



WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

REQUEST FOR QUOTE
RFQ NO. 30-104392

PROJECT TITLE: GHOST TOWN SORTS

QUOTE DUE DATE: May 28, 2024 10:00 AM

EXPECTED TIME PERIOD FOR CONTRACT: July 1, 2024 to December 31, 2024

CONTRACTOR ELIGIBILITY: This procurement is open to those contractors who have been pre-qualified and are listed in the Department of Natural Resources Contract Harvesting Services Eligible Bidder Pool.

TABLE OF CONTENTS

SECTION 1	INTRODUCTION.....	2
SECTION 2	GENERAL INFORMATION FOR HARVESTERS	5
SECTION 3	PROJECT SCOPE OF WORK	8
SECTION 4	QUOTE EVALUATION	8
SECTION 5	RFQ EXHIBITS.....	10

SECTION 1 INTRODUCTION

1.01 Project Summary

The Washington State Department of Natural Resources, (DNR) solicits Quotes from firms interested in participating on a project described below:

Defined in the Harvesting Services Contract. The selected harvester will be expected to access, cut, yard, load and haul logs from the GHOST TOWN SORTS CH Timber Sale to specified delivery points.

1.02 Purpose and Background

This Request for Quotes seeks responses from harvesters, logging firms, operators of logging equipment or any firms, businesses or individuals who have been pre-qualified for DNR's harvester bidding pool and are interested in contract harvesting approximately 5518 MBF of timber in 8 unit(s) for the Department of Natural Resources in the Pacific Cascade Region Office.

1.03 Minimum Qualifications

Candidate Harvesters must be licensed to do business in the State of Washington and must demonstrate that they are capable of performing the work and meet the requirements outlined in the attached Harvesting Services Contract and Road Plan.

Candidate Harvesters must participate in a two-part process to bid on the work defined by the Harvesting Contract (Exhibit B) and Road Plan (Exhibit C). First, a Statement of Qualifications (SOQ) must be submitted to DNR for evaluation. The Candidate Harvester must achieve 'eligible-for-bidding' status placing them in the DNR's eligible bidder pool. Second, Eligible Bidders will be requested to submit a bid for the Harvesting Services Contract along with a 'Statement of Available Resources and Work Plan' and any other materials listed as 'required' in section 2.06 of this RFQ. The State will award the contract to the eligible bidder who submits the lowest bid and has provided a 'Statement of Available Resources and Work Plan' that demonstrates to the State that the Candidate Harvester has the ability to complete the project as required.

Proposals from Candidate Harvesters who do not meet these minimum qualifications shall be rejected.

1.04 Contract Term

The period of performance of the Harvesting Service Contract resulting from this Request for Quotes (RFQ) and subsequent bidding process is tentatively scheduled for July 1, 2024 to December 31, 2024. Any amendments extending the period of performance shall be at DNR's sole discretion.

1.05 Payment for Work

The State shall make payments to the Contractor for services required and approved including log hauling and road work calculated according to the terms in the harvesting services contract. The Contractor is responsible for independently negotiating, procuring and paying for all services provided.

Depending on the project bid structure defined in section 2.06 'Contract Harvesting Services Quote Format' of this RFQ, payment will be calculated using:

- The Contractor's On Board Truck (OBT) bid rate per ton for logs harvested and delivered for sort(s) 1, 2, 3, 4 and 5.
- And an OBT rate of \$14.00 per Ton for sorts 6 and 7 harvested and delivered.
- Utility volume scaled in mbf sorts will be determined on an adjusted gross scale basis and paid for at an OBT rate of \$14.00 per mbf.
- Payments to the Contractor for hauling services shall be based upon the tons delivered multiplied by: a base rate, 'A' and 'C mile rates', a fuel index factor and the Contractor's hauling bid factor using the following formula:

Hauling Services Payment Rate per Ton
= (Base Rate + Mileage Rate) x (Contractor's hauling bid factor)

Base Rate = \$2.35

(based on multiple truck operation fixed cost/ton within 'Report to the Washington State Legislature, The Washington Log Trucking Industry: Costs and Safety Analysis, August 2008')

Mileage Rate = ((\$0.16 x C miles) + (\$0.11 x A miles)) x (Fuel Index Factor)

The Fuel Index Factor will be adjusted quarterly by the State based upon the U.S. Energy Information Administration's Weekly Retail On-Highway Diesel prices for the West Coast region posted at <https://www.eia.gov/petroleum/gasdiesel/> using the following formula;

$$\text{Fuel Index Factor} = 1 + \frac{Q_{(x)} - Q_{(base)}}{Q_{(base)}}$$

Where; $Q_{(base)}$ = Average fuel price for quarter preceding harvesting services contract bid opening.

$Q_{(x)}$ = Average fuel price for quarter preceding log deliveries.

The fuel index factor will be calculated each;
January and apply to loads delivered between January 1 and March 31,
April and apply to loads delivered between April 1 and June 30,

July and apply to loads delivered between July 1 and September 30,
October and apply to loads delivered between October 1 and December 31.

Hauling Rate Example:

Base Rate = \$2.35

C miles = 10

A miles = 100

Fuel Index Factor = 1.000

Mileage Rate = $((\$0.16 \times 10) + (\$0.11 \times 100)) \times (1.000) = \12.60

Contractor's hauling bid factor = 1.100

Hauling Services Payment Rate per Ton

= (Base Rate + Mileage Rate) x (Contractor's hauling bid factor)

= $(\$2.35 + \$12.60) \times 1.100$

= \$16.45

For sorts bid on an mbf basis tonnage will be calculated using the State's conversion rate unless actual tonnage is available and approved for use. For tonnage based sorts, actual tonnage shall apply.

- Travel distances to each log sort destination will be determined by the State and will represent the one-way travel distance from the sale area to the purchaser's delivery point.
 - Long-haul surcharge: An additional haul payment of \$25/mbf net scale for mbf scale sorts or \$4.60/ton for tonnage sorts will be added for delivery destinations in excess of 250 total one-way miles (A miles plus C miles).
- With prior approval by the State and toll/ferry receipt provided, reimbursement of toll/ferry costs incurred for transporting logs.
- Payment amounts for fixed-rate road construction elements are based upon the rates established by the State and listed in the Harvesting Services Contract. When applicable, payment amounts for biddable road construction elements will be in accordance with the rates listed in Contractor's road cost proposal provided as an attachment to the official bid form.

1.06 RFQ Definitions

Definitions of terms used in this Request for Statement of Qualifications.

Contractor - Individual or company selected to harvest and haul logs for the State.

Contractor may also be required to perform roadwork or other services as required in the Harvesting Services Contract and Road Plan.

DNR - The State of Washington, Department of Natural Resources.

Eligible Bidder - Candidate Harvester who's Statement of Qualifications has scored a pre-determined minimum point total (as determined by the DNR). Only eligible bidders are requested to submit a bid for the work outlined in the Harvesting Services Contract.

Harvesting Services Contract - the agreement between the State and a Contractor that defines the work to be done by the Contractor. The Contractor and the State sign this contract after the timber sale auction where the Purchaser's of the log sorts has been determined.

Purchaser - Person or Company that has purchased logs to be delivered by the Contractor of a Contract Harvesting Sale. A Contract Harvesting sale usually has numerous Purchasers.

Quote – Official bid form submitted by Eligible Bidders. A complete Quote consists of the bid rate for delivered logs, the bid rates for hauling services, and a completed 'Statement of Available Resources and Work Plan'.

Request for Quotes (RFQ) - A formal procurement process used to solicit bids from pre-qualified firms for the right to perform the work defined in the RFQ.

Request for Statement of Qualifications (RFSOQ) - A formal procurement process used to pre-qualify firms for inclusion in the DNR's Contract Harvesting Services Eligible Bidder Pool.

Request for Quotes Coordinator - DNR employee who oversees the Contractor Selection Process and serves as the main point of contact between the DNR and Candidate Harvesters. The Coordinator may delegate some of the duties, but is responsible for ensuring the process is properly followed and documented.

Statement of Qualifications (SOQ) – Document to be filled out by Candidate Harvesters and submitted to the DNR. Lists the Candidate Harvesters experience, qualifications, background information and references. Used by an evaluation team to determine which Candidate Harvesters are qualified to bid for the right to perform the harvesting project.

Subcontractor - Individual or company employed by the Contractor to perform a portion or all of the services required by the Harvesting Services Contract. The Contractor is responsible for independently negotiating, procuring and paying for all subcontracted services rendered.

SECTION 2 GENERAL INFORMATION FOR HARVESTERS

2.01 RFQ Coordinator

The RFQ Coordinator is the sole point of contact in the DNR for this eligible bidder selection process. All communication between the Candidate Harvester and the DNR shall be with the RFQ Coordinator.

RFQ Coordinator	Becky VonDracek
Address	PO Box 280
City, State, Zip Code	Castle Rock, WA 98611
Phone Number	(360)577-2025
E-Mail Address	becky.vondracek@dnr.wa.gov

2.02 Estimated Project Schedule

As defined in the Project Schedule (**See Exhibit A**)

The DNR reserves the right to revise this schedule.

2.03 Pre-Quote Candidate Harvester Questions

Candidate Harvesters may mail or email questions about the RFQ to the RFQ Coordinator. The RFQ Coordinator will accept questions until May 21, 2024 at 10:00 AM. Questions received after this date and time will not be answered unless the RFQ Coordinator decides that it is in the DNR’s best interests to answer them. A copy of the question(s) received, along with the DNR’s official answer(s), will be mailed or emailed to each Candidate Harvester who received a copy of the RFQ. This copy will become an addendum to the RFQ. The DNR shall be bound only by written answers to questions. Oral responses given on the telephone will be considered unofficial.

2.04 Submitting a Quote

Candidate Harvesters must submit ONE copy of the official Harvesting Services Contract Sealed Bid Form including a ‘Statement of Available Resources and Work Plan’ with original signatures. The Quote, whether mailed, hand delivered, or emailed must arrive at the DNR no later than 10:00 AM, local time, on May 28, 2024.

The Quote is to be sent to the RFQ Coordinator at the address listed in Item 2.01 above. The envelope should be clearly marked “Attention RFQ Coordinator, Contract Harvesting Services Quote Enclosed, Do Not Open Until May 28, 2024.”

Candidate Harvesters who mail Quotes should allow for normal mail delivery time to ensure timely delivery of their Quotes to the RFQ Coordinator. Candidate Harvesters assume the risk for the method of delivery they choose. The DNR assumes no responsibility for delays caused by a delivery service. Quotes may not be transmitted by email.

Late Quotes will not be accepted and will be automatically disqualified from further consideration. All Quotes and any accompanying documentation become the property of the DNR and will not be returned.

2.05 Proprietary Information/Public Disclosure.

Proposals are considered public records as defined in chapter 42.56 RCW. In the event a firm desires to claim portions of its proposal proprietary and exempt from public disclosure, it must clearly identify those portions. Each page of the proposal claimed to be exempt must be clearly identified as “proprietary information.” If a public records request is made for the information that the consultant has marked as “proprietary information,” the firm may seek to obtain a court order from a court of competent jurisdiction enjoining disclosure pursuant to chapter 42.56 RCW, or other state or federal law that provides for nondisclosure. The successful contractor’s proposal generally becomes part of the contract that is subject to public disclosure.

DNR will charge for copying and shipping, as permitted by RCW 42.56.120. No fee shall be charged for inspection of contract files. Twenty-four (24) hours notice to the RFQ Coordinator is required. All requests for information should be directed to the Coordinator.

2.06 Contract Harvesting Services Quote Format

For a responsive bid, the following bid elements are required to be submitted on or attached to an official DNR Harvesting Services bid form;

OBT harvesting rate per MBF/Ton	Required
Hauling services bid factor (formatted to 3 decimals i.e. #.###)	Required
Responsible Bidder Criteria – Wage Law Compliance	Required
Road construction cost proposal	Required
Statement of Available Resources and Work Plan	Required
All attachments incorporated by reference	Required

2.07 Revisions to the RFQ

The DNR reserves the right to revise the RFQ and/or to issue addenda to the RFQ. The published questions and answers from the Pre-proposal meeting/questions shall be an addendum to the RFQ.

The DNR also reserves the right to cancel or to reissue the RFQ in whole or in part, prior to execution of a Harvesting Services contract. If DNR finds it necessary to revise any part of the RFQ, addenda will be provided to all those who received the RFQ.

2.08 Most Favorable Terms

The State reserves the right to determine the Successful Bidder without further discussion of the Quote submitted. Therefore, the Quote should be submitted initially on the most favorable terms, which the Candidate Harvester can propose. There will be no best and final offer procedure. The State reserves the right to contact a Candidate Harvester for clarification of a Quote.

2.09 Costs to Propose

The DNR will not be liable for any costs that the Candidate Harvester incurs in preparing a Quote related to this RFQ or any other activities related to responding to this RFQ.

SECTION 3 PROJECT SCOPE OF WORK

3.01 Project Scope of Work.

As defined in the Harvesting Services Contract, Road Plan and Timber Sale Map (See Exhibits B, C and D).

3.02 SPECIAL REQUIREMENTS

The Exhibit G will be used for harvester road payment, which has the itemized road construction costs for individual roads. The Exhibit G will use DNR supplied road costs instead of bidder supplied road costs. Harvesters will be allowed to adjust the overall cost of the roads construction costs through the Harvester Road Bid Factor. The Exhibit G does not include Overhead and General Expense or Move-in costs. DNR does not reimburse for these items directly.

The Harvester Bid Factor may be adjusted to a minimum of 0.650 or to a maximum of 1.350. This will adjust the overall road costs for the project. Similar to the Haul Bid Factor.

See Exhibit A, Contract and Road Plan for critical dates and requirements.

In Unit 5 and Unit 6 all harvest operations must be completed by 8/31/2024. This project will require the harvest and delivery of a large amount of timber in a relatively short operating window. It is imperative that the successful harvester has the ability and resources available to complete this project within the anticipated work schedule as described in section 1.04 of this RFQ.

SECTION 4 QUOTE EVALUATION

4.01 Evaluation Team.

DNR will designate an evaluation team to evaluate Quotes. The evaluation team will evaluate quotes according to the requirements outlined in this RFQ and any addenda, which are issued.

4.02 Administrative Requirements.

The RFQ Coordinator will review all Quotes to determine compliance with administrative requirements and instructions specified in the RFQ. Only Quotes meeting the minimum requirements will be forwarded to the evaluation team for further review.

4.03 Responsibleness.

When evaluating Quotes, the evaluation team will consider candidate Harvester's responsibleness. A Candidate Harvester is responsible if it:

- Has adequate financial resources to perform the contract, or the ability to obtain them;

- Is able to comply with the required delivery or performance schedule, taking into consideration all existing commercial and governmental business commitments;
- Has a satisfactory performance record. A Candidate Harvester shall not be determined responsible or non-responsible solely on the basis of a lack of relevant performance history, unless the DNR determines special standards are appropriate. A Candidate Harvester that is or recently has been seriously deficient in contract performance shall be presumed to be non-responsible, unless the DNR determines that the circumstances were properly beyond the Candidate Harvester's control, or that the Candidate Harvester has taken appropriate corrective action. Past failure to apply sufficient tenacity and perseverance to perform acceptably is strong evidence of non-responsibility. Failure to meet the quality requirements of the contract is a significant factor to consider in determining satisfactory performance. The DNR shall consider the number of contracts involved and the extent of deficient performance in each contract when making this determination.
- Any special standards will be properly identified in this solicitation and will apply to all Candidate Harvesters and their subcontractors.

4.04 Information Used for Evaluation.

Evaluators will use the information in the Candidate Harvester's Quote or bid form, their references, their previous Washington DNR performance evaluations, ability to meet special standards, and their Quote or 'Harvesting Services Contract Sealed Bid Form' including their 'Statement of Available Resources and Work Plan'.

4.05 Signatures

Quotes must be signed and dated by a person authorized to bind the Candidate Harvester to a contractual arrangement, e.g., the President or Executive Director if a corporation, the managing partner if a partnership, or the proprietor if a sole proprietorship.

4.06 Failure to Comply

If the Candidate Harvester fails to comply with any requirement of the RFQ, DNR will reject the Quote.

4.07 Rejecting Quotes

The DNR reserves the right at its sole discretion to reject any and all Quotes received without penalty and not to issue a contract from this RFQ. The DNR also reserves the right at its sole discretion to waive minor administrative irregularities contained in any Quote.

4.08 Lowest Responsible Bidder

Award of this Contract shall be to the lowest responsible bidder as determined by the DNR. In determining the lowest responsible bidder, in addition to price, the following may be considered:

- a. the ability, capacity, and skill of the bidder to perform the contract;

- b. the character, integrity, reputation, judgment, experience, and efficiency of the bidder;
- c. whether the bidder can perform the contract within the time specified;
- d. the quality of performance of previous contracts; and
- e. the previous and existing compliance by the bidder with laws relating to the contract or services. The DNR's determination that a bidder is not qualified shall result in rejection of the bid submitted.

4.09 Challenges to the Apparent Successful Bidder

- a. An unsuccessful bidder may appeal the bid award if they believe the process used to award the contract was not conducted properly. Please include the reasons why you believe the contract should not be awarded to the successful bidder.
- b. The DNR Region Manager must receive the appeal; in writing no later than 5 days from the date the letter was sent by email or mail to the bidder notifying them that they were unsuccessful.

The Region Manager shall issue a written decision within 10 days of receipt of the appeal and cite the reasons for approving or disapproving the appeal.

- c. If the appellate is not satisfied with the decision of the Region Manager, the appellant may further appeal to the Deputy Supervisor-Uplands within 5 calendar days from the issuance of the Region Manager's written decision. The Deputy Supervisor-Uplands shall consider all information provided and issue a final decision in writing, citing reasons to approve or disapprove the appellant's appeal.

SECTION 5 RFQ EXHIBITS

- Exhibit A Estimated Harvest Project Schedule
- Exhibit B Draft Harvesting Services Contract
- Exhibit C Road Plan
- Exhibit D Timber Sale Map
- Exhibit E Harvesting Services Contract Sealed Bid Form
- Exhibit F Wage Law Compliance Form



TIMBER NOTICE OF SALE

SALE NAME: GHOST TOWN SORTS

AGREEMENT NO: 30-106329 - 30-106335

AUCTION: June 13, 2024 starting at 10:00 a.m. Pacific Cascade Region Office, Castle Rock, WA

COUNTY: Cowlitz

SALE LOCATION: Sale located approximately 10 miles east of Toutle, WA

PRODUCTS SOLD AND SALE AREA:

All delivered logs, except leave trees marked with blue paint, trees bound with yellow "Leave Tree Area" tags, all down timber greater than 60 inches diameter, bound by the following:

Unit 1, white "Timber Sale Boundary" tags with pink flagging and the 2418A-1 road;

Unit 2, white "Timber Sale Boundary" tags with pink flagging, the 2418A-1, 2418A-2 roads and property line with carsonite posts;

Unit 3, white "Timber Sale Boundary" tags with pink flagging, the 2418-2 road and property line with reprod;

Unit 4, white "Timber Sale Boundary" tags with pink flagging, 2418 road, 2418B road and property line with carsonite posts and pink flagging;

Unit 5, white "Timber Sale Boundary" tags with pink flagging and property line with white carsonite posts and pink flagging;

Unit 6, white "Timber Sale Boundary" tags with pink flagging and property line with white carsonite posts and pink flagging;

ROW 2410C-1, pink flagging;

ROW 2418A1-A, orange "Right of Way" tags and pink flagging; meeting the specifications described below; on parts of Sections 16, and 17 all in Township 10 North, Range 2 East W.M., containing 237 acres, more or less.

MINIMUM BID AND ESTIMATED LOG VOLUMES:

Table with 10 columns: Agreement #, Sort #, Species and Sort Specifications, Average Log Length, Estimated Volume (Mbf, Tons), Tons Per MBF, Minimum Bid Delivered Prices (\$/mbf, \$/Ton), Total Appraised Value, Bid Deposit. Rows include agreement numbers 106329 through 106335.

Totals: 5518 37455 \$2,999,935.00

CERTIFICATION: This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BVC-SFIFM-018227)



TIMBER NOTICE OF SALE

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

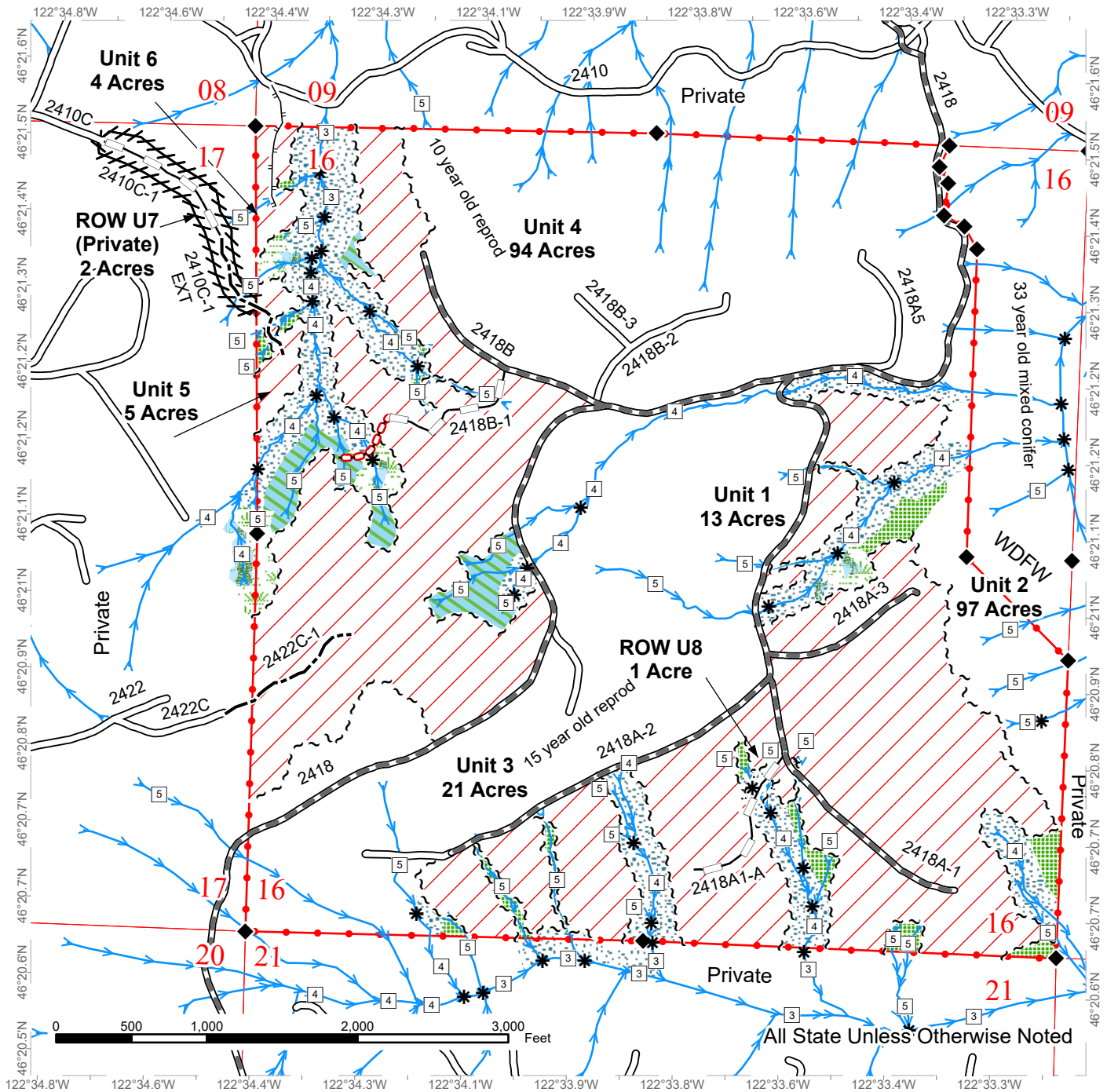
In Unit 5 and Unit 6 all harvest operations must be completed by 8/31/2024.

For more information regarding this log sort sale visit our web site:
<http://www.dnr.wa.gov/programs-and-services/product-sales-and-leasing/timber-sales/timber-auction-packets>. If you have questions call Josh Watten at the Pacific Cascade Region Office at (360)577-2025 or Steve Teitzel at the Product Sales and Leasing Division Office in Olympia at (360)902-1741.

