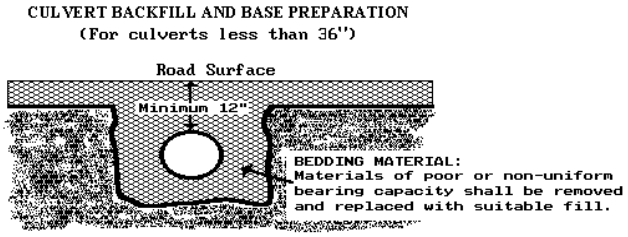
NOTE: Yardages are estimated on a compacted (In-Place) basis. Compliance of required rock will be based on compacted depth measurement.

CULVERT LIST

Road Number	Location	Culvert Dia.	Culvert Type	Length (ft) Culvert	Length (ft) Downspt	Length (ft) Flume	Riprap (C.Y.) Inlet	Riprap (C.Y.) Outlet	Riprap (C.Y.) Type	Backfill Material	Placement Method	Const. Staked	Remarks
4020ext	4+08	18	PD	32			0.5	0.5					
	7+38	36	PD	36			2	2					
	8+41	24	PD	38			1	1					
	9+38	24	PD	30			1	1					
	11+01	24	PD	42			1	1					
	13+37	18	PD	32			0.5	0.5					
	15+25	24	PD	32			1	1					
	15+74	24	PD	40			1	1					
Spur 1	6+32	18	TEMP	32									
Spur 2	1+26	18	PD	40			0.5	0.5					Install across spur & 2540 Rd Junction
2540	9+99						1						Install Headwall

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

TEMP = Temporary Culvert



Key:

QS - Quarry Spalls
SR - Shot Rock
NT - Native (bank run)
SL - Select Fill
HL - Heavy Loose Riprap
LL - Light Loose Riprap
Flume - Half round pipe
Downspout - Full round pipe

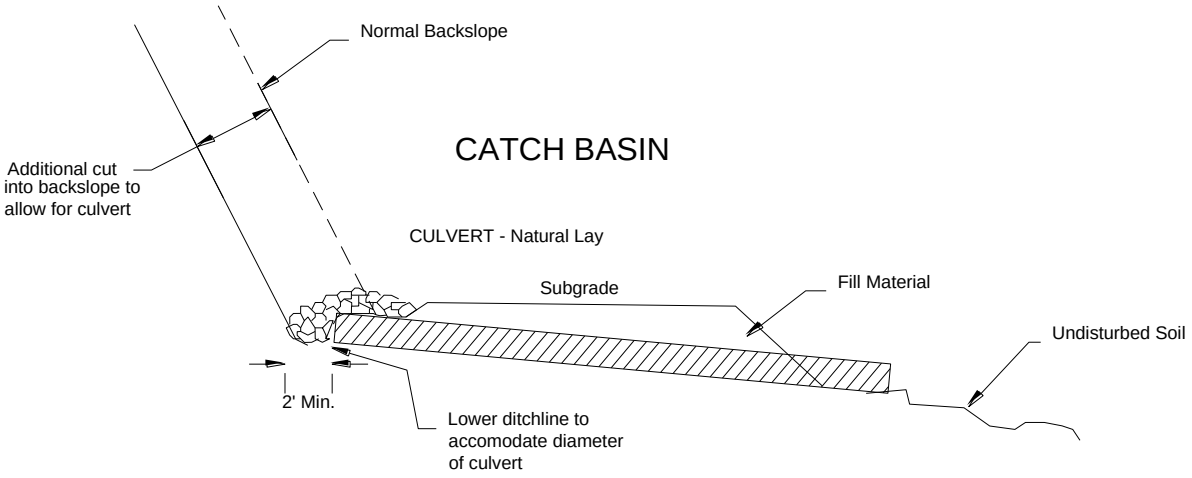
Legal Description: SW ¼ SW ¼ Sec 2 T24N R03W
Rock Pit Name: 2510 Pit

PIT DEVELOPMENT PLAN

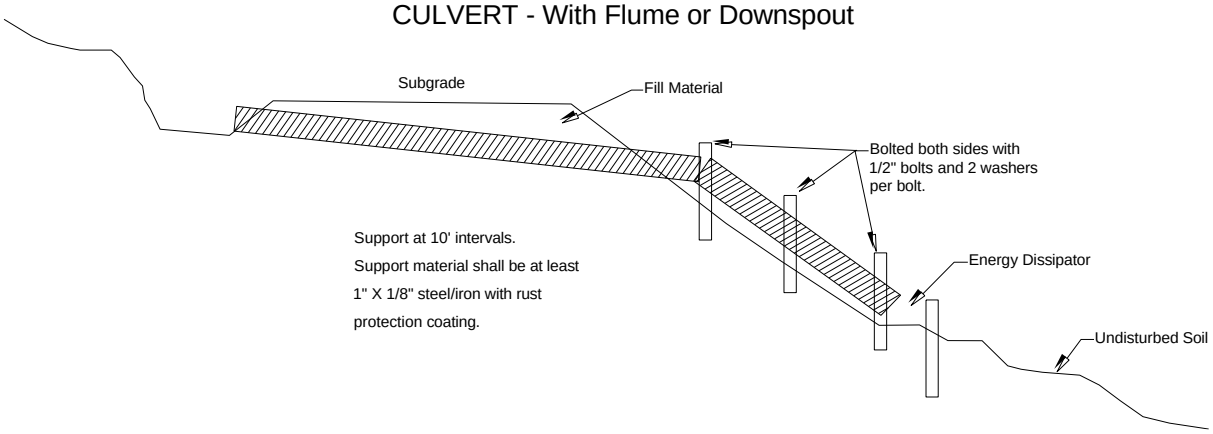
1. Scatter root wads and organic debris larger than one cubic foot in volume as directed by the Contract Administrator.
2. A minimum stripping width of 20 feet must be maintained from all pit faces and at the termination of operations pit shall be left in said condition.
3. Pile all reject rock and overburden away from pit working area as shown.
4. Pit floor shall be sloped to allow drainage as shown. No ponding will be allowed.
5. Maximum face height shall not exceed 30 feet in height.
6. Pit face shall have a maximum backslope of 1/4:1.
7. Working bench width shall be a minimum of 25 feet.
8. At the completion of operations, Contractor shall request written approval from the Contract Administrator for final rock source condition and compliance with the terms of this plan.
9. Quantity and Quality of ballast pit is not guaranteed by the State.

CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 1 of 3)



CULVERT - With Flume or Downspout

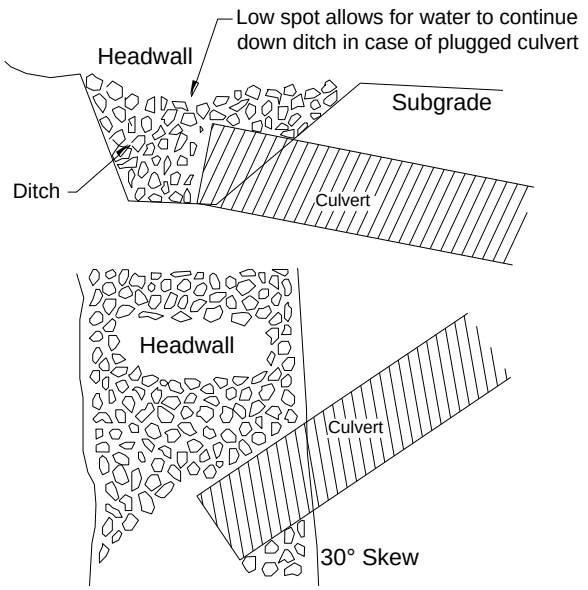


CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 2 of 3)

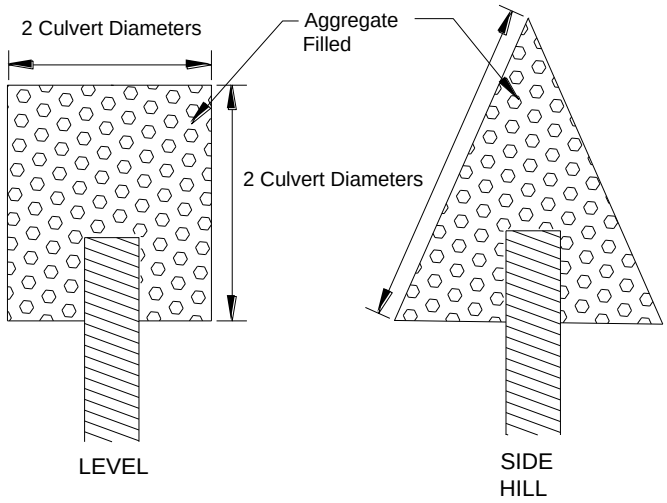
Proper preparation of foundation and placement of bedding material shall precede the installation of all culvert pipe. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform dense unyielding base. The backfill material shall be placed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

HEADWALLS



Headwalls to be constructed of material that will resist erosion.

ENERGY DISSIPATORS



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

CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 3 of 3)

POLYETHYLENE PIPE INSTALLATION

INSTALLATION REQUIREMENTS:

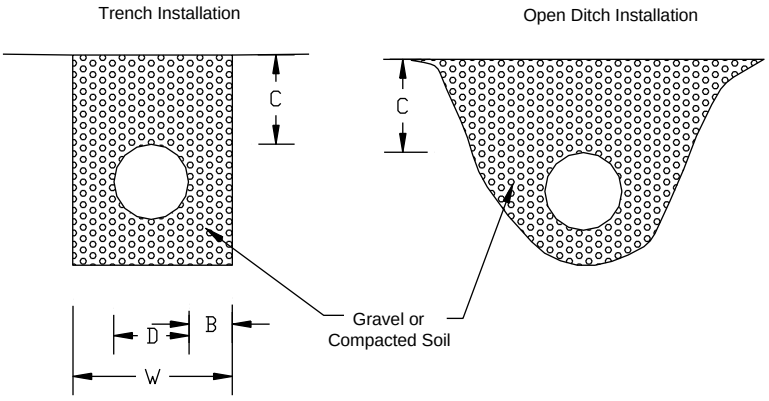
1. Crushed stone, gravel, or compacted soil backfill material shall be used as the bedding and envelope material around the culvert. The aggregate size shall not exceed 1/6 pipe diameter or 4" diameter, whichever is smaller.

2. The corrugated pipe shall be laid on grade, on a layer of bedding material as shown for the two types of installations. If native soil is used as the bedding and backfill material, it shall be well compacted in six inch layers under the haunches, around the sides and above the pipe to the recommended minimum height of cover.

3. Either crushed aggregate or flexible (asphalt) pavement may be laid as part of the minimum cover requirements.

4. Site conditions and availability of bedding materials often dictate the type of installation method used.

5. The load bearing capability of flexible conduits is dependent on the type of backfill material used and the degree of compaction achieved. Crushed stone and gravel backfill materials typically reach a compaction level of 90-95% AASHTO standard density without compaction. When native soils are used as backfill material, a compaction level of 85% is required. This minimum compaction can be achieved by either hand or mechanical tamping.



MINIMUM DIMENSIONS

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

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Cuts and Fills

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

Surface

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

Drainage

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

Preventative Maintenance

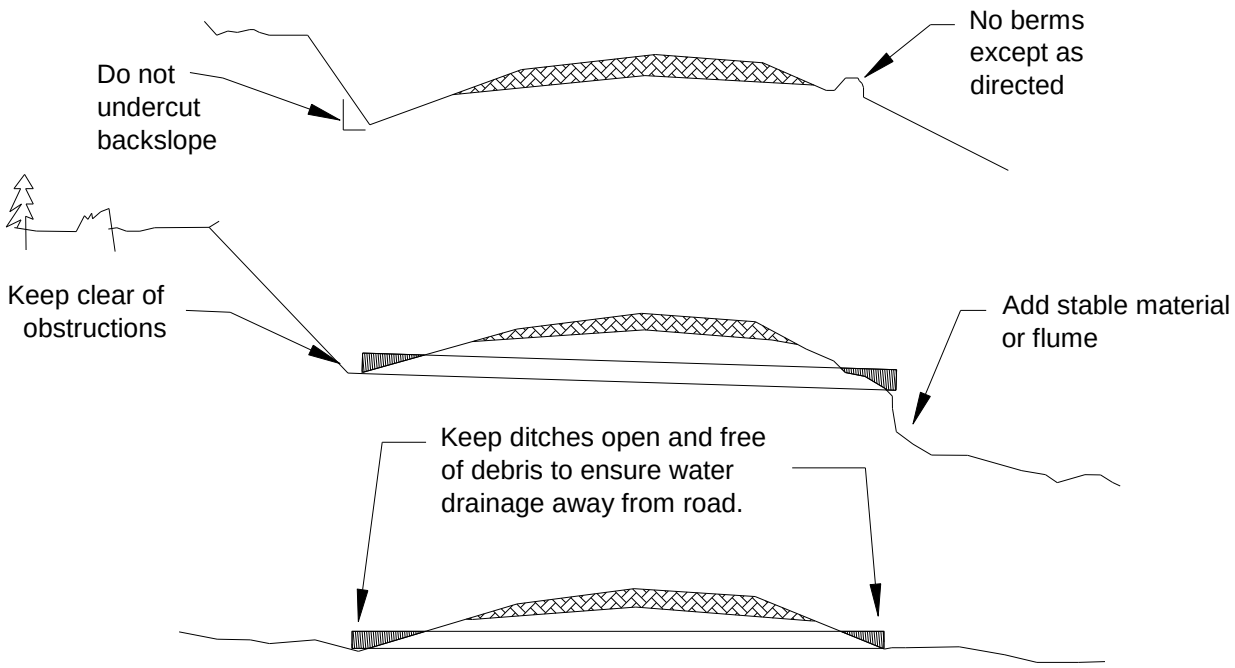
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

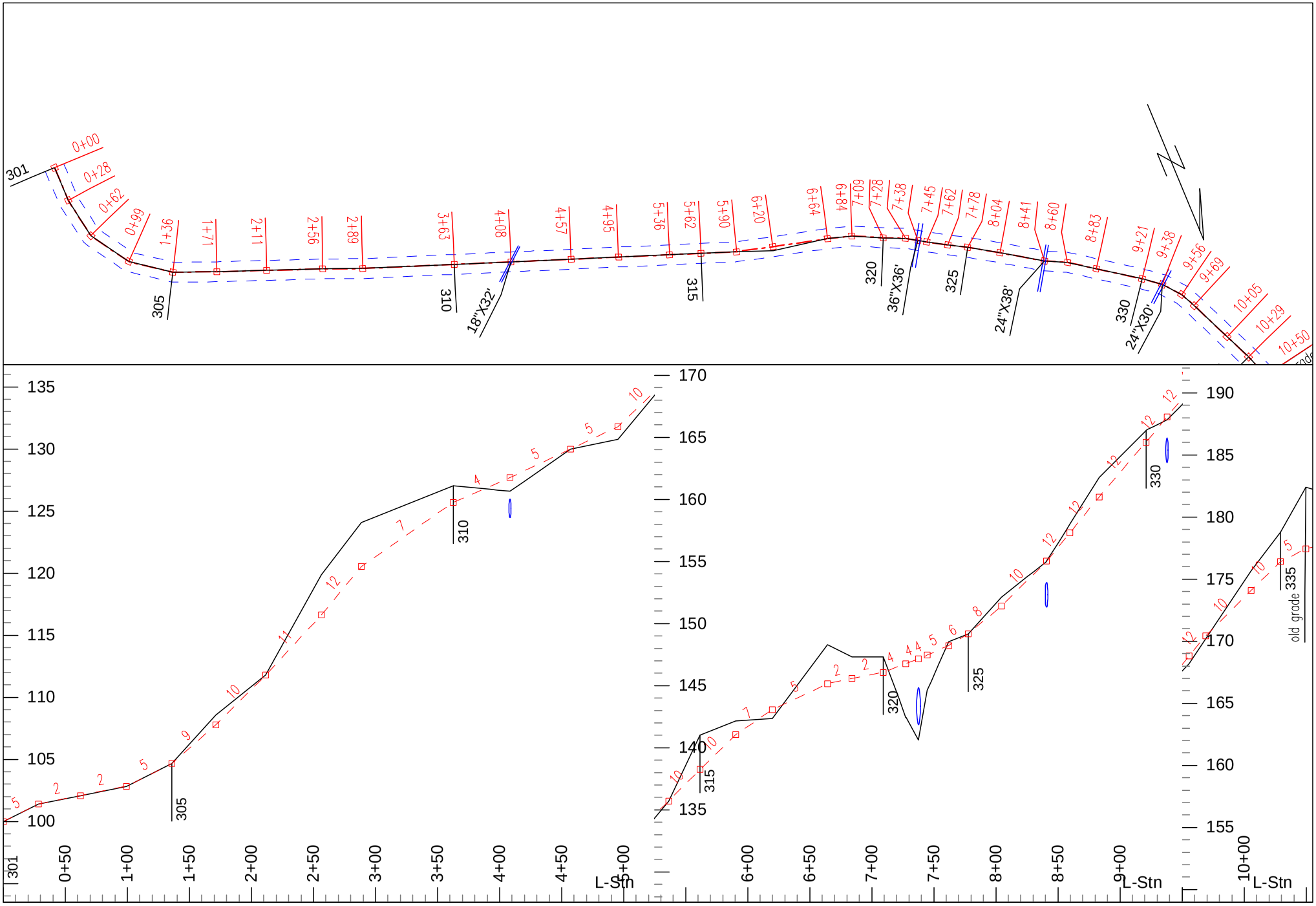
Termination of Use or End of Season

- 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.


No berms
except as
directed
Do not
undercut
backslope
Keep clear of
obstructions
Add stable material
or flume
Keep ditches open and free
of debris to ensure water
drainage away from road.



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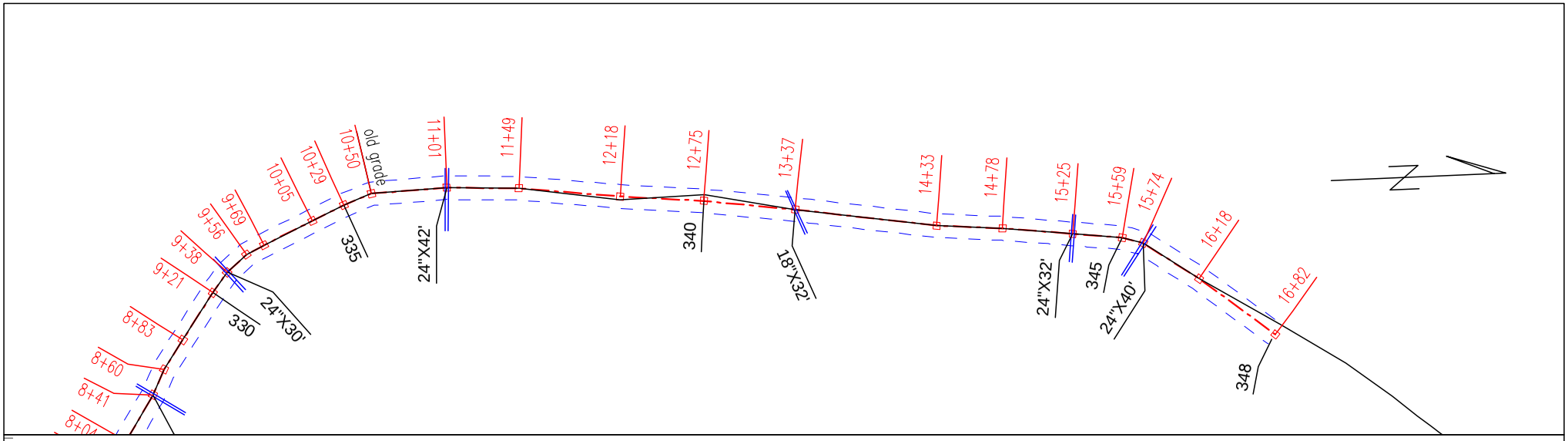
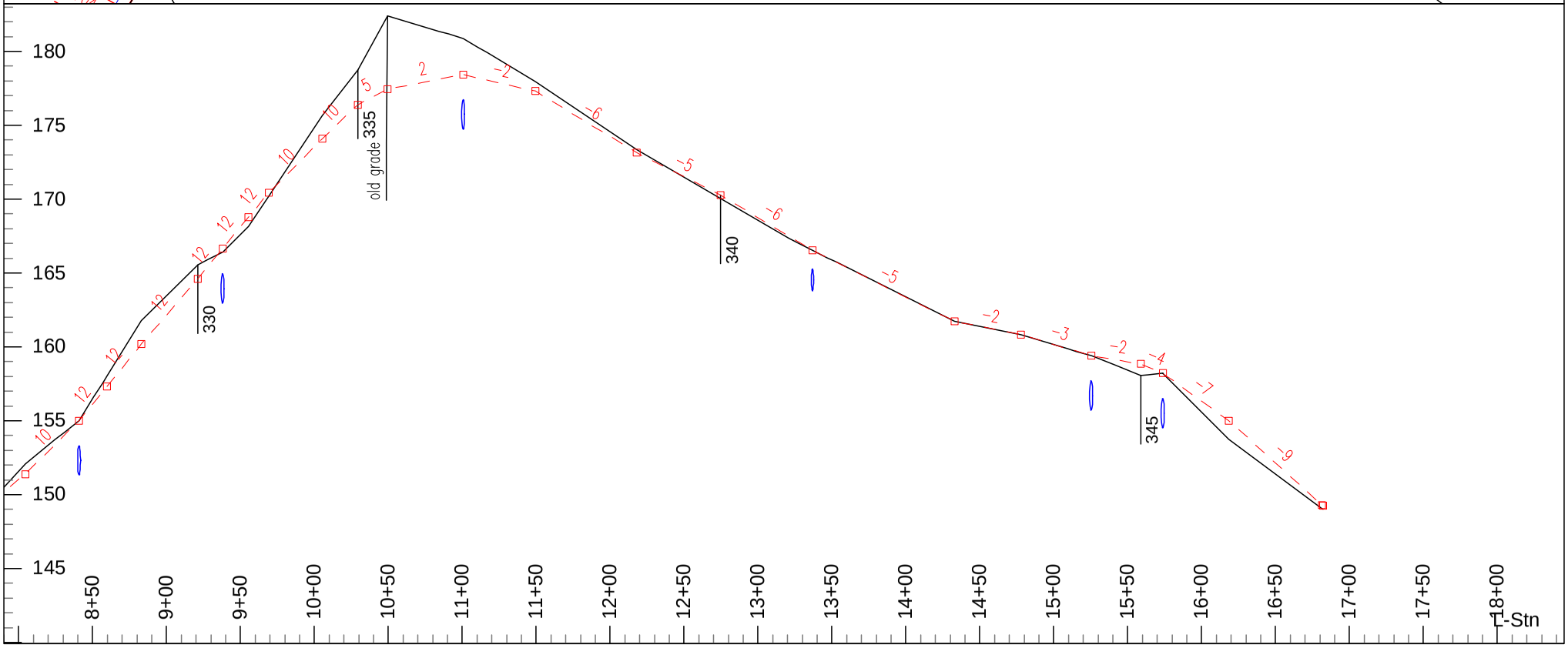
30-097375

Webb Timber Sale 4020ext Contract #: 30-097375	WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
Plan Scale 1:1200 Profile Vert Scale 1:120 Profile Horz Scale 1:1200	Engineer: Heymann 19/08/27 Page 1 of 2





Webb Timber Sale
4020ext
Contract #: 30-097375

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

Plan Scale 1:1200
Profile Vert Scale 1:120
Profile Horz Scale 1:1200

Engineer: Heymann
19/08/27
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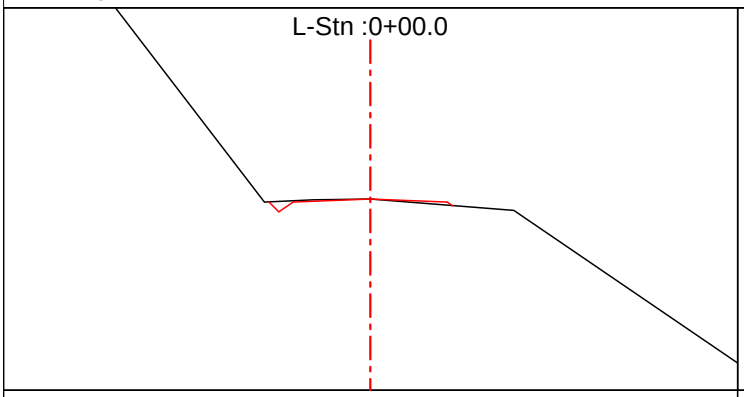
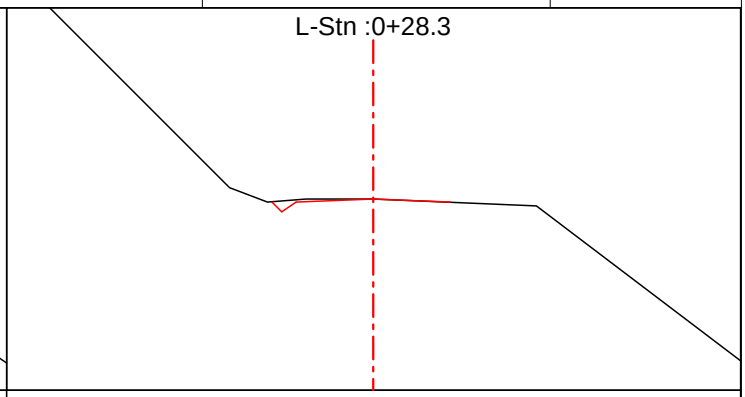
L-Stn :0+00.0



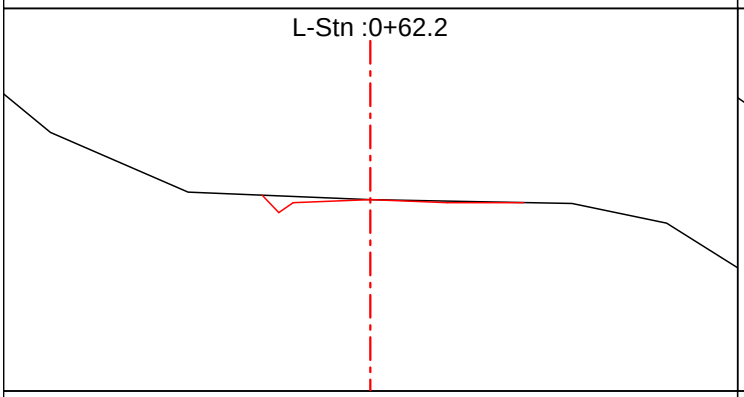
P-Stn :	0+00.0	Cut Dp:	0.0	CL Elev:	100.0
V.Offset:	0.0	H. Offset:	0.0	Index:	301

L-Stn :0+28.3



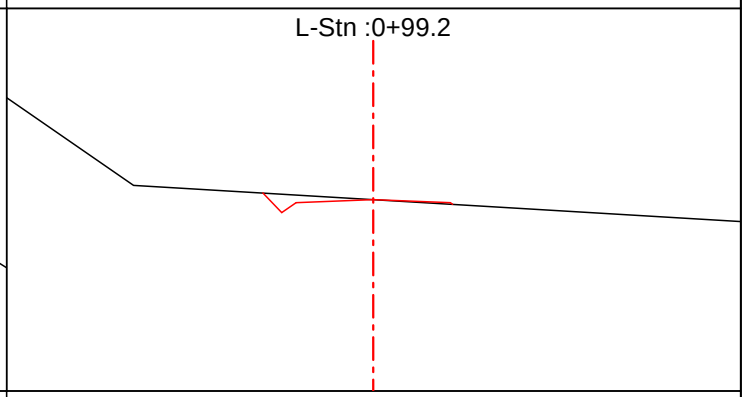
P-Stn :	0+28.3	Cut Dp:	0.0	CL Elev:	101.4
V.Offset:	0.0	H. Offset:	0.0	Index:	302

L-Stn :0+62.2



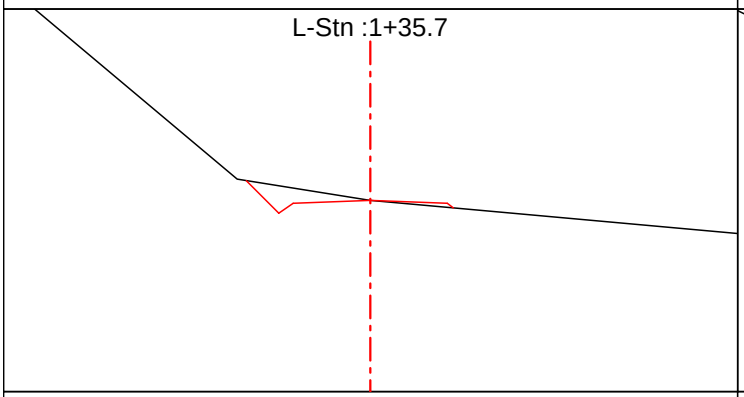
P-Stn :	0+62.2	Cut Dp:	0.0	CL Elev:	102.1
V.Offset:	0.0	H. Offset:	0.0	Index:	303

L-Stn :0+99.2



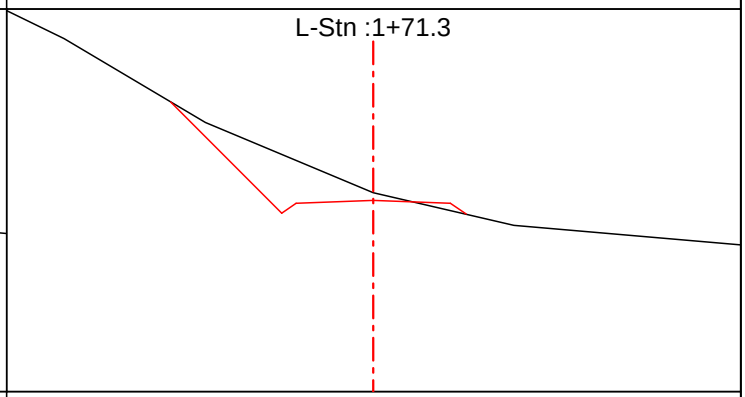
P-Stn :	0+99.2	Cut Dp:	0.0	CL Elev:	102.8
V.Offset:	0.0	H. Offset:	0.0	Index:	304

L-Stn :1+35.7



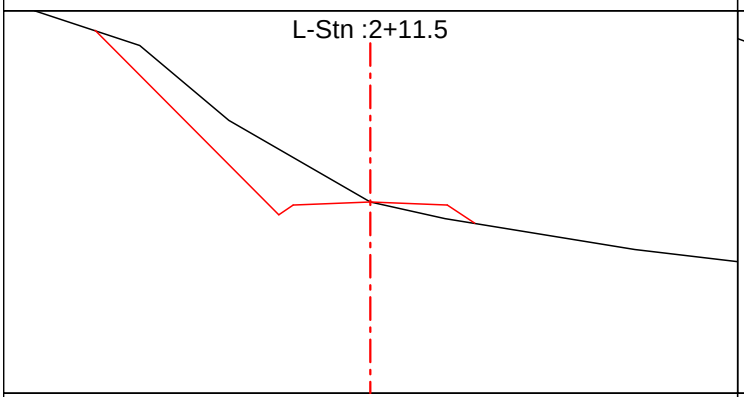
P-Stn :	1+35.7	Cut Dp:	0.0	CL Elev:	104.7
V.Offset:	0.0	H. Offset:	0.0	Index:	305

L-Stn :1+71.3



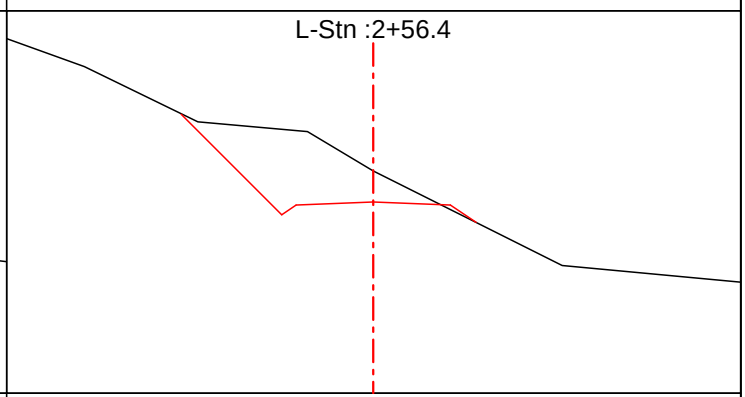
P-Stn :	1+71.3	Cut Dp:	0.8	CL Elev:	107.8
V.Offset:	-0.8	H. Offset:	0.0	Index:	306

L-Stn :2+11.5



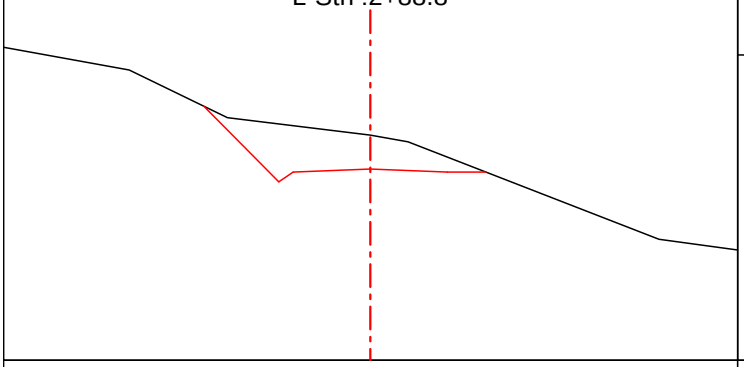
P-Stn :	2+11.5	Cut Dp:	0.0	CL Elev:	111.8
V.Offset:	0.0	H. Offset:	0.0	Index:	307

L-Stn :2+56.4



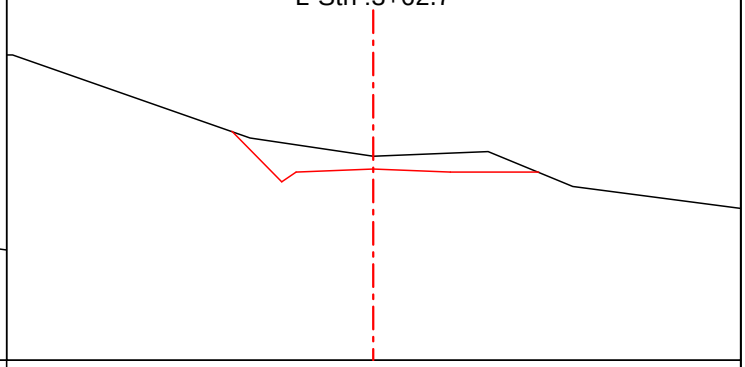
P-Stn :	2+56.4	Cut Dp:	3.2	CL Elev:	116.7
V.Offset:	-3.2	H. Offset:	0.0	Index:	308

L-Stn :2+88.8



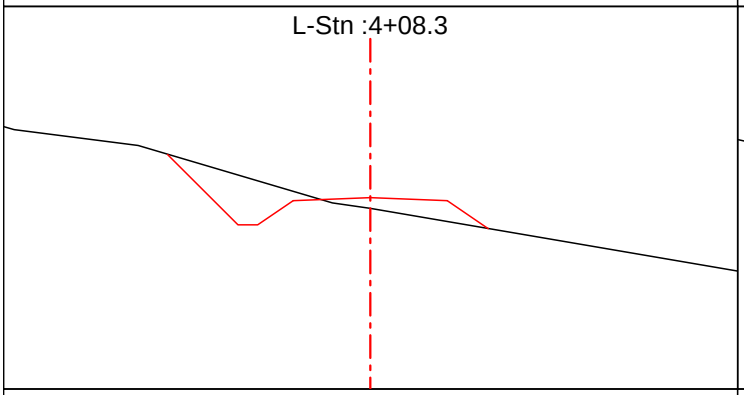
P-Stn :	2+88.8	Cut Dp:	3.5	CL Elev:	120.5
V.Offset:	-3.5	H. Offset:	0.0	Index:	309

L-Stn :3+62.7



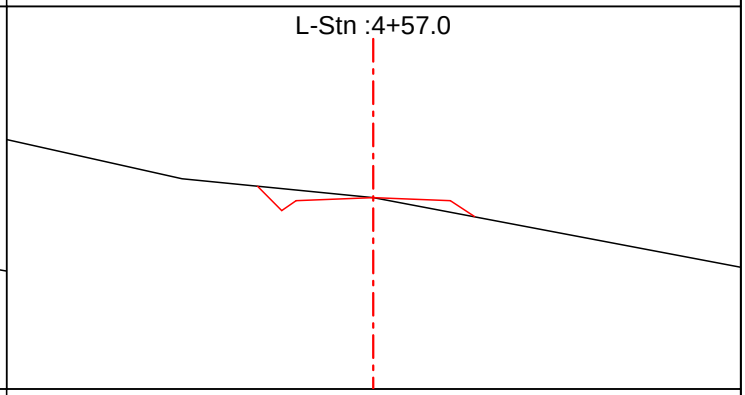
P-Stn :	3+62.7	Cut Dp:	1.3	CL Elev:	125.7
V.Offset:	-1.3	H. Offset:	0.0	Index:	310

L-Stn :4+08.3



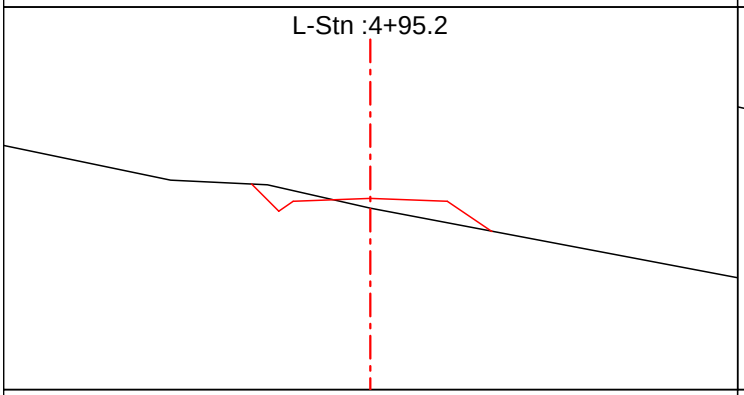
P-Stn :	4+08.3	Cut Dp:	-1.1	CL Elev:	127.7
V.Offset:	1.1	H. Offset:	0.0	Index:	311

L-Stn :4+57.0



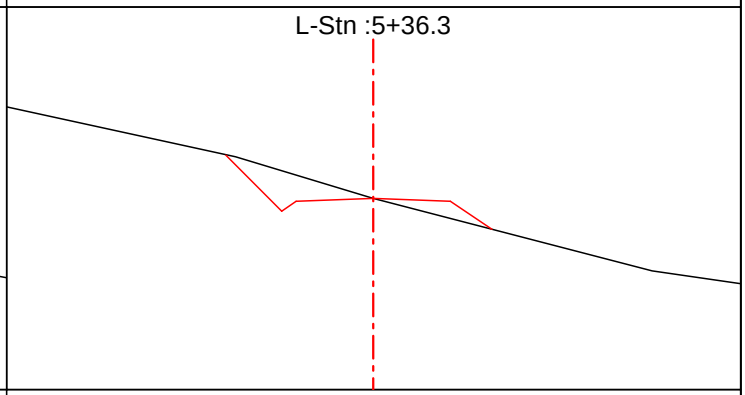
P-Stn :	4+57.0	Cut Dp:	0.0	CL Elev:	130.0
V.Offset:	0.0	H. Offset:	0.0	Index:	312

L-Stn :4+95.2



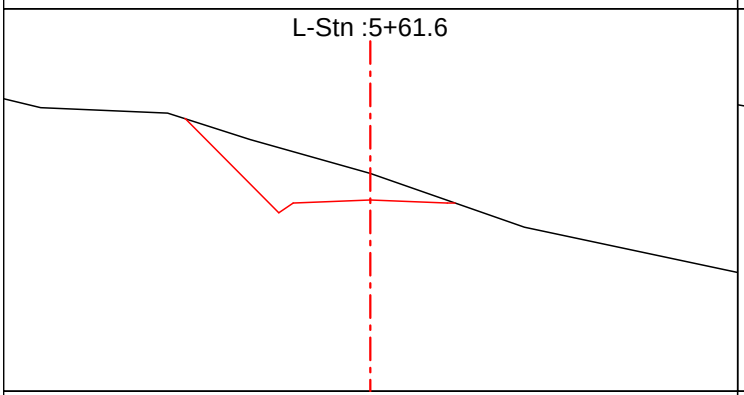
P-Stn :	4+95.2	Cut Dp:	-1.0	CL Elev:	131.8
V.Offset:	1.0	H. Offset:	0.0	Index:	313

L-Stn :5+36.3



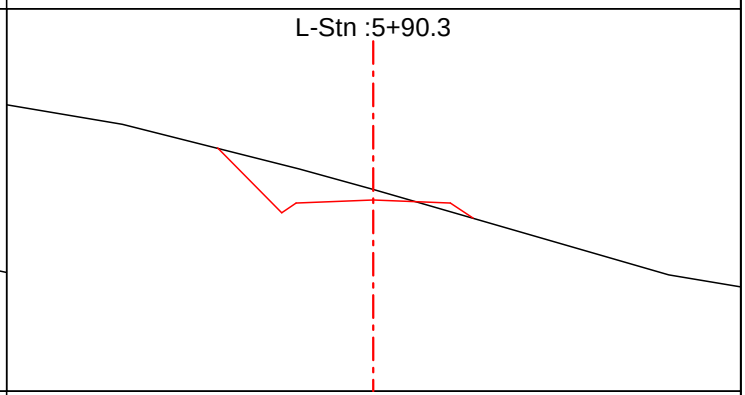
P-Stn :	5+36.3	Cut Dp:	0.0	CL Elev:	135.7
V.Offset:	0.0	H. Offset:	0.0	Index:	314

L-Stn :5+61.6



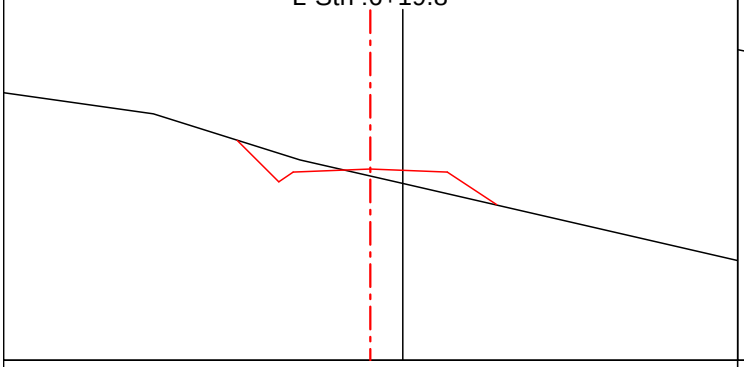
P-Stn :	5+61.6	Cut Dp:	2.8	CL Elev:	138.3
V.Offset:	-2.8	H. Offset:	0.0	Index:	315