TIMBER SALE MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT #: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160

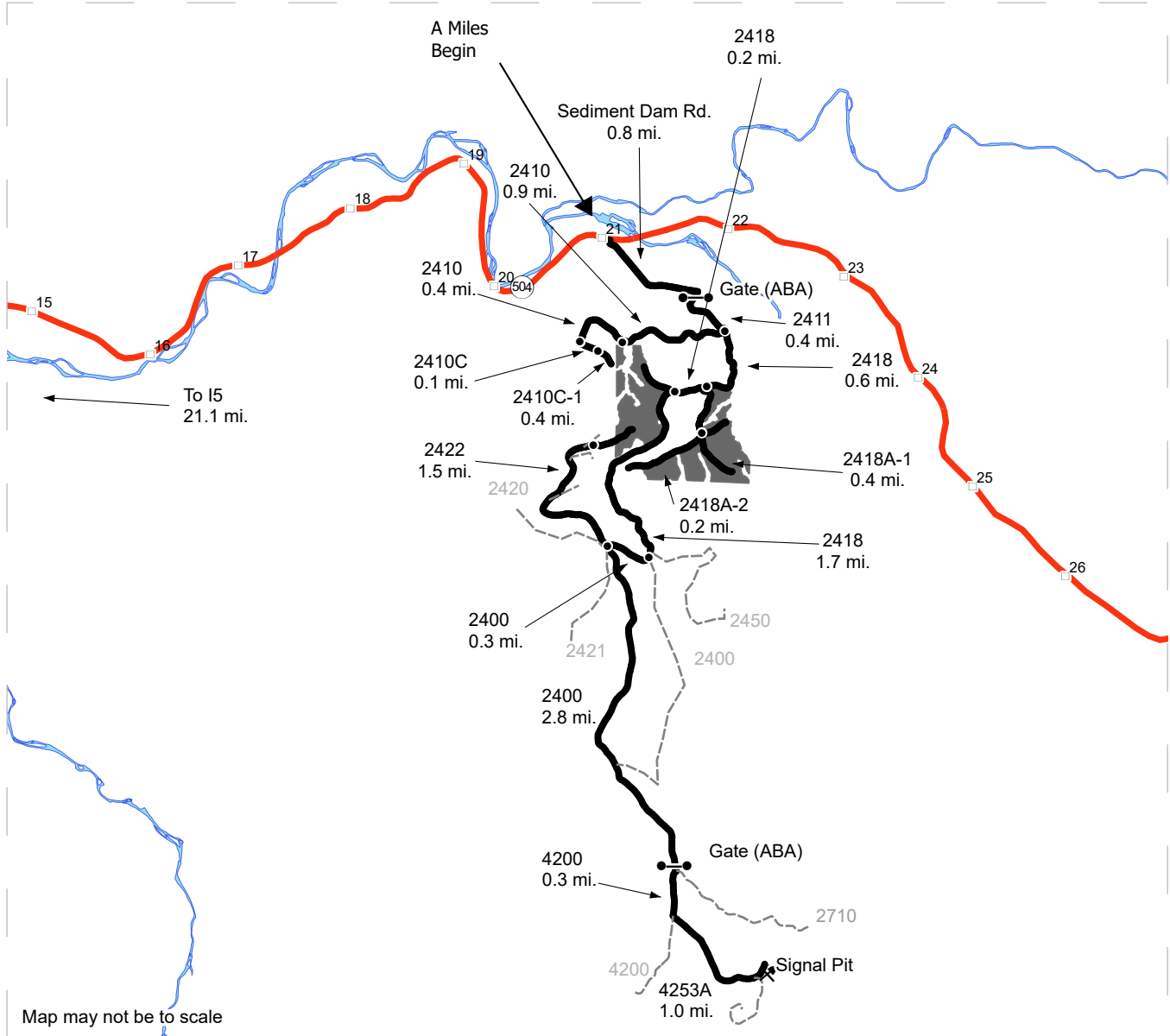


Variable Retention Harvest	Property Line	Optional Construction
Non Tradeable Leave Tree Area	Sale Boundary Tags	Optional Reconstruction
Leave Tree Area	Flag Line	Required Abandonment
Riparian Mgt Zone	Leave Tree Tags	Designated Skid Trail
Forested Wetland	Existing Roads	Streams
Wetland Mgt Zone	Required Pre-Haul Maintenance	Survey Monument

DRIVING MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: None
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



- Timber Sale Unit
- Haul Route
- View Only Route
- Milepost Markers
- Distance Indicator
- Gate
- Rock Pit

DRIVING DIRECTIONS:

From exit 49 off I-5, follow SR 504 east for 21.1 miles. Turn right onto Sediment Dam Rd., after 0.8 miles turn right onto the 2411 road and go through the gate (ABA). Continue on the 2411 for 0.4 miles to the 2411, 2410, and 2418 Junction.

Unit 1: From the Junction continue on the 2418 for 0.6 miles and turn left onto the 2418A-1. The unit will be on the left.

Unit 2: Continue on the 2418A-1 for 0.6 miles. The unit will be on the left.

Unit 3: From Unit 1 continue on the 2418A-1 for 0.4 miles and turn right onto the 2418A-2. Follow for 0.2, Unit 3 will be on the left.

Unit 4: From the 2418/2418A-1 Junction continue on the 2418 for 0.2 miles, Unit 4 will be on the right.

Unit 5: From Unit 6 continue on the 2410 for 0.4 miles and turn left onto the 2410C. After 0.4 miles the reconstruction and new construction of the road will start, walk the centerline to access Unit 5.

Unit 6: From the 2410/2411/2418 Junction turn right onto the 2410 and follow for 0.9 miles. A skid trail accessing Unit 6 will be flagged in orange fagging on the left.

Signal Pit: From Unit 4 continue on the 2418 for 1.7 miles to the 2400 junction. Turn right on the 2400 and continue for 0.3 miles to the 2400, 2421, and 2422 junction. Turn left to stay on the 2400 and follow for 2.8 miles to the gate. At the gate (ABA) continue straight onto the 4200. After 0.3 miles. turn left onto the 4253A and follow for 1 mile into the Signal Pit.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

HARVESTING SERVICES CONTRACT

AGREEMENT NO. 30-0104392

SALE NAME: GHOST TOWN SORTS

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

Section G: General Terms

G-001.1 Definitions

The following definitions apply throughout this contract;

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

Contractor: State-selected harvester responsible to perform all duties as required by the Harvesting Services Contract, including but not limited to timber harvesting, road construction, debris removal and piling, hauling and delivery of forest products for weighing and/or scaling, to the Purchasers of the timber sales Sorts.

Delivery: Occurs when logs or forest products meeting the sorting specifications arrive at the Purchaser's destination, as described in the contract.

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

Harvesting: A general term, referring to the Contractor's various obligations under the Harvesting Services Contract.

Harvesting Services Contract: Contract between the Contractor and the State, which sets forth the procedures and obligations of the Contractor for completing the harvesting of timber, and the delivery of various log sorts to the State's purchasers, and the payment obligations of the State, The Harvesting Services Contract will include a Road Plan for any road construction or reconstruction, where applicable.

Log Sale and Purchase Contract: Purchase Agreement between the State and Purchaser(s) of particular log sorts from the timber sale.

Purchaser: The company or individual that has entered a Log Sale Contract with the State for individual log sorts from the timber sale area. The Contractor must deliver the designated log sorts to this company or individual. Contractor will likely be delivering different log sorts to different purchasers under the Harvesting Services Contract.

Road Construction Services: 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 logs 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 Contractor to perform a portion or all of the services required by the Harvesting Services Contract. The Contractor is responsible for independently negotiating, procuring and paying for all subcontracted services rendered.

G-015.1 Harvest Area and Location

Contractor shall harvest and deliver, All delivered logs, except leave trees marked with blue paint, trees bound with yellow "Leave Tree Area" tags, all down timber greater than 60 inches diameter, bound by the following:

Unit 1, white "Timber Sale Boundary" tags with pink flagging and the 2418A-1 road;

Unit 2, white "Timber Sale Boundary" tags with pink flagging, the 2418A-1, 2418A-2 roads and property line with carsonite posts;

Unit 3, white "Timber Sale Boundary" tags with pink flagging, the 2418-2 road and property line with reprod;

Unit 4, white "Timber Sale Boundary" tags with pink flagging, 2418 road, 2418B road and property line with carsonite posts and pink flagging;

Unit 5, white "Timber Sale Boundary" tags with pink flagging and property line with white carsonite posts and pink flagging;

Unit 6, white "Timber Sale Boundary" tags with pink flagging and property line with white carsonite posts and pink flagging;

ROW 2410C-1, pink flagging;

ROW 2418A1-A, orange "Right of Way" tags and pink flagging; located on approximately 237 acres on part(s) of Sections 16, and 17 all in Township 10 North, Range 2 East W.M. of Cowlitz County as shown on the attached timber sale map.

G-020.1 Inspection by Contractor

Contractor hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products to be harvested. Contractor further warrants to the State that they enter this contract based solely upon their own judgment of the harvest and road work, and condition of the forest products, formed after their own examination and inspection of both the timber sale area and the forest products to be harvested. Contractor 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.

G-022.1 Sorting Specifications

Contractor is responsible for sorting logs to the specifications listed below and hauling to the appropriate designated locations. Contractor is responsible for determining the highest value of each tree felled and the highest value destination of each log manufactured. The Contract Administrator will provide direction and guidance to Contractor with respect to highest value.

Contractor shall deliver log sorts to the Purchaser(s) location that meet the following specifications:

Agreement No.	Sort #	Species Diameter	Scaling Rule	Preferred Log Lengths	Destination	A Miles	C Miles
106329	1	DF 5"-11"	WS				2.7
106330	2	DF 12"+	WS				2.7
106331	3	RA 5"+, MA 8"+	WS				2.7
106332	4	RC 5"+	WS				2.7
106333	5	WW 5"+	WS				2.7
106334	6	Conifer Pulp 2"+	WS				2.7
106335	7	Hardwood Pulp 2"+	WS				2.7

“WS” indicates that west side scaling rules apply. Minimum trim is 10 inches per scaling segment for west side scaling rules. “ES” indicates that east side scaling rules apply. Minimum trim is 6 inches per scaling segment for east side scaling rules.

Logs delivered by Contractor that do not meet the receiving Purchaser’s log sort requirements as described above that have been pre-approved for delivery by the Contract Administrator shall not be considered mis-sorts.

G-024.1 Manufacturing Standards

Logs produced under this contract will be manufactured by Contractor meeting the individual sort specifications and Purchaser’s preferred log lengths as listed in clause G-022.1, with a minimum length of 16 feet, unless otherwise directed by the Contract Administrator.

For sorts designated as non-utility, Contractor will manufacture and deliver logs with the following minimum specifications:

- a. Sweep will be limited to within the bole of the log as measured using a tape stretched between the centers of each end of the log.
- b. Limbs and knots shall be cut flush, with no more than 15 percent of a log having limbs or knots over 2 inches in diameter extending more than 2 inches above the surface of the log.
- c. Logs in peeler sorts shall be chuckable with no more than a 2 inch diameter area of rot within a 5 inch diameter circle located at the center of either end of the log.

G-027.1 Log Delivery Schedule and Conditions

- a. Contractor shall deliver logs to Purchaser’s designated delivery location beginning no later than July 8, 2024 and completed by November 30, 2024. Failure to begin deliveries by the specified date may result in the State imposing damages per clause D-022.1 unless an alternate start date is agreed upon by the State and Contractor. If a log delivery location is changed during this contract, the Contract Administrator shall notify the Contractor. Once notified, the Contractor shall deliver logs to the new location.
- b. The Contractor may deliver logs to the Purchaser’s delivery location during the Purchaser’s working hours, or at least between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, except, scheduled closures and legal holidays for the contract term as described in clause G-030.1, unless permission to do otherwise is agreed upon by the State.
- c. The Contractor agrees to deliver said logs on conventional or self-loading logging trucks, properly and legally loaded, bound, branded, and ticketed. Logs in loads shall not be double-ended unless approved in writing by the Contract Administrator. It is understood and agreed that the Purchaser incurs

no obligation to accept improperly or illegally loaded trucks in its facility. Any truck so loaded may be directed to vacate the yard and shall remain the responsibility of the Contractor to make the load conform to legal requirements for hauling.

- d. If a receiving Purchaser plans a scheduled closure, the Contract Administrator shall notify the Contractor at least 48 hours before the scheduled closure. Depending on the length of the scheduled closure or delays in log delivery, the Contract Administrator will decide in the best interest of the State on the disposition of the affected log sort(s) or any alternate delivery schedule or location.
- e. Contractor’s daily log delivery to a Purchaser’s location may be limited according to the table below, provided the Contract Administrator notifies the Contractor at least 48 hours prior to the time this truck delivery limit is established.

Sort(s)	Maximum No. Loads/day
1,2,3,4,5,6,7	10

- f. A truck delivery is all the wood hauled including sorts on super trucks, mule trains and pups brought to the delivery point by a single truck. Contractor shall notify the State’s Contract Administrator if for any reason a Purchaser refuses truck deliveries.

G-030.1 Contract Term and Expiration Dates

To ensure the timely completion of activities under this contract, all activities required under this contract are to be completed between the starting date of July 1, 2024 and the expiration date of December 31, 2024.

Contractor shall not have any right to enter the sale area to perform any remaining road construction or harvesting services after contract expiration unless a contract extension has been granted.

G-033.1 Notification of Operations

Contractor shall provide the State with five days advance written notice to the Contract Administrator of its intent to commence or cease any and all operations under this contract. The commencement or cessation of operations must be approved by the Contract Administrator. Failure to comply will be considered a breach.

G-040.1 Contract Term Adjustment

A Contract Term Adjustment may be considered based on actual time lost through unforeseeable causes beyond the control and without fault or negligence of the Contractor, including, but not restricted to, acts of the State, closures by government regulatory agencies, mill closures, fires, vandals, and unusually severe weather

conditions, provided that the Contractor shall, within seven (7) calendar days of the initiation of such delay, notify the State, in writing, of the cause of delay, upon which notification the State shall ascertain the facts and extent of the delay and notify the Contractor in writing of its decision regarding contract adjustment.

G-050.1 Contract Term Extension

An extension of operating authority time may be granted at the discretion of the State upon written request thirty (30) days prior to the termination date and upon the terms and conditions as specified by the State. Contract extensions may not exceed thirty (30) days unless otherwise agreed to by State and Contractor. Extension requests within the last thirty (30) days of the contract may be considered if the extension would be in the best interest of the State. The extension, if granted, will be contingent upon the payment of an extension fee to the State, by the Contractor, in the amount of \$100.00 per day of extension.

G-054.1 Early Contract Termination

The State may terminate this contract prior to the expiration date listed in G-030.1 in whole or in part by giving fifteen (15) days written notice to the Contractor when it is in the best interests of the State. If this contract is so terminated, the State shall be liable to make payments to the Contractor for the sum of the estimated expenditures for road construction, felling, bucking, yarding and decking of products processed but not removed from the sale area due to termination action. Contractor may not seek any other damages from the State for early termination of this harvesting agreement.

G-060.1 Exclusion of Warranties

The following specific matters ARE NOT WARRANTED, and are EXCLUDED from this transaction:

- a. The CONDITION of the site or forest products. Any descriptions of the site or forest products in the notice of sale, other pre-contractual documents, or the Harvesting Services Contract are provided solely for administrative and identification purposes.
- b. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the notice of sale, other pre-contractual documents, or the Harvesting Services Contract are estimates only, provided solely for administrative and identification purposes.
- c. The VOLUME, WEIGHT, QUALITY, or GRADE of the forest products to be harvested. The descriptions of the forest products to be harvested are estimates only, made solely for administrative and identification purposes.
- d. 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 informational purposes, but the

information contained therein is not warranted. Contractors must make their own assessments of the site.

- e. 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.
- f. 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.
- g. Items contained in any other documents prepared for or by the State.

G-061.1 Inadvertent Discovery of Cultural Resources

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

G-062.1 Habitat Conservation Plan

The Department 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 Department's HCP area and are subject to the terms and conditions of the HCP and the Services' Incidental Take Permit TE812521-1 and ITP 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 Department's Region Offices and the administrative headquarters in Olympia, Washington.

By signing this contract, Contractor agrees to comply with the terms and conditions of the ITP and the HCP, which shall become terms of this contract. The Department agrees to authorize the lawful activities of the Contractor carried out pursuant to this

contract, PROVIDED the Contractor 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 the Contractor to liability for violation of the Endangered Species Act.

Any modifications to the contract shall be proposed in writing by the Contractor, 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-063.1 Incidental Take Permit Notification Requirements

- a. Contractor shall immediately notify the Contract Administrator of new locations of permit species covered by the Incidental Take Permits (ITPs) 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. Contractor 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 ITPs, Contractor shall immediately notify the Contract Administrator. Contractor shall notify the Contract Administrator, if there is any doubt as to the identification of a discovered permit species. Contractor 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 Contract Administrator can determine the proper disposition of such specimens. The Contract Administrator will explain any such requirements to Contractor during the Pre-Work Conference. In all circumstances, notification must occur within a 24 hour time period.
- c. Contractor 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 ITPs shall be clearly presented and explained to Contractor by Contract Administrator during the Pre-Work Conference as per contract clause G-330.1. All applicable provisions of the ITPs and this schedule must be presented and clearly explained by Contractor to all authorized officers, employees, contractors, or agents of Purchaser conducting authorized activities in the timber sale area. Any questions Contractor may have about the ITPs should be directed to the Contract Administrator.

G-064.1 Permits

Contractor is responsible for obtaining any permits not already obtained by the State that relate to Contractor's operation. Forest Practice Application / Hydraulic Project Approval permits obtained by the State shall be transferred to Contractor. Contractor 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-066.1 Governmental Regulatory Actions

a. Regulatory Risk

Except as provided in this clause, Contractor assumes all risks associated with governmental regulatory actions, including actions taken pursuant to the Forest Practices Act, Ch. 76.09 RCW, the Endangered Species Act, 16 U.S.C 1531-1544 and any Habitat Conservation Plan between the Department of Natural Resources and the U.S. Fish and Wildlife Service or any other agency now in place and as may be amended, or hereafter created, that may affect the operability of the timber sale.

b. Increased Costs

Contractor 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 Contractor's failure to comply with this contract or from Contractor's acts or omissions, Contractor shall remain responsible for fulfilling contract obligations notwithstanding the impracticability or frustration.

G-070.1 Limitation on Damage

In the event of a breach of any provision of this contract by the State, the exclusive remedy available to the Contractor will be limited to a return of the Performance Security, and payment for improvements and other services rendered by the Contractor, which were required by the Harvesting Services Contract. The State shall not be liable for any damages, whether direct, incidental, or consequential.

G-092.1 Harvest Area Boundary Adjustment

The State may make adjustments in the harvest area boundaries, or may mark timber outside such boundaries. The cumulative changes to the sale area during the term of the contract shall not exceed more than five (5) percent of the original sale area. Such adjustments or marking will be accomplished by the Contract Administrator. The Contractor must remove and deliver all material so designated, prior to the expiration

date of the contract. All contract services within such boundary adjustments or so marked shall be paid for at contract rates.

G-112.1 Title

All rights, title, and interest in and to any timber shall belong to the State until delivered, at which time the appropriate Purchaser assumes title.

G-116.1 Sustainable Forestry Initiative® (SFI®) Certification

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

Contractor 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. Contractor 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-120.1 Responsibility for Work

All work, equipment, personnel, and materials necessary to perform the Harvesting Services Contract shall be the responsibility of the Contractor.

G-121.1 Exceptions

Exceptions to Contractor's responsibility in clause G-120.1 shall be limited exclusively to the circumstances described in this clause. These exceptions shall not apply where damages occur due to Contractor's failure to take reasonable precautions or to exercise sound forest engineering and construction practices.

The State shall bear the cost to repair any existing roadway or section of required road completed to the point that an authorization to haul has been issued where such damage was not caused by Contractor, its employees, agents, or invitees, including independent contractors. Contractor shall accomplish repairs promptly as required by the State at the rates set forth in the equipment rate schedule on file at the Region office or Engineering Division in Olympia. The State may elect to accomplish repairs by means of State provided resources.

Nothing contained in clauses G-120.1 (Responsibility for Work) and G-121.1(Exceptions) shall be construed as relieving Contractor of responsibility for, or damage resulting from, Contractor's operations or negligence, nor shall Contractor be relieved from full responsibility for making good any defective work or materials.

G-123.1 Operating Authority

The State has arranged for the Contractor to have full and free license and authority to enter upon said lands with his agents and employees and do all things necessary, within the limitations herein set forth, in harvesting said timber as described in this contract.

G-124.1 Contractor Not an Employee of State

Contractor and his or her employees or agents performing under this contract are not employees of the State. The Contractor will not hold itself out as nor claim to be an officer or employee of the State by reason hereof, nor will the Contractor make any claim or right, privilege or benefits which would accrue to an employee under chapter 41.06 RCW or Chapter 28B.16 RCW.

G-125.1 Use of Subcontractors

Contractor's use of subcontracted services shall be subject to approval in writing by the Contract Administrator. Approval of subcontracted services may be revoked in accordance with the G-220.1 'State Suspends Operations' clause when the Contract Administrator determines that the Subcontractor's work has been performed in a manner that does not meet contractual requirements, optimize value or otherwise causes damage to the state.

Contractor shall arrange with the Contract Administrator to meet on site at least once a week during active operations to review and inspect subcontractor performance. Contractor shall provide a written plan of operations detailing planned operations for the following week.

G-126.1 Disputes with Subcontractors or Material Providers

Should Contractor and its subcontractors or materials providers develop disputes affecting the completion of obligations under this contract, Contractor shall resolve any such disputes in a timely and efficient manner that does not involve or adversely affect either the State or its Purchasers.

G-130.1 Prevention of Damage and Consequences of Contractor-Caused Damage

The Contractor agrees to exercise due care and caution at all times to avoid damage to all special resources including environmentally sensitive areas, research, demonstration, and cultural objects or areas. Additionally, the Contractor agrees to protect all improvements on State property affected by the work of this contract including, but not limited to, roads, culverts, bridges, ditches, fences, utility lines, and buildings.

If damages occur due to the Contractor's operations, the Contractor shall be responsible for damage or restoration costs, or other compensation measures as described in this contract. State may deduct damage or restoration costs from payments to the Contractor. This clause shall not relieve the Contractor from other applicable civil or criminal remedies provided by law.

G-140.1 Indemnity

To the fullest extent permitted by law, Contractor 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. Contractors' obligations to indemnify, defend, and hold harmless includes any claim by Contractors' agents, employees, representatives, or any subcontractor or its employees. Contractor expressly agrees to indemnify, defend, and hold harmless State for any claim arising out of or incident to Contractors' or any subcontractors' performance or failure to perform the contract. Contractors' 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. Contractor 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.

In addition to any other remedy authorized by law, the State may retain as much of the performance security, or any money or credits due Contractor necessary to assure indemnification.

G-150.1 Insurance

Contractor 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 also suspend Contractor operations until required insurance has been secured.

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 should issue all insurance and surety bonds. Any exception shall be reviewed and approved by the department's risk manager before the insurance coverage is accepted. If an insurer is not admitted, all insurance policies and procedures for issuing the insurance policies must comply with Chapter 48.15 RCW and 284-15 WAC.

The State of Washington, Department of Natural Resources Pacific Cascade region office 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, Contractor shall furnish State 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. The Contractor shall obtain insurance coverage prior to operations commencing and continually maintain it in full

force until all contract obligations have been satisfied or an operating release has been signed by the State.

Contractor 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 Contractor'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. Contractor 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 Contractor and such coverage and limits shall not limit Contractor'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, shall not be less than as follows:

Commercial General Liability (CGL) Insurance. Contractor 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. Contractor 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. Contractor shall comply with all State of Washington workers' compensation statutes and regulations. Workers' compensation coverage shall be provided for all employees of Contractor 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, Contractor 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 Contractor, 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, Contractor shall indemnify State. Indemnity shall include all fines, payment of benefits to Contractor or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

Business Auto Policy (BAP). Contractor 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. Contractor 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-160.1 Agents

The State's rights and duties will be exercised by the Region Manager. The Region Manager will notify Contractor 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-180.1. 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 harvested beyond the terms of this contract.

Contractor is required to have a person on site during all operations who is authorized to receive instructions and notices from the State. Contractor 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-170.1 Assignment and Delegation

Contractor shall assign no rights or interest in this contract 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. Contractor may perform any duty through a delegate, but Contractor 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 Contractor.

G-180.1 Modifications

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

G-181.1 Contract Modification for Protection of Resources and Improvements

The Harvesting Services contract may be unilaterally terminated or modified by the State upon determination that the Contractor's operations would cause serious damage to resources or improvements, or would be significantly inconsistent with State land management plans.

In the event of contract modification under this section and through no fault of Contractor operations, the Contractor shall be reimbursed for any additional operations required, provided that any work or extra protection shall be subject to prior approval of 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-200.1 Notice

Notices required to be given by the State under the following clauses shall be in writing and shall be delivered to the Contractor's authorized agent or sent by certified mail to the Contractor's address of record, so that their receipt may be acknowledged by Contractor.

G-092.1 Harvest Area Boundary Adjustment

G-181.1 Contract Modification for Protection of Resources and Improvements

G-210.1 Violation of Contract

G-220.1 State Suspends Operation

D-015.1 Delivered Mis-sorted Logs and Penalties

D-016.1 Damages for Delivered Mis-manufactured Logs

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. Contractor agrees to notify the State of any change of address.

G-210.1 Violation of Contract

- a. If Contractor 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, the Contractor has fifteen (15) days after receipt of suspension notice to remedy the violation. If the

violation cannot be remedied or Contractor fails to remedy the violation within fifteen (15) days after receipt of a suspension notice, the State may terminate the rights of the Contractor and collect liquidated damages under this contract associated with the breach. In the event of such a contract termination, the State may demand all or part of the Contractor's surety in order to satisfy the State's damages.