L-Stn :5+90.3



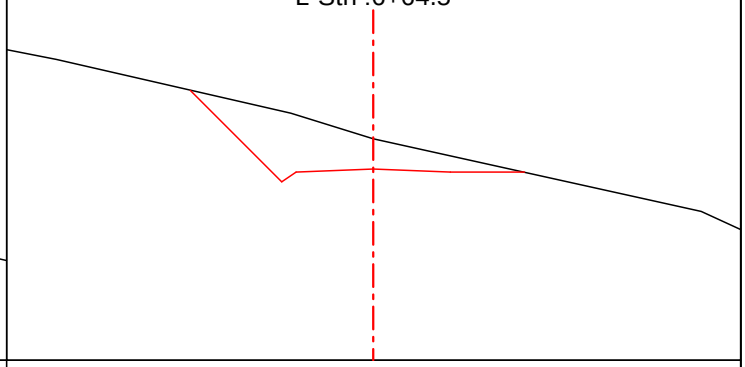
P-Stn :	5+90.3	Cut Dp:	1.1	CL Elev:	141.1
V.Offset:	-1.1	H. Offset:	0.0	Index:	316

L-Stn :6+19.8



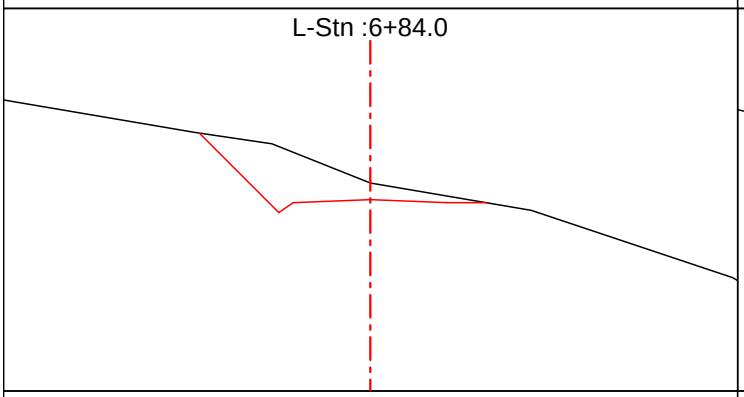
P-Stn :	6+19.9	Cut Dp:	-0.7	CL Elev:	143.1
V.Offset:	1.5	H. Offset:	-3.4	Index:	317

L-Stn :6+64.5



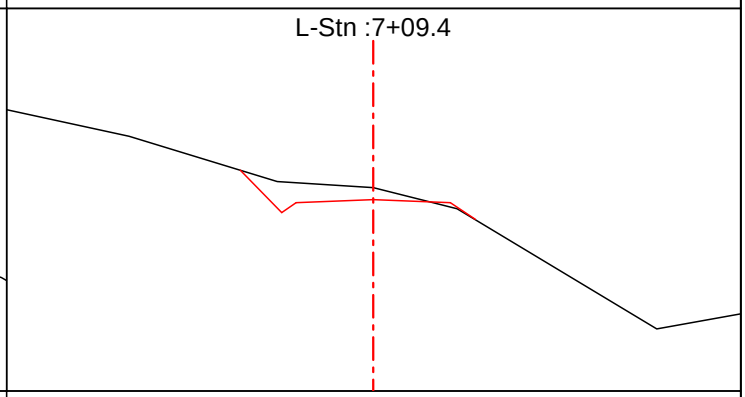
P-Stn :	6+64.8	Cut Dp:	3.1	CL Elev:	145.2
V.Offset:	-3.1	H. Offset:	0.0	Index:	318

L-Stn :6+84.0



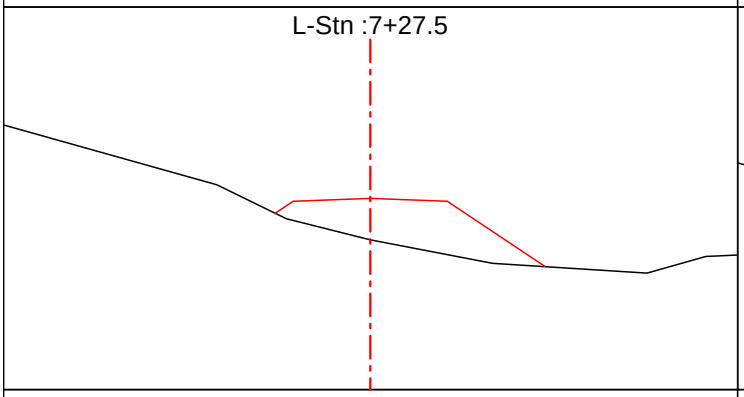
P-Stn :	6+84.4	Cut Dp:	1.7	CL Elev:	145.6
V.Offset:	-1.7	H. Offset:	0.0	Index:	319

L-Stn :7+09.4



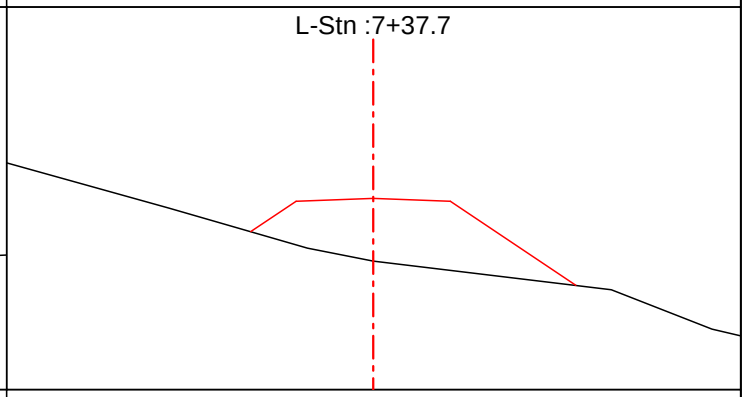
P-Stn :	7+09.8	Cut Dp:	1.3	CL Elev:	146.1
V.Offset:	-1.3	H. Offset:	0.0	Index:	320

L-Stn :7+27.5



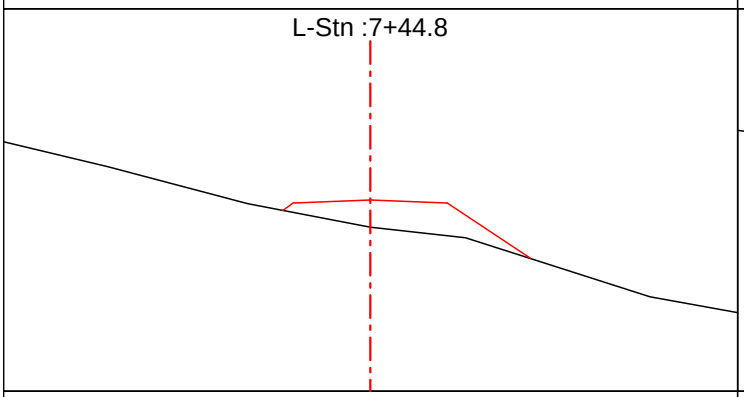
P-Stn :	7+27.8	Cut Dp:	-4.3	CL Elev:	146.8
V.Offset:	4.3	H. Offset:	0.0	Index:	321

L-Stn :7+37.7



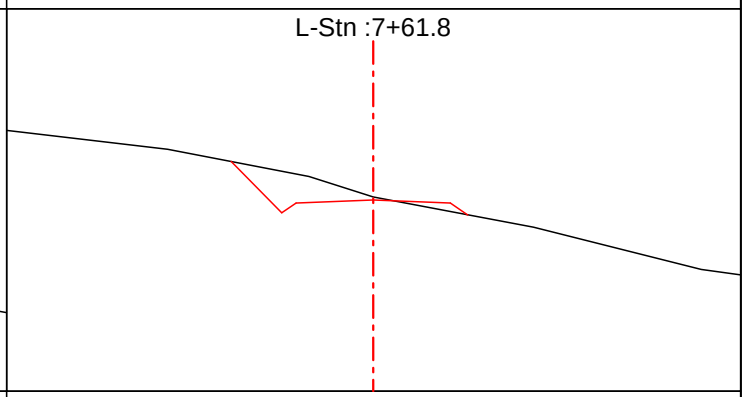
P-Stn :	7+38.1	Cut Dp:	-6.5	CL Elev:	147.1
V.Offset:	6.5	H. Offset:	0.0	Index:	322

L-Stn :7+44.8



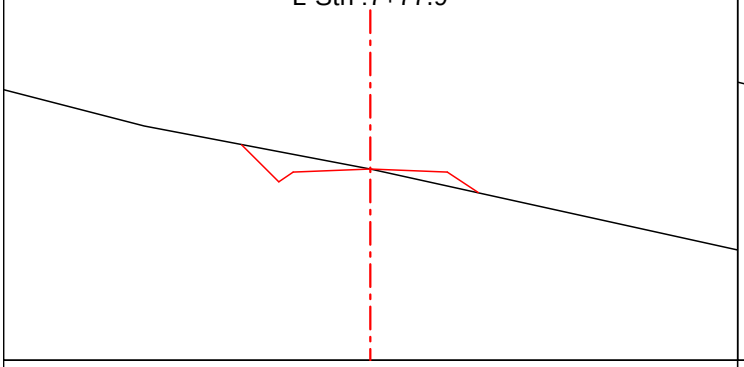
P-Stn :	7+45.1	Cut Dp:	-2.8	CL Elev:	147.5
V.Offset:	2.8	H. Offset:	0.0	Index:	323

L-Stn :7+61.8



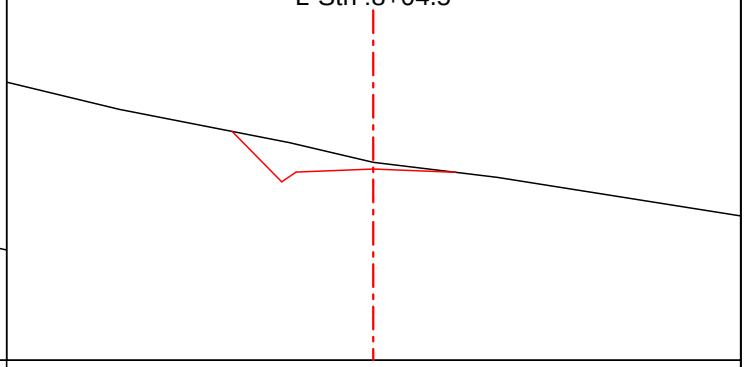
P-Stn :	7+62.2	Cut Dp:	0.3	CL Elev:	148.2
V.Offset:	-0.3	H. Offset:	0.0	Index:	324

L-Stn :7+77.9



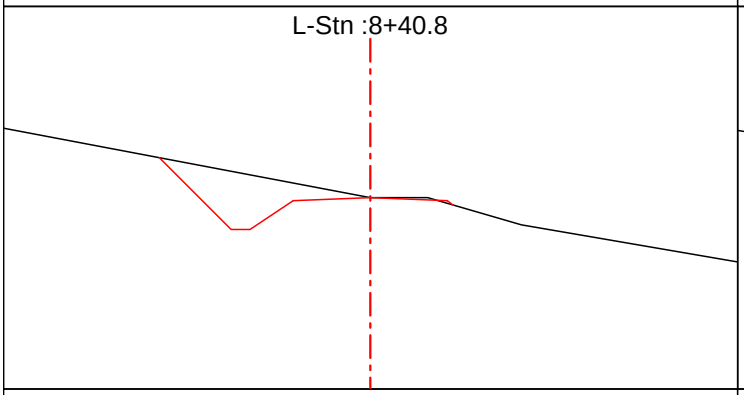
P-Stn :	7+78.2	Cut Dp:	0.0	CL Elev:	149.2
V.Offset:	0.0	H. Offset:	0.0	Index:	325

L-Stn :8+04.5



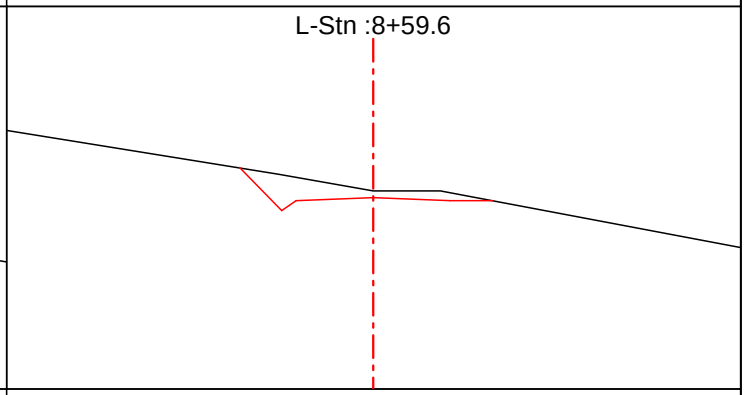
P-Stn :	8+04.8	Cut Dp:	0.7	CL Elev:	151.4
V.Offset:	-0.7	H. Offset:	0.0	Index:	326

L-Stn :8+40.8



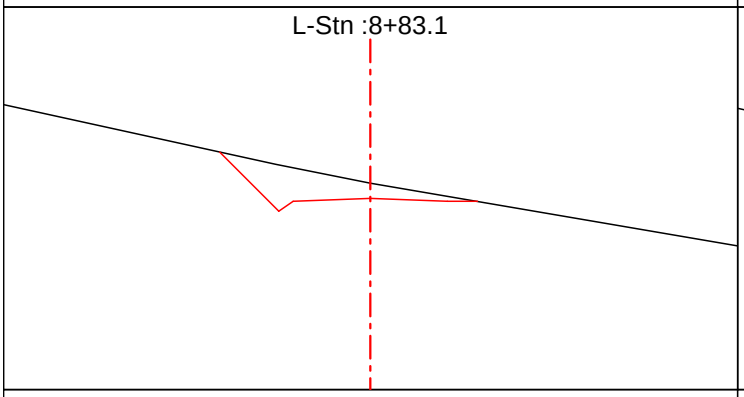
P-Stn :	8+41.2	Cut Dp:	0.0	CL Elev:	155.0
V.Offset:	0.0	H. Offset:	0.0	Index:	327

L-Stn :8+59.6



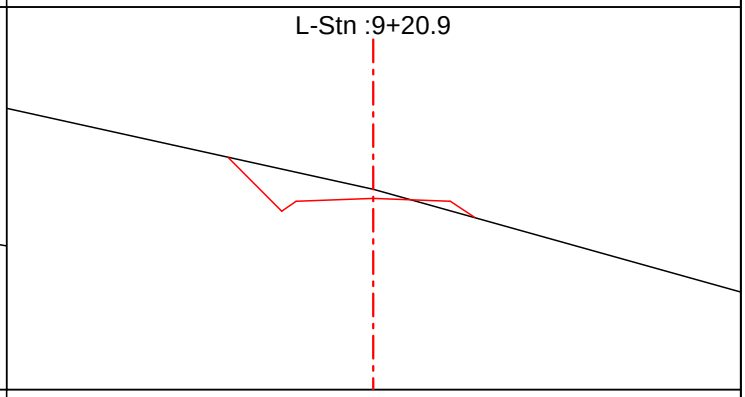
P-Stn :	8+59.9	Cut Dp:	0.7	CL Elev:	157.3
V.Offset:	-0.7	H. Offset:	0.0	Index:	328

L-Stn :8+83.1



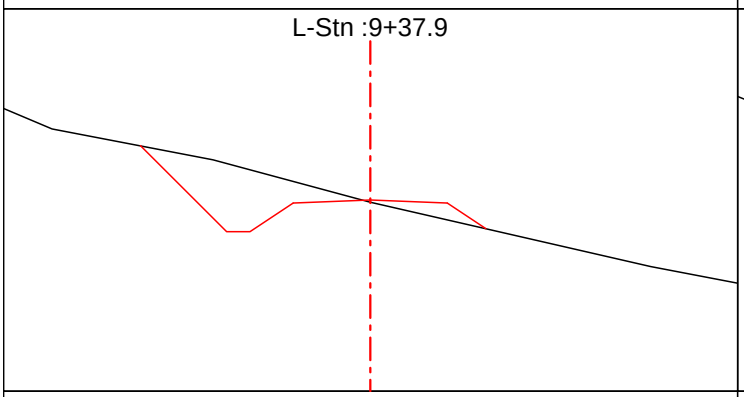
P-Stn :	8+83.4	Cut Dp:	1.6	CL Elev:	160.2
V.Offset:	-1.6	H. Offset:	0.0	Index:	329

L-Stn :9+20.9



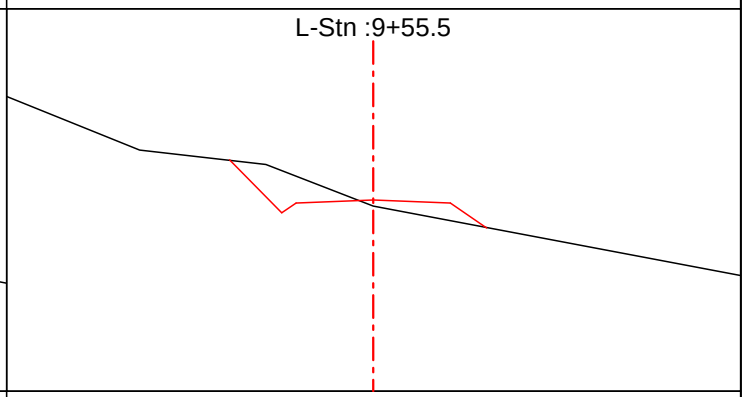
P-Stn :	9+21.2	Cut Dp:	0.9	CL Elev:	164.6
V.Offset:	-0.9	H. Offset:	0.0	Index:	330

L-Stn :9+37.9



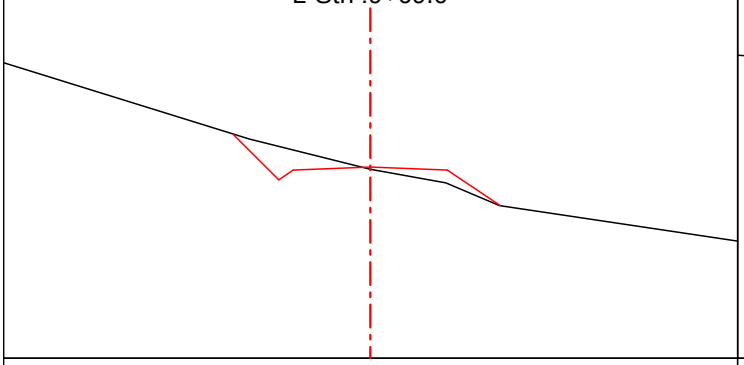
P-Stn :	9+38.2	Cut Dp:	-0.2	CL Elev:	166.6
V.Offset:	0.2	H. Offset:	0.0	Index:	331

L-Stn :9+55.5



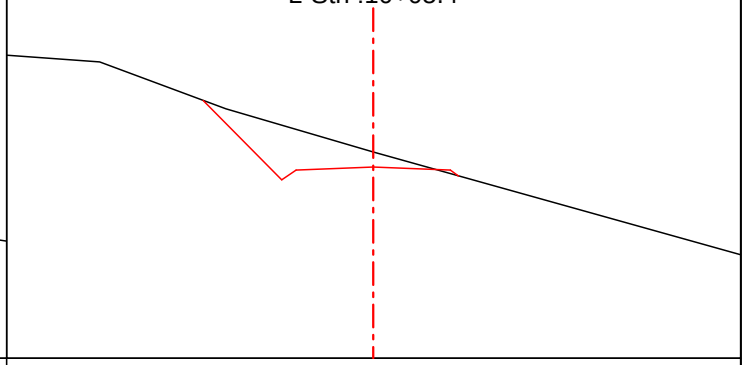
P-Stn :	9+55.8	Cut Dp:	-0.6	CL Elev:	168.8
V.Offset:	0.6	H. Offset:	0.0	Index:	332

L-Stn :9+69.0



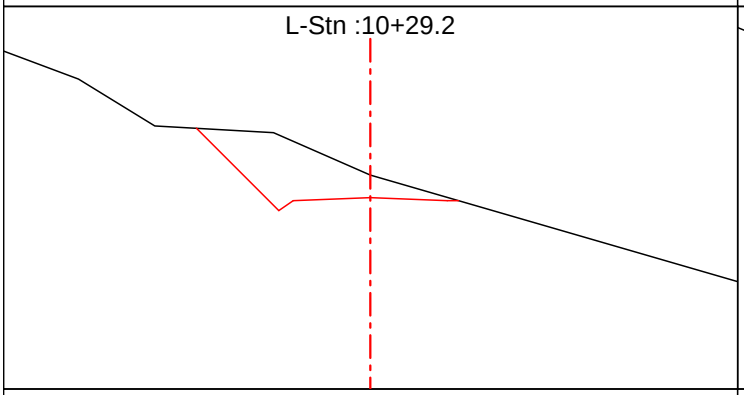
P-Stn :	9+69.3	Cut Dp:	-0.2	CL Elev:	170.4
V.Offset:	0.2	H. Offset:	0.0	Index:	333

L-Stn :10+05.4



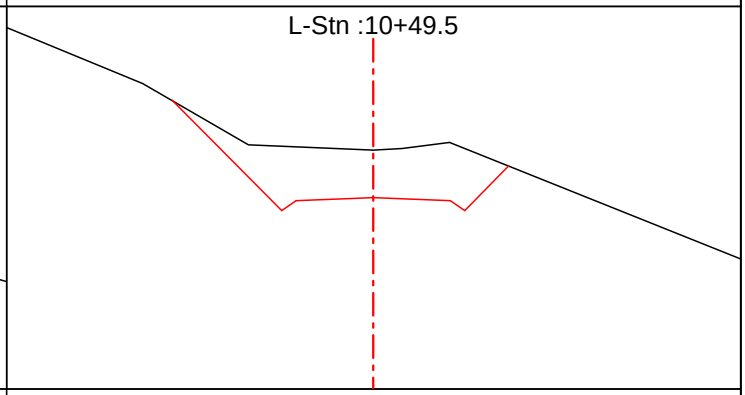
P-Stn :	10+05.8	Cut Dp:	1.6	CL Elev:	174.1
V.Offset:	-1.6	H. Offset:	0.0	Index:	334

L-Stn :10+29.2



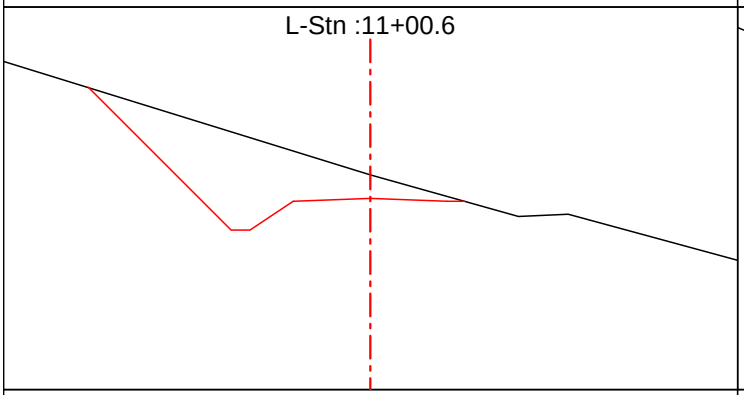
P-Stn :	10+29.6	Cut Dp:	2.4	CL Elev:	176.4
V.Offset:	-2.4	H. Offset:	0.0	Index:	335

L-Stn :10+49.5



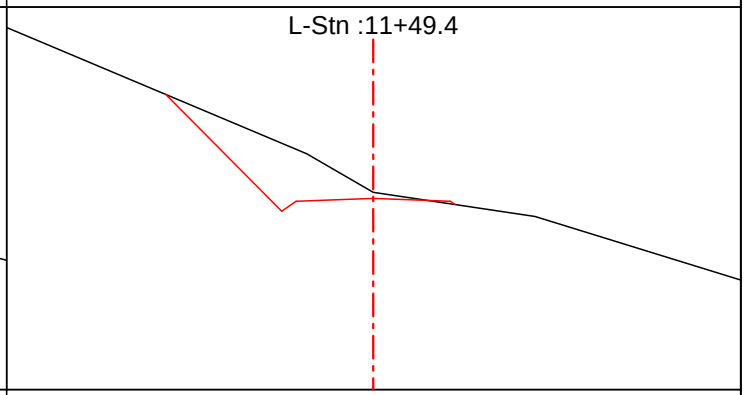
P-Stn :	10+49.8	Cut Dp:	5.0	CL Elev:	177.4
V.Offset:	-5.0	H. Offset:	0.0	Index:	336

L-Stn :11+00.6



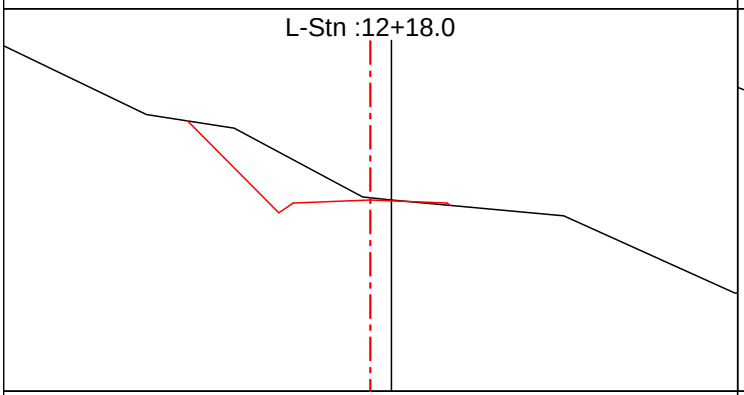
P-Stn :	11+00.9	Cut Dp:	2.4	CL Elev:	178.4
V.Offset:	-2.4	H. Offset:	0.0	Index:	337

L-Stn :11+49.4



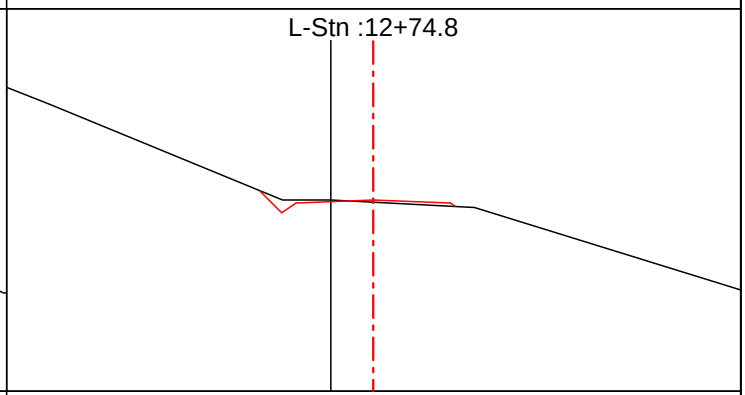
P-Stn :	11+49.7	Cut Dp:	0.6	CL Elev:	177.3
V.Offset:	-0.6	H. Offset:	0.0	Index:	338

L-Stn :12+18.0



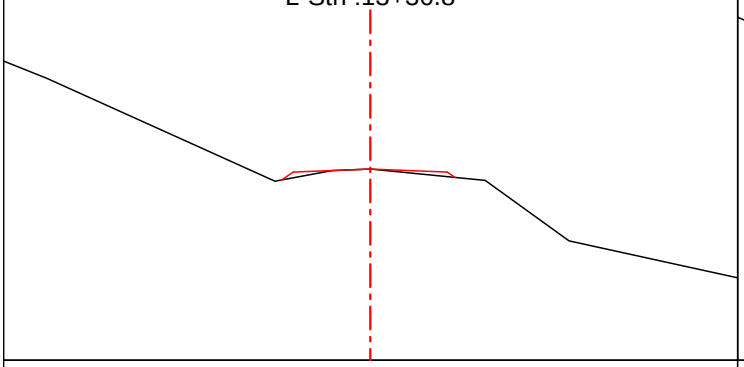
P-Stn :	12+18.5	Cut Dp:	0.2	CL Elev:	173.1
V.Offset:	0.0	H. Offset:	-2.2	Index:	339

L-Stn :12+74.8



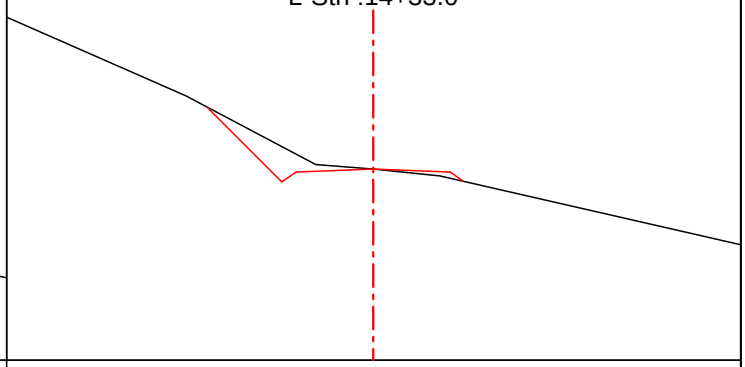
P-Stn :	12+75.6	Cut Dp:	-0.2	CL Elev:	170.3
V.Offset:	0.0	H. Offset:	4.4	Index:	340

L-Stn :13+36.8



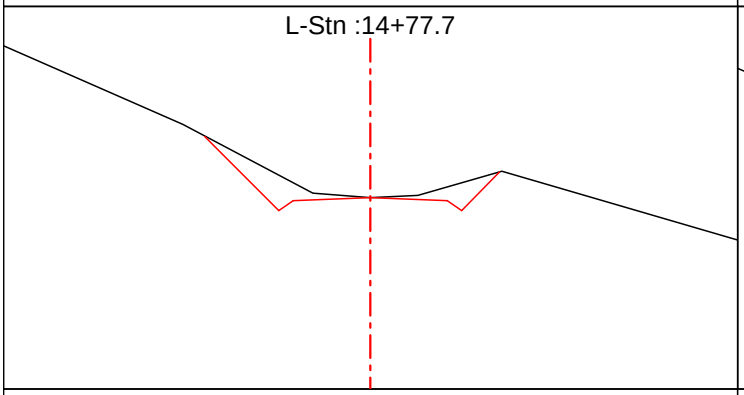
P-Stn :	13+38.0	Cut Dp:	0.0	CL Elev:	166.5
V.Offset:	0.0	H. Offset:	0.0	Index:	341

L-Stn :14+33.0



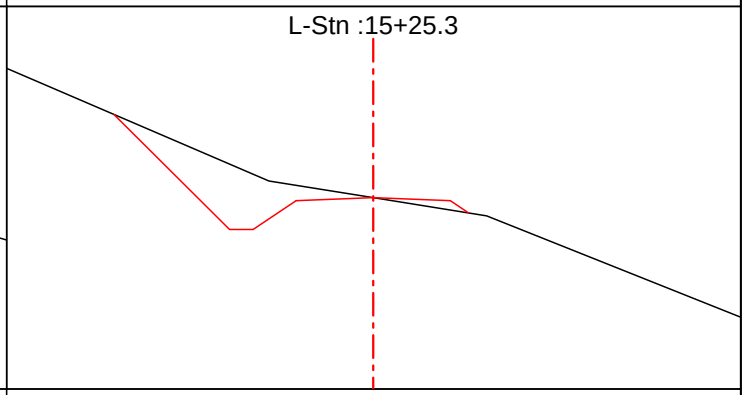
P-Stn :	14+34.2	Cut Dp:	0.0	CL Elev:	161.7
V.Offset:	0.0	H. Offset:	0.0	Index:	342

L-Stn :14+77.7



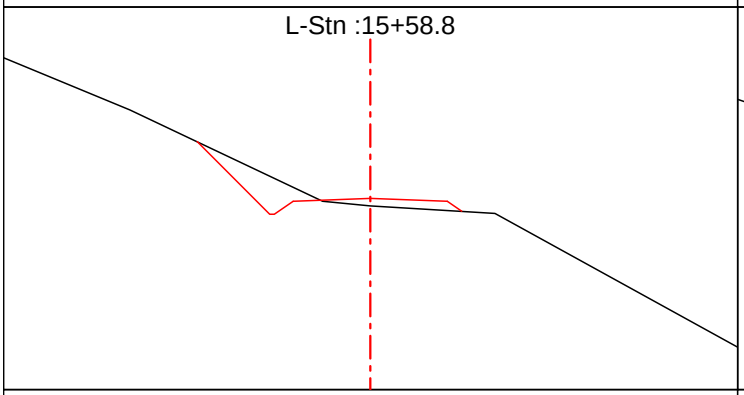
P-Stn :	14+78.9	Cut Dp:	0.0	CL Elev:	160.8
V.Offset:	0.0	H. Offset:	0.0	Index:	343

L-Stn :15+25.3



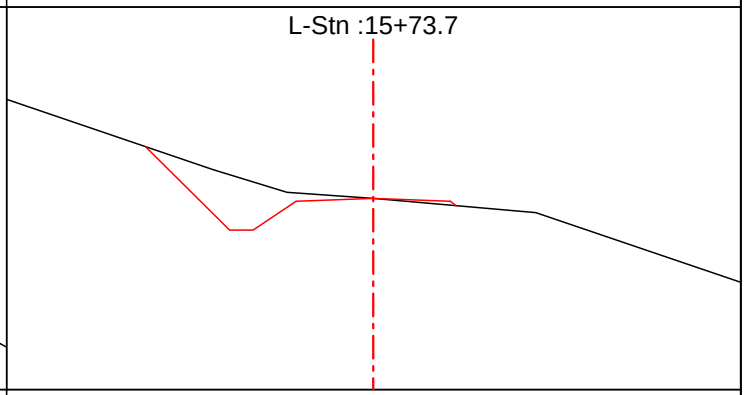
P-Stn :	15+26.4	Cut Dp:	0.0	CL Elev:	159.4
V.Offset:	0.0	H. Offset:	0.0	Index:	344

L-Stn :15+58.8



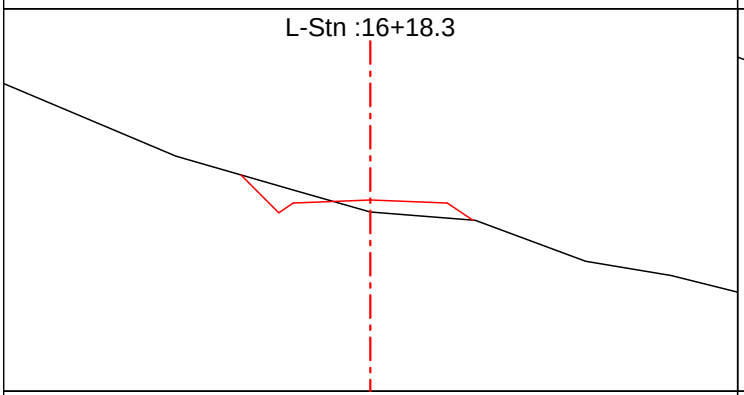
P-Stn :	15+59.9	Cut Dp:	-0.8	CL Elev:	158.8
V.Offset:	0.8	H. Offset:	0.0	Index:	345

L-Stn :15+73.7



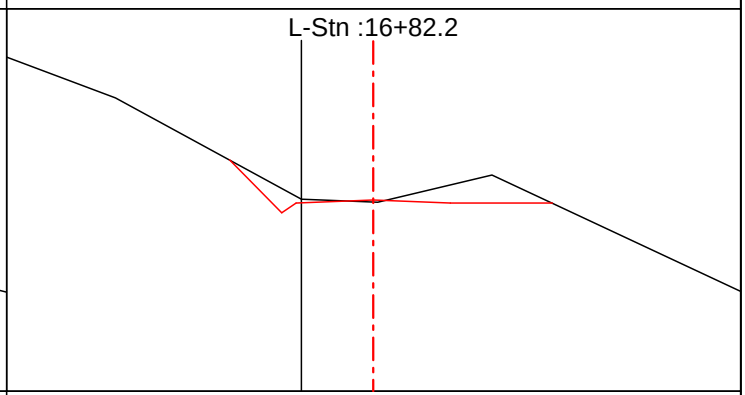
P-Stn :	15+74.8	Cut Dp:	0.0	CL Elev:	158.2
V.Offset:	0.0	H. Offset:	0.0	Index:	346

L-Stn :16+18.3

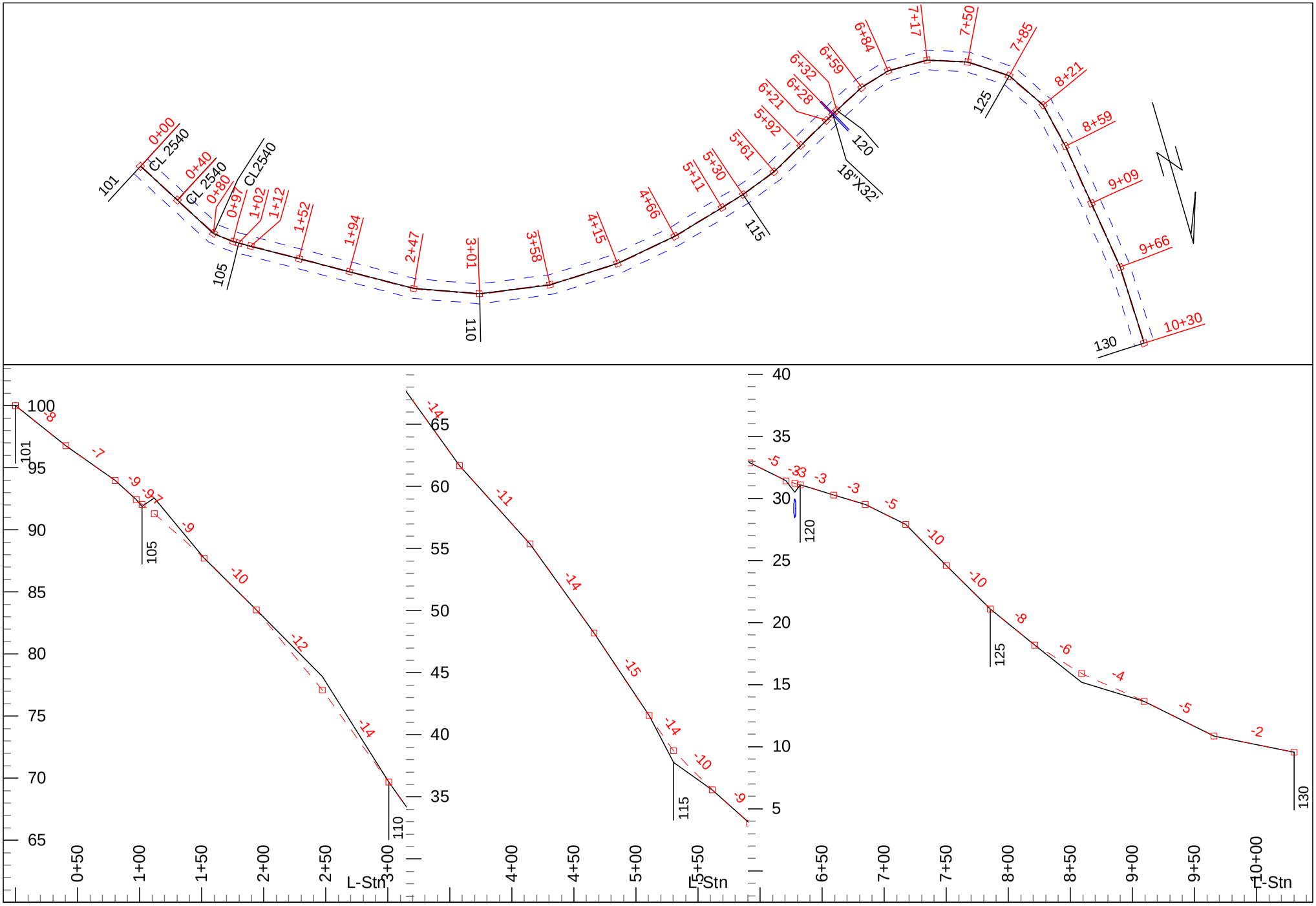


P-Stn :	16+19.5	Cut Dp:	-1.3	CL Elev:	155.0
V.Offset:	1.3	H. Offset:	0.0	Index:	347

L-Stn :16+82.2



P-Stn :	16+82.9	Cut Dp:	-0.3	CL Elev:	149.3
V.Offset:	0.0	H. Offset:	7.5	Index:	348



Webb Timber Sale Spur 1 Contracr #: 30-097375	WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES	Plan Scale 1:1200 Profile Vert Scale 1:120 Profile Horz Scale 1:1200
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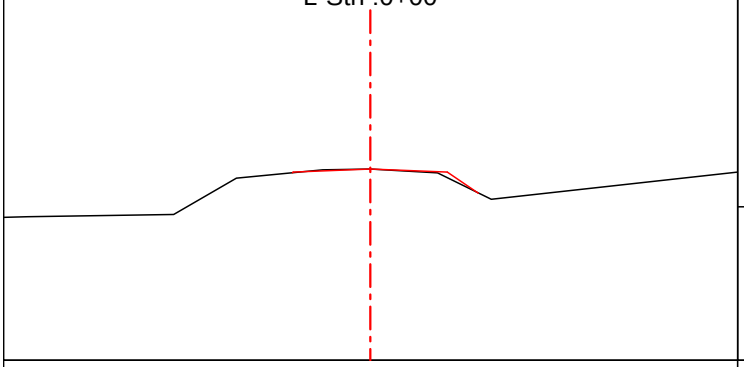
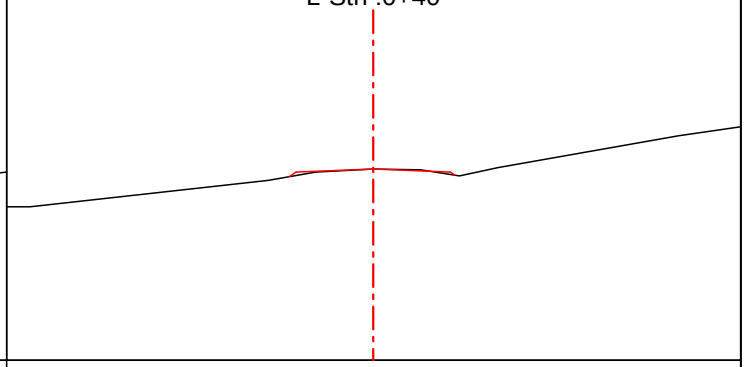
Softree Section	Scale 1:240	P. 1
C:\ProgramData\Softree\Data\webb\spur1		19/08/13