- b. The State has the right to remedy a breach if Contractor is unable, as determined by the State, to remedy the breach, or if the Contractor has not remedied the breach within 15 days of a suspension notice. Any expense incurred by the State in remedying Contractor's breach may be charged to Contractor, or State may deduct such expenses from payments to the Contractor.
- c. If the contract expires without the Contractor having performed all their duties under this contract, Contractor's rights and obligations to harvest, deliver forest products, and perform any additional contract-related requirements are terminated. Thus, Contractor cannot remedy any breach once this contract expires. This provision shall not relieve Contractor of any financial obligations and unresolved contractual agreements, including payment to sub-contractors for work performed under this contract.

G-220.1 State Suspends Operations

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

Contractor shall be in breach of this contract if the operation continues after the suspension notice or if the operation resumes prior to approval and notice from the Contract Administrator.

Contractor may request a modification of suspension within seven (7) calendar days of the start of suspension through the dispute resolution process. If this process results in a finding that the suspension exceeded the time reasonably necessary to stop or prevent damage to the State, Contractor may request a contract term adjustment based on the number of excess days of suspension.

G-230.1 Unauthorized Activity

Any cutting, removal, or damage of forest products by Contractor, 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 Contractor 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-240.1 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, Contractor 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 Contractor's request within five business days.
- c. Within five business days of receipt of the Region Manager's decision, the contractor may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.
- d. Unless otherwise agreed, the Deputy Supervisor - Uplands will hold a conference within 15 calendar days of the receipt of Contractor's request for review of the Region Manager's written decision. Contractor 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-250.1 Compliance with All Laws

Contractor 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. Contractor shall provide documentation from Washington State Departments of Labor and Industries and Revenue that all obligations concerning worker compensation and safety will be met. Failure to comply may result in forfeiture of this contract.

G-251.1 Harassment

Per RCW 43.01.135, Sexual harassment in the workplace, Agency Contractors hereby have access to DNR Policy PO01-007 Harassment Prevention:

https://www.dnr.wa.gov/publications/em_PO01-007_harassment_prevention.pdf

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-270.1 Equipment Left on State Land

All equipment owned or in the possession of Contractor, 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 30 days after the expiration of the contract period is subject to disposition as provided by law. Contractor 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-280.1 Operating Release

An operating release is a written document, signed by the State and the Contractor, indicating that the Contractor has been relieved of certain rights or responsibilities with regard to the entire or a portion of the timber sales contract. Contractor 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, Contractor's right to cut and remove forest products on the released area will terminate.

G-310.1 Road Use Authorization

The Contractor is authorized to use the following State roads, and roads for which the State has acquired easements and road use permits; 2400, 2410, 2411, 2410C, 2410C-1, 2410C-1 EXT, 2418, 2418A-1, 2418A1-A, 2418A-2, 2418A-3, 2418B, 2418B-1, 2422, 2422C, 2422C-1, 4200, 4253A, 4253F roads. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-330.1 Pre-work Conference

Contractor 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 Contractor 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 Contractor's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Contractor's purposes or complies with applicable laws.

Contractor shall arrange with the Contract Administrator to review this contract and work requirements with any and all subcontractors prior to receiving authorization for any subcontractor to begin operations.

G-340.1 Preservation of Markers

Any legal land subdivision survey corners and witness objects are to be preserved. If such are destroyed or disturbed, the Contractor shall, at the Contractor'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-370.1 Blocking Roads

Contractor shall not block the 2410 and 2418 roads, unless authority is granted in writing by the Contract Administrator.

G-380.1 Road Easement and Road Use Permit Requirements

The State grants Contractor the right to operate under the following rights of way:

Easement #55-000052 between Weyerhaeuser and State dated 1/31/1967.

RUP #55-106653 between Weyerhaeuser and State dated 2/26/2024.

G-430.1 Open Fires

The Contractor its employees or its subcontractors shall not set or allow to be set any open fire at any time of the year without first obtaining permission in writing from the Contract Administrator.

G-450.1 Encumbrances

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

Easement, including the terms and provisions thereof,
For: Buried Power
In Favor of: CSI Communications, Inc.
Disclosed by Application No.: 50-054817
Granted: 7/31/1996
Expires: 3/1/2026

Easement, including the terms and provisions thereof,
For: Road Use Permit
In Favor of: DNR
Disclosed by Application No.: 55-106653
Granted: 2/26/2024
Expires: Indefinite2/25/2026

Lease, including the terms and provisions thereof,
For: Land Use License
In Favor of: Weyerhaeuser Timber Holdings, Inc.
Disclosed by Application No.: 60-106554
Granted: 3/1/2024
Expires: 12/31/2024

Section P: Payments and Securities

P-030.1 Payment for Harvesting and Hauling Services

The State shall pay Contractor for harvesting and hauling services at the following rates:

Payment for Harvesting Stump to Truck ('On Board Truck' or OBT): The State's payment to the Contractor for harvesting services will be in accordance with the following table;

Sort Number(s)	Unit of Measure	OBT Rate	OBT Utility Rate
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2,4	Ton	\$0.00	\$14.00
1,3,5	Ton	\$0.00	N/A
6,7	Ton	\$14.00	N/A

Utility volume for mbf sorts determined on an adjusted gross scale basis.

The State shall not pay for any logs scaled containing metal.

Payment for Hauling: The State's payment to the Contractor for hauling services upon the tons delivered multiplied by: a base rate, 'A' and 'C' mile rates, the 'haul miles' listed in clause G-022.1, a fuel index factor and the Contractor's hauling bid factor using the following formula:

Hauling Services Payment Rate per Ton
 = (Base Rate + Mileage Rate) x (DATA MISSING: No data found.)

Base Rate = \$2.35
 (based on the multiple truck operation fixed cost/ton within 'Report to the Washington State Legislature, The Washington Log Trucking Industry: Costs and Safety Analysis, August 2008'.)

Mileage Rate = (($\$0.16 \times C$ miles) + ($\$0.11 \times A$ miles)) x Fuel Index Factor

The Fuel Index Factor will be adjusted quarterly by the State based upon the U.S. Energy Information Administration's Weekly Retail On-Highway Diesel prices for the West Coast region posted at <https://www.eia.gov/petroleum/gasdiesel/> using the following formula;

Fuel Index Factor = $1 + ((Q(x) - Q(\text{base})) / Q(\text{base}))$

Where;

Q(base) = Average fuel price for quarter preceding harvesting services contract bid opening.

Q(x) = Average fuel price for quarter preceding log deliveries.

The fuel index factor will be calculated each;

January and apply to loads delivered between January 1 and March 31,

April and apply to loads delivered between April 1 and June 30,

July and apply to loads delivered between July 1 and September 30,

October and apply to loads delivered between October 1 and December 31.

Travel distances to each log sort destination will be determined by the State and represents the one-way travel distance from the sale area to the purchaser's delivery point.

Long-haul surcharge: An additional haul payment of \$25/mbf net scale for mbf scale sorts or \$4.60/ton for tonnage sorts will be added for delivery destinations in excess of 250 total one-way miles (A miles plus C miles).

The state must approve all haul routes and will determine travel distances prior to contractor delivery of logs to each specified destination. The State may determine alternate haul routes and delivery destinations during the course of this contract. Upon notification by the State, the Contractor is required to deliver logs: using the alternative route, or to State approved alternative delivery locations. Payment rates for approved alternate routes and delivery destinations shall be set forth by amending this clause in accordance with clause G-180.1.

For sorts bid on an mbf basis tonnage will be calculated using the State’s conversion rates in the table below unless actual tonnage is available and approved for use. For tonnage sorts, actual tonnage shall apply.

MBF Sort(s)	MBF/Tons Conversion Factor
2	5
4	6.5

Contractor is responsible for billing the State for harvesting and hauling services performed using load data collected by State approved third party scaling organizations and reported by the State designated Log and Load Reporting Service. The billing statement shall include itemized accounts and summaries of harvesting tonnage and hauling mileage charges in a format approved by the State.

The billing schedule shall be the 1st and the 16th of each month with payment due by State within fourteen (14) days. Reporting periods end on the 15th and the end of each month.

No certificate given or payment made shall be evidence of the satisfactory performance of the Contract, either wholly or in part, against the claim of the State to the contrary, and no payment shall be construed to be an acceptance of any defective work, which may before or afterwards appear.

P-031.1 Payment for Hauling Across Ferries and Other Miscellaneous Tolls

Prior authorization is required for payment of any additional transportation charges incurred by Contractor, including: ferries, toll bridges, and other miscellaneous tolls.

For payment including ferries, toll bridges, or other miscellaneous tolls, the Contractor’s billing statement must include an itemized list of loads by trucker name and truck number, DNR load ticket number and date of crossing(s):

- a. Reimbursement for authorized ferry tolls will be at a fixed rate of 15 for each crossing with a loaded truck and 15 for each empty return. A ‘Wave2Go’ statement or

equivalent documentation shall be included with the itemized list. For any loads over 80' loaded and 60' empty, the Contractor will be reimbursed the actual cost, Wave2Go or ferry receipts must be provided for reimbursement.

b. 'Good to Go' regulated bridge tolls will be reimbursed at a fixed rate of \$15.00 per authorized toll crossing. A "Good To Go" statement or equivalent documentation shall be included with the itemized list. This reimbursement is based upon one-way tolling, if a two-way toll is charged, payment receipts must be provided for reimbursement.

c. Miscellaneous tolls controlled by the Washington State Transportation Commission (WSTC), or other government agencies, will be reimbursed at their posted rates or the actual cost; receipts must be provided.

Requests for payment of ferry and toll charges must be received by the State prior to contract termination. Contractor shall only be reimbursed for the amount of toll approved for payment by the Contract Administrator.

Payment for ferries or tolls incurred for backhauling loaded trucks, in either direction, shall be the responsibility of the Contractor and will not be reimbursed by the State.

Convenience tolling, fines, and/or extra charges will not be reimbursed.

P-032.1 Payment for Road Construction

The Contractor is responsible for independently negotiating, procuring and paying for road construction services provided.

The State shall pay Contractor for roadwork completed at the following rates:

MISSING DATA

One station of road construction is 100 feet. All materials, equipment time, labor, and equipment mobilization costs are included in the total price. Any part of the road plan not covered in the rates above shall be paid for by the Contractor at their own expense.

Upon completion of road construction, the Contractor shall submit a report identifying the road(s), and the number of stations that have been completed to the Contract Administrator. Once the Contract Administrator has approved the roadwork in writing, the Contractor is responsible for billing the State for road construction services performed. The billing statement shall include an itemized account of the road(s), the number of stations and which stations have been completed. The Contract Administrator will verify that road construction described on the billing statement is complete prior to State making payment to Contractor.

The billing schedule shall be the 1st and the 15th of each month with payment due by State within fourteen (14) days. Reporting periods end on the 14th and the end of each month.

No certificate given or payment made shall be evidence of the satisfactory performance of the Contract, either wholly or in part, against the claim of the State to the contrary, and no payment shall be construed to be an acceptance of any defective work, which may before or afterwards appear.

P-033.1 Payment for Additional Road Maintenance Work

The Contractor is responsible for independently negotiating, procuring and paying for additional road maintenance services provided.

During the course of operations, the State may identify and require additional road maintenance work to be completed by the Contractor. The amount of payment for this additional road maintenance work deemed necessary by the State will be calculated and paid for using the equipment rates in Schedule M 'Additional Road Maintenance Payment Rates'.

Upon completion of any additional road maintenance work, the Contractor shall submit a report identifying the road(s), and the number of stations that have been completed to the Contract Administrator. Once the Contract Administrator has approved the additional road maintenance work in writing, the Contractor is responsible for billing the State for additional road maintenance services performed. The billing statement shall include an itemized account of the road(s), the number of stations and which stations have been completed. The Contractor Administrator will verify that road maintenance described on the billing statement is complete prior to State making payment to Contractor. The billing schedule shall be the 1st and the 15th of each month with payment due by State within fourteen (14) days. Reporting periods end on the 14th and the end of each month.

No certificate given or payment made shall be evidence of the satisfactory performance of the Contract, either wholly or in part, against the claim of the State to the contrary, and no payment shall be construed to be an acceptance of any defective work, which may before or afterwards appear.

P-034.1 Payment for Additional Miscellaneous Work

During the course of operations, the State may identify and require additional miscellaneous work to be completed by the Contractor.

A plan for the additional work deemed necessary by the State shall be provided by the Contractor and must be approved in writing by the State prior to commencement of work by the Contractor. After the Contract Administrator has inspected and approved the work in writing, the Contractor is responsible for billing the State for work performed. The billing statement shall include an itemized account of the equipment, labor and materials necessary for the additional work that has been completed and approved.

The State shall reimburse the Contractor for approved costs within thirty (30) days of State's approval of the statement.

No certificate given or payment made shall be evidence of the satisfactory performance of the Contract, either wholly or in part, against the claim of the State to the contrary, and no payment shall be construed to be an acceptance of any defective work, which may before or afterwards appear.

P-090.1 Performance Security

Prior to start of any operations Contractor agrees to provide one or more of the following State approved performance securities; cash, savings account assignment, certificate of deposit assignment, irrevocable standby letter of credit, or a Miller Act bond, for the amount of \$10,000.00. At least 50% must be in a form other than a bond, unless otherwise agreed to by the State.

\$50,000.00 for performance security.

Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by Contractor's operations, failure to perform, or noncompliance with any rule or law. In addition, said security may be used by the State to satisfy any claims or liens made by Contractor's subcontractors, material providers, or other individuals against the State or its Purchasers, which arise from this Harvesting Services Contract.

If at any time the State decides that this security has become unsatisfactory, the Contractor agrees to suspend operations and, within fifteen (15) days of notification, replace the security with one acceptable to the State. The State may also require increases to the existing performance security at any time.

Unapplied performance security will be returned to Contractor after the State issues an operating release and completes the financial closeout.

P-100.1 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 Contractor. Prior to any reduction of the performance security amount, the Contractor must submit a written reduction request. No reduction will be allowed by the State unless such reduction can be made while fully protecting the State's interests.

P-120.1 Contractor Responsibility for Subcontractor Services

Contractor is responsible for negotiating, procuring, and paying for all services rendered by any subcontractor. Subcontractor services may include, but are not limited to, harvesting logs, hauling logs, and building roads.

Section L: Log Definitions and Accountability

L-010.1 Forest Products Conveyed

Forest products conveyed are logs or parts of logs delivered meeting the sorting criteria defined by clause G-022.1 and manufacturing standards defined by clause G-024.1 of this contract.

L-013.1 Log Sorts Delivered to Incorrect Destination

Purchasers have agreed to purchase the log sort (s) as described in the G-022.1 clause. In the event a load of logs from an incorrect sort is delivered to a Purchaser, the Purchaser may reject the load. If Purchaser receives an incorrectly delivered load, Contractor shall notify the State within 24 hours. The Contractor will maintain responsibility for proper disposition and delivery of incorrectly delivered loads.

L-060.1 Load Tickets

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

Contractor shall account for all load tickets issued by the Contract Administrator. The State may treat load tickets not accounted for as lost forest products. All costs associated with computing the billings for lost loads shall be borne by Contractor.

L-080 Scaling Rules

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

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

L-110 State Approval of Log Scaling and Weighing Locations

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

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

L-114.1 State Approval of Haul Route

Contractor shall file with the Contract Administrator and Contract Administrator shall approve a map showing the haul route, which unscaled and unweighed logs will travel from the harvest area to the weighing/scaling location and approved destinations. The Contractor must notify Contract Administrator within 24 hours of any deviation from the haul route. The route of haul may be changed by prior agreement of the State and the Contractor. The Contract administrator must be notified by the Contractor of any overnight stays of an unscaled or unweighed load of logs.

L-130.1 Conversion Factors

Forest products harvested and delivered from the sale area that are not measured in units specified in the P-030.1 'Payment for Harvesting and Hauling Services' clause of this contract shall be converted to the contract specified payment units using Department of Natural Resources conversion factors unless a plan to do otherwise has been pre-approved by the State.

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-011.1 Certification of Fallers and Log Manufacturers

All persons engaged in the felling of timber and manufacturing or loading of logs or poles must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that log utilization, log sorting, or manufacturing has been performed in a manner that does not optimize value or otherwise causes damage to the state.

H-013.1 Reserve Tree Damage Definition

Reserve trees are trees required and designated for retention within the sale boundary. Contractor 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 Contractor's operation, as determined by the Contract Administrator.

- a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 100 square inches.
- b. A reserve tree's 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 Contractor 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. Contractor may be required to pay liquidated damages for Excessive Reserve Tree Damage as detailed in clause D-041.1.

Removal of designated reserve trees from the sale area is unauthorized, and may invoke the use of the G-230.1 'Unauthorized Activity' clause. Contractor is required to leave all cut or damaged reserve trees on site.

H-017 Preventing Excessive Soil Disturbance

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

H-025 Timing Requirements for Timber Removal

All timber must be removed within 30 of being felled.

H-030.1 Timber Falling

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

H-035 Fall Trees Into Sale Area

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

H-052.1 Branding and Painting

The State shall provide a State of Washington registered log brand. Contractor must brand and paint all logs removed from the harvest area in a manner that meets the requirements of WAC 240-15-030(2)(a)(i). All logs removed from the harvest area 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, Contractor 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-110 Stump Height

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

H-120.1 Harvesting Equipment

Forest products harvested under this contract shall be harvested and removed using Cable, Ground-Based. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities.

H-126.1 Tailholds on State Land

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

H-127.1 Tailholds on Private Land

If Contractor chooses to tailhold on private property, Contractor shall obtain permit(s) and assumes responsibility for all costs and damages associated with the permit(s). Contractor must provide the State with a copy of the executed permit(s) or a letter from the landowner indicating that a satisfactory tailhold permit(s) has been consummated between Contractor and the landowner.

H-140.1 Special Harvest Requirements

Contractor shall accomplish the following during the harvest operations:

- A. Active Haul Routes will be posted with CB channels by Contractor.
- B. Ground based yarding equipment shall only operate during dry soil conditions.
- C. Track mounted machines with hydraulic boom and grapple will be allowed.
- D. Shovels must be large enough to pick up one end of the largest log 35 feet from machine.
- E. Ground based yarding equipment will not be permitted on sustained slopes over 45 percent.
- F. Self-Leveling ground based yarding equipment will not be permitted on sustained slopes over 60 percent.
- G. 6 Wheeled skidder with tracks similar to ECO-TRACKS™, will not be permitted on sustained slopes over 50 percent.
- H. In Unit 5 and Unit 6 all harvest operations must be completed by 8/31/2024.

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

H-141.1 Additional Harvest Requirements

Contractor shall accomplish the following during the harvest operations:

A. Sediment delivery from roads will not be allowed. Hauling operations will be shut down as needed until conditions improve or work can be completed that eliminates the delivery of sediment.

B. No yarding will be permitted through or over areas identified to be potentially unstable on the FPA Slope Stability Form and all maps.

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

H-150.1 Required Removal of Forest Products

Contractor shall remove from the sale area, present for scaling and deliver to the designated purchaser locations specified in the G-022.1 clause all forest products conveyed that meet the following minimum dimensions unless directed otherwise by the Contract Administrator:

Species	Net Bd Ft	Log Length (ft)	Log dib
Conifer	10	12	5
Hardwood	20	16	5

The State may treat failure to remove forest products left in the sale area that meet the above specifications as a breach of this contract. The Contractor shall be responsible for forest products not removed. At the State's option, the State or a third party scaling organization may scale forest products, for volume, that meet the above specifications and are left in the sale area. State may deduct the value of forest products not removed from payments to the Contractor for harvesting services rendered. All costs associated with scaling and computing the billing for forest products left in the sale area will be borne by Contractor.

If Contractor's failure to remove all the forest products specified under the contract is due to circumstances beyond the control and without fault or negligence of the Contractor including, but not restricted to, acts of the State, closures by government regulatory agencies, mill closures, fires, vandals, and unusually severe weather conditions, the State may elect to modify the required removal requirements. Contractor is required to request contract removal requirement modifications in writing. The State shall consider such requests and may grant them in part or entirety only when Contractor has demonstrated that they have been endeavoring to complete the project and are otherwise performing with due diligence.

H-161.1 Excessive Timber Breakage

The Contractor shall be responsible for felling and yarding timber in a manner that shall minimize breakage and maintain stump heights within contract specifications, unless permission to do otherwise is agreed to by the Contract Administrator.

The State may treat excessive timber breakage, as determined by the Contract Administrator as a breach of this contract. At the State's option, the State or a third party scaling organization may scale forest products, for volume. State may deduct the value of forest products damaged through excessive breakage from payments to the Contractor for harvesting services rendered. All costs associated with scaling and computing the billing for forest products damaged through excessive breakage will be borne by Contractor.

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.

Section C: Construction and Maintenance

C-040.1 Road Plan

Road construction and associated work provisions of the Road Plan for this project, dated October 24, 2023 are hereby made a part of this contract.

The State may make modifications to the Road Plan made necessary by unforeseen conditions. Any modifications that create additional work for the Contractor shall be paid in accordance with the payment terms set forth in this contract.

C-050.1 Contractor Road Maintenance and Repair

Contractor shall perform work at their own expense on 2410C-1, 2410C-1 Ext, 2418, 2418A-1, 2418A1-A, 2418A-2, 2418A-3, 2418B, 2418B-1, 2422C, 2422C-1 road(s). All work shall be completed to the specifications detailed in the Road Plan.

C-055.1 Contractor Additional Road Maintenance and Repair

On the 2410, 2418 from 0+00 to 34+59, 2418 from south boundary of Unit 4 to 137+44, 2422, 4200, 4253A, 4245F road(s), Contractor shall perform additional road maintenance or repair work as directed by the Contract Administrator. All additional road maintenance or repair work completed by the Contractor shall be paid for as outlined in clause P-033.1.

C-060.1 Designated Road Maintainer

If required by the State, the Contractor shall perform maintenance and replacement work as directed by the Contract Administrator on All roads not listed in Clause C-050.1 and C-055.1. The Contractor 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 the Contractor for said costs within thirty (30) days of receipt and approval of the statement.

C-140.1 Water Bars

Contractor 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-010.1 Fire Hazardous Conditions

Contractor acknowledges that operations under this Contract may increase the risk of fire. Contractor 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, Contractor agrees to provide equipment and personnel working at the site to safely and effectively engage in first response fire suppression activity.

Contractor'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-040.1 Noxious Weed Control

Contractor shall notify the Contract Administrator in advance of moving equipment onto State lands. Contractor shall thoroughly clean all off-road equipment prior to entry onto State land to remove contaminated soils and noxious weed seed. If equipment is moved from one DNR project area to another, the Contract Administrator reserves the right to require the cleaning of equipment. Equipment shall be cleaned at a location approved 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-060.1 Pump Truck or Pump Trailer

Contractor 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-070.1 Water Supply

Contractor shall provide, during the "closed season", a water supply with a minimum capacity of 300 gallons for rapid filling of pump trucks or trailers at a location designated by the Contract Administrator.

S-100 Stream Cleanout

Slash or debris which enters all Type 5 streams as a result of operations under this contract and which is identified by the Contract Administrator shall be removed and deposited in a stable position. Removal of slash or debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation.

S-130.1 Hazardous Materials**a. Hazardous Materials and Waste - Regulatory Compliance**

Contractor 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.

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Material Spill Containment, Control and Cleanup

If safe to do so, Contractor shall take immediate action to contain and control all hazardous material spills. Contractor 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, Contractor 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 Contractor to have all emergency contact information readily available and a means of remote communication for purposes of quick notification. In the event of a spill covered in part a., the Contractor is responsible for immediately notifying all the following:

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

S-131.1 Refuse Disposal

As required by RCW 70.93, All Contractor 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-010.1 Liquidated Damages

The clauses in the DAMAGES section of this contract provide for the State's payments to the Contractor to be reduced for certain breaches of the terms of this contract. These offsets are agreed to as liquidated damages for the Contractor's breach, and are not penalties. They are reasonable estimates of anticipated harm to the State caused by the Contractor's breach. The State and Contractor agree to these liquidated damages provisions 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 Contractor by allowing the Contractor to better assess its responsibilities under the contract.

D-015.1 Damages for Delivered Mis-sorted Logs

Logs delivered by Contractor that do not meet the receiving Purchaser's log sort specifications as described in clause G-022.1 are considered mis-sorts.

Mis-sorted log volume will be considered on a per load basis. When mis-sorts amount to more than 12% of a load's total volume, as determined by a third-party scaling organization, the State is harmed and an adjustment to the Contractor's harvesting payment may be made. For the improper delivery of mis-sorted logs, the State may

reduce the harvesting payment by \$100.00 for each load delivered which contained mis-sorted volume in excess of 12%, as documented by third-party scaling ticket.

D-016.1 Damages for Delivered Mis-manufactured Logs or Poles

Logs or Poles delivered by Contractor that do not meet the receiving Purchaser's preferred log length specifications as described in clause G-022.1, logs not meeting manufacturing standards as described in clause G-024.1, and poles not meeting specifications in Schedule P are considered mis-manufactured logs or poles.