L-Stn :0+00



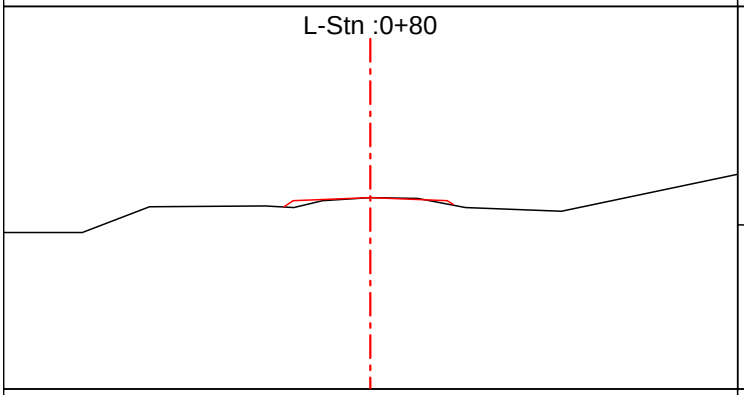
P-Stn : 0+00 Cut Dp: 0 CL Elev: 100
V.Offset: 0 H. Offset: 0 Index: 101

L-Stn :0+40



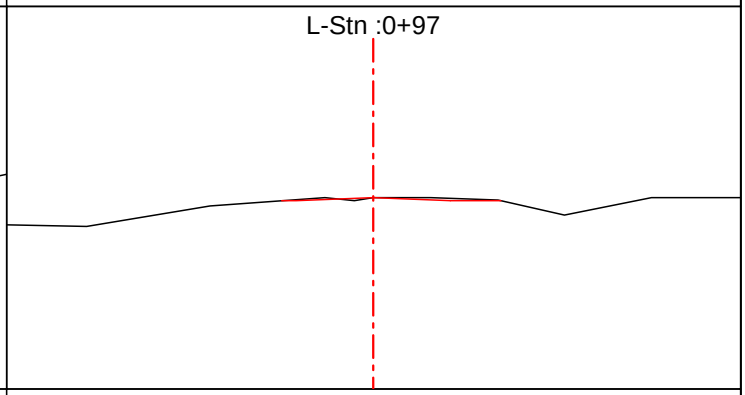
P-Stn : 0+40 Cut Dp: 0 CL Elev: 97
V.Offset: 0 H. Offset: 0 Index: 102

L-Stn :0+80



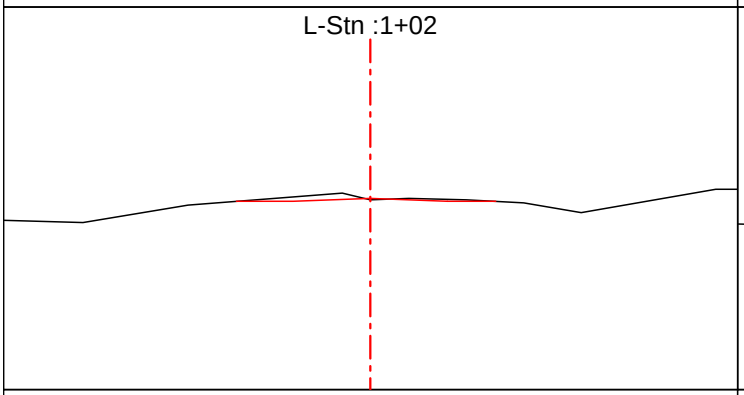
P-Stn : 0+80 Cut Dp: 0 CL Elev: 94
V.Offset: 0 H. Offset: 0 Index: 103

L-Stn :0+97



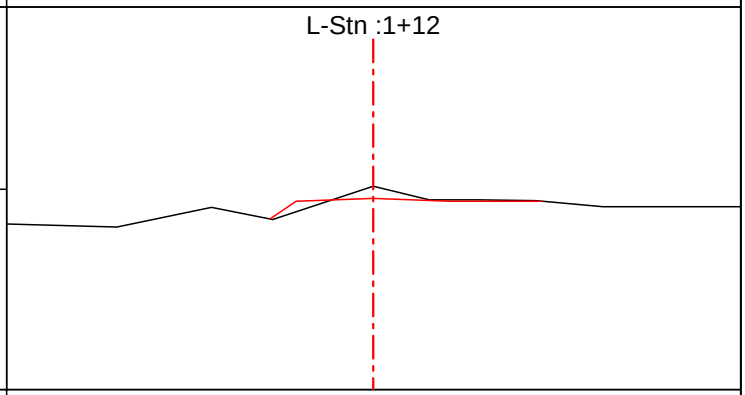
P-Stn : 0+97 Cut Dp: 0 CL Elev: 92
V.Offset: 0 H. Offset: 0 Index: 104

L-Stn :1+02



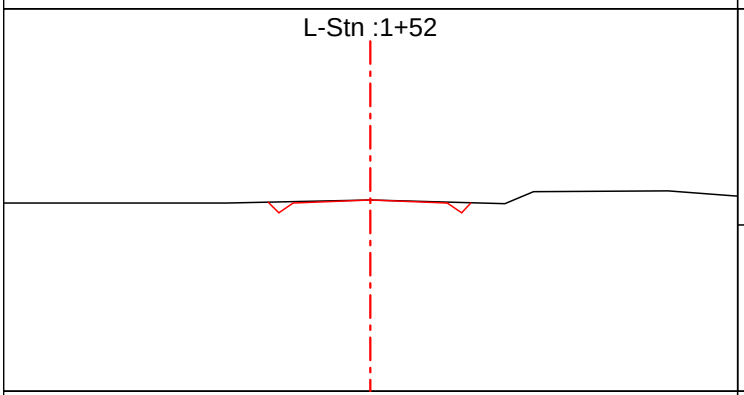
P-Stn : 1+02 Cut Dp: 0 CL Elev: 92
V.Offset: 0 H. Offset: 0 Index: 105

L-Stn :1+12



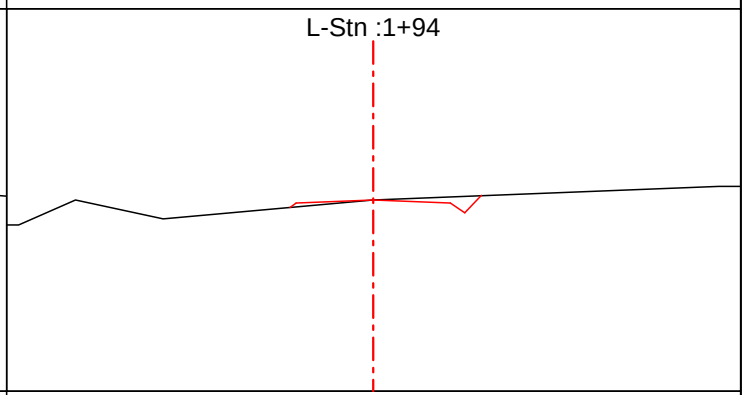
P-Stn : 1+12 Cut Dp: 1 CL Elev: 91
V.Offset: -1 H. Offset: 0 Index: 106

L-Stn :1+52



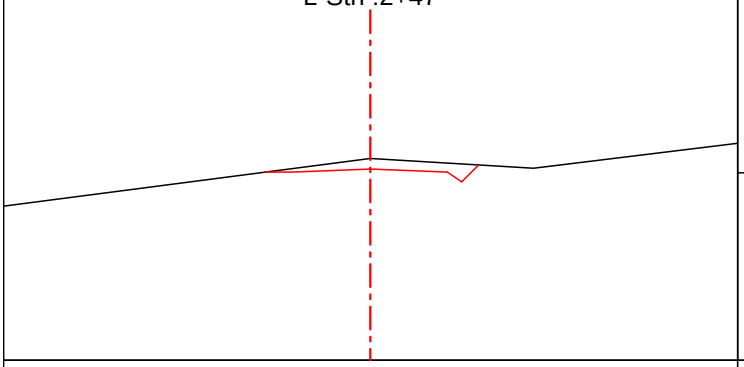
P-Stn : 1+52 Cut Dp: 0 CL Elev: 88
V.Offset: 0 H. Offset: 0 Index: 107

L-Stn :1+94



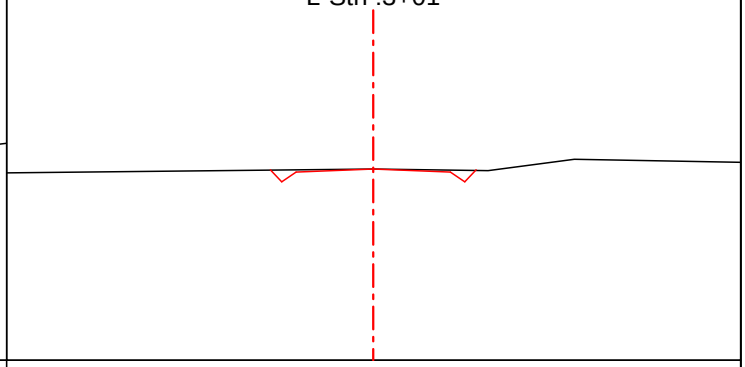
P-Stn : 1+94 Cut Dp: 0 CL Elev: 84
V.Offset: 0 H. Offset: 0 Index: 108

L-Stn :2+47



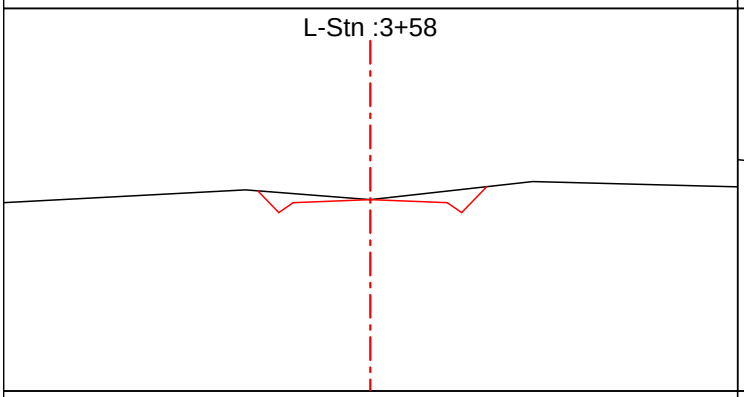
P-Stn : 2+47 Cut Dp: 1 CL Elev: 77
V.Offset: -1 H. Offset: 0 Index: 109

L-Stn :3+01



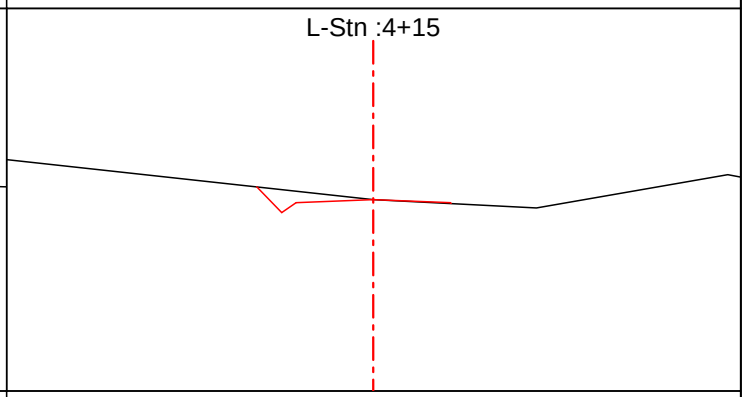
P-Stn : 3+01 Cut Dp: 0 CL Elev: 70
V.Offset: 0 H. Offset: 0 Index: 110

L-Stn :3+58



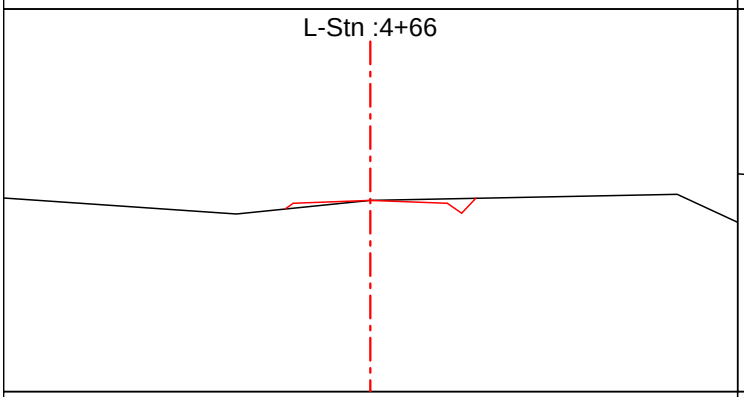
P-Stn : 3+58 Cut Dp: 0 CL Elev: 62
V.Offset: 0 H. Offset: 0 Index: 111

L-Stn :4+15



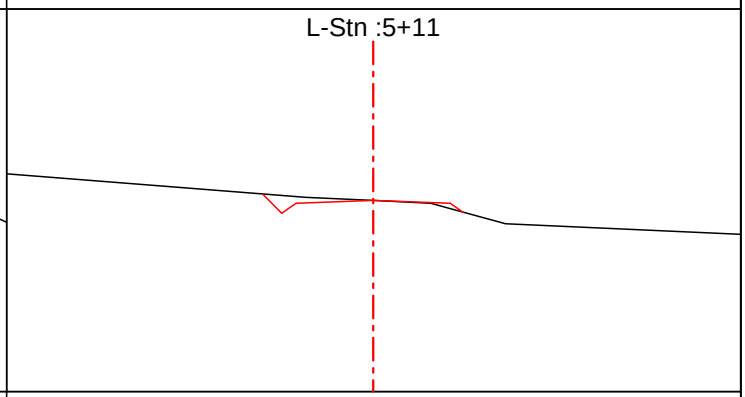
P-Stn : 4+15 Cut Dp: 0 CL Elev: 55
V.Offset: 0 H. Offset: 0 Index: 112

L-Stn :4+66



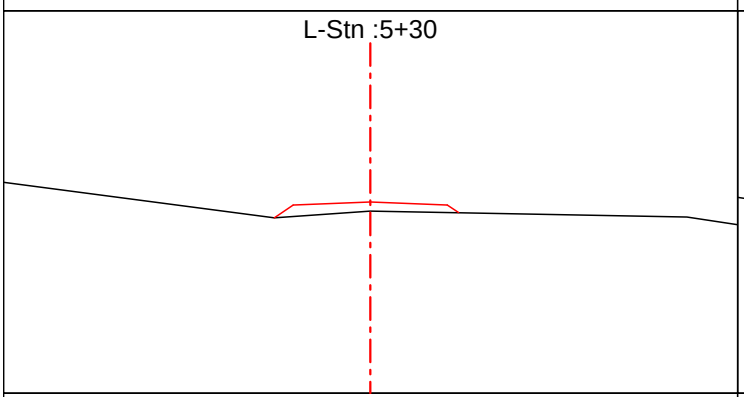
P-Stn : 4+66 Cut Dp: 0 CL Elev: 48
V.Offset: 0 H. Offset: 0 Index: 113

L-Stn :5+11



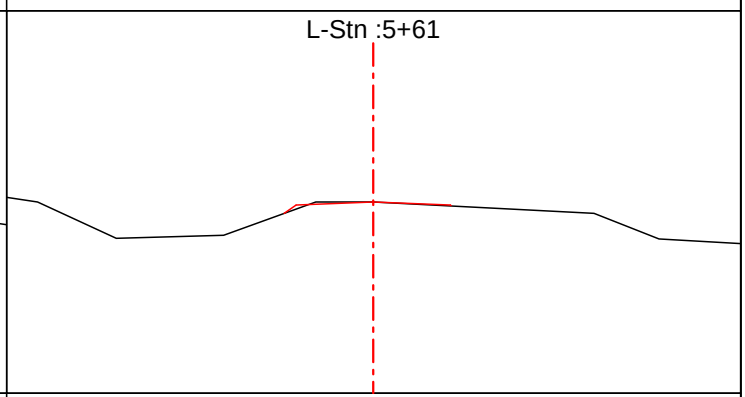
P-Stn : 5+11 Cut Dp: 0 CL Elev: 42
V.Offset: 0 H. Offset: 0 Index: 114

L-Stn :5+30



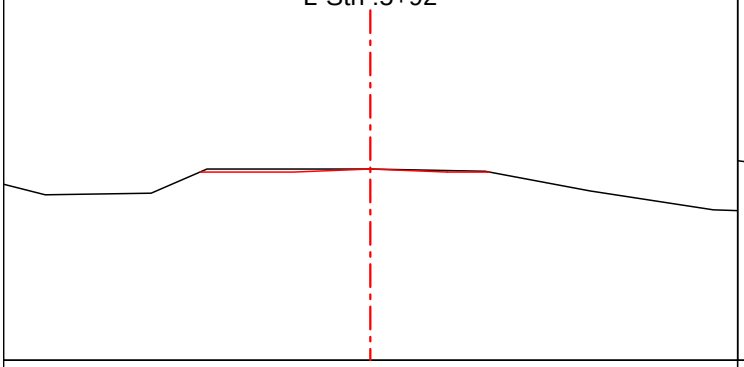
P-Stn : 5+30 Cut Dp: -1 CL Elev: 39
V.Offset: 1 H. Offset: 0 Index: 115

L-Stn :5+61



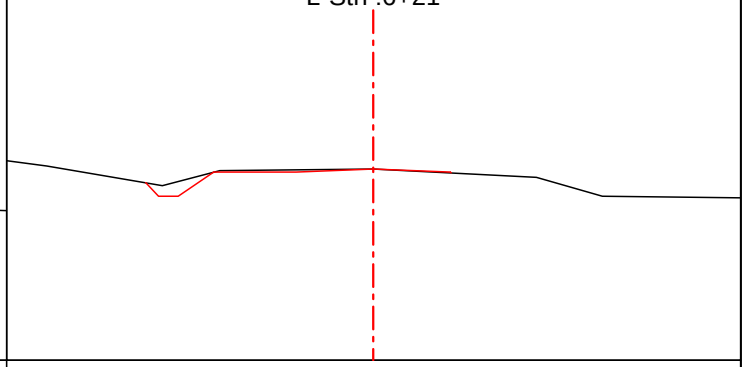
P-Stn : 5+61 Cut Dp: 0 CL Elev: 36
V.Offset: 0 H. Offset: 0 Index: 116

L-Stn :5+92



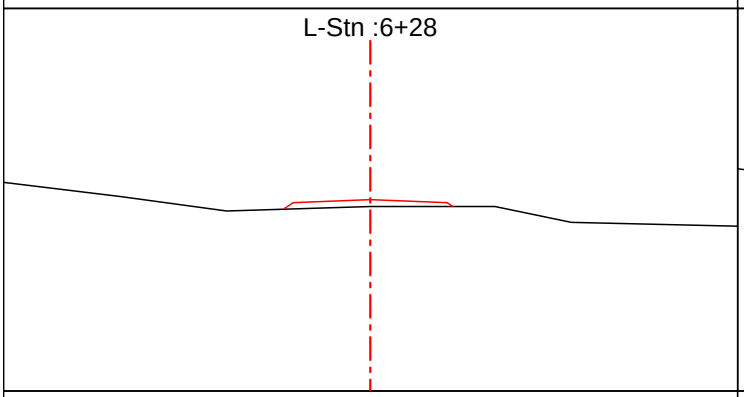
P-Stn : 5+92 Cut Dp: 0 CL Elev: 33
V.Offset: 0 H. Offset: 0 Index: 117

L-Stn :6+21



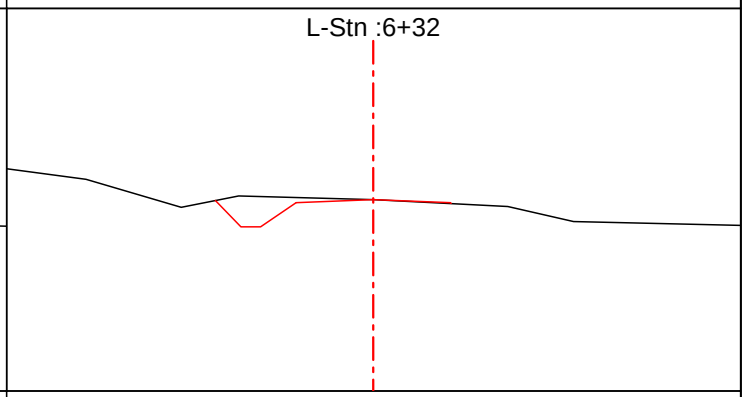
P-Stn : 6+21 Cut Dp: 0 CL Elev: 31
V.Offset: 0 H. Offset: 0 Index: 118

L-Stn :6+28



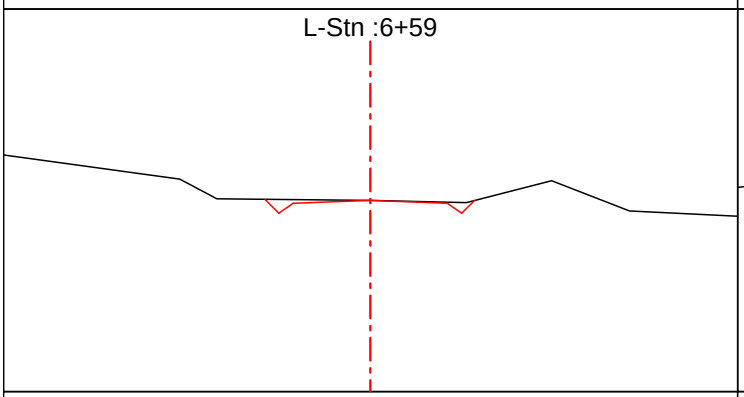
P-Stn : 6+28 Cut Dp: -1 CL Elev: 31
V.Offset: 1 H. Offset: 0 Index: 119

L-Stn :6+32



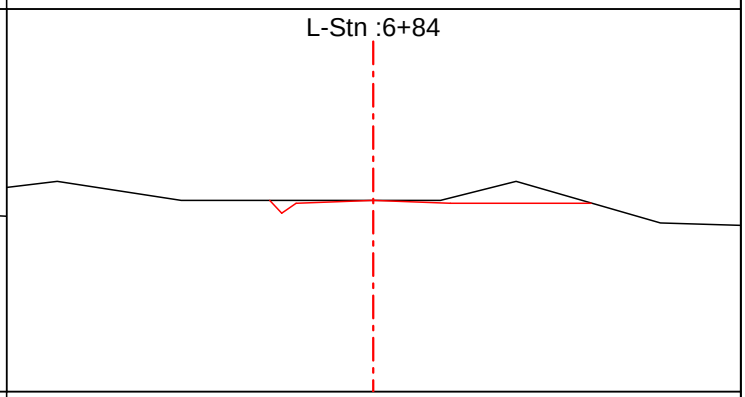
P-Stn : 6+32 Cut Dp: 0 CL Elev: 31
V.Offset: 0 H. Offset: 0 Index: 120

L-Stn :6+59



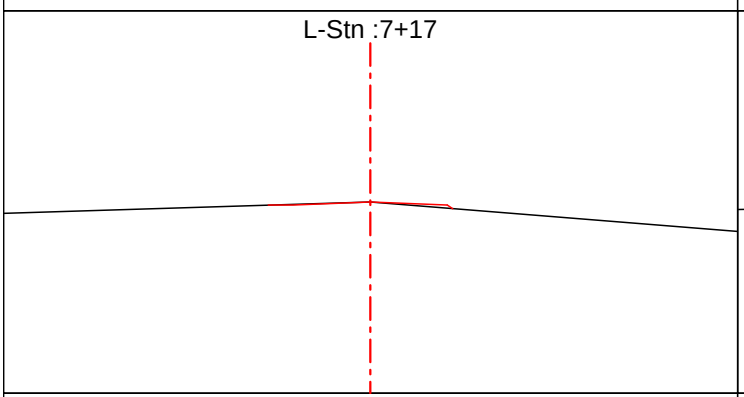
P-Stn : 6+59 Cut Dp: 0 CL Elev: 30
V.Offset: 0 H. Offset: 0 Index: 121

L-Stn :6+84



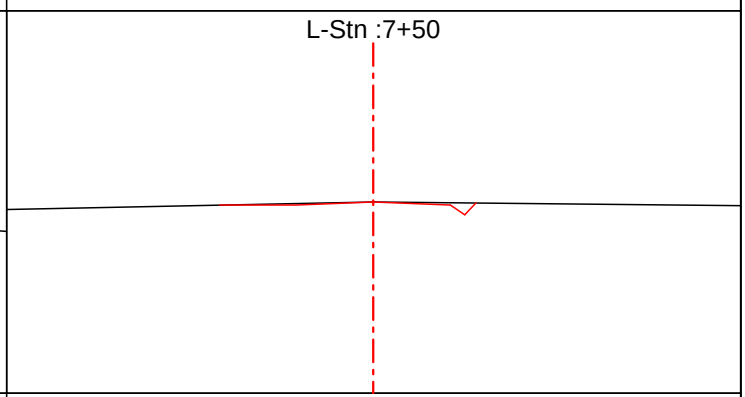
P-Stn : 6+84 Cut Dp: 0 CL Elev: 30
V.Offset: 0 H. Offset: 0 Index: 122

L-Stn :7+17



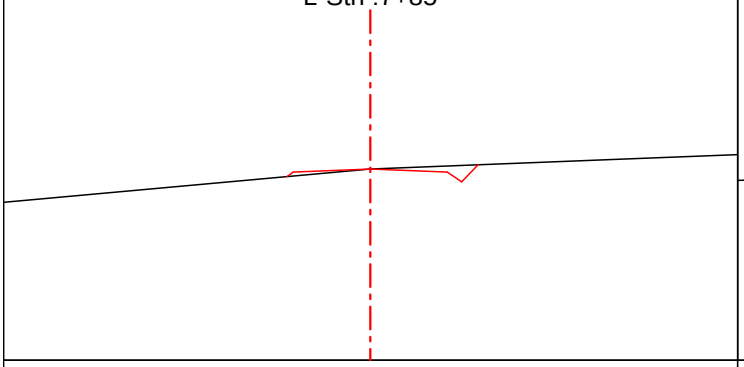
P-Stn : 7+17 Cut Dp: 0 CL Elev: 28
V.Offset: 0 H. Offset: 0 Index: 123

L-Stn :7+50



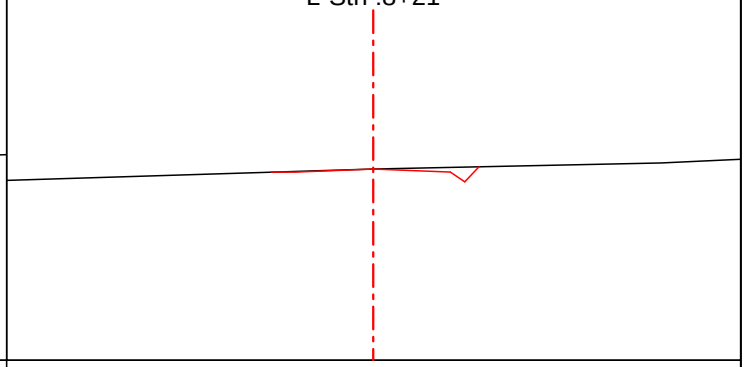
P-Stn : 7+50 Cut Dp: 0 CL Elev: 25
V.Offset: 0 H. Offset: 0 Index: 124

L-Stn :7+85



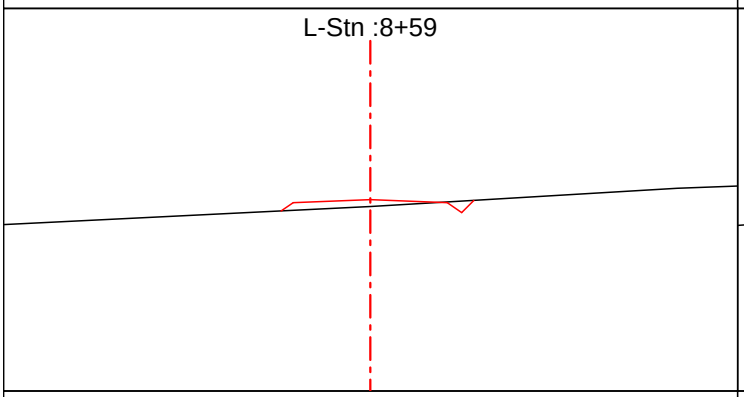
P-Stn : 7+85 Cut Dp: 0 CL Elev: 21
V.Offset: 0 H. Offset: 0 Index: 125

L-Stn :8+21



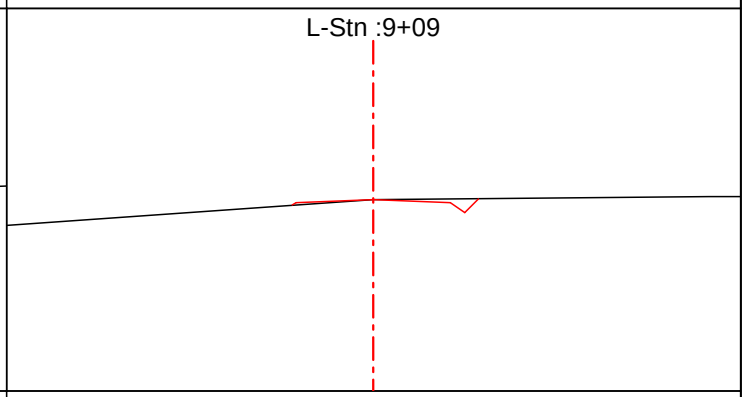
P-Stn : 8+21 Cut Dp: 0 CL Elev: 18
V.Offset: 0 H. Offset: 0 Index: 126

L-Stn :8+59



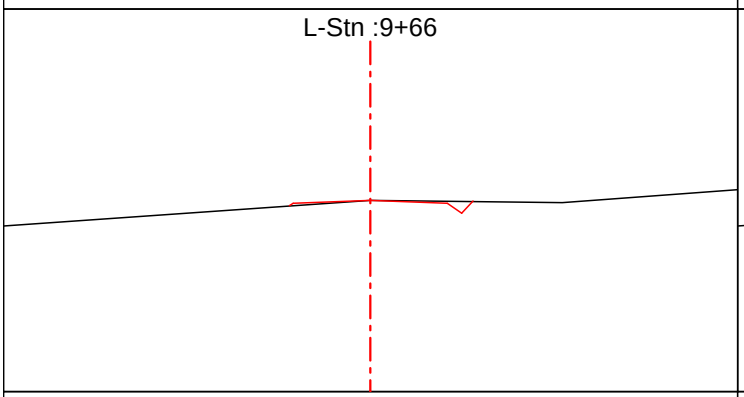
P-Stn : 8+59 Cut Dp: -1 CL Elev: 16
V.Offset: 1 H. Offset: 0 Index: 127

L-Stn :9+09



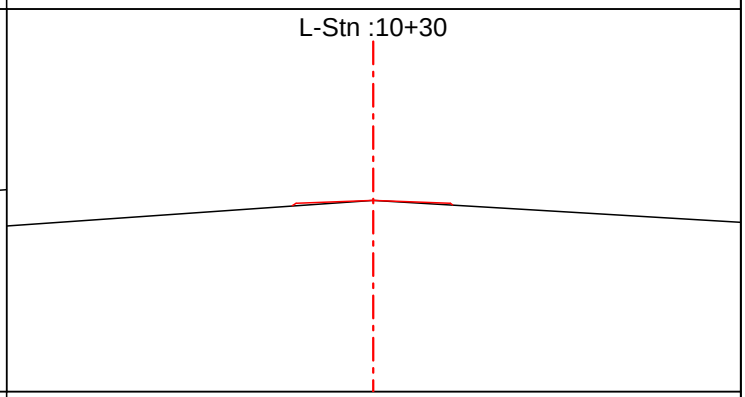
P-Stn : 9+09 Cut Dp: 0 CL Elev: 14
V.Offset: 0 H. Offset: 0 Index: 128

L-Stn :9+66

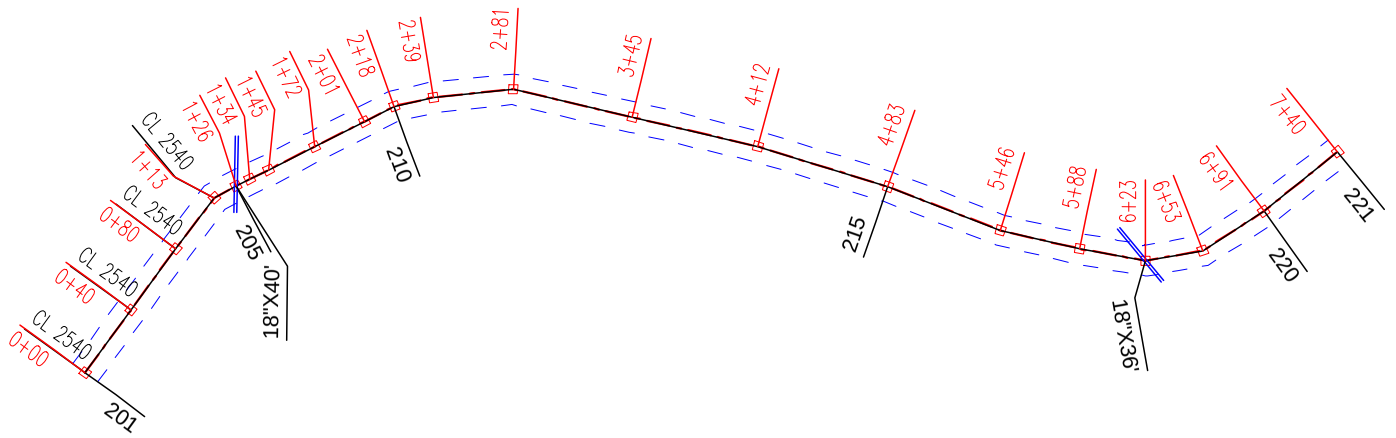


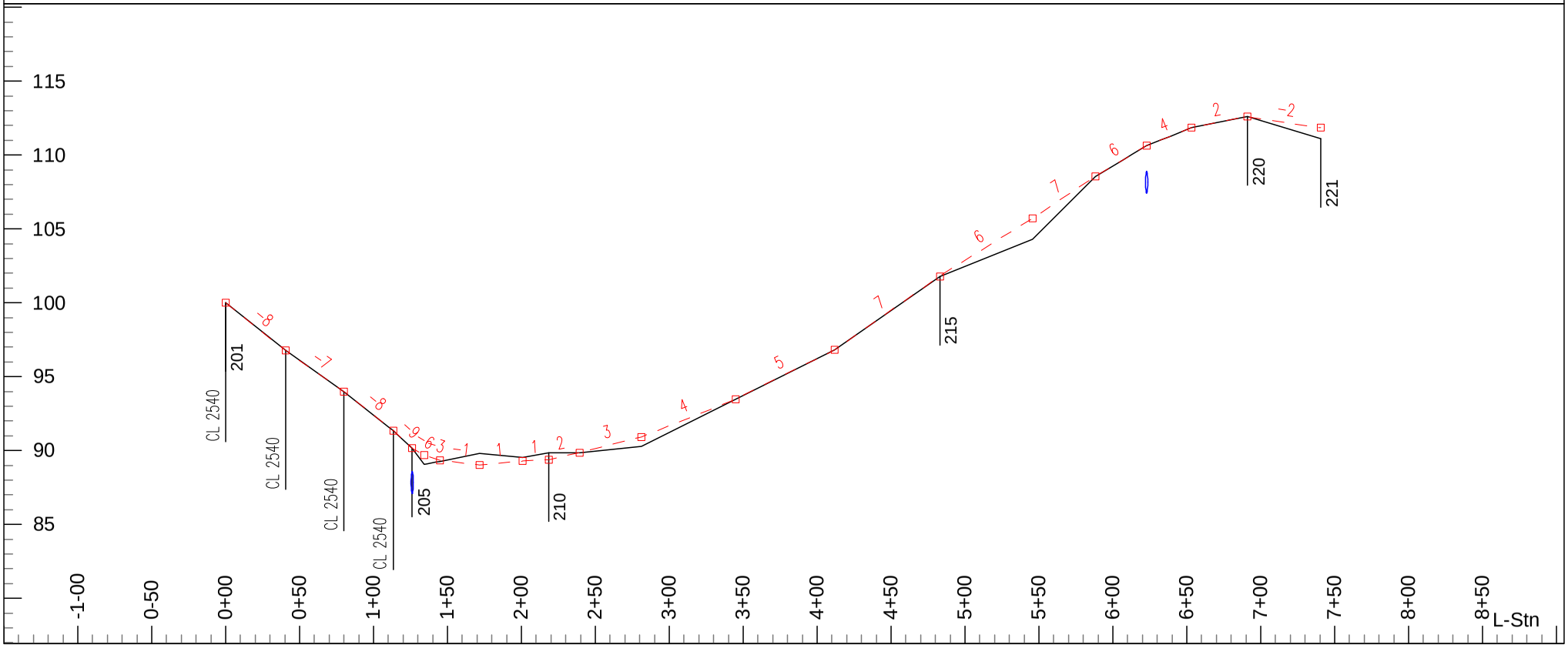
P-Stn : 9+66 Cut Dp: 0 CL Elev: 11
V.Offset: 0 H. Offset: 0 Index: 129

L-Stn :10+30



P-Stn : 10+30 Cut Dp: 0 CL Elev: 10
V.Offset: 0 H. Offset: 0 Index: 130





Webb Timber Sale
Spur 2
Contracr #: 30-097375

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

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Profile Horz Scale 1:1200

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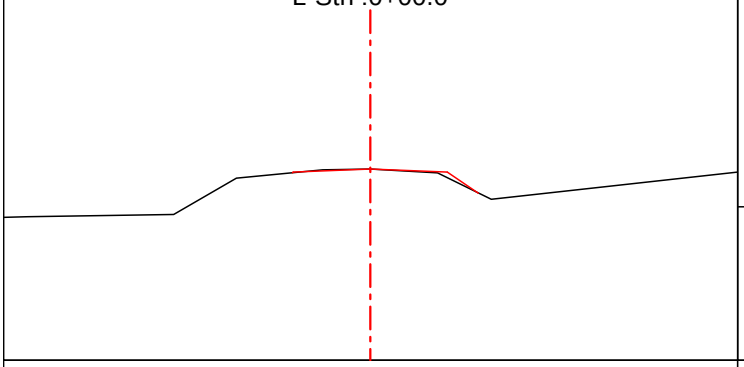
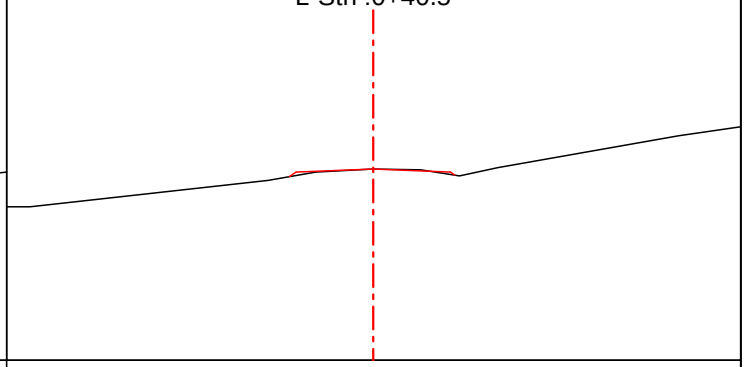
L-Stn :0+00.0



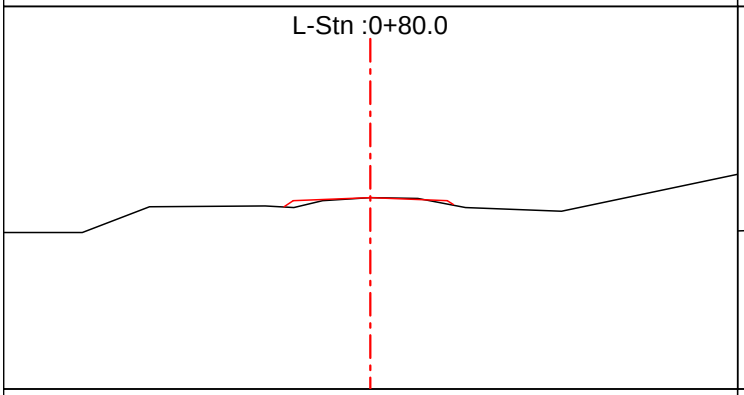
P-Stn : 0+00.0 Cut Dp: 0.0 CL Elev: 100.0
V.Offset: 0.0 H. Offset: 0.0 Index: 201

L-Stn :0+40.5



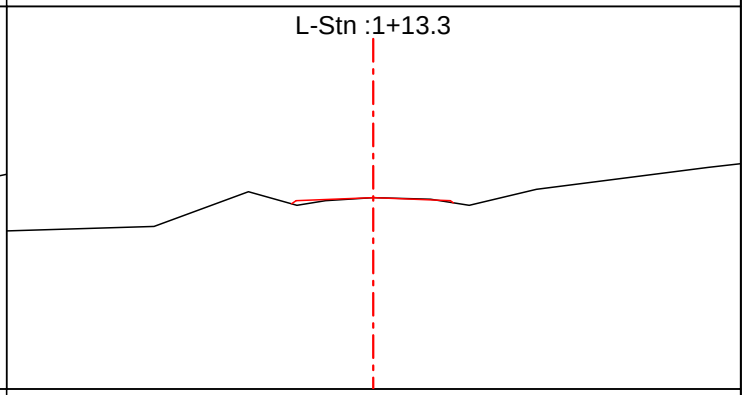
P-Stn : 0+40.5 Cut Dp: 0.0 CL Elev: 96.8
V.Offset: 0.0 H. Offset: 0.0 Index: 202

L-Stn :0+80.0



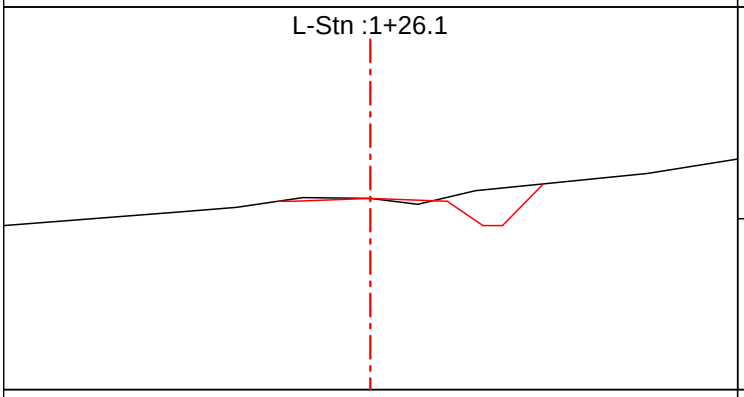
P-Stn : 0+80.0 Cut Dp: 0.0 CL Elev: 94.0
V.Offset: 0.0 H. Offset: 0.0 Index: 203