Mis-manufactured log or pole volume will be considered on a per load basis. When mis-manufactured logs or poles amount to more than 5% of a loads total volume, as determined by a third-party scaling organization, the State is harmed and an adjustment to the harvesting payment may be made. For the delivery of mis-manufactured logs or poles, the State may reduce the harvesting payment due to the Contractor by an amount of \$100.00 for each load of mis-manufactured logs or \$300 for each load of poles delivered which has been determined to contain mis-manufactured volume in excess of 5% as documented by third-party scaling ticket.

D-022.1 Damages for Failure to Begin Product Deliveries

Contractor's failure to begin deliveries by the date listed in clause G-027.1, Log Delivery Schedule and Conditions, can result in substantial injury to the State. The Contractor shall pay \$100.00 per day until deliveries begin or until a plan to remedy the delay has been agreed to in writing by the State. Days where operations are restricted such as weekends and State holidays are not subject to damages.

D-023.1 Damages for Failure to Remove Forest Products

Contractor's failure to remove all of the forest products specified prior to the expiration of the contract operating authority results in substantial injury to the State. The value of the forest products sold at the time of breach is not readily ascertainable. The Contractor's failure to perform disrupts the State's management plans in the project area, the actual cost of which is difficult to assess. A re-offering of the contract involves additional time and expense and is not an adequate remedy. Therefore, the Contractor agrees to accept a reduction of the amount due for harvesting services from the State in the amount calculated according to the following guidelines:

- a. Full stumpage value will be assessed for felled trees, individual or scattered standing trees, or clumps of standing trees less than three acres in size, plus all costs associated with scaling and computing the stumpage value of the forest products left.
- b. 35% of full stumpage value will be assessed for clumps of standing trees greater than three acres in size, plus all costs associated with scaling and computing the stumpage value of the forest products left.

The stumpage value of forest products left shall be determined by the State or a third party scaling organization utilizing whatever method(s) best suited for accurate volume and acreage measurement as determined by the State.

D-024.1 Damages for Excessive Timber Breakage

Excessive breakage of timber results in substantial injury to the State. The value of the forest products sold at the time of breach is not readily ascertainable. Therefore, the Contractor agrees to accept a reduction of the amount due for harvesting services from the State at an amount calculated according to the following:

The value for excessive timber breakage will be determined at a rate, which reflects the log sort price that the Purchasers would have paid for unbroken logs minus the cost of delivery, plus all costs associated with scaling and computing the stumpage value of the forest products excessively broken.

The stumpage value of forest products excessively broken shall be determined by the State or a third party scaling organization utilizing whatever method(s) best suited for accurate volume measurement as determined by the State.

D-030.1 Inadequate Log Accountability

Removal of forest products from the sale area without adequate branding and/or valid load tickets attached to the load, weighing or scaling forest products in a location other than the facilities authorized for use for this sale, and failing to deliver load ticket to the weighing/scaling official all result in substantial injury to the State. The potential loss from not having proper branding, ticketing, weighing locations and accountability is not readily ascertainable. These contractual breaches result in a loss of load and weighing/scaling data the potential for the removal of forest products for which the State receives no payment, and cause increases in the State's administration costs associated with this contract. The actual costs of these breaches are difficult to assess.

For these reasons, Contractor's payments for harvesting under this contract will be reduced in the following amounts, as liquidated damages, to compensate the State for these breaches: a sum of \$100.00 each time a load of logs does not have branding as required in the contract, \$250.00 each time a load of logs does not have a load ticket as required by the contract, \$250.00 each time a load ticket has not been filled out as required by the plan of operations, \$250.00 each time a load is weighed or scaled at a facility not approved as required by the contract, and \$250.00 each time load and weight scale data is not presented to the weighing/scaling official, and \$250 each time a ticket is either lost or otherwise unaccounted for.

D-041.1 Reserve Tree Excessive Damage

When Contractor's operations exceed the damage limits set forth in clause H-013.1, 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 Contractor agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged reserve trees that are not replaced in all harvest units.

SIGNATURES

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

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Scott Sargent
Pacific Cascade Region Manager

Print Name

Date: _____

Date: _____

Address:

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

STATE OF _____)

COUNTY OF _____)

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

_____ to me known to be the _____ of the corporation

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

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

Notary Public in and for the State of

My appointment expires _____

Schedule M
MAINTENANCE EQUIPMENT RATE
(Hourly Rate including Operator)

Motor Grader	ARRF Rate
To 140 HP (Cat 120H & 120M)	\$177.00
To 175 HP (John Deere 670D, 670G, 672D, G, Cat 12M, Cat 140G, Cat 143H, Volvo G930, Komatsu GD-655-3)	\$219.00
To 200 HP (John Deere 772, Cat 140M, Volvo G940)	\$238.00
Over 200 HP (Cat 160M, 14M, 16H, Komatsu GD-825A-2)	\$308.00
Addition for ripper/scarifier use:	
To 140 HP	add \$4.80
To 175 HP	add \$7.20
Over 175 HP	add \$12.00

Front End Loader & Loader/Backhoe

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

Gravel Trucks

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

Dozers

To 75 HP (Case 650K, Cat D3K XL)	\$135.00
To 105 HP (Cat D4K, D5K, Case 750K, 850K, John Deere 450J, 550J, 650J, Komatsu D37EX-24)	\$176.00
To 135 HP (Cat D6K, Case 1150K, John Deere 700J, Komatsu D51EX-22)	\$200.00
To 185 HP (John Deere 750J, Case 1650, 1850, Cat D6N, Komatsu D61EX-15)	\$227.00
To 240 HP (Cat D6T, D7E, John Deere 850J, Komatsu D65EX-17)	\$262.00
Over 240 HP (Cat D8T, John Deere 950J)	\$378.00
Addition for Ripper use:	
To 180 HP	add \$9.00
To 235 HP	add \$15.00
Over 235 HP	add \$24.00

Tractor Brush Cutters

To 67 PTO HP	\$120.00
To 80 PTO HP	\$127.00
Over 80 PTO HP (JD 6320)	\$136.00

Excavators

To 60 HP (Kubota U45, U55, John Deere 50D, Hitachi 50U, Cat 307D)	\$138.00
To 95 HP (Cat 312D, 314D, Hitachi 120-3, 135US-3, Link Belt 135, Komatsu PC 120-6, PC130-8, John Deere 120D, 135D)	\$178.00
To 120 HP (Cat 315D, John Deere 160LC, Doosan 175LCV, Komatsu PC160LC-8, Link Belt 160LX, Volvo EC160C L)	\$205.00
To 140 HP (Cat 319D L, 320C, Hitachi 160LC-3, Link Belt 210LX)	\$212.00

Excavators (con't)

To 170 HP (Cat 320D, Hitachi 200LC-3, Link Belt 240LX, PC220LC-8, John Deere 225D LC, Volvo EC240C).....	\$215.00
To 230 HP (Cat 324D, 324E, 328D, 329D, John Deere 240D, 270D, 290G, Hitachi 240LC-3, 270LC-3, Link Belt 290LX RBI, Volvo EC290C).....	\$250.00
Over 230 HP (Cat 330D L, 336, Volvo EC330C, John Deere 350G, 350D, Komatsu PC300LC-8, PC390LC-11, Link Belt 330 X4, Hitachi 330LC-6, 350LC-3).....	\$280.00
Add Attachment Rate to Excavator	\$36.00

Self-Propelled Vibratory Compactors

To 80 HP (Bomag BW145DH-40, BW177D-40, Dynapac CA150D, Sakai SV201D, Ing Rand SD45F TF).....	\$140.00
To 125 HP (Bomag BW177PDBH-40, Cat CP-433E, Sakai SV400D-II, Dynapac CA152D)	\$160.00
Over 125 HP (Bomag BW211PD-40, Dynapac CA262D, Ing Rand SD105DA TF, Sakai SV505D-I).....	\$190.00

Track Mounted Rock Drills (with one operator)

To 4.5 inch Diameter Hole.....	\$380.00
Over 4.5 inch Diameter Hole	\$446.50

Heavy Equipment Hauling

On-Highway Rear Dump	\$165.00
Tilt Deck Utility Trailer (2 axle, up to 40,000 lbs).....	\$10.00
Tilt Deck Utility Trailer (3 axle, up to 50,000 lbs).....	\$13.00
On-Highway Truck Tractor (GVW up to 50,000 lbs)	\$142.00
Lowbed Trailer (2 axle, up to 50,000 lbs)	\$15.00
Lowbed Trailer (3 axle, up to 80,000 lbs)	\$35.00

Water Trucks

On-Highway Water Tanker (3,000 gallon capacity).....	\$104.00
On-Highway Water Tanker (4,000 gallon capacity).....	\$126.00
Off-Highway Water Tanker (5,000 gallon capacity).....	\$147.00

Power Saws and Pumps.....\$10.00

Labor Wages (Fully Burdened Rates including profit and overhead)

Laborer – Journey Level	\$50.00
Laborer – Apprentice Level.....	\$47.00

NOTATIONS

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

**HARVESTING SERVICES CONTRACT
SEALED BID FORM**

Ghost Town Sorts
(Print Project Name)

30-104392
(Agreement No.)

(Print Company Name)

(Street Address)

(Business Telephone Number)

(City, State and Zip Code)

(email address)

To meet Harvesting obligations, I bid the following On Board Truck (OBT) rate:

(Bidder must check box for appropriate project payment method. See RFQ section 1.05 and 2.06)

- \$/Ton of timber harvested and delivered.**
 \$/mbf of timber harvested and delivered.

And to meet pole sort Harvesting obligations, I bid the following OBT rate:

(Bidder must check box for appropriate project payment method. See RFQ section 1.05 and 2.06)

- \$/Ton of poles harvested and delivered.**
 \$/mbf of poles harvested and delivered.

“Does Not Apply” to projects with no pole sorts identified. Refer to RFQ section 2.06.

To meet Hauling obligations, I bid:

Hauling Bid Factor
(format to 3 decimal places ie 0.000)

Hauling Services Payment calculation explained in RFQ section 1.05.
Actual “live-load” weights used to determine payment for hauling sorts designated as “tonnage”. Sorts designated as “MBF” will use calculated tonnage based on the DNR’s advertised “tons/mbf conversion factor specific for each sort unless actual tonnage is available and approved for use.

- Road costs for this project are biddable. Road Cost Proposal Form must be completed and submitted as part of bid package.**

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If awarded this contract, I am responsible for independently negotiating, procuring and paying for any and all subcontracted services provided.

Attached is my completed 'Statement of Available Resources and Work Plan' which I understand will be evaluated by the Department of Natural Resources in conjunction with my bid to determine my ability to complete the project.

BY SUBMISSION OF THIS BID THE BIDDER WARRANTS AND AGREES TO THE FOLLOWING:

1. The bid price has been determined independently, without consultation, communication, or agreement with others for the purpose of restricting competition.
2. The bid is a firm offer for a period of 90 days from the bid submission deadline, and it may be accepted by the State without further negotiation at any time within the 90-day period.
3. In preparing this proposal or bid, the Bidder was not assisted by any current or former employee of the DNR whose duties relate (or did relate) to this prospective contract and who was assisting in other than his or her official, public capacity. Neither does such a person or any member of his or her immediate family have any financial interest in the outcome of this proposal.
4. Acceptance of the Harvesting Services Contract general terms and conditions.
5. Acceptance of the Harvesting Services Contract estimated road payment values as shown fixed by terms in contract clause P-32.1.
6. The Bidder has had an opportunity to fully inspect the sale area and the timber to be harvested.
7. The Bidder enters this bid based solely upon their own judgment of the costs associated with harvesting, hauling, and any additional required work formed after their own examination and inspection of both the timber sale area and the forest products to be harvested.
8. The Bidder enters this bid without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representation by the State Department of Natural Resources.
9. The Bidder, if successful, will furnish the necessary labor, equipment, and services needed to complete the work as specified by the harvesting contract including commencing and completing the operations in the times specified.
10. The Bidder agrees to execute the harvesting contract for the said project and agrees to furnish surety and insurance as required in the specifications.

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11. The Bidder assumes the risk of liabilities related to any regulatory actions by any government agency that may affect the operability of these harvesting contracts. Such regulatory actions include, but are not limited to, actions taken pursuant to the Forest Practices Act, chapter 76.09 RCW, and the Endangered Species Act, 16 U.S.C. §§ 1531-1544. Please see the Harvesting Services Contract for further information.
12. The DNR cannot verify the presence or absence of northern spotted owls, marbled murrelets or any other threatened or endangered species that may affect the operability of the timber sale. The Bidder relies solely on his/her own assessments.
13. Acreage estimates and volume estimates contained within the harvesting services contract are made only for administrative and identification purposes. Except as expressly provided by the harvesting contract, the Apparent Successful Contractor shall be responsible to harvest the sale, even if the actual acreage or timber volume varies from the estimated quantity or volume shown.
14. The DNR will not reimburse the Bidder for any costs incurred in the preparation of this proposal. All proposals become the property of the DNR and I/we claim no proprietary rights to the ideas or writings contained in them.
15. The Bidder will be required to comply with the Department's Nondiscrimination Plan and federal and state laws on which it is based. If requested by the DNR, the Bidder/Harvester will submit additional information about the nondiscrimination and affirmative action policies and plans of their organization in advance of or after the contract award.
16. Bidder is required to complete the Responsible Bidder Criteria – Wage Law Compliance form in order to be considered a ‘responsible bidder’ (see RCW 39.26.160(2) and (4)). Pursuant to legislative enactment in 2017, the responsible bidder criteria include a contractor certification that the contractor has not willfully violated Washington's wage laws. See Chap. 258, 2017 Laws (enacting SSBS301).

By signing and submitting this bid the Bidder agrees to all of the preceding requirements. The Bidder further warrants to the State that they enter this bid based upon their own judgments of the value of the harvesting services to be provided through the Harvesting Services Contract, formed after their own examination and inspection of both the timber sale area and the forest products to be harvested.

(Signature of authorized representative submitting this bid)

(Date)

(Print name and title of authorized representative signing bid)

Exhibit G
Agreement Number: 30-104392
Ghost Town Sorts

Harvester Road Bid Factor

Required Roads

Roads or Structures	Type	Stations or Quantities	Work Completion Type	Bid Price per Unit	Unit	Bid Total Price*
2400, 2411, 2418, 2418A-1, 2418A-2, 2418A-3, 2418B	Pre-Haul Maintenance	277.71	Required	\$323.00	per Station with required rock depth included	\$89,700.33
2418B-1	Abandonment	5.65	Required	\$931.00	per Station	\$5,260.15
Signal Pit	Stock Pile	1000.00	Required	\$15.00	per Cubic Yard	\$15,000.00

Total Required Roads* \$109,960.48

Optional Roads

Roads or Structures	Type	Stations or Quantities	Work Completion Type	Bid Price per Unit	Unit	Bid Total Price*
2422C-1, 2410C-1 Ext	New Construction	20.25	Optional Construction/Required Rock-1	\$3,057.00	per Station with required rock depth included	\$61,904.25
2418A1-A, 2418B-1, 2410C-1	Reconstruction	30.80	Optional Reconstruction/Required Rock-1	\$2,007.00	per Station with required rock depth included	\$61,815.60

Total Optional Roads*	\$123,719.85
Total Required Roads*	\$109,960.48
Total Optional Roads*	\$123,719.85
<hr/>	
Total Roads	\$233,680.33

*DNR will calculate the total cost based on the Price per Unit supplied by the DNR times the Harvester provided Road Bid Factor. The harvester road bid factor will be no less than 0.650 and no more than 1.35.

1-Required Rock on Optional Roads – If Contractor builds Optional Roads, Rock is Required per Rock LIST. If Optional Roads are not built, Rock does not have to be provided. All other costs associated with the road construction are to be included in the Price per Unit bid price.

Required roads - The base reimbursement costs are set by DNR.

Optional roads that are not bid with stations and or rock quantities are assumed not be built.

3-Rock to be used upon CA approval.

1000 CY Optional Ballast Rock to be used upon CA approval from the 2000 CY developed in the Signal Pit.

Exhibit G Payments do not include General Overhead and Expenses or Move-in costs. DNR does not directly pay for these items.

Additional Payments in Excess of Road Plan Specifications P-033.1

Item	Stations or Quantities	Unit Price	Total
Ballast Rock on road	500 CY	\$30.00	\$15,000.00
18" CPP	80 linear feet	\$25.00	\$2,000.00
Stockpile Rock applied and rolled in place	1000	\$17.00	\$17,000.00

PRE-CRUISE NARRATIVE

Sale Name: Ghost Town	Region: Pacific Cascade
Agreement #: 30-104392	District: St Helens
Contact Forester: Emily Haffner Phone / Location: 360-520-1046	County(s): Choose a county, Cowlitz
Alternate Contact: Jacob Harvey Phone / Location: (360) 703-4896	Other information: Click here to enter text.

Type of Sale: Log Sort (Contract harvest)	
Harvest System: Ground based Click here to enter text.	91
Harvest System: Uphill Cable Click here to enter text.	9
Enter % of sale acres	
Harvest System: Select harvest system Click here to enter text.	Click here to enter percent sale acres.

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	16 T10N R02E	03	23	9	1	0	0	13	GPS (Garmin)
2	16 T10N R02E	03	126	20	7	3	0	97	GPS (Garmin)
3	16 T10N R02E	03	32	7	3	0	0	21	GPS (Garmin)
4	16 T10N R02E	03	127	22	11	0	0	94	Combination
5	16 T10N R02E	03	8	2	1	0	0	5	Combination
6	16 T10N R02E	03	9	5	0	0	0	4	Combination
ROW U7 (Private)	17 T10N R02E		2	0	0	0	0	2	GPS (Garmin)
ROW U8	16 T10N R02E	03	1	0	0	0	0	1	
TOTAL ACRES			328	65	23	3	0	237	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
Unit 1	Bounded by white “Timber Sale Boundary” tags with pink flagging, and the 2418A-1 Road.	Variable harvest retention	114 clumped, 1 scattered leave tree
Unit 2	Bounded by white “Timber Sale Boundary” tags with pink flagging, the 2418A-1 Road, the 2418A-2 road, and reprod/private property with carsonite posts.	Variable harvest retention	860 clumped, 15 scattered leave tree
Unit 3	Bounded by white “Timber Sale Boundary” tags with pink flagging, the 2418A-2 road, and reprod/private property.	Variable harvest retention	287 clumped, 3 scattered leave trees
Unit 4	Bounded by white “Timber Sale Boundary” tags with pink flagging, the 2418 road, the 2418B road, and reprod/private property with carsonite posts.	Variable harvest retention	1035 clumped, 20 scattered leave trees
Unit 5	Bounded by white “Timber Sale Boundary” tags with pink flagging, and private property marked with white carsonite posts and pink flagging.	Variable harvest retention	70 clumped leave trees
Unit 6	Bounded by white “Timber Sale Boundary” tags with pink flagging, and private property marked with white carsonite posts and pink flagging.	Variable harvest retention	66 clumped leave trees
ROW U7	Bounded by pink flagging.	Variable harvest retention	
ROW U8	Bounded by Orange “Right-of-Way Boundary” tags with pink flagging.	Variable harvest retention	

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
Unit 1	Douglas fir, western hemlock / 298 MBF	2411 to the 2418 to the 2418A-1. The 2411 has ABA 1-1 lock on the gate. The unit is located to the left of the road shortly after turning onto the 2418A-1 from the 2418.	See driving map.
Unit 2	Douglas fir, western hemlock / 1755 MBF	2411 to the 2418 to the 2418A-1. The unit can be accessed thorough 2418A-1, 2418A-3, road or walking the old grade for the the 2418A1-A optional reconstruction road.	See driving map.
Unit 3	Douglas fir, western hemlock / 396 MBF	2411 to the 2418 to the 2418A-1 to the 2418A-2 road. The unit is located to the left of the road about ¼ mile after turning onto the 2418A-2 road.	See driving map.
Unit 4	Douglas fir, western hemlock / 3226 MBF	2411 to the 2418 road. The unit is to the right of the 2418 road. Can also access the unit from the 2418B road that branches off the 2418 after passing 2418A-1 intersection. Unit is to the left of the 2418B road and can walk the old 2418B-1 road grade into the unit.	See driving map.
Unit 5	Douglas fir, western hemlock / 135 MBF	2411 to the 2410 to the 2410c-1 road. Unit can be accessed by walking down the old road grade/skid trail until the property line.	See driving map.
Unit 6	Douglas fir, western hemlock / 135 MBF	2411 to the 2410. The unit is to the left of the road about a mile into the 2410 after turing onto it from the 2411. Unit can be accessed by walkig up a flagged skid trail into the unit.	See driving map.
TOTAL MBF	5945 MBF		

REMARKS:

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Prepared By: Emily Haffner Date: 07/06/22	Title: Forester I	CC:
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Timber Sale Cruise Report Ghost Town Sorts

Sale Name: GHOST TOWN SORTS

Sale Type: SORT

Region: PACIFIC CASC,PACIFIC CASC

District: ST.HELENS,ST.HELENS

Lead Cruiser: AMDouglas

Other Cruisers: BEWarnstadt, DBuchanan

Cruise Narrative:

Location:

Ghost Town Sorts is located just off Highway 504, 9 miles east of Toutle, WA. Most of the sale has direct access from the 2418 network of forest roads.

Cruise Design:

245 plots were used to tally 1450 trees. 619 trees were measured.

Diameters were recorded to the nearest whole inch. Bole heights were measured to a 5" top or estimated break point.

Trees were segmented into lengths based on a preference for long logs and taking into account location of defect. Preferred length for conifers is 40'. Preferred length for hardwoods is 30'.

Plots that landed in leave tree areas were dropped from the cruise.

Timber Quality:

Ghost town is mostly composed of plantation-style Douglas-fir with some western hemlock and red alder mixed in. Minor spike knots were observed in some trees. Small pockets of fungal-driven mortality are scattered around the sale but are not extensive.

Logging and Stand Conditions:

Sale is mostly flat. Proposed harvesting methods are 91% ground-based, 9% uphill cable. Understory brush is light and conducive to foot travel.