L-Stn :1+13.3



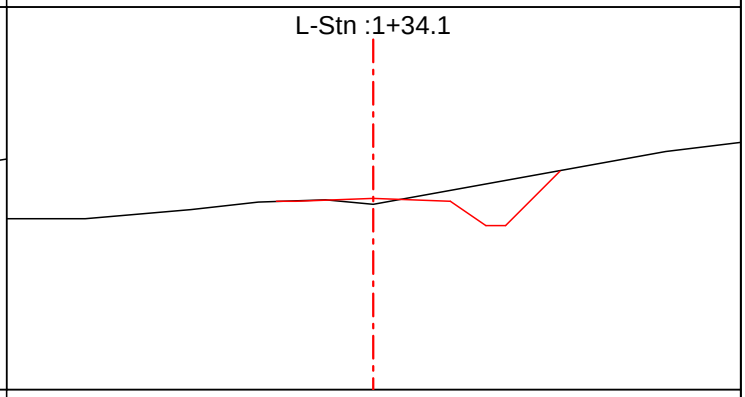
P-Stn : 1+13.3 Cut Dp: 0.0 CL Elev: 91.3
V.Offset: 0.0 H. Offset: 0.0 Index: 204

L-Stn :1+26.1



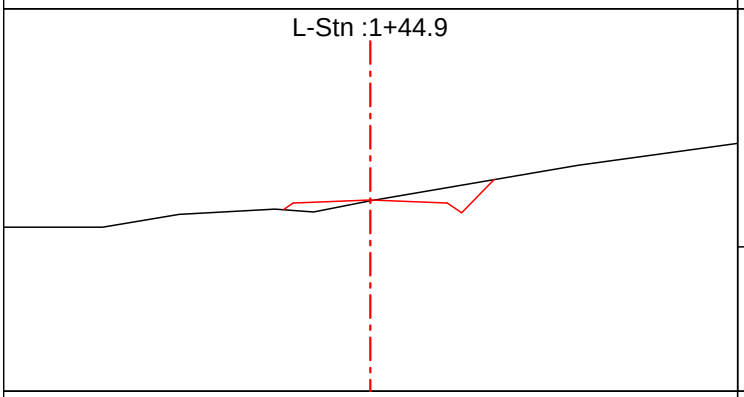
P-Stn : 1+26.1 Cut Dp: 0.0 CL Elev: 90.2
V.Offset: 0.0 H. Offset: 0.0 Index: 205

L-Stn :1+34.1



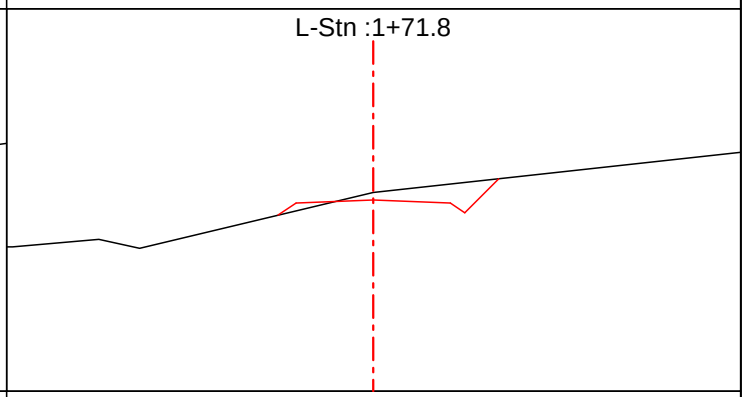
P-Stn : 1+34.1 Cut Dp: -0.6 CL Elev: 89.7
V.Offset: 0.6 H. Offset: 0.0 Index: 206

L-Stn :1+44.9



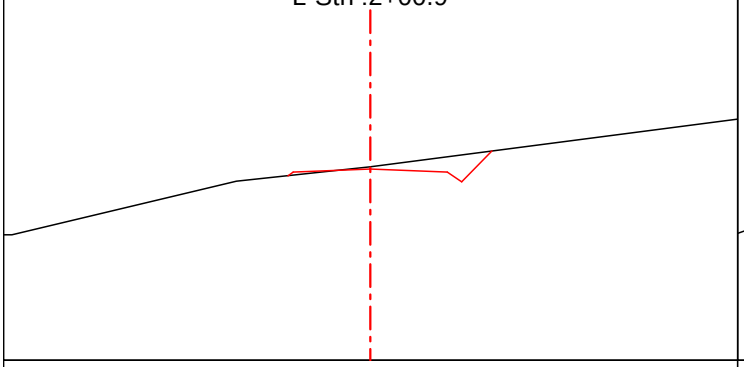
P-Stn : 1+44.9 Cut Dp: -0.1 CL Elev: 89.3
V.Offset: 0.1 H. Offset: 0.0 Index: 207

L-Stn :1+71.8



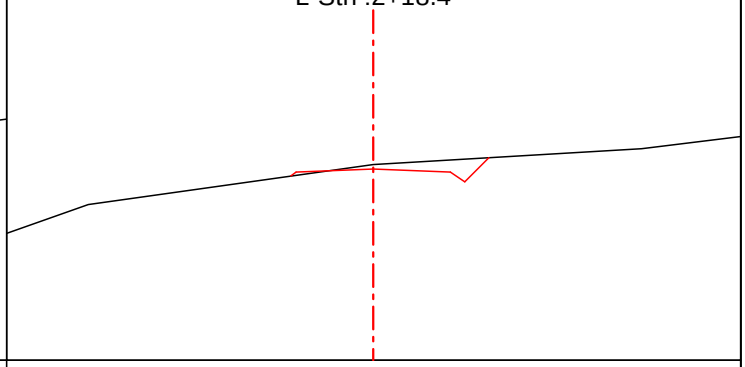
P-Stn : 1+71.8 Cut Dp: 0.8 CL Elev: 89.0
V.Offset: -0.8 H. Offset: 0.0 Index: 208

L-Stn :2+00.9



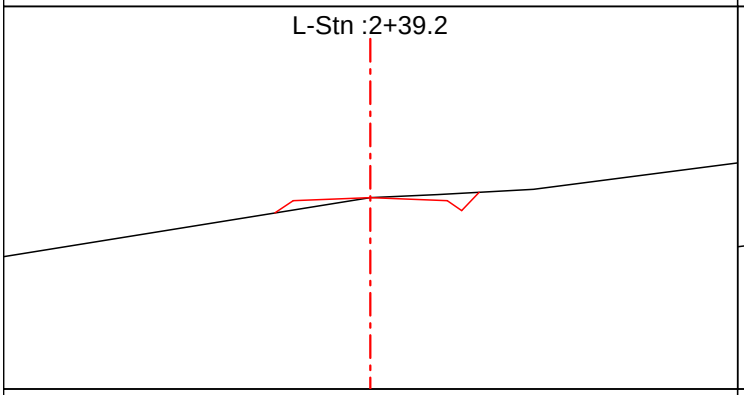
P-Stn : 2+00.9 Cut Dp: 0.2 CL Elev: 89.3
V.Offset: -0.2 H. Offset: 0.0 Index: 209

L-Stn :2+18.4



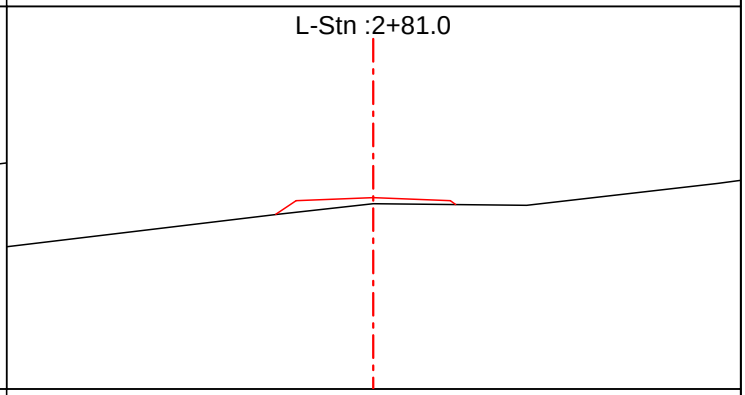
P-Stn : 2+18.4 Cut Dp: 0.5 CL Elev: 89.4
V.Offset: -0.5 H. Offset: 0.0 Index: 210

L-Stn :2+39.2



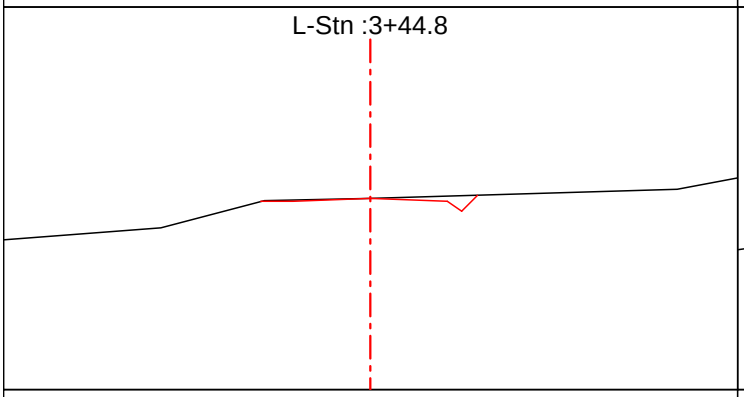
P-Stn : 2+39.2 Cut Dp: 0.0 CL Elev: 89.9
V.Offset: 0.0 H. Offset: 0.0 Index: 211

L-Stn :2+81.0



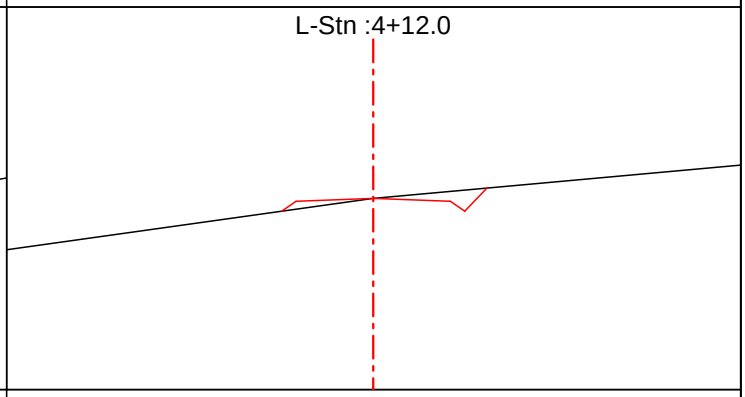
P-Stn : 2+81.0 Cut Dp: -0.6 CL Elev: 90.9
V.Offset: 0.6 H. Offset: 0.0 Index: 212

L-Stn :3+44.8



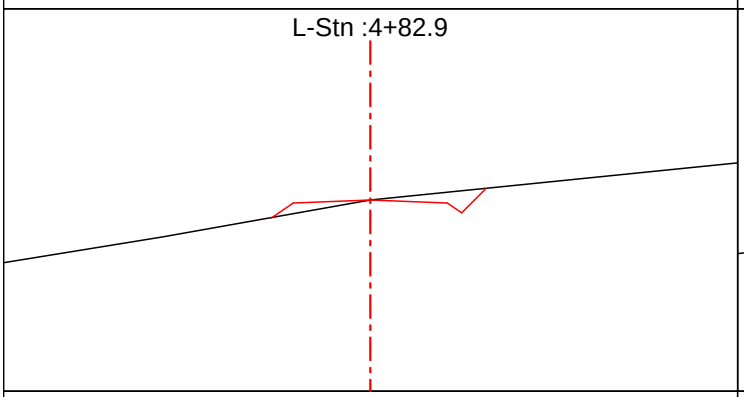
P-Stn : 3+44.8 Cut Dp: 0.0 CL Elev: 93.5
V.Offset: 0.0 H. Offset: 0.0 Index: 213

L-Stn :4+12.0



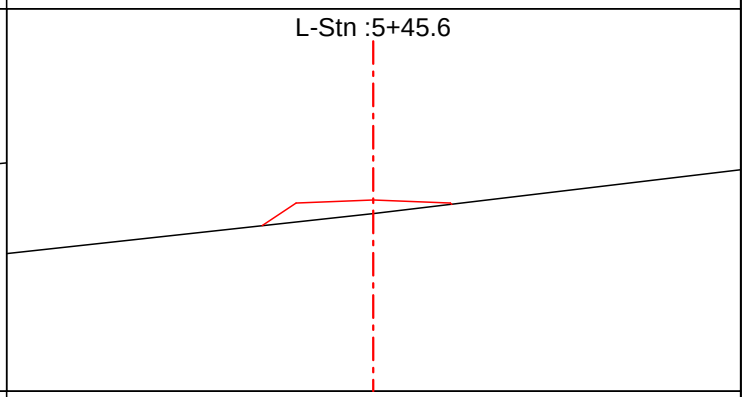
P-Stn : 4+12.0 Cut Dp: 0.0 CL Elev: 96.8
V.Offset: 0.0 H. Offset: 0.0 Index: 214

L-Stn :4+82.9



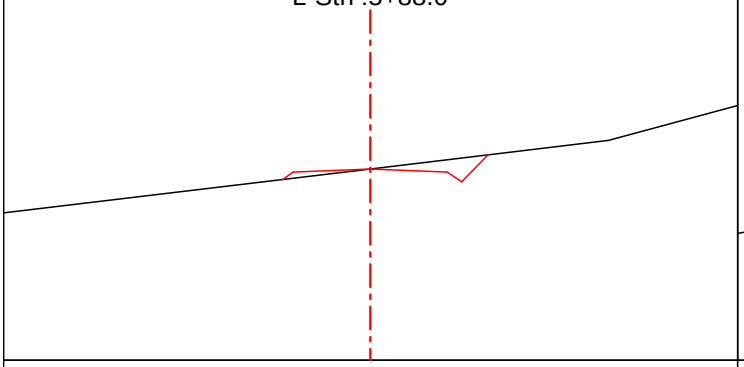
P-Stn : 4+82.9 Cut Dp: 0.0 CL Elev: 101.8
V.Offset: 0.0 H. Offset: 0.0 Index: 215

L-Stn :5+45.6



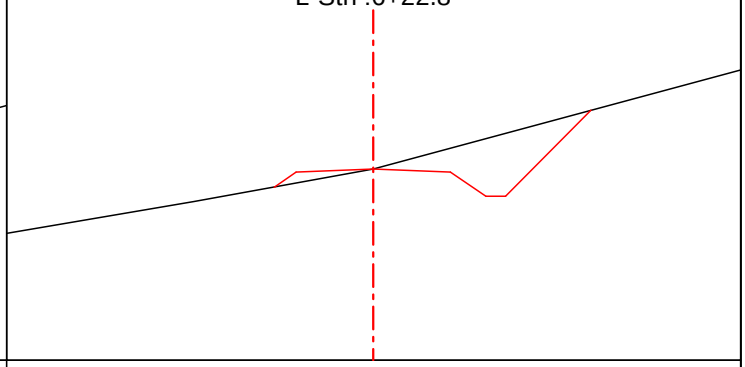
P-Stn : 5+45.6 Cut Dp: -1.4 CL Elev: 105.7
V.Offset: 1.4 H. Offset: 0.0 Index: 216

L-Stn :5+88.0



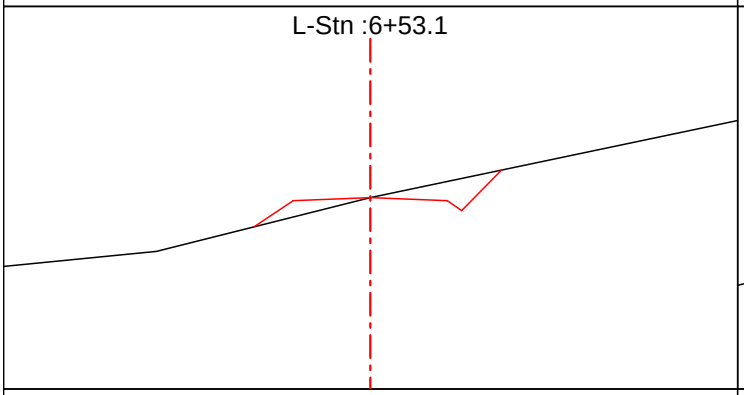
P-Stn :	5+88.0	Cut Dp:	0.0	CL Elev:	108.5
V.Offset:	0.0	H. Offset:	0.0	Index:	217

L-Stn :6+22.8



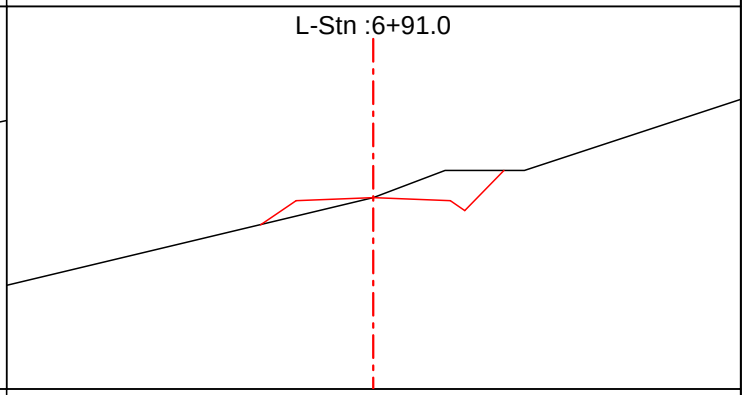
P-Stn :	6+22.8	Cut Dp:	0.0	CL Elev:	110.6
V.Offset:	0.0	H. Offset:	0.0	Index:	218

L-Stn :6+53.1



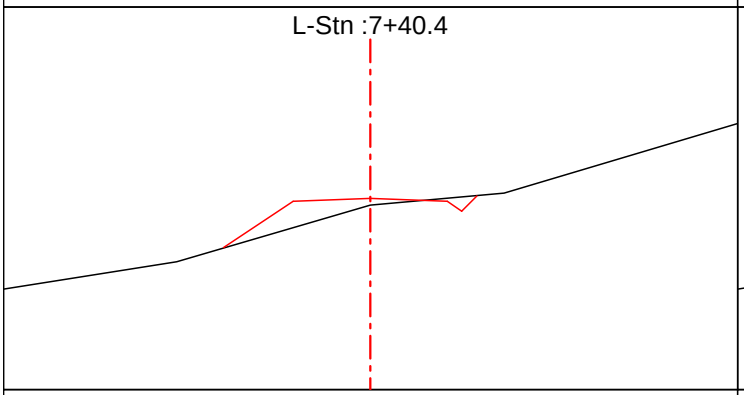
P-Stn :	6+53.1	Cut Dp:	0.0	CL Elev:	111.8
V.Offset:	0.0	H. Offset:	0.0	Index:	219

L-Stn :6+91.0



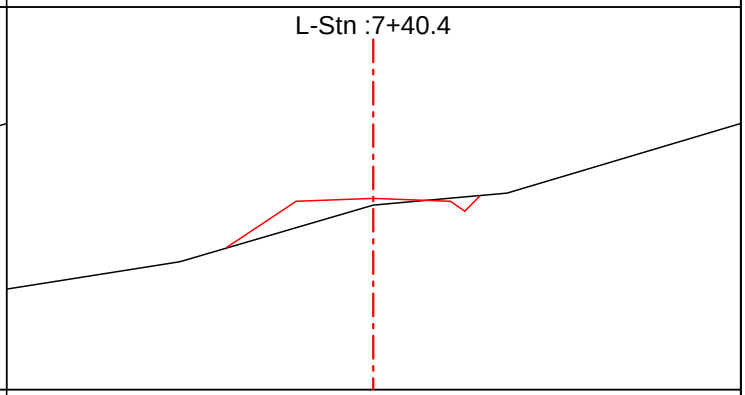
P-Stn :	6+91.0	Cut Dp:	0.0	CL Elev:	112.6
V.Offset:	0.0	H. Offset:	0.0	Index:	220

L-Stn :7+40.4



P-Stn :	7+40.4	Cut Dp:	-0.7	CL Elev:	111.9
V.Offset:	0.7	H. Offset:	0.0	Index:	221

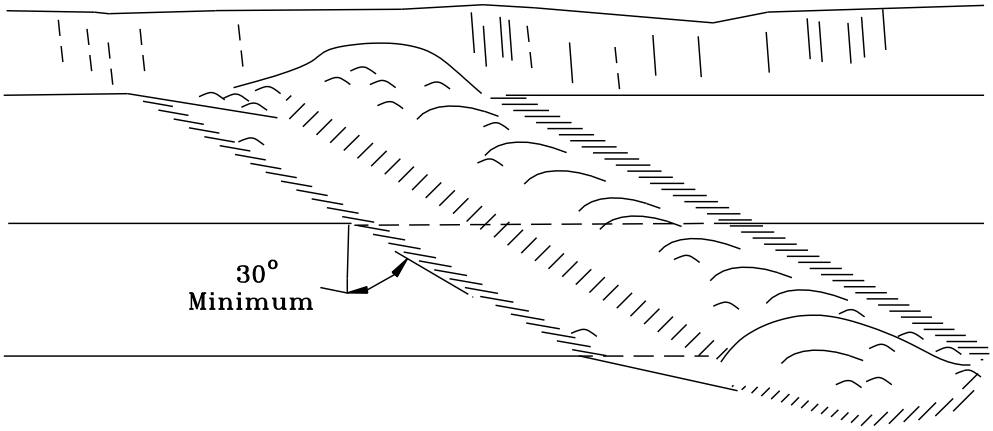
L-Stn :7+40.4



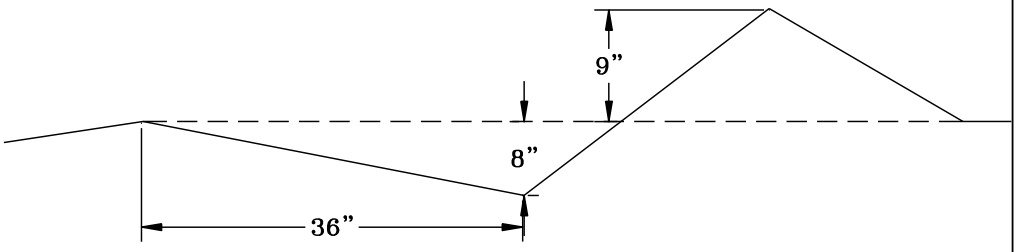
P-Stn :	7+40.4	Cut Dp:	-0.7	CL Elev:	111.9
V.Offset:	0.7	H. Offset:	0.0	Index:	221

Drivable Water Bar Detail

Cross Ditch



Cross Section at Centerline



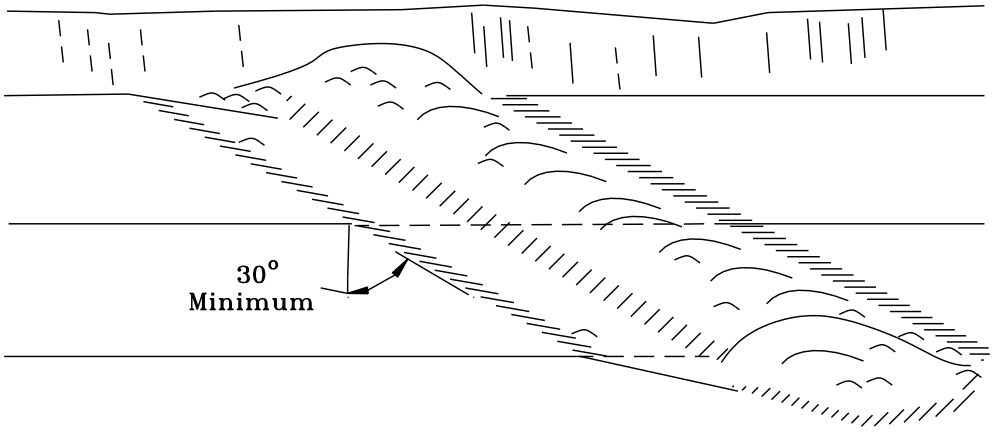
Date:
Scale : None
App#
Drawn by: M.A.D.

Water Bar Detail

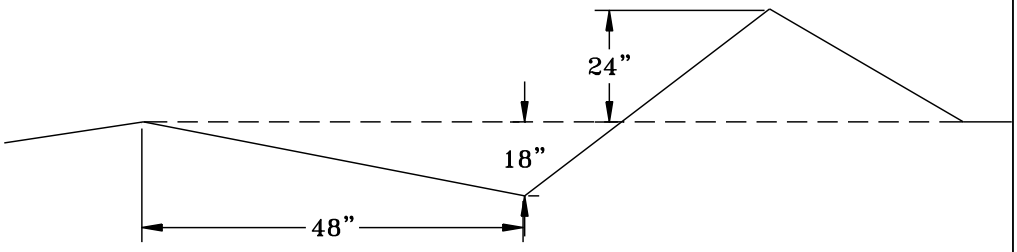
WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
SPS REGION

Non-Drivable Water Bar Detail

Cross Ditch



Cross Section at Centerline



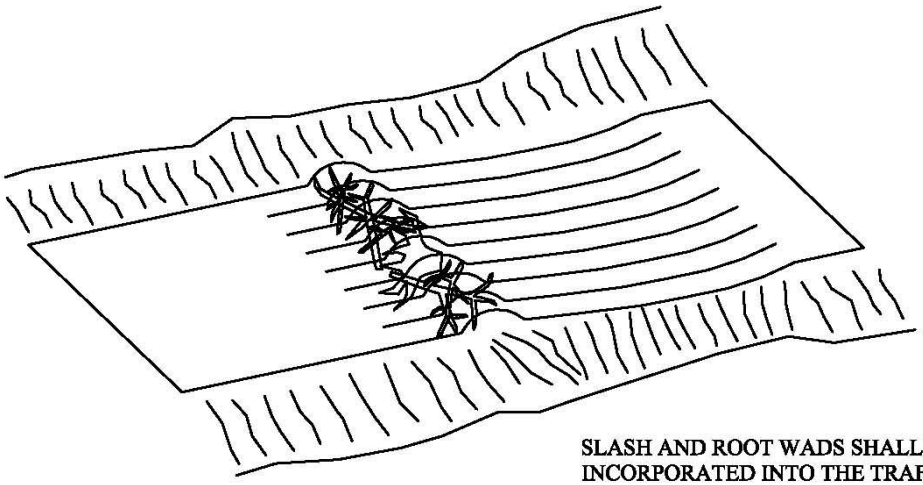
Date:
Scale : None
App#
Drawn by: M.A.D.

Water Bar Detail

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

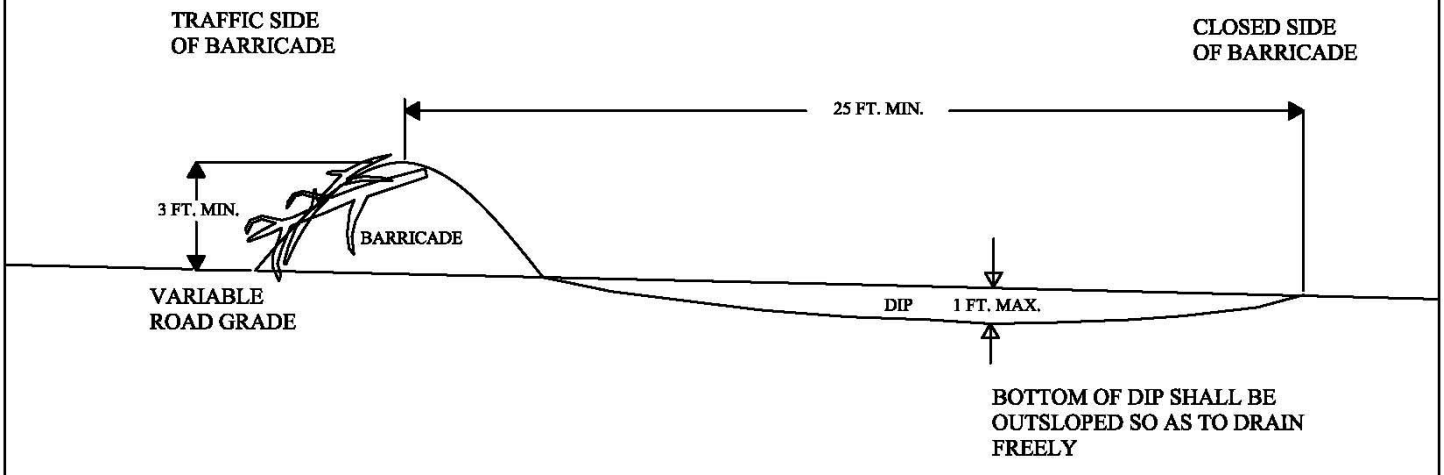
SPS REGION

BARRICADE DETAIL



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

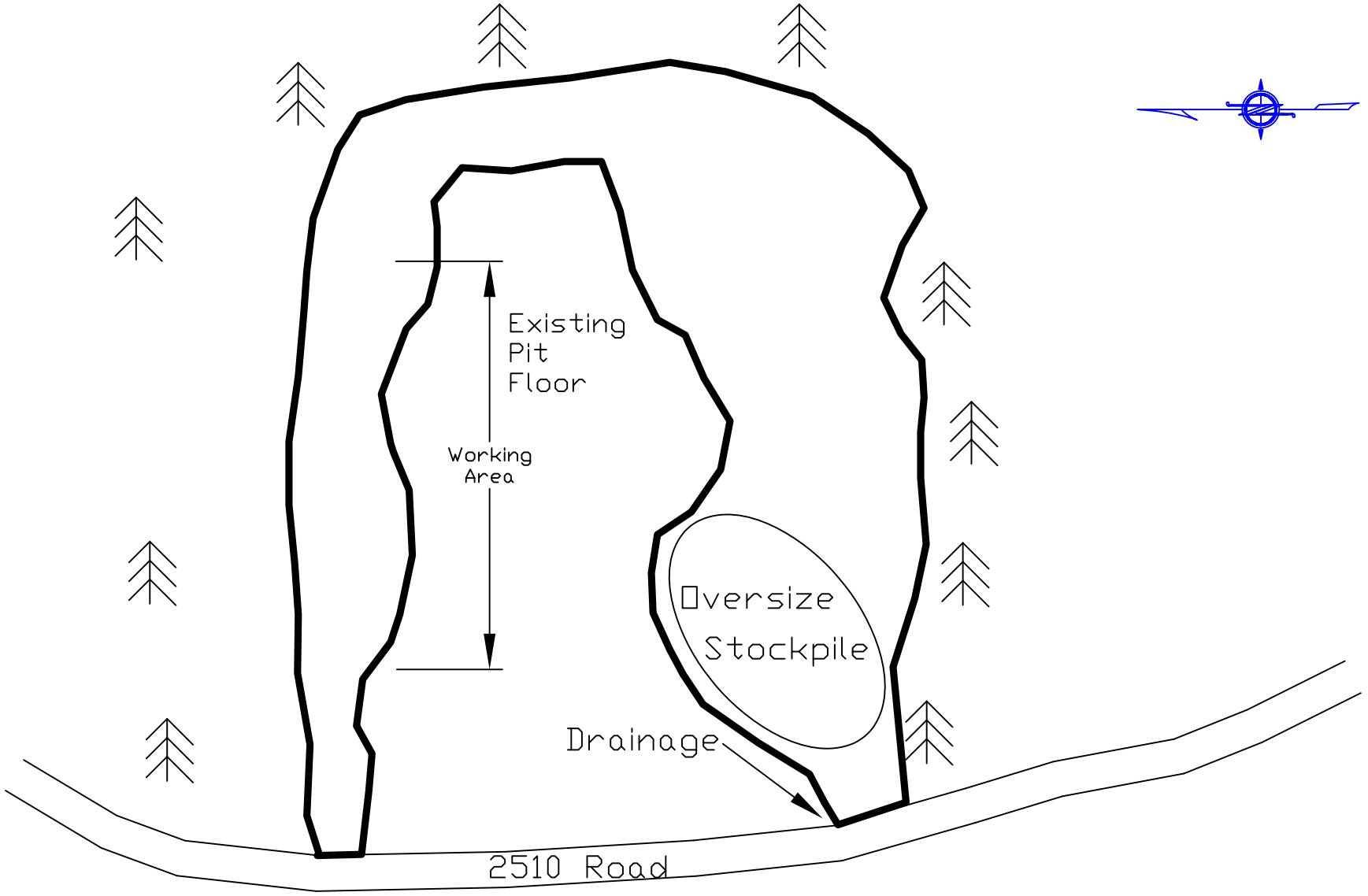
PLAN VIEW



PROFILE VIEW

SW SW Section 2 Township 24 North, Range 3 West

App # 30-097375 County: Mason



Date: 5/11/16
Scale : NONE
Page : 1 of 1

2510 Pit
PLAN VIEW

DEPARTMENT OF NATURAL RESOURCES - SOUTH PUGET SOUND REGION

FORM 9-87(Rev. 01-09)

Road Development Cost Estimate

(For internal DNR use only. Costs are estimates only & are not guaranteed by the State or part of the Road Plan.)

REGION: South Puget Sound
DISTRICT: Hood Canal

SALE/PROJECT NAME: Webb T.S. CONTRACT NUMBER: 30-097375
LEGAL DESCRIPTION: Sec 2, 3, 10 & 11 T24N R03W

ROAD NUMBER:	4020ext	Spur 1	Spur 2	4020	2510 2540 4000 4020
ROAD STANDARD:	Construction		Reconstruction		Pre-haul maintenance
NUMBER OF STATIONS:	34.52		21.10		303.32
SIDESLOPE:	15-25%		20-30%		15-25%
CLEARING AND GRUBBING:	$4,571		$844		
EXCAVATION AND FILL:	$5,586		$4,178		
MISC. MAINTENANCE:					$3,773
ROCK TOTALS (Cu. Yds.):					
Ballast: 3083	$25,358		$15,500		$13,061
Surface: 0	$0		$0		$0
Riprap: 18	$227		$0		$0
CULVERTS AND FLUMES:	$10,028		$0		$0
STRUCTURES:	$0		$0		$0
GENERAL EXPENSES:	$4,119		$1,847		$1,683
MOBILIZATION:	$3,667		$3,667		$3,667
TOTAL COSTS:	$53,555		$26,035		$22,184
COST PER STATION:	$1,551		$1,234		$73

ROAD DEACTIVATION AND ABANDONMENT COSTS: $3,052

NOTE[1]: This appraisal has no allowance for profit and risk.

TOTAL (All Roads) = $104,827

SALE VOLUME MBF = 2,910

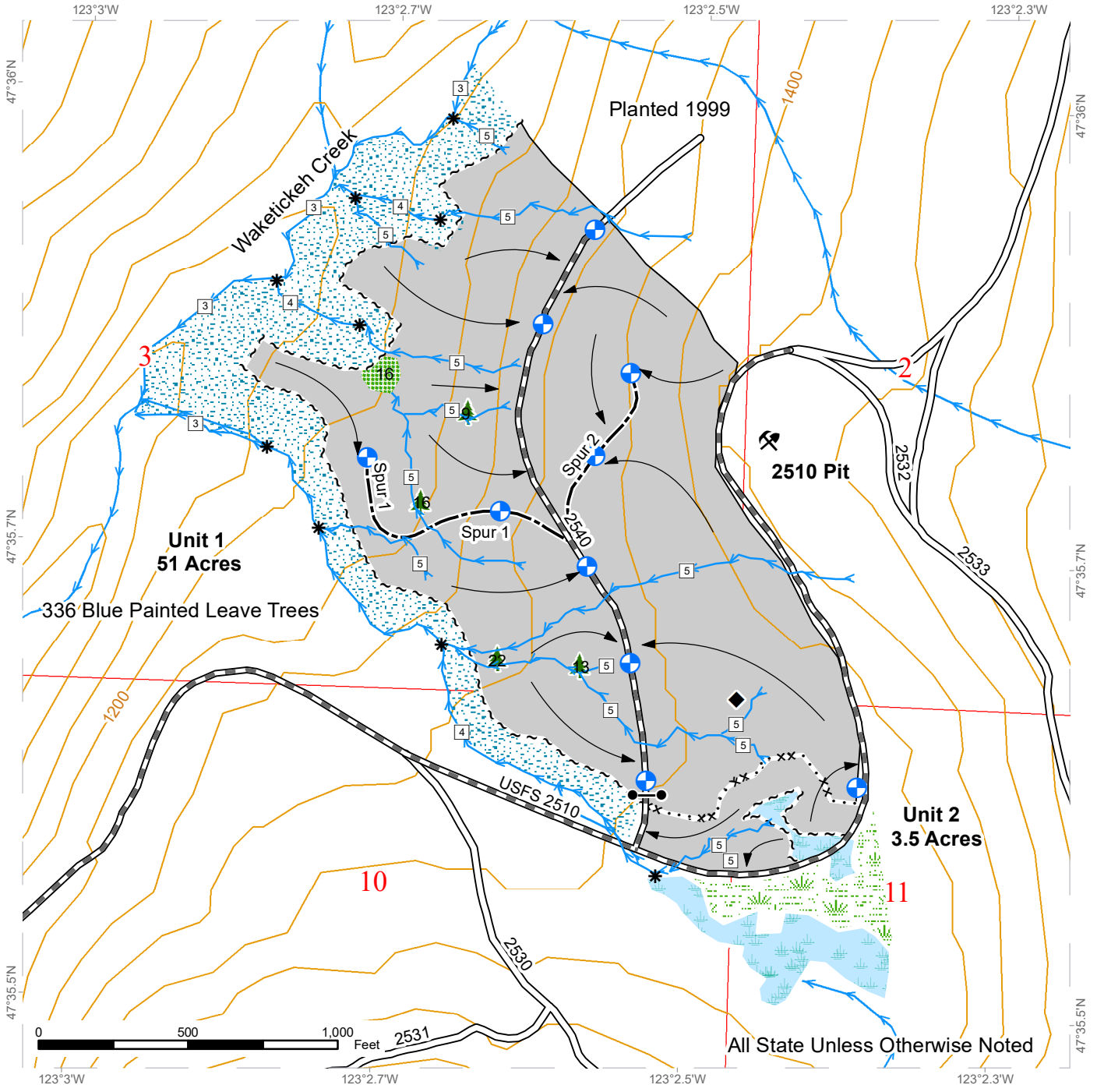
TOTAL COST PER MBF = $36.02

Date: 08/29/19

LOGGING PLAN MAP

SALE NAME: WEBB
AGREEMENT#: 30-097375
TOWNSHIP(S): T24R3W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Mason
ELEVATION RGE: 960-1440



- Sale Boundary Tags
- Timber Type Change
- Special Mgmt Area
- Ground Harvest
- Survey Monument
- Existing Roads
- Required Pre-Haul Maintenance
- Optional Construction
- Gate (A383 Master)
- Landing - Proposed
- Leave Tree Area <1/4-acre
- Rock Pit
- Leave Tree Area
- Riparian Mgt Zone
- Wetland Mgt Zone
- Stream Type
- Stream Type Break
- Streams
- unit2_wetland
- Contours 40-foot

N

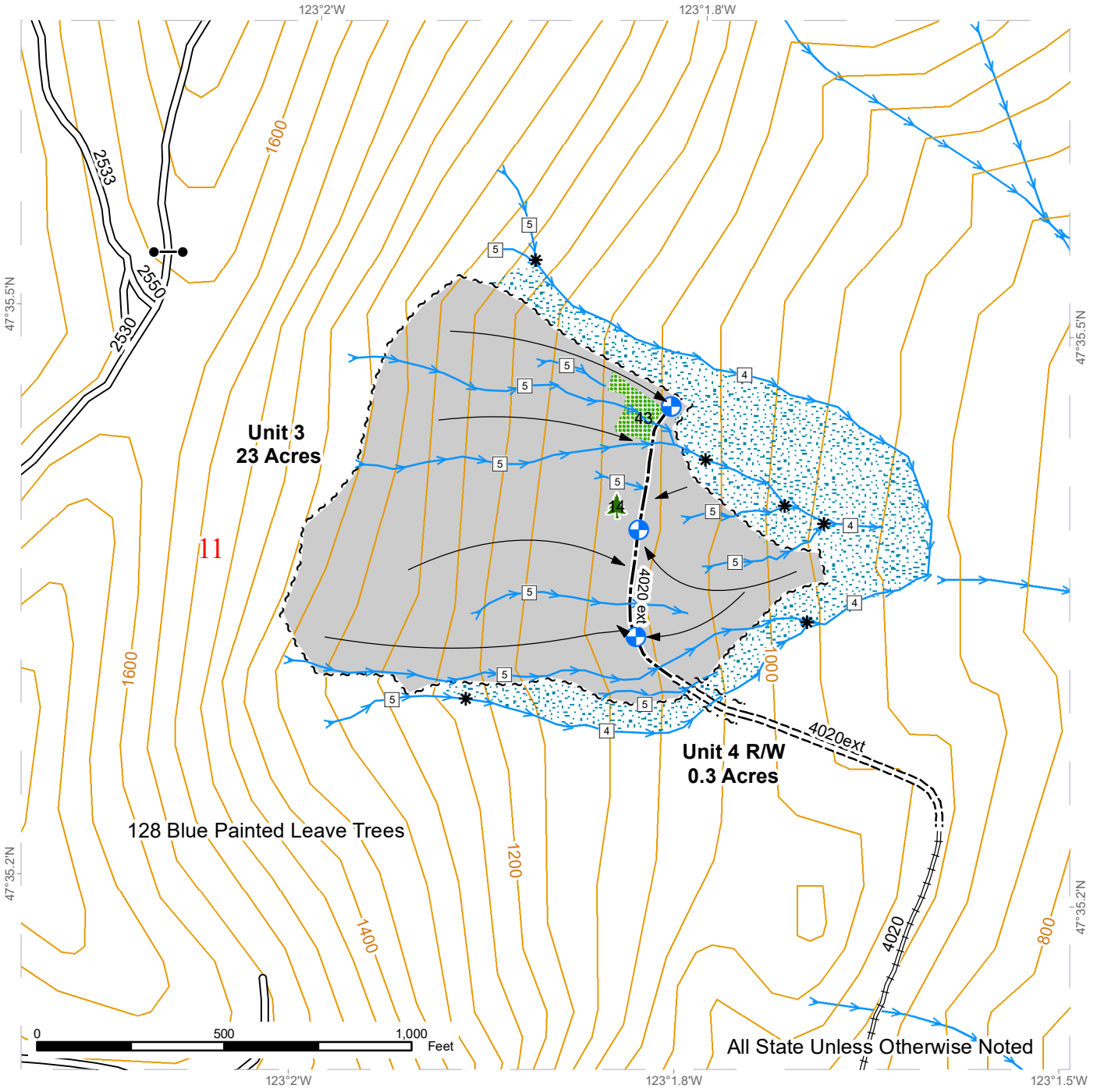
Prepared By: jcob490

Modification Date: kfry490 1/30/2020

LOGGING PLAN MAP

SALE NAME: WEBB
AGREEMENT#: 30-097375
TOWNSHIP(S): T24R3W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: South Puget Sound Region
COUNTY(S): Mason
ELEVATION RGE: 960-1440



~ ~ ~ Sale Boundary Tags
Ground Harvest
Existing Roads
Required Construction
Required Reconstruction
Optional Construction
Gate (A383 Master)
Landing - Proposed
Leave Tree Area <1/4-acre
Leave Tree Area
Riparian Mgt Zone
Stream Type
Stream Type Break
Streams
Contours 40-foot

N

Prepared By: jcob490

Modification Date: kfry490 1/30/2020