Timber Sale Notice Volume (MBF)

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	14.8	6.5		3,593	822	2,161	576	35
WH	16.0			1,164	487	502	153	20
RA	11.8			753	37	65	630	21
MA	14.9			5		2	2	0
RC	30.0			3		2	0	
ALL	14.5	6.4		5,518	1,346	2,733	1,362	77

Timber Sale Notice Weight (tons)

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	Utility
DF	29,702	6,265	18,109	5,060	268
WH	10,813	3,993	4,984	1,643	193
RA	6,608	283	510	5,668	148
MA	47		20	24	3
RC	30		24	6	
ALL	47,200	10,541	23,646	12,400	612

Timber Sale Overall Cruise Statistics

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
196.3	2.1	116.3	1.0	23,282	2.4

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
GHOST TOWN U1	B1C: VR, 1 BAF (33.61) Measure/ Count Plots, Sighting Ht = 4.5 ft	13.0	13.9	15	9	0
GHOST TOWN U2	B1C: VR, 1 BAF (33.61) Measure/ Count Plots, Sighting Ht = 4.5 ft	97.0	106.4	96	34	0
GHOST TOWN U3	B1C: VR, 1 BAF (33.61) Measure/ Count Plots, Sighting Ht = 4.5 ft	21.0	23.7	21	10	1
GHOST TOWN U4	B1C: VR, 1 BAF (33.61) Measure/ Count Plots, Sighting Ht = 4.5 ft	94.0	105.1	96	33	0
GHOST TOWN U5	B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 0 ft	5.0	5.6	6	6	0
GHOST TOWN U6	B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 4.5 ft	4.0	4.7	4	4	0
GHOST TOWN 2418A1 ROW	FX: FR plots (20 tree / acre expansion)	1.0	0.8	2	2	0
2410C-1 ROW	FX: FR plots (20 tree / acre expansion)	2.0		5	5	0
All		237.0	260.2	245	103	1

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.6	40	3,189	3,085	3.3	5,558.1	731.2
DF	LIVE	2 SAW	HQ-A	12.6	40	44	44	0.0	79.1	10.5
DF	LIVE	2 SAW	HQ-B	13.5	40	353	337	4.5	628.0	79.9
DF	LIVE	3 SAW	Domestic	8.6	40	9,005	8,682	3.6	17,354.6	2,057.7
DF	LIVE	3 SAW	HQ-B	10.5	40	449	434	3.3	754.5	102.9
DF	LIVE	4 SAW	Domestic	5.2	29	2,530	2,429	4.0	5,059.7	575.6
DF	LIVE	CULL	Cull	5.5	7	137	0	100.0	0.0	0.0
DF	LIVE	UTILITY	Pulp	5.4	21	149	148	0.7	267.7	35.0
MA	LIVE	3 SAW	Domestic	11.5	30	11	10	9.6	19.9	2.4
MA	LIVE	4 SAW	Domestic	5.8	27	10	9	7.4	23.8	2.2
MA	LIVE	UTILITY	Pulp	5.0	12	2	2	0.0	2.9	0.5
RA	LIVE	2 SAW	Domestic	12.1	32	171	158	7.6	282.9	37.4
RA	LIVE	3 SAW	Domestic	10.9	30	294	276	6.3	509.5	65.3
RA	LIVE	4 SAW	Domestic	6.5	29	2,782	2,658	4.5	5,667.8	630.0
RA	LIVE	CULL	Cull	5.4	7	100	0	100.0	0.0	0.0
RA	LIVE	UTILITY	Pulp	5.0	20	88	88	0.0	148.0	20.7
RC	LIVE	3 SAW	Domestic	18.1	40	15	11	30.1	24.0	2.5
RC	LIVE	4 SAW	Domestic	8.9	34	2	1	34.7	6.0	0.3
WH	LIVE	2 SAW	Domestic	14.6	40	2,179	2,057	5.6	3,993.0	487.5
WH	LIVE	3 SAW	Domestic	8.8	40	2,196	2,120	3.4	4,983.8	502.4
WH	LIVE	4 SAW	Domestic	5.4	29	672	648	3.6	1,643.2	153.5
WH	LIVE	CULL	Cull	5.7	6	47	0	100.0	0.0	0.0
WH	LIVE	UTILITY	Pulp	6.4	26	87	86	0.6	193.2	20.4

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	< 5	LIVE	Cull	4.9	10	0	100.0	0.0	0.0
DF	5 - 7	LIVE	Pulp	5.4	21	144	0.7	257.8	34.1
DF	5 - 7	LIVE	Cull	5.5	7	0	100.0	0.0	0.0
DF	5 - 7	LIVE	Domestic	5.7	32	4,628	3.6	9,631.0	1,096.7
DF	8 - 11	LIVE	Cull	8.0	7	0	100.0	0.0	0.0
DF	8 - 11	LIVE	Pulp	8.3	13	4	0.0	9.8	0.9
DF	8 - 11	LIVE	Domestic	9.6	40	6,483	3.7	12,783.3	1,536.6
DF	8 - 11	LIVE	HQ-B	10.5	40	434	3.3	754.5	102.9
DF	12 - 19	LIVE	HQ-A	12.6	40	44	0.0	79.1	10.5
DF	12 - 19	LIVE	Domestic	13.5	40	3,085	3.3	5,558.1	731.2

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	12 - 19	LIVE	HQ-B	13.5	40	337	4.5	628.0	79.9
MA	5 - 7	LIVE	Pulp	5.0	12	2	0.0	2.9	0.5
MA	5 - 7	LIVE	Domestic	6.7	29	9	7.4	23.8	2.2
MA	8 - 11	LIVE	Domestic	11.5	30	10	9.6	19.9	2.4
RA	5 - 7	LIVE	Cull	5.0	6	0	100.0	0.0	0.0
RA	5 - 7	LIVE	Pulp	5.0	20	88	0.0	148.0	20.7
RA	5 - 7	LIVE	Domestic	5.7	30	1,726	4.2	3,583.0	409.2
RA	8 - 11	LIVE	Domestic	9.3	30	1,207	5.2	2,594.3	286.2
RA	8 - 11	LIVE	Cull	9.7	10	0	100.0	0.0	0.0
RA	12 - 19	LIVE	Domestic	12.1	31	158	7.6	282.9	37.4
RC	8 - 11	LIVE	Domestic	8.9	34	1	34.7	6.0	0.3
RC	12 - 19	LIVE	Domestic	18.1	40	11	30.1	24.0	2.5
WH	5 - 7	LIVE	Cull	5.5	6	0	100.0	0.0	0.0
WH	5 - 7	LIVE	Pulp	5.6	22	43	1.1	105.2	10.2
WH	5 - 7	LIVE	Domestic	5.8	32	1,246	2.5	3,102.2	295.2
WH	8 - 11	LIVE	Domestic	9.8	40	1,499	4.2	3,479.0	355.3
WH	8 - 11	LIVE	Pulp	10.5	40	43	0.0	88.0	10.3
WH	12 - 19	LIVE	Domestic	14.6	40	2,080	5.6	4,038.8	492.9

Cruise Unit Report GHOST TOWN U1

Unit Sale Notice Volume (MBF): GHOST TOWN U1

Sp	DBH	Rings/In	Age	MBF Volume by Grade				Utility
				All	2 Saw	3 Saw	4 Saw	
WH	11.9			120	8	73	39	
DF	12.2			53	4	30	19	
RA	11.1			50	4	4	43	
MA	12.0			2			2	0
ALL	11.7			225	16	107	102	0

Unit Cruise Design: GHOST TOWN U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft	13.0	13.9	15	9	0

Unit Cruise Summary: GHOST TOWN U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
WH	13	32	2.1	0
DF	10	17	1.1	0
RA	13	19	1.3	0
MA	1	1	0.1	0
ALL	37	69	4.6	0

Unit Cruise Statistics: GHOST TOWN U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
WH	71.7	90.1	23.3	128.4	18.5	5.1	9,203	92.0	23.8
DF	38.1	152.3	39.3	107.3	8.8	2.8	4,087	152.6	39.4
RA	42.6	124.7	32.2	90.4	26.9	7.5	3,850	127.6	33.1
MA	2.2	387.3	100.0	73.8	0.0	0.0	165	387.3	100.0
ALL	154.6	38.4	9.9	111.9	23.7	3.9	17,306	45.1	10.6

Unit Summary: GHOST TOWN U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	10	ALL	12.0	54	84	4,136	4,087	1.2	48.5	38.1	11.0	53.1
MA	LIVE	CUT	1	ALL	12.0	44	59	174	165	4.9	2.9	2.2	0.6	2.2
RA	LIVE	CUT	13	ALL	11.1	48	70	4,130	3,850	6.8	63.4	42.6	12.8	50.0
WH	LIVE	CUT	13	ALL	11.9	62	88	9,376	9,203	1.8	92.8	71.7	20.8	119.6
ALL	LIVE	CUT	37	ALL	11.7	56	81	17,816	17,306	2.9	207.6	154.6	45.2	225.0
ALL	ALL	ALL	37	ALL	11.7	56	81	17,816	17,306	2.9	207.6	154.6	45.2	225.0

Cruise Unit Report GHOST TOWN U2

Unit Sale Notice Volume (MBF): GHOST TOWN U2

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	13.5	5.3		901	144	550	185	22
RA	12.0			510	32	40	417	20
WH	14.6			294	49	186	52	8
ALL	13.2	5.3		1,705	224	776	655	50

Unit Cruise Design: GHOST TOWN U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft	97.0	106.4	96	34	0

Unit Cruise Summary: GHOST TOWN U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	107	259	2.7	2
RA	46	166	1.7	0
WH	32	85	0.9	0
ALL	185	510	5.3	2

Unit Cruise Statistics: GHOST TOWN U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	90.7	95.2	9.7	102.5	27.3	2.6	9,290	99.0	10.1
RA	58.1	111.5	11.4	90.4	24.4	3.6	5,256	114.1	11.9
WH	29.8	152.7	15.6	101.9	33.6	5.9	3,032	156.4	16.7
ALL	178.6	36.1	3.7	98.4	28.6	2.1	17,578	46.0	4.2

Unit Summary: GHOST TOWN U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	107	ALL	13.5	57	78	9,715	9,290	4.4	91.2	90.7	24.7	901.2
RA	LIVE	CUT	46	ALL	12.0	50	70	5,643	5,256	6.9	74.0	58.1	16.8	509.8

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	32	ALL	14.6	57	74	3,116	3,032	2.7	25.6	29.8	7.8	294.1
ALL	LIVE	CUT	185	ALL	13.1	54	75	18,474	17,578	4.8	190.8	178.6	49.2	1,705.1
ALL	ALL	ALL	185	ALL	13.1	54	75	18,474	17,578	4.8	190.8	178.6	49.2	1,705.1

Cruise Unit Report GHOST TOWN U3

Unit Sale Notice Volume (MBF): GHOST TOWN U3

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	3 Saw	4 Saw	Utility
DF	12.8	6.0		195	148	45	3
RA	10.6			125		125	
WH	12.0			31	24	7	
ALL	11.6	6.0		351	171	177	3

Unit Cruise Design: GHOST TOWN U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft	21.0	23.7	21	10	1

Unit Cruise Summary: GHOST TOWN U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	26	56	2.7	1
RA	24	42	2.0	0
WH	6	10	0.5	0
ALL	56	108	5.1	1

Unit Cruise Statistics: GHOST TOWN U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	89.6	73.4	16.0	103.7	21.6	4.2	9,292	76.5	16.6
RA	67.2	100.0	21.8	88.9	21.3	4.3	5,974	102.2	22.3
WH	16.0	142.7	31.1	91.5	32.3	13.2	1,465	146.3	33.8
ALL	172.9	37.5	8.2	96.8	23.3	3.1	16,730	44.2	8.8

Unit Summary: GHOST TOWN U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	26	ALL	12.8	59	81	9,766	9,292	4.9	100.3	89.6	25.1	195.1
RA	LIVE	CUT	24	ALL	10.6	48	70	6,629	5,974	9.9	109.7	67.2	20.6	125.4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
WH	LIVE	CUT	6	ALL	12.0	50	67	1,518	1,465	3.5	20.4	16.0	4.6	30.8
ALL	LIVE	CUT	56	ALL	11.7	53	74	17,913	16,730	6.6	230.4	172.9	50.3	351.3
ALL	ALL	ALL	56	ALL	11.7	53	74	17,913	16,730	6.6	230.4	172.9	50.3	351.3

Cruise Unit Report GHOST TOWN U4

Unit Sale Notice Volume (MBF): GHOST TOWN U4

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
DF	15.5	7.0		2,247	637	1,304	296	10
WH	17.5			707	428	213	54	13
RA	12.9			34		10	23	
MA	17.0			3		2	1	
RC	30.0			3		2	0	
ALL	15.8	7.0		2,993	1,065	1,532	373	23

Unit Cruise Design: GHOST TOWN U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft	94.0	105.0	96	33	0

Unit Cruise Summary: GHOST TOWN U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	173	496	5.2	1
WH	52	148	1.5	0
RA	9	12	0.1	0
MA	1	1	0.0	0
RC	1	1	0.0	0
ALL	236	658	6.9	1

Unit Cruise Statistics: GHOST TOWN U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	173.7	47.5	4.9	137.6	18.6	1.4	23,902	51.1	5.1
WH	51.8	144.6	14.8	145.2	24.6	3.4	7,525	146.6	15.1
RA	4.2	422.5	43.1	85.2	35.1	11.7	358	424.0	44.7
MA	0.4	979.8	100.0	87.5	0.0	0.0	31	979.8	100.0
RC	0.4	979.8	100.0	85.8	0.0	0.0	30	979.8	100.0
ALL	230.4	29.0	3.0	138.2	22.0	1.4	31,845	36.4	3.3

Unit Summary: GHOST TOWN U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	173	ALL	15.6	76	101	25,037	23,902	4.5	130.8	173.7	44.0	2,246.8
MA	LIVE	CUT	1	ALL	17.0	58	71	34	31	9.8	0.2	0.4	0.1	2.9
RA	LIVE	CUT	9	ALL	12.9	53	69	406	358	11.8	4.6	4.2	1.2	33.6
RC	LIVE	CUT	1	ALL	30.0	76	96	43	30	30.6	0.1	0.4	0.1	2.8
WH	LIVE	CUT	52	ALL	17.5	72	95	8,075	7,525	6.8	31.0	51.8	12.4	707.3
ALL	LIVE	CUT	236	ALL	15.9	75	99	33,596	31,845	5.2	166.7	230.4	57.7	2,993.5
ALL	ALL	ALL	236	ALL	15.9	75	99	33,596	31,845	5.2	166.7	230.4	57.7	2,993.5

Cruise Unit Report GHOST TOWN U5

Unit Sale Notice Volume (MBF): GHOST TOWN U5

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	14.1			97	9	70	18
WH	15.6			8	3	4	1
ALL	14.2			105	12	73	19

Unit Cruise Design: GHOST TOWN U5

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 0 ft	5.0	5.6	6	6	0

Unit Cruise Summary: GHOST TOWN U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	24	24	4.0	0
WH	2	2	0.3	0
ALL	26	26	4.3	0

Unit Cruise Statistics: GHOST TOWN U5

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	134.4	54.8	22.4	144.4	13.9	2.8	19,408	56.5	22.5
WH	11.2	244.9	100.0	141.3	1.3	0.9	1,583	245.0	100.0
ALL	145.6	34.7	14.2	144.1	13.4	2.6	20,991	37.2	14.4

Unit Summary: GHOST TOWN U5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	24	ALL	14.1	79	109	19,985	19,408	2.9	124.0	134.4	35.8	97.0
WH	LIVE	CUT	2	ALL	15.6	83	108	1,641	1,583	3.5	8.4	11.2	2.8	7.9
ALL	LIVE	CUT	26	ALL	14.2	79	109	21,626	20,991	2.9	132.4	145.6	38.6	105.0
ALL	ALL	ALL	26	ALL	14.2	79	109	21,626	20,991	2.9	132.4	145.6	38.6	105.0

Cruise Unit Report GHOST TOWN U6

Unit Sale Notice Volume (MBF): GHOST TOWN U6

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	16.2			82	23	48	10
ALL	16.2			82	23	48	10

Unit Cruise Design: GHOST TOWN U6

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 4.5 ft	4.0	4.7	4	4	0

Unit Cruise Summary: GHOST TOWN U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	20	20	5.0	0
ALL	20	20	5.0	0

Unit Cruise Statistics: GHOST TOWN U6

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	168.1	32.7	16.3	122.1	14.5	3.3	20,515	35.7	16.7
ALL	168.1	32.7	16.3	122.1	14.5	3.3	20,515	35.7	16.7

Unit Summary: GHOST TOWN U6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	20	ALL	16.2	74	95	21,383	20,515	4.1	117.4	168.1	41.8	82.1
ALL	LIVE	CUT	20	ALL	16.2	74	95	21,383	20,515	4.1	117.4	168.1	41.8	82.1
ALL	ALL	ALL	20	ALL	16.2	74	95	21,383	20,515	4.1	117.4	168.1	41.8	82.1

Cruise Unit Report GHOST TOWN 2418A1 ROW

Unit Sale Notice Volume (MBF): GHOST TOWN 2418A1 ROW

Sp	DBH	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
RA	9.9			9		1	8
DF	15.0			8	2	5	1
WH	15.5			3		3	1
ALL	12.0			21	2	9	9

Unit Cruise Design: GHOST TOWN 2418A1 ROW

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
FX: FR plots (20 tree / acre expansion)	1.0	0.8	2	2	0

Unit Cruise Summary: GHOST TOWN 2418A1 ROW

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
RA	13	13	6.5	0
DF	5	5	2.5	0
WH	2	2	1.0	0
ALL	20	20	10.0	0

Unit Cruise Statistics: GHOST TOWN 2418A1 ROW

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
RA	70.1	47.7	33.7	125.6	19.0	5.3	8,800	51.3	34.1
DF	61.2	141.4	100.0	136.2	10.4	4.6	8,340	141.8	100.1
WH	26.2	9.1	6.4	130.8	10.4	7.3	3,430	13.8	9.8
ALL	157.6	32.3	22.8	130.5	15.7	3.5	20,570	35.9	23.1

Unit Summary: GHOST TOWN 2418A1 ROW

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	5	ALL	15.0	74	99	8,510	8,340	2.0	49.9	61.2	15.8	8.3
RA	LIVE	CUT	13	ALL	9.9	53	88	9,250	8,800	4.9	131.1	70.1	22.3	8.8
WH	LIVE	CUT	2	ALL	15.5	71	88	3,670	3,430	6.5	20.0	26.2	6.7	3.4
ALL	LIVE	CUT	20	ALL	12.0	60	91	21,430	20,570	4.0	201.0	157.6	44.8	20.6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
ALL	ALL	ALL	20	ALL	12.0	60	91	21,430	20,570	4.0	201.0	157.6	44.8	20.6

Cruise Unit Report 2410C-1 ROW

Unit Sale Notice Volume (MBF): 2410C-1 ROW

Sp	DBH	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	Utility
RA	14.3			26	1	10	14	1
DF	14.1			9	2	5	2	
WH	12.0			1		1		0
ALL	14.2			36	3	16	16	1

Unit Cruise Design: 2410C-1 ROW

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
FX: FR plots (20 tree / acre expansion)	2.0		5	5	0

Unit Cruise Summary: 2410C-1 ROW

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
RA	29	29	5.8	0
DF	9	9	1.8	0
WH	1	1	0.2	0
ALL	39	39	7.8	0

Unit Cruise Statistics: 2410C-1 ROW

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
RA	128.5	18.2	8.1	99.9	22.3	4.1	12,836	28.8	9.1
DF	39.0	91.3	40.8	117.8	14.8	4.9	4,596	92.5	41.1
WH	3.1	223.6	100.0	109.5	0.0	0.0	344	223.6	100.0
ALL	170.7	29.0	13.0	104.2	20.7	3.3	17,776	35.7	13.4

Unit Summary: 2410C-1 ROW

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	9	ALL	14.1	67	91	4,780	4,596	3.8	36.0	39.0	10.4	9.2
RA	LIVE	CUT	29	ALL	14.3	58	75	13,104	12,836	2.0	115.2	128.5	34.0	25.7
WH	LIVE	CUT	1	ALL	12.0	55	75	344	344	0.0	4.0	3.1	0.9	0.7
ALL	LIVE	CUT	39	ALL	14.2	60	79	18,228	17,776	2.5	155.2	170.7	45.3	35.6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
ALL	ALL	ALL	39	ALL	14.2	60	79	18,228	17,776	2.5	155.2	170.7	45.3	35.6



Forest Practices Application/Notification
Notice of Decision

FPA/N No: 2942287

Effective Date: 3/26/2024

Expiration Date: 3/26/2027

Shut Down Zone: 660 ; .

EARR Tax Credit: Eligible Non-eligible

Reference: Ghost Town Sorts

30-104392; 16,17-10-2E; 3-9-2E

Decision

- Notification Accepted 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.
- Withdrawn Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
- Closed All forest practices obligations are met.

FPA/N Classification

- Class II Class III Class IVG Class IVS

Number of Years Granted on Multi-Year Request

- 4 years 5 years

Conditions on Approval/Reasons for Disapproval

No additional conditions.

Issued By: Jon Byerly

Region: Pacific Cascade Region

Title: Forest Practices Forester

Date: 3/26/2024

Copies to: Landowner, Timber Owner, and Operator

Issued in person: LO TO OP

By: [Signature]

Date: 3/26/2024

Appeal Information

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

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	Office of the Attorney General Natural Resources Division	Department Of Natural Resources Pacific Cascade Region
<u>Physical Address</u> 1111 Israel Road, SW Suite 301 Tumwater, WA 98501	<u>Physical Address</u> 1125 Washington Street, SE Olympia, WA 98504	<u>Physical Address</u> 601 Bond Rd Castle Rock WA 98611
<u>Mailing address</u> Post Office Box 40903 Olympia, WA 98504-0903	<u>Mailing Address</u> Post Office Box 40100 Olympia, WA 98504-0100	<u>Mailing Address</u> Post Office Box 280 Castle Rock, WA 98611-0280

Information regarding the Pollution Control Hearings Board can be found at: <https://eluh0.wa.gov>

Other Applicable Laws

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

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

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

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

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

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

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

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

DNR Declaration of Mailing

I **Tonya Johnston** caused the Notice of Decision for FPA/N No. **2942287** to be placed in the United States mail at Castle Rock, WA, postage paid. I declare under penalty of perjury of the laws of the State of Washington, that the foregoing is true and correct.

3/26/2024
(Date)

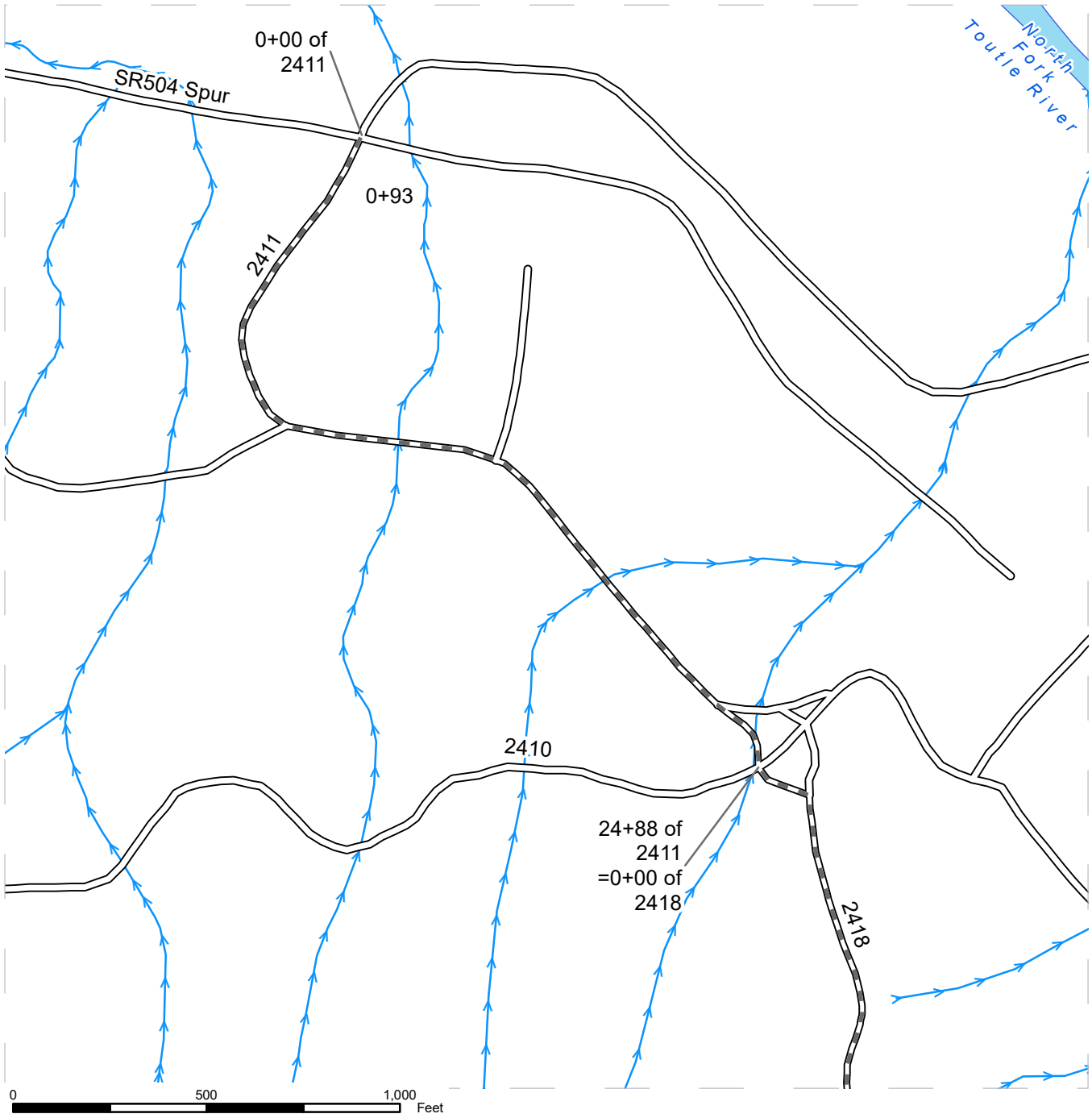
Castle Rock, WA
(City & State where signed)


(Signature)

ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



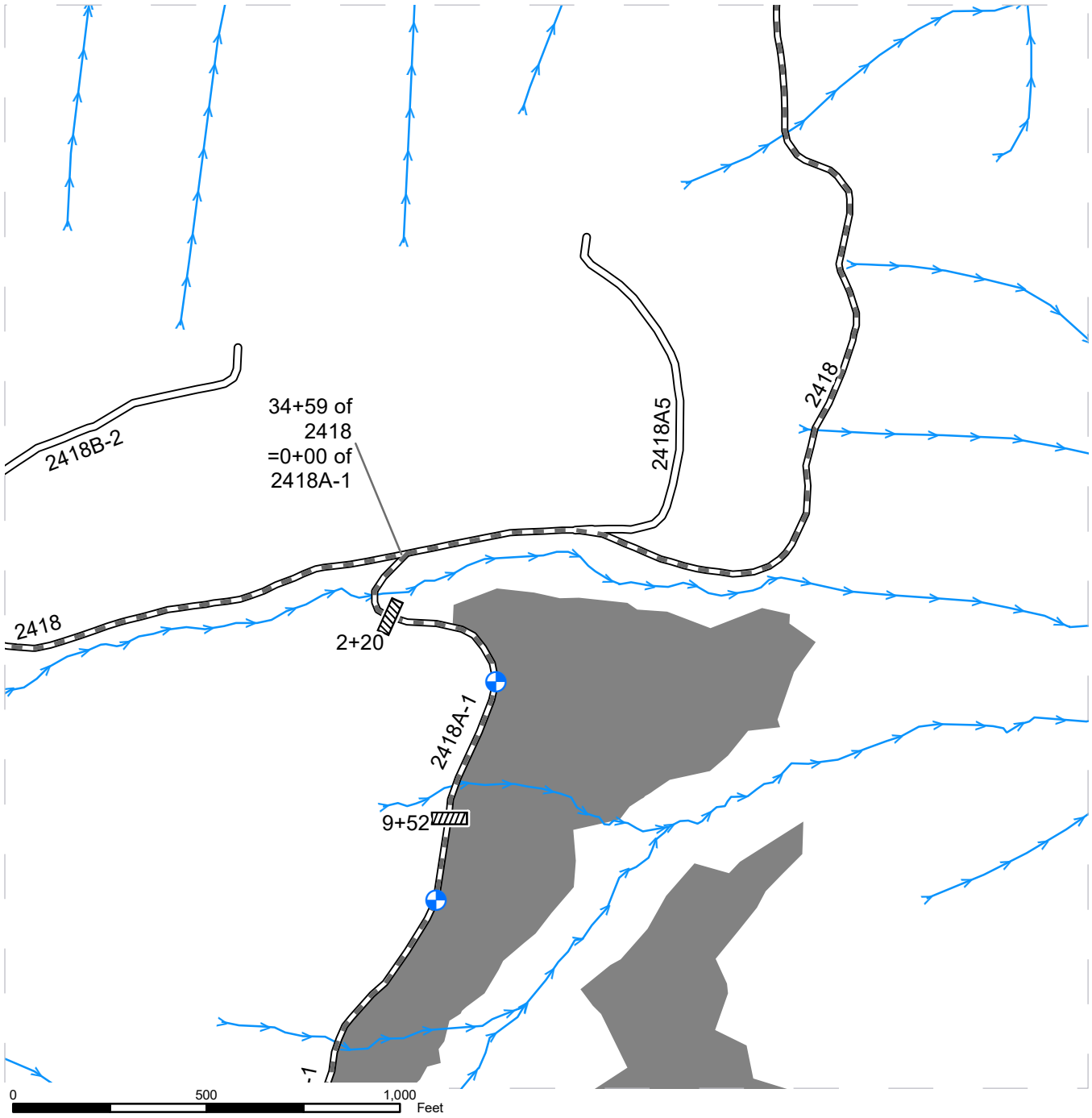
- Existing Roads
- Required Pre-Haul Maintenance
- Streams

N

ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



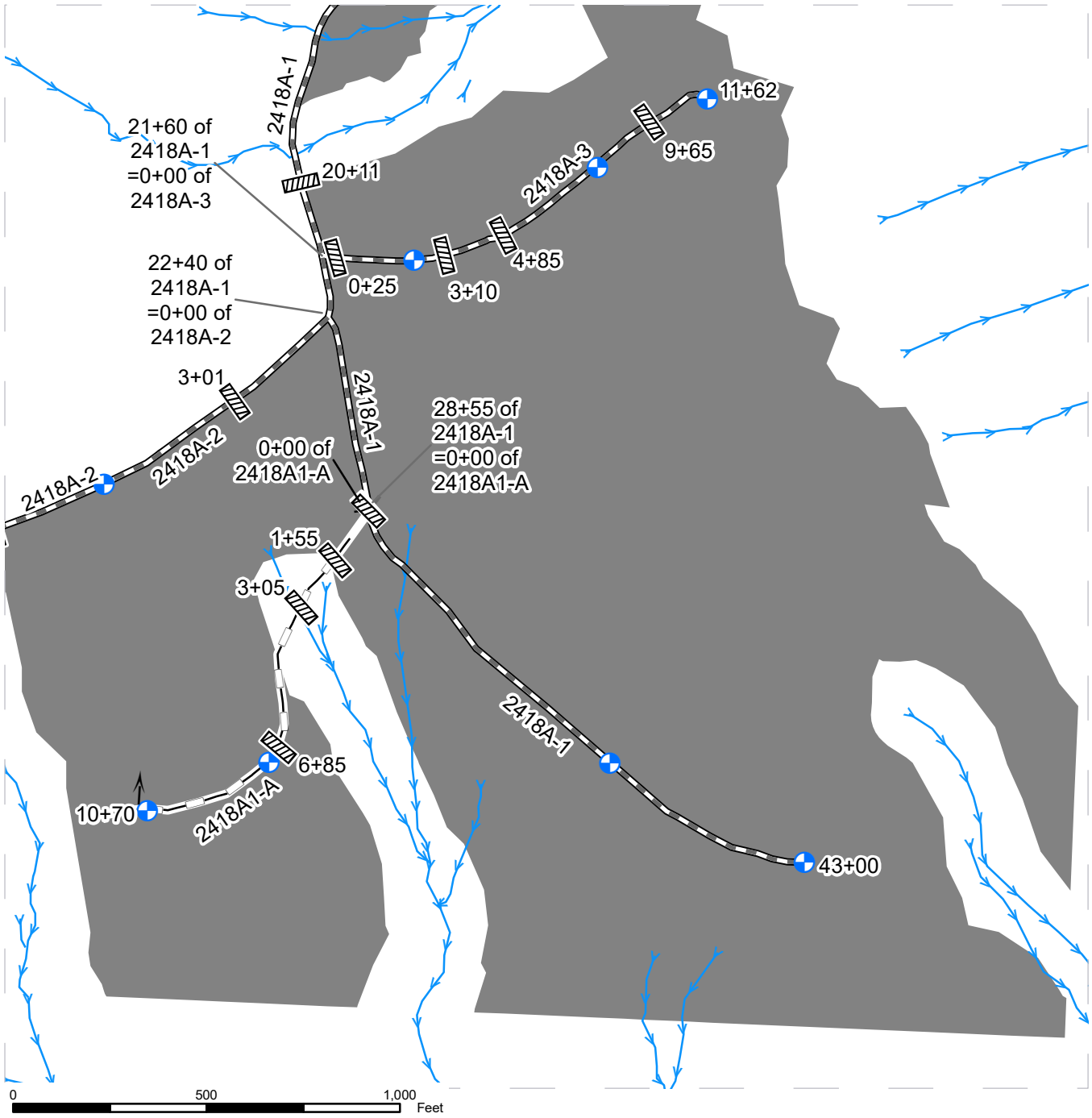
Existing Roads	Culvert	Harvest Unit
Required Pre-Haul Maintenance	Landing - Proposed	Streams



ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



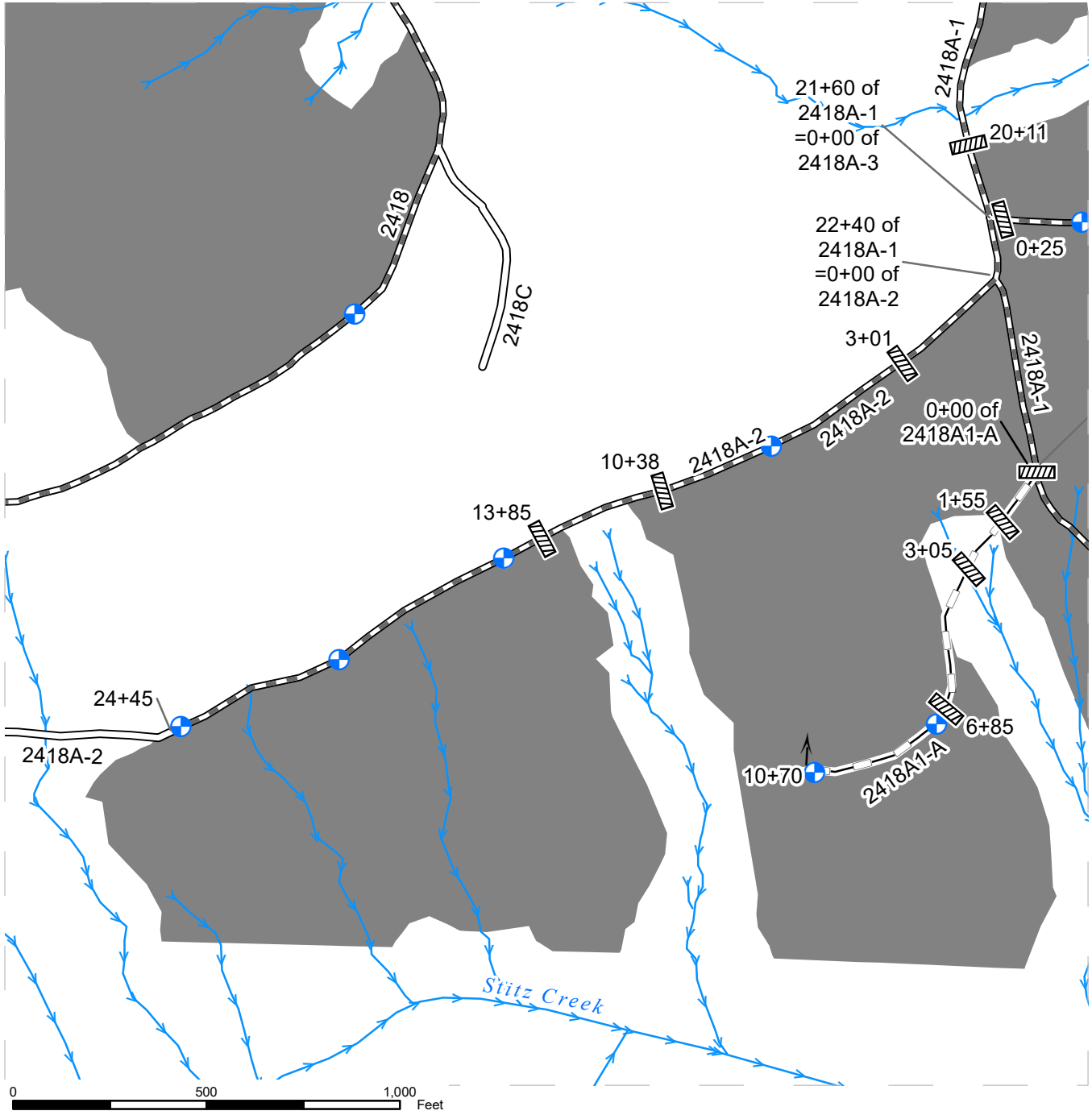
Required Pre-Haul Maintenance	Ditchout	Harvest Unit
Optional Reconstruction	Culvert	Streams
	Landing - Proposed	



ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
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ELEVATION RGE: 1160-2160



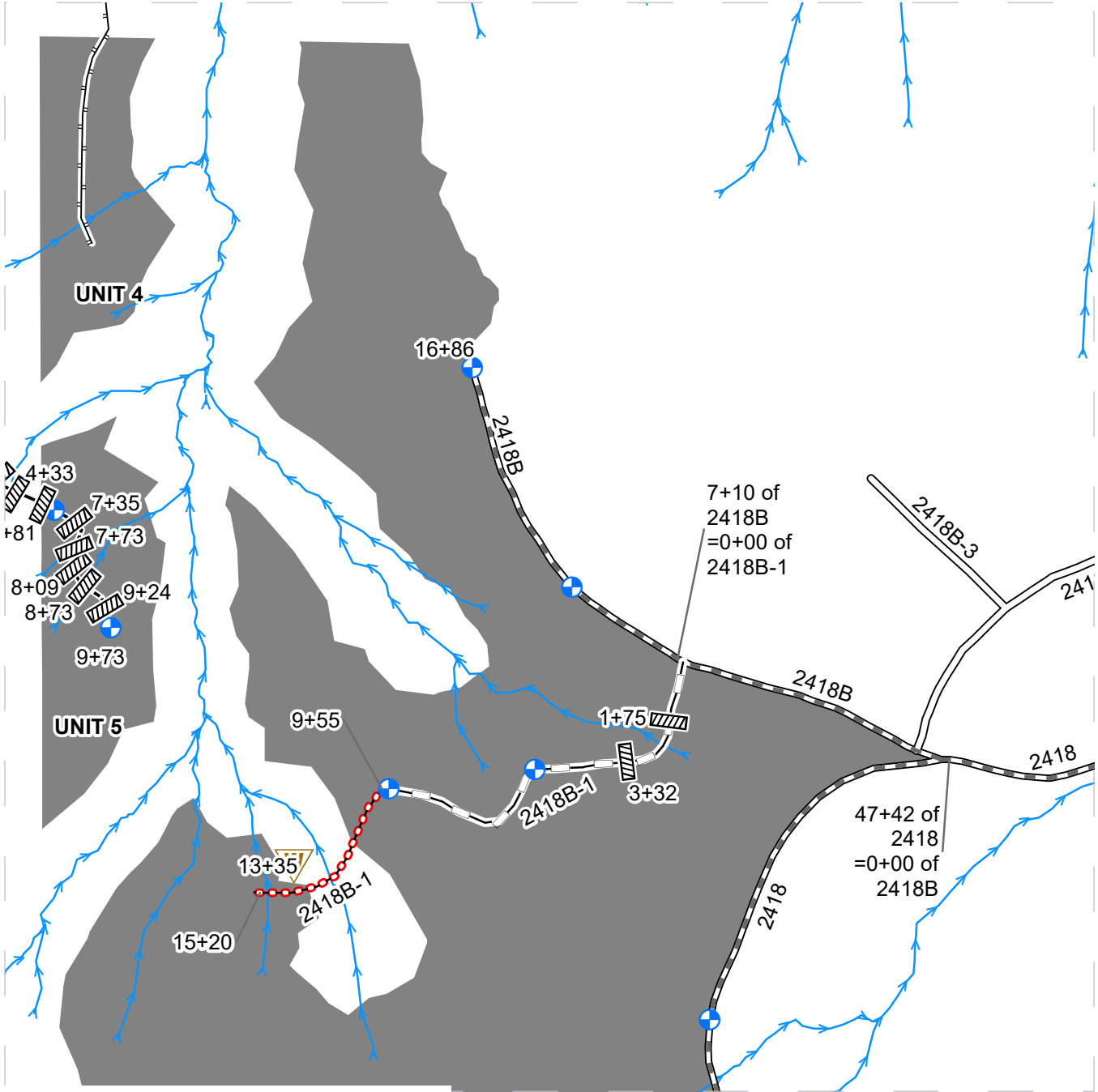
Existing Roads	Ditchout	Harvest Unit
Required Pre-Haul Maintenance	Culvert	Streams
Optional Reconstruction	Landing - Proposed	



ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
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TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
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ELEVATION RGE: 1160-2160

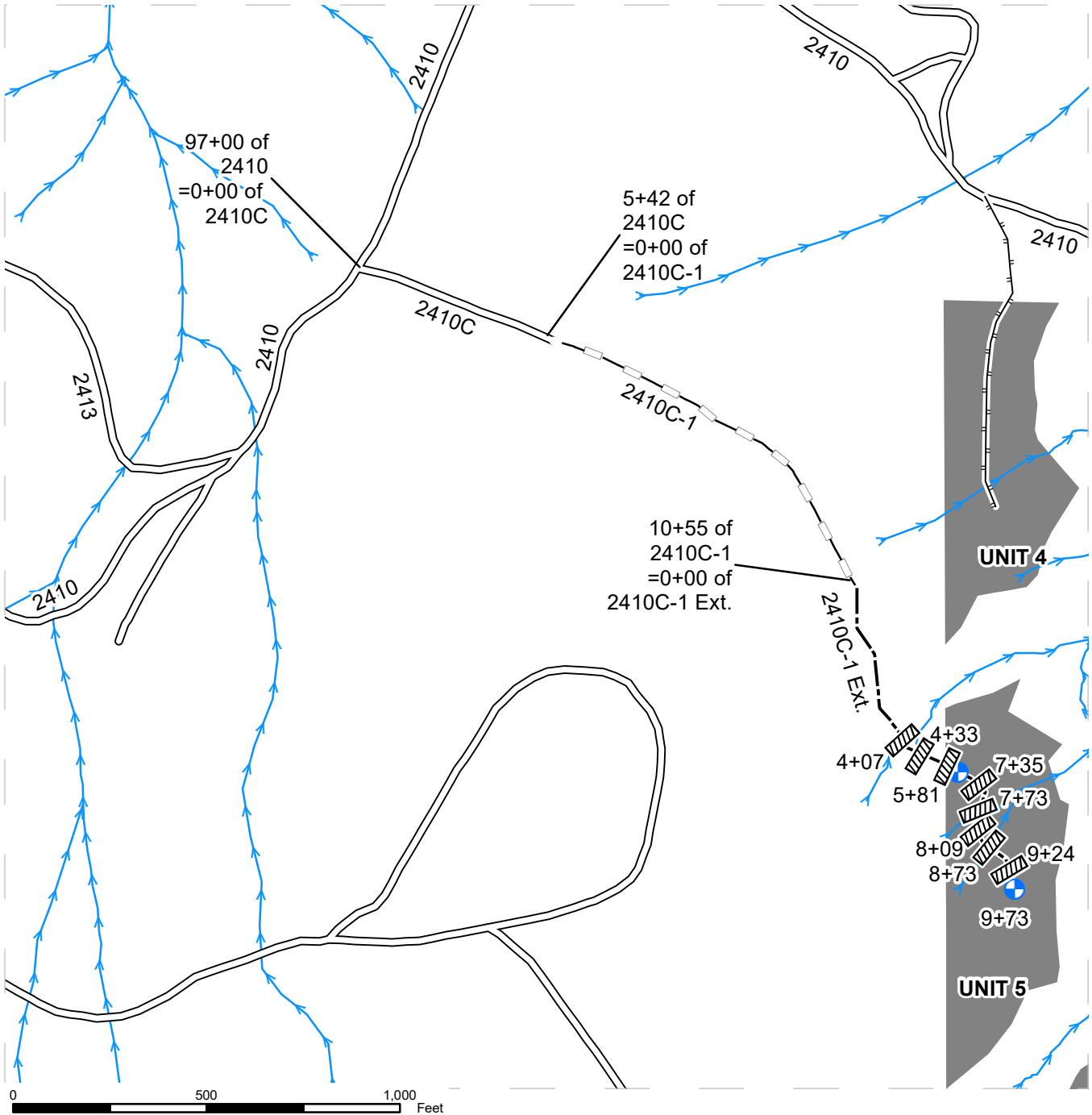


Existing Roads	Culvert	Harvest Unit
Required Pre-Haul Maintenance	Landing - Proposed	Streams
Optional Construction	Waste Area	
Optional Reconstruction		
Required Abandonment		
Designated Skid Trail		

ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



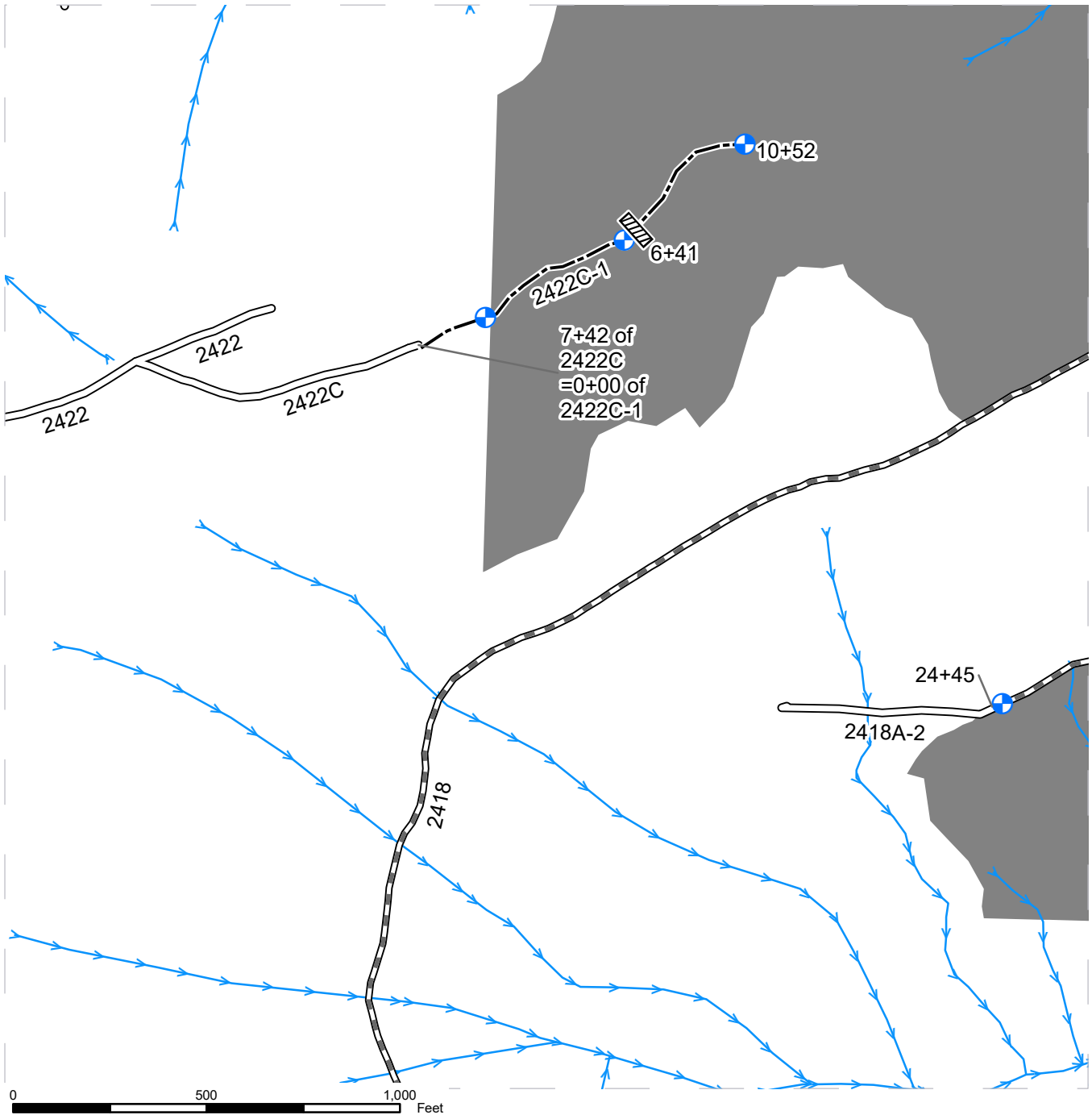
Existing Roads	Culvert	Harvest Unit
Optional Construction	Landing - Proposed	Streams
Optional Reconstruction		
Designated Skid Trail		



ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
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ELEVATION RGE: 1160-2160

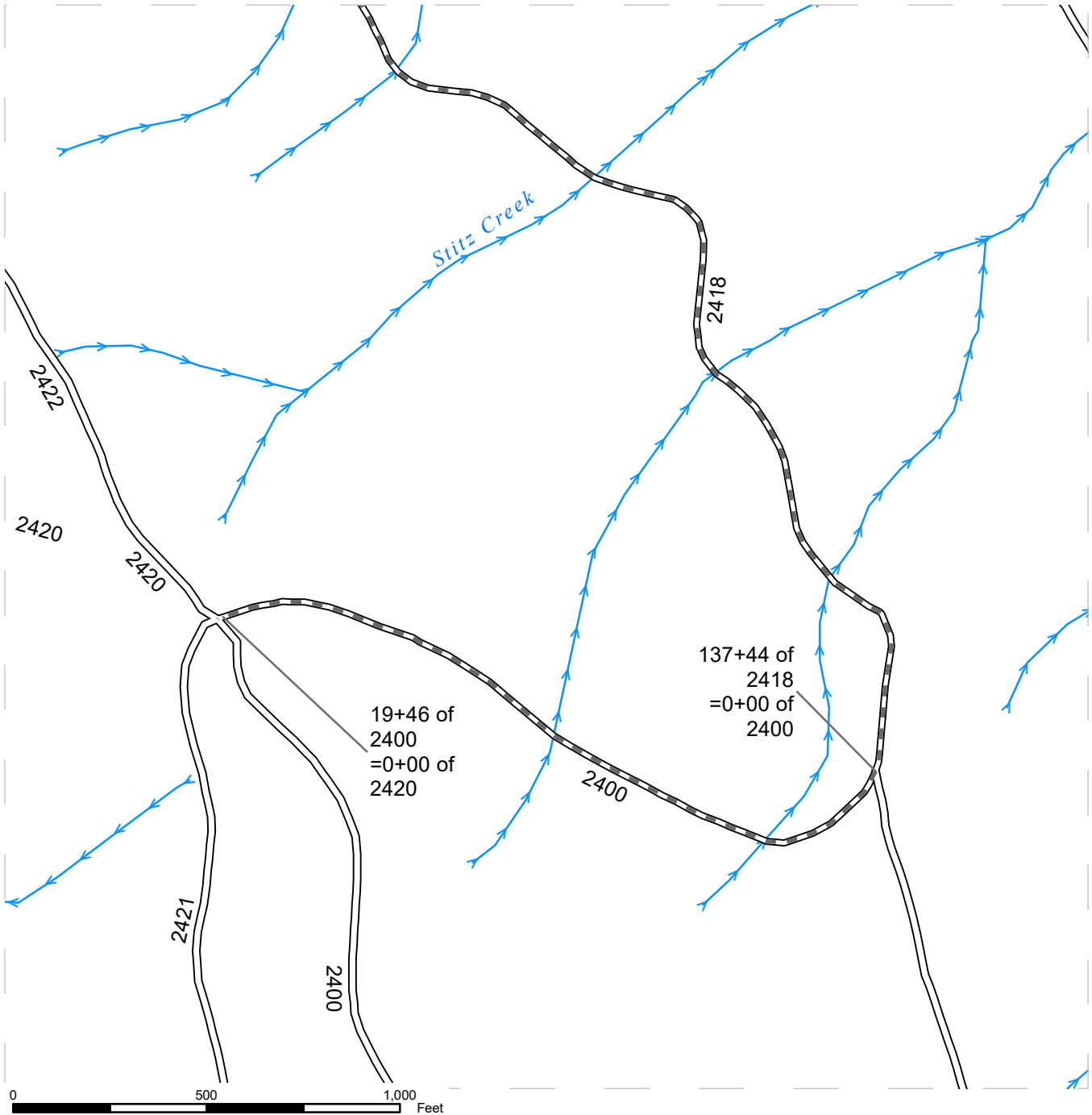


Existing Roads	Culvert	Harvest Unit
Required Pre-Haul Maintenance	Landing - Proposed	Streams
Optional Construction		

ROAD PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



- Existing Roads
- Required Pre-Haul Maintenance
- Streams

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

GHOST TOWN SORTS TIMBER SALE ROAD PLAN
COWLITZ COUNTY
GREEN MOUNTAIN UNIT, SAINT HELENS DISTRICT
PACIFIC CASCADE REGION

AGREEMENT NO.: 30-104392

STAFF ENGINEER: DAVID STONE

DRAWN & COMPILED BY: ALICIA COMPTON
& DAVID STONE

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
2400	0+00 to 19+46	Pre-haul Maintenance
2411	0+00 to 24+88	Pre-haul Maintenance
2418	0+00 to 137+44	Pre-haul Maintenance
2418A-1	0+00 to 43+00	Pre-haul Maintenance
2418A-2	0+00 to 24+45	Pre-haul Maintenance
2418A-3	0+00 to 11+62	Pre-haul Maintenance
2418B	0+00 to 16+86	Pre-haul Maintenance
2418B-1	9+55 to 15+20	Abandonment

0-3 OPTIONAL ROADS

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

<u>Road</u>	<u>Stations</u>	<u>Type</u>
2418A1-A	0+00 to 10+70	Reconstruction
2418B-1	0+00 to 9+55	Reconstruction
2422C-1	0+00 to 10+52	Construction
2410C-1	0+00 to 10+55	Reconstruction
2410C-1 EXT	0+00 to 9+73	Construction

0-4 CONSTRUCTION

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

0-5 RECONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
2418A1-A 2418B-1 2410C-1	0+00 to 10+70 0+00 to 9+55 0+00 to 10+55	Clear, grub, widen subgrade, excavate ditchlines, grade, shape, and compact subgrade surface in accordance to TYPICAL SECTION SHEET. Right-of-way debris disposal. Remove buried logs from fill at Stations 1+55 and 3+05 on 2418A1-A. Compact earthwork. Acquire and install culverts in accordance to CULVERT LIST. Reconstruct road grade according to stakes and reference points marked in the field. Apply rock in accordance to ROCK LIST. Grade, shape, and compact rock.

0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
2400 2411 2418 2418B 2418A-1 2418A-2 2418A-3	0+00 to 19+46 0+00 to 24+88 0+00 to 137+44 0+00 to 16+86 0+00 to 43+00 0+00 to 24+45 0+00 to 11+62	Grade, shape, and compact existing surface in accordance to TYPICAL SECTION SHEET. Clean and widen ditchlines in accordance to TYPICAL SECTION SHEET at locations specified in Clause 2-7. Acquire and install culverts in accordance to CULVERT LIST. Apply rock in accordance to ROCK LIST. Grade, shape, and compact rock.

0-10 ABANDONMENT

This project includes abandonment listed in Clause 9-21.

0-12 DEVELOP ROCK SOURCE

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

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

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

1-2 NON-COMPLIANCE WITH STATE ROAD PLAN

Quantities established in this road plan are minimum acceptable values. Additional quantities required by the state due to unforeseen conditions, or Contractor's choice of construction techniques will be at the Contractor's expense.

1-3 ROAD DIMENSIONS

Contractor 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

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

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

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

1-9 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

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

- Four-foot stakes with orange flagging, orange paint, and/or aluminum reference tags for all road types. Right-of-Way (ROW) boundary tags – on roads with designated ROW harvest units.

1-18 REFERENCE POINT DAMAGE

Contractor 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 Contractor resets all moved or damaged RPs.

1-20 COMPLETE BY DATE

Contractor shall complete road work before the start of timber haul.

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

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

1-23 ROAD WORK PHASE APPROVAL

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

- Subgrade construction and drainage installation
- Waste area construction
- Subgrade compaction
- Rock pit development
- Rock application and compaction
- Abandonment

1-25 ACTIVITY TIMING RESTRICTION

The specified activities are not allowed during the listed closure periods unless authorized in writing by the Contract Administrator. Restrictions for hauling forest products are specified in Contract Clause H-130 HAULING SCHEDULE.

<u>Road</u>	<u>Activity</u>	<u>Closure Period</u>
All	Construction, Reconstruction, Pre-haul Maintenance, Rock Source Work, & Abandonment	October 1 to April 30

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Contractor shall provide a maintenance plan to include further protection of state resources. Contractor shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Contractor is required to maintain all haul roads at their own expense including those listed in Contract Clause C-60.1 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan must be developed. All parties shall follow this plan.

1-29 SEDIMENT RESTRICTION

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

1-30 CLOSURE TO PREVENT DAMAGE

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

- Wheel track rutting exceeds 4 inches on jaw run roads.
- Wheel track rutting exceeds 2 inches on crushed rock roads.
- Wheel track rutting exceeds 2 inches on native surface roads.
- Surface or base stability problems persist.
- Weather is such that satisfactory results cannot be obtained in an area of operations.
- When, in the opinion of the Contract Administrator excessive road damage or rutting may occur.

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

1-32 BRIDGE AND ASPHALT SURFACE RESTRICTION

The use of metal tracked equipment is not allowed on bridge or asphalt surfaces at any time. If Contractor must run equipment on bridge or asphalt surfaces, then rubber tired equipment or other methods, approved in writing by Contract Administrator, must be used. Other methods must meet the following criteria: Material utilized to protect the deck surface from tracked equipment damage must be of substantial thickness, durability and width to support the machine weight and prevent grousers from touching the bridge deck and asphalt surfaces. The only exception when metal tracked equipment on bridges is allowed, is when a bridge has a designed crushed rock surface for the decking.

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

1-33 SNOW PLOWING RESTRICTION

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

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

Contractor 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 Contractor's expense, as directed by the Contract Administrator when authorized by the county or WSDOT.

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

Contractor 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 – CONTRACTOR MAINTENANCE

Contractor shall perform maintenance on roads listed in Contract Clause C-050.1 CONTRACTOR ROAD MAINTENANCE AND REPAIR in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-3 ROAD MAINTENANCE – DESIGNATED MAINTAINER

Contractor may be required to perform maintenance on roads listed in Contract Clause C-060.1 DESIGNATED ROAD MAINTAINER as directed by the Contract Administrator. Contractor shall maintain roads in accordance with FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS.

2-4 PASSAGE OF LIGHT VEHICLES

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

2-5 MAINTENANCE GRADING – EXISTING ROAD

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

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

On the following roads, Contractor shall clean ditches, headwalls, and catch basins. Pulling ditch material across the road or mixing in with the road surface is not allowed. Scatter material down slope outside of cleared right-of-way.

<u>Road</u>	<u>Stations</u>
2400	0+00 to 19+46
2411	0+00 to 24+88
2418	0+00 to 137+44
2418A-1	0+00 to 43+00
2418A-2	0+00 to 24+45
2418A-3	0+00 to 11+62
2418B	0+00 to 16+86

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-5 CLEARING

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

3-7 RIGHT-OF-WAY DECKING

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

3-8 PROHIBITED DECKING AREAS

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

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

3-10 GRUBBING

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

3-12 STUMP PLACEMENT

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

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

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

3-20 ORGANIC DEBRIS DEFINITION

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

3-21 DISPOSAL COMPLETION

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

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

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

<u>Road</u>	<u>Disposal Location</u>
Signal Pit	On the left side of the 4253F at station 3+70
2418B-1 Abandonment	On the right side of the 2418B-1 at station 13+35

3-23 PROHIBITED DISPOSAL AREAS

Contractor shall not place organic debris in the following areas:

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

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-25 SCATTERING ORGANIC DEBRIS

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

3-32 END HAULING ORGANIC DEBRIS

On the following roads and on slopes greater than 45%, Contractor shall end haul or push organic debris to the designated waste areas specified in Clause 3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS, or to a waste area located by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
2418B-1	12+35 to 12+85
Abandonment	13+75 to 14+90
Signal Pit	Mining Location on Pit Development Plan Map

SECTION 4 – EXCAVATION

4-2 PIONEERING

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

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

Contractor shall follow these standards for road grade and alignment:

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

4-4 SWITCHBACK STANDARDS

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

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

4-5 CUT SLOPE RATIO

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

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

4-6 EMBANKMENT SLOPE RATIO

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

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

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

4-10 WIDEN THE EXISTING SUBGRADE

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

<u>Road</u>	<u>Stations</u>
2418A1-A	0+00 to 10+70
2418B-1	0+00 to 9+55
2410C-1	0+00 to 10+55

4-21 TURNOUTS

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

4-22 TURNAROUNDS

Turnarounds must be no larger than 30 feet long and 30 feet wide. Locations are subject to written approval by the Contract Administrator.

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

Contractor shall construct 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

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

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

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

4-37 WASTE AREA LOCATION

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

<u>Road</u>	<u>Waste Area Location</u>	<u>Comments</u>
Signal Pit	On the left side of the 4253F at station 3+70	Pile Organic material separately from all other waste
2418B-1 Abandonment	On the right side of the 2418B-1 at station 13+35	

4-38 PROHIBITED WASTE DISPOSAL AREAS

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

- Within 25 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- Within a wetland management zone.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Within the operational area for cable landings.
- Against standing timber.

4-48 NATIVE MATERIAL

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

4-55 ROAD SHAPING

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

4-56 DRY WEATHER SHAPING

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

4-60 FILL COMPACTION

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

4-61 SUBGRADE COMPACTION

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

4-62 DRY WEATHER COMPACTION

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

4-63 EXISTING SURFACE COMPACTION

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

SECTION 5 – DRAINAGE

5-5 CULVERTS

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

5-6 CULVERT TYPE

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

5-10 CULVERT MARKER INSTALLATION

Contractor shall provide and install culvert markers at the inlet in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and CULVERT LIST.

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. Contractor 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, LIVE STREAM INSTALLATION PROCEDURE DETAIL, the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures", and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations.

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

All culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point, and as recommended by the culvert manufacturer for the type and size of the pipe.

5-20 ENERGY DISSIPATERS

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

5-25 CATCH BASINS

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

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

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

5-27 ARMORING FOR STREAM CROSSING CULVERTS

At the following culverts, Contractor shall place rock in conjunction with construction of the embankment. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the CULVERT LIST and as directed by the Contract Administrator. Rock may not restrict the flow of water into culvert inlets or catch basins. Rock must be set in place by machine. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed. Rock type must meet the specifications in Clause 6-50 LIGHT LOOSE RIP RAP.

<u>Road</u>	<u>Stations</u>	<u>Rock Type</u>
2418A1-A	1+55 & 3+05	LIGHT LOOSE RIP RAP
2410C-1 EXT	4+07, 7+73, & 8+73	LIGHT LOOSE RIP RAP

5-33 NATIVE SURFACE ROADS

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

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

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

<u>Source</u>	<u>Location</u>
Signal Pit	SW1/4 Sec. 03, T09N, R02E, W.M.

6-5 ROCK FROM COMMERCIAL SOURCE

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

6-10 ROCK SOURCE DEVELOPMENT PLAN BY STATE

Contractor 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. Contractor shall notify the Contract Administrator a minimum of 5 business days before starting any operations in the rock source.

<u>Source</u>	<u>Location</u>
Signal Pit	SW1/4 Sec. 03, T09N, R02E, W.M.

6-22 FRACTURE REQUIREMENT FOR ROCK

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

6-23 ROCK GRADATION TYPES

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

6-28 1 ¼-INCH MINUS CRUSHED ROCK

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

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

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

6-34 3-INCH JAW RUN ROCK

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

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

6-50 LIGHT LOOSE RIP RAP

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

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

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

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

6-56 ROCK MEASUREMENT BY TRUCK VOLUME

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

6-65 ROCK STOCKPILE LOCATION

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

<u>Rock Source</u>	<u>Rock Type</u>	<u>Quantity (c.y.)</u>	<u>Stockpile Location</u>
Signal Pit	1 ¼ Inch Minus	1,000	On the Right side of the 4253F at station 2+30

6-67 ROCK STOCKPILE SPECIFICATIONS

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

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

When completed, the stockpile must be neat and regular in shape. The stockpile height is limited to a maximum of 15 feet. Stockpiles in excess of 200 cubic yards must be built up in layers of not more than 5 feet deep. Stockpile layers must be constructed by trucks, clamshells, or other methods approved in writing by the Contract Administrator. Each layer must be completed over the entire area of the pile before depositing aggregates in the next layer. The aggregates may not be dumped so that they run down and over the lower layers in the stockpile. Pushing aggregates into piles with a bulldozer shall not be permitted. The method of dropping from a bucket or spout in one location to form a cone shaped pile is not allowed.

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

6-70 APPROVAL BEFORE ROCK APPLICATION

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

6-71 ROCK APPLICATION

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

6-73 ROCK FOR WIDENED PORTIONS

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

6-75 OPTIONAL ROCK EXCEPTION

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

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

<u>Road</u>	<u>Stations</u>
2422C-1	0+00 to 10+52

6-76 DRY WEATHER ROCK COMPACTION

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

SECTION 8 – EROSION CONTROL

8-1 SEDIMENT CONTROL STRUCTURES

On the following roads, Contractor shall install sediment traps in ditchlines in accordance with the SEDIMENT TRAP DETAIL. On all roads, Sediment control in ditchlines shall be accomplished by using SEDIMENT TRAPS or other methods, as directed by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
2418A1	11+50
2418A1-A	2+95

8-2 PROTECTION FOR EXPOSED SOIL

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

8-15 REVEGETATION

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

<u>Road</u>	<u>Location</u>	<u>Qty (lbs)*</u>	<u>Abandonment</u>
2400	0+00 to 19+46 , Ditchline	2.9	
2411	0+00 to 24+88, Ditchline	3.6	
2418	0+00 to 137+44, Ditchline & Landings	22.0	
2418A-1	0+00 to 43+00, Ditchline & Landings	13.0	
2418A-2	0+00 to 24+45, Ditchline & Landings	8.9	
2418A-3	0+00 to 11+62, Ditchline & Landings	7.1	
2418B	0+00 to 16+86, Ditchline & Landings	5.4	
2418A1-A	0+00 to 10+70	16.6	
2418B-1	0+00 to 9+55	15.0	
2418B-1	9+55 to 15+20, Abandonment only		23.2
2422C-1	0+00 to 10+52	21.9	
2410C-1	0+00 to 10+55	14.4	
2410C-1 EXT	0+00 to 9+73	19.8	
Signal Pit	Pit/Access Road/Waste Area	7.9	

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

8-16 REVEGETATION SUPPLY

The Contractor shall provide the grass seed.

8-17 REVEGETATION TIMING

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

8-19 ASSURANCE FOR SEEDED AREA

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

8-25 GRASS SEED

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

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

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

SECTION 9 – POST-HAUL ROAD WORK

9-1 EARTHEN BARRICADES

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

<u>Road</u>	<u>Stations</u>
2418A-2	24+45
2418B-1	9+55

9-2 CULVERT REMOVAL FROM LIVE STREAM

On the following road, Contractor shall remove existing culverts from live streams and leave the resulting channel open with excavation slope and excavated channel width as specified. End haul excavated material to a waste area designated in Clause 4-37 WASTE AREA LOCATION. Culvert removal from live streams must be in accordance with the LIVE STREAM CULVERT REMOVAL PROCEDURE DETAIL, FILL REMOVAL DETAIL, TYPICAL ABANDONMENT/DEACTIVATED STREAM CROSSING DETAIL, and SETTLING POND AND PUMP DETAIL.

<u>Road</u>	<u>Stations</u>	<u>Excavated Channel Width</u>	<u>Slope Ratio</u>	<u>Comments</u>
2418B-1	12+60	4.3 feet	1 ½:1	Remove fill to native channel depth
2418B-1	14+50	1.9 feet	1 ½:1	Remove fill to native channel depth

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

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

9-5 POST-HAUL MAINTENANCE

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

9-10 LANDING DRAINAGE

Contractor shall provide for drainage of the landing surface.

9-11 LANDING EMBANKMENT

Contractor shall slope landing embankments to the original construction specifications.

9-12 LANDING EMBANKMENT REMOVAL

Contractor shall reduce or relocate the landing embankment, as directed by the Contract Administrator. Place excavated material in a waste area designated by the Contract Administrator.

9-21 ROAD ABANDONMENT

Contractor shall abandon the following roads by the specified date. Work must be in accordance with the ROAD ABANDONMENT CROSS SECTIONS DETAIL and Clause 9-24 HEAVY ABANDONMENT.

<u>Road</u>	<u>Stations</u>	<u>Type</u>	<u>Date</u>
2418B-1	9+55 to 15+20	Heavy	Before October 31, 2024

9-24 HEAVY ABANDONMENT

- Fill in ditches.
- Outslope the surface to conform to natural ground.
- Remove embankments, sidecast fill, and place material into cut-banks and shape banks to conform to the natural ground. End haul surplus excavation material to waste area at Station 13+35 on 2418B-1.
- Remove buried logs from fill between Stations 12+35 to 12+85 and 13+75 to 14+90 on 2418B-1.
- Construct non-drivable waterbars according to the attached NON-DRIVABLE WATERBAR DETAIL at a maximum spacing which will produce a vertical drop of no more than 10 feet between waterbars or between natural drainage paths and with a maximum spacing of 200 feet, or as marked in the field.
- Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
- Key waterbars into the cut-slope to intercept the ditch. Waterbars shall be outsloped to provide positive drainage. Outlets shall be on stable locations.
- Remove cross drain culvert and leave the resulting trench open. Slope all trench walls and approach embankments no steeper than 1.5:1.
- Remove stream culverts in accordance with Clause 9-2 CULVERT REMOVAL FROM LIVE STREAMS.
- Scatter woody debris onto abandon road surfaces.
- Apply grass seed concurrently with abandonment to all exposed soil within the old roadway limits and in accordance with Section 8 EROSION CONTROL.
- Provide and evenly spread a 4-inch layer of straw to all exposed soils within 100 feet of a stream.

SECTION 10 MATERIALS

10-15 CORRUGATED STEEL CULVERT

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

10-17 CORRUGATED PLASTIC CULVERT

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

10-21 METAL BAND

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

10-22 PLASTIC BAND

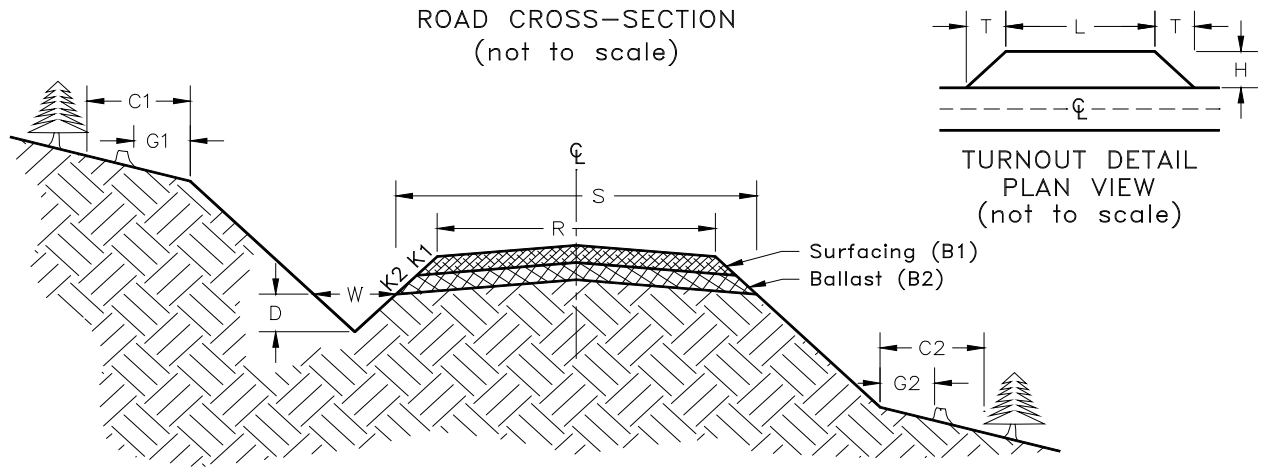
Plastic coupling and end bands must meet the AASHTO specification designated for the culvert. Only fittings supplied or recommended by the culvert manufacturer may be used. Couplings must be split coupling band. Split coupling bands must have a minimum of four corrugations, two on each side of the pipe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

10-24 GAUGE AND CORRUGATION

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

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

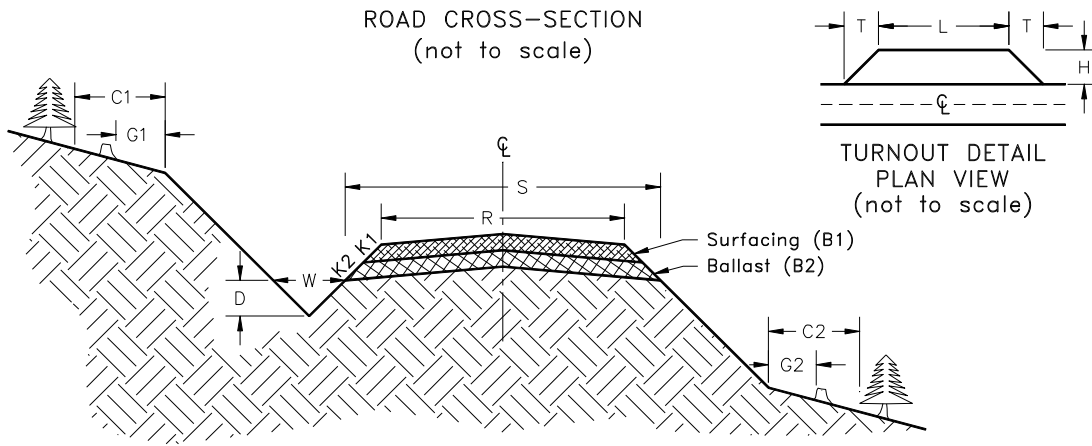
TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width (feet)		Ditch		Crown at CL (inches)	Grubbing Limits (feet)		Clearing Limits (feet)	
				S	R	Width (feet)	Depth (feet)		G1	G2	C1	C2
2400	0+00	19+46	A	16	12	3	1	4	NA	NA	NA	NA
2411	0+00	24+88	A	16	12	3	1	4	NA	NA	NA	NA
2418	0+00	137+44	A	16	12	3	1	4	NA	NA	NA	NA
2418A-1	0+00	43+00	A	16	12	3	1	4	NA	NA	NA	NA
2418A-2	0+00	24+45	A	16	12	3	1	4	NA	NA	NA	NA
2418A-3	0+00	11+62	A	16	12	3	1	4	NA	NA	NA	NA
2418B	0+00	16+86	A	16	12	3	1	4	NA	NA	NA	NA
* 2418A1-A	0+00	10+70	C	16	12	3	1	4	3	3	5	5
* 2418B-1	0+00	9+55	C	16	12	3	1	4	3	3	5	5
* 2422C-1	0+00	2+11	C	16	12	3	1	4	3	3	ROW TAGS	
* 2422C-1	2+11	10+52	C	16	12	3	1	4	3	3	5	5
* 2410C-1	0+00	10+55	C	16	12	3	1	4	3	3	5	5
* 2410C-1 EXT	0+00	5+81	C	16	12	3	1	4	3	3	ROW TAGS	
* 2410C-1 EXT	5+81	9+73	C	16	12	3	1	4	3	3	5	5

* Optional Roads

ROCK LIST
(Page 1 of 3)



BALLAST

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout		
									Length (feet)	Width (feet)	Taper (feet)
			K2	B2					L	H	T
3 INCH JAW RUN											
2418 LANDING	--	--	--	--	41/Landing	2 Landing	82	Signal Pit			
2418A-1 LANDING	--	--	--	--	41/Landing	4 Landing	164				
2418A-2 LANDING	--	--	--	--	41/Landing	4 Landing	164				
2418B LANDING	--	--	--	--	41/Landing	2 Landing	82				
2418A-3	0+00	11+62	1½:1	6	30	11.62	349				
CURVE WIDENING	--	--	1½:1	6	--	--	14				
TURNOUT JUNCTION LANDING	--	0+00	1½:1	6	19/TO	1 TO	19		50	10	25
	--	0+00	--	--	--	--	10				
2418A1-A	0+00	10+70	1½:1	9	46	10.70	492				
CURVE WIDENING	--	--	1½:1	9	--	--	20				
TURNOUT JUNCTION LANDING	--	0+00	1½:1	9	28/TO	1 TO	28		50	10	25
	--	0+00	--	--	--	--	12				
	--	--	--	--	41/Landing	2 Landings	82				

ROCK LIST
(Page 2 of 3)

BALLAST (continued)

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout		
									Length (feet)	Width (feet)	Taper (feet)
			K2	B2					L	H	T
3 INCH JAW RUN											
2418B-1	0+00	9+55	1½:1	9	46	9.55	439	Signal Pit			
CURVE WIDENING	--	--	1½:1	9	--	--	22				
TURNOUT	--	--	1½:1	9	28/TO	1 TO	28		50	10	25
JUNCTION	0+00		--	--	--	--	12				
LANDING	--	--	--	--	41/Landing	2 Landings	82				
* 2422C-1	0+00	10+52	1½:1	12	63	10.52	663				
CURVE WIDENING	--	--	1½:1	12	--	--	27				
TURNOUT	--	--	1½:1	12	28/TO	1 TO	38		50	10	25
JUNCTION	0+00		--	--	--	--	16				
LANDING	--	--	--	--	54/Landing	3 Landings	162				
2410C-1	0+00	10+55	1½:1	6	46	10.55	317				
CURVE WIDENING	--	--	1½:1	9	--	--	10				
TURNOUT	--	--	1½:1	6	19/TO	1 TO	19	50	10	25	
JUNCTION	0+00		--	--	--	--	8				
2410C-1 EXT	0+00	0	1½:1	9	46	15.94	448				
CURVE WIDENING	--	--	1½:1	9	--	--	23				
TURNOUT	--	--	1½:1	9	28/TO	1 TO	28	50	10	25	
LANDING	--	--	--	--	41/Landing	2 Landing	82				

* Optional Rock see Clause 6-75

Required 3 INCH JAW RUN BALLAST TOTAL **3,159** Cubic Yards
Optional 3 INCH JAW RUN BALLAST TOTAL **906** Cubic Yards

ROCK LIST
(Page 3 of 3)

SURFACE

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth (inches)	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout			
									Length (feet)	Width (feet)	Taper (feet)	
			K1	B1					L	H	T	
					1 1/4-INCH MINUS							
2400	0+00	19+46		SPOT ROCK	--	--	60	Signal Pit				
2411	0+00	24+88		SPOT ROCK	--	--	100					
2418	0+00	137+44		SPOT ROCK	--	--	300					
2418A-1	0+00	43+00		SPOT ROCK	--	--	250					
2418A-2	0+00	24+45		SPOT ROCK	--	--	230					
2418B	0+00	16+86		SPOT ROCK	--	--	150					
4253F		2+30		STOCKPILE			1,000					

Required 1 1/4 -INCH MINUS CRUSHED SURFACE TOTAL **2,090** Cubic Yards

RIPRAP

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y./ Station	# of Stations	C.Y. Total	Rock Source
			K1	B1				
					LIGHT LOOSE RIPRAP			Signal Pit and Rock found during excavation on road Construction and Reconstruction
Culvert headwall and energy dissipators								
2418A-1 Culverts	--	--	--	--	--	--	5.5	
2418A-2 Culverts	--	--	--	--	--	--	3.5	
2418A-3 Culverts	--	--	--	--	--	--	4.0	
2418A1-A Culverts	--	--	--	--	--	--	13.5	
2418B-1 Culverts	--	--	--	--	--	--	2.0	
2422C-1 Culvert	--	--	--	--	--	--	1.0	
2410C-1 EXT Culverts	--	--	--	--	--	--	24.5	

LIGHT LOOSE RIPRAP TOTAL **54.0** Cubic Yards

CULVERT LIST

Road Number	Location	Culvert			Armoring (Cubic Yards)			Backfill Material	Bedding Material	Culvert Marker (Y/N)	Remarks
		Dia. (inches)	Length (feet)	Type	Inlet	Outlet	Type				
2418A-1	2+20	18	36	XX	0.5	3.0	LL	NT	NT	Y	Cross drain
	9+52	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain, Excavate leadoff ditch @ outlet
	20+11	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
2418A-2	3+01	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
	10+38	18	30	XX	0.5	1.0	LL	NT	NT	Y	Cross drain
	13+85	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain, Excavate leadoff ditch @ outlet
2418A-3	0+25	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
	3+10	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain, Excavate leadoff ditch @ outlet
	4+85	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain, Excavate leadoff ditch @ outlet
	9+65	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain, no skew
2418A1-A	0+00	18	44	XX	0.5	1.0	LL	NT	NT	Y	Cross drain, in existing ditchline
	1+55	24	40	XX	2.0	3.0	LL	NT	NT	Y	T-5 creek, remove buried logs prior to culvert installation
	3+05	24	34	XX	2.0	4.0	LL	NT	NT	Y	T-4 creek, remove buried logs prior to culvert installation
	6+85	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain, no skew
	10+70	-	-	-	-	-	-	-	-	-	Ditchout right
2418B-1	1+75	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
	3+32	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
2422C-1	6+41	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
2410C-1 EXT	4+07	24	40	XX	2.0	4.0	LL	NT	NT	Y	T-5 creek
	4+33	18	30	XX	0.5	1.0	LL	NT	NT	Y	Cross drain
	5+81	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
	7+35	18	30	XX	0.5	0.5	LL	NT	NT	Y	Cross drain
	7+73	24	40	XX	2.0	3.0	LL	NT	NT	Y	T-5 creek
	8+09	18	30	XX	0.5	1.0	LL	NT	NT	Y	Cross drain
	8+73	24	40	XX	2.0	4.0	LL	NT	NT	Y	T-5 creek
	9+24	18	30	XX	0.5	2.0	LL	NT	NT	Y	Cross drain

Key:

- CR - Crushed Rock – 1 ¼ " minus
- NT - Native (bank run)
- LL - Light Loose Riprap
- PD - Polyethylene Pipe Dual Wall
- AM - Aluminized Metal
- XX - PD or AM

COMPACTION LIST

Road	From Station	To Station	Type	Max Depth Per Lift (inches)	Equipment Type	Equipment Weight (lbs)	Minimum Number of Passes	Maximum Operating Speed (mph)
All Waste Areas	All	All	Waste Area	12	Excavation	28,000	3	--
All roads	All	All	Embankment	12	Excavation	28,000	4	--
All roads	All	All	Subgrade	12	Vibratory Smooth Drum	20,000	4	5
All roads	All	All	3 Inch Jaw Run Rock	12	Vibratory Smooth Drum	20,000	4	5
All roads	All	All	1 ¼ Inch Minus Crushed Rock	6	Vibratory Smooth Drum	20,000	4	5

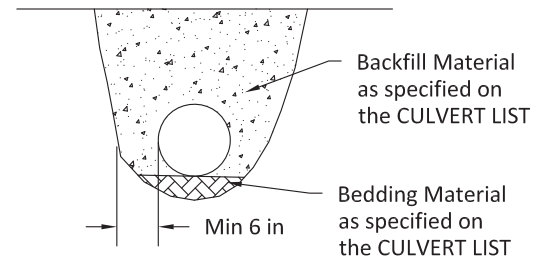
CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 1 OF 2

INSTALLATION REQUIREMENTS:

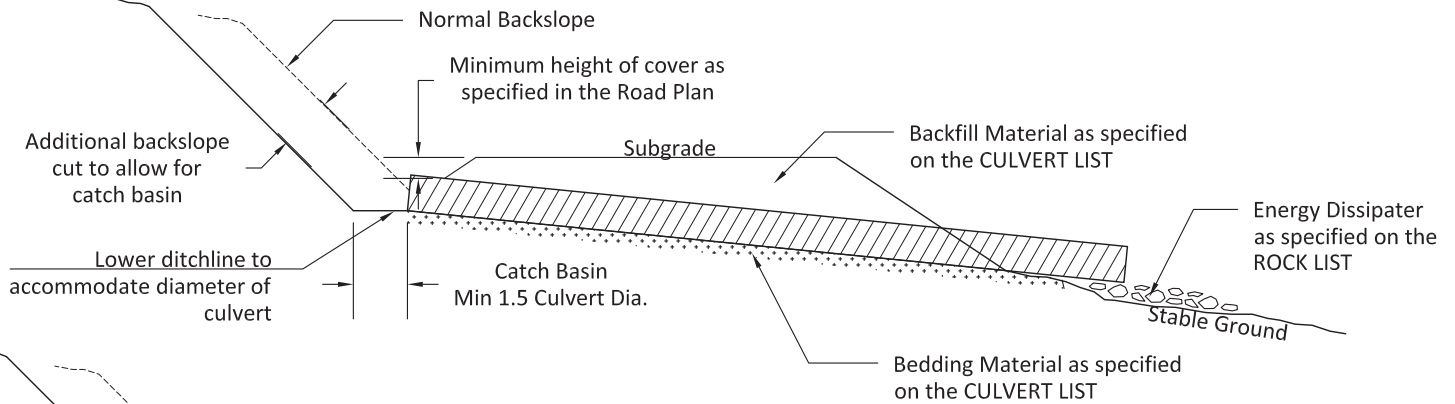
1. Proper preparation of foundation and placement of any required bedding material shall precede the installation of all culverts. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform, dense, unyielding base. The pipe must be uniformly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

ALL DRAWINGS ARE NOT TO SCALE

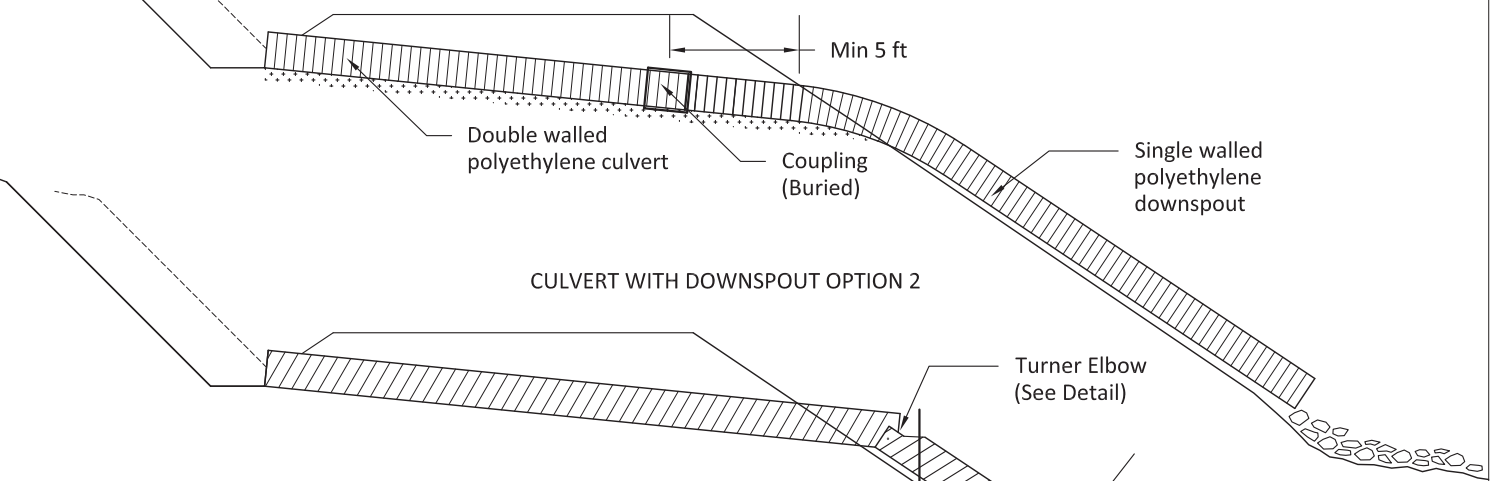
CROSS SECTION



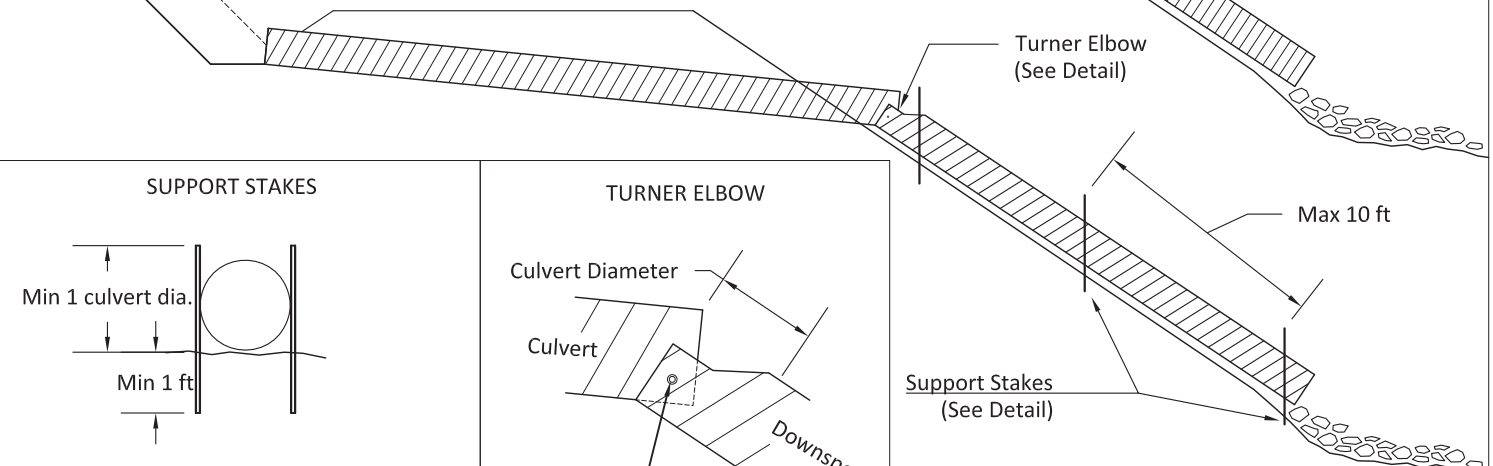
CULVERT PROFILE (TYPICAL)



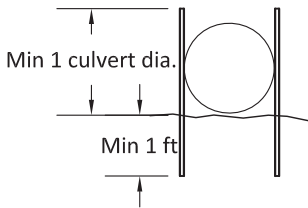
CULVERT WITH DOWNSPOUT OPTION 1



CULVERT WITH DOWNSPOUT OPTION 2

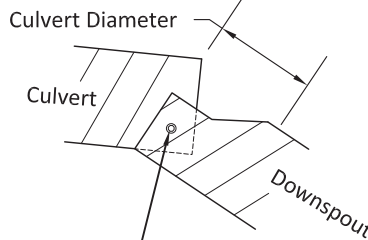


SUPPORT STAKES



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

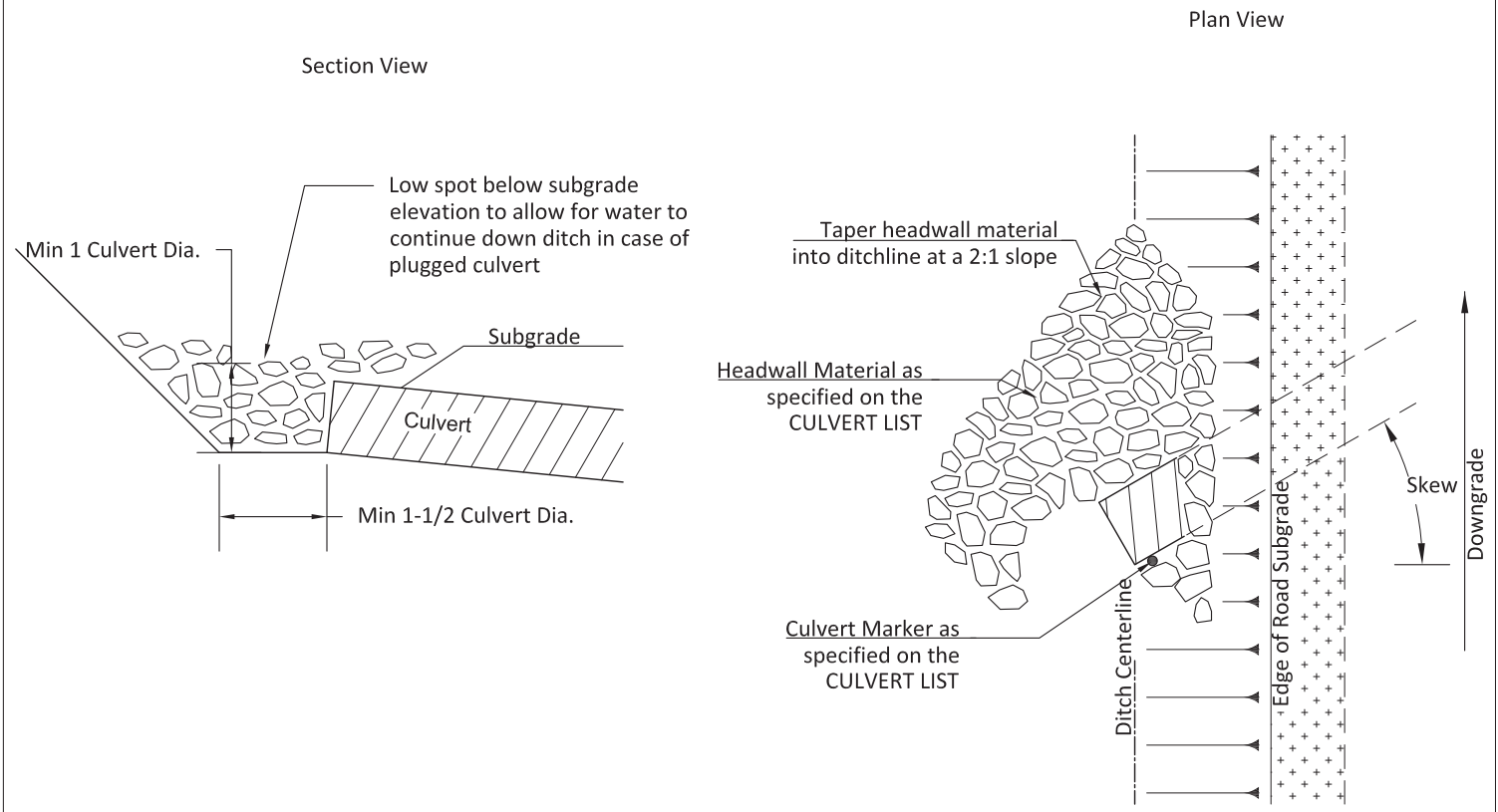
TURNER ELBOW



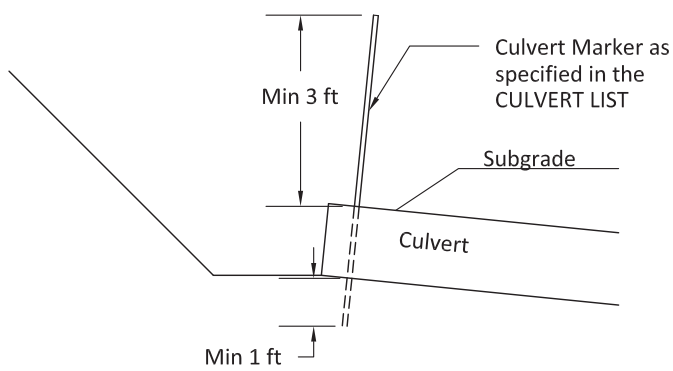
Downspout must be 6 inches larger in diameter than the culvert.

CULVERT AND DRAINAGE SPECIFICATION DETAIL
PAGE 2 OF 2

HEADWALLS

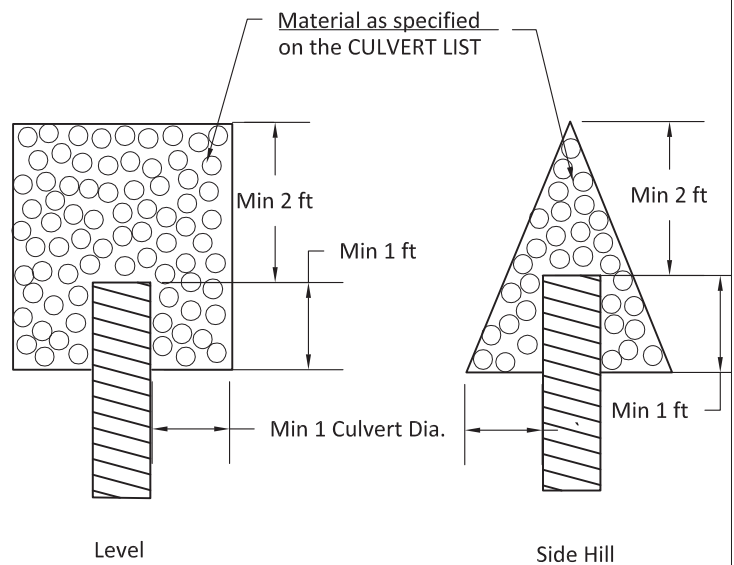


CULVERT MARKERS



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

ENERGY DISSIPATORS



Min Energy Dissipater Depth: 1 Culvert Dia.

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 1 of 2

Cuts and Fills

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

Surface

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

Drainage

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

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Page 2 of 2

Preventative Maintenance

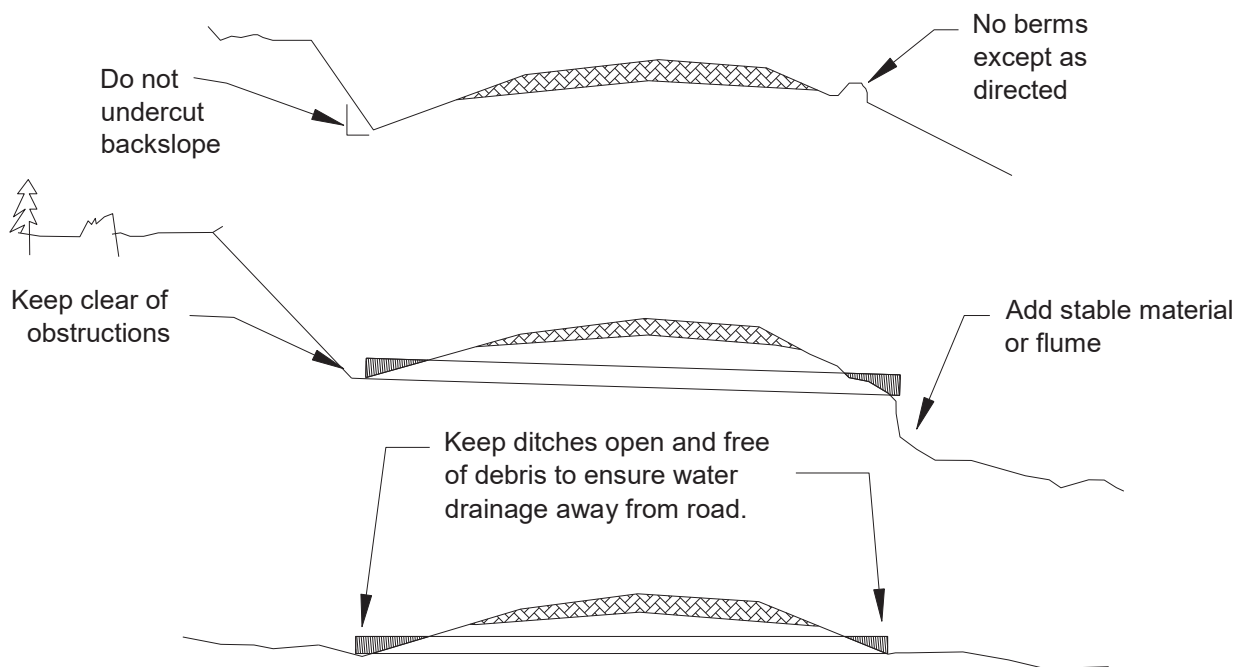
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

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

Debris

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



LIVE STREAM INSTALLATION PROCEDURE

Order of work is as follows, deviations shall be approved, in writing, by the Contract Administrator.

- 1) Purchaser shall notify the State of intent to start project, and a pre-work conference shall be held before move in of equipment. State will designate a representative that will remain on site at all times when work is being performed in creek channel.
- 2) Work period shall be restricted to the permitted times stated in an approved FPA. Work period on Np and Ns streams that are not covered by an FPA shall be permitted only during the dry weather seasonal low flow period between June 1 and October 1; any work outside of this timing restriction may be granted in writing by the Contract Administrator only during unseasonably low flows.
- 3) Assemble the items on the Materials List onsite before proceeding.
- 4) Set up pumps (one as backup).
- 5) Dam up stream with sandbags and line floor of dam with plastic (to prevent sub-surface water flow), place clean rock on plastic to hold in place, and key leading edge of plastic into channel bottom - see SETTLING POND AND PUMP DETAIL. Build a settling pond at culvert outlet. Fill may need to be removed before the settling pond installation due to space limitations. Pump clean water at catch basin around work site and back into stream. Dirty water shall be pumped away from site and onto forest floor a minimum of 200 feet from live streams. Silt fence shall be erected at base of fill slope and bottom edge of fence shall be keyed into slope and held in place with rocks to prevent water from flowing under the silt fence.
- 6) Remove remainder of fill and culvert.
- 7) Remove settling pond.
- 8) Cover exposed soils within 100 feet of all live streams with straw (minimum depth of 4 inches) and grass seed.

Materials List:

- 3 pumps, (one as a backup) The clean water pump (dam at culvert catch basin) shall have a minimum capacity of 1200 gallons per minute. The dirty water pump (settling pond) and the backup pump shall each have a minimum capacity of 600 gpm. Culvert removal should not start during rain or threat of rain;
- plastic sheet;
- silt fence and stakes;
- bales of straw

LIVE STREAM REMOVAL PROCEDURE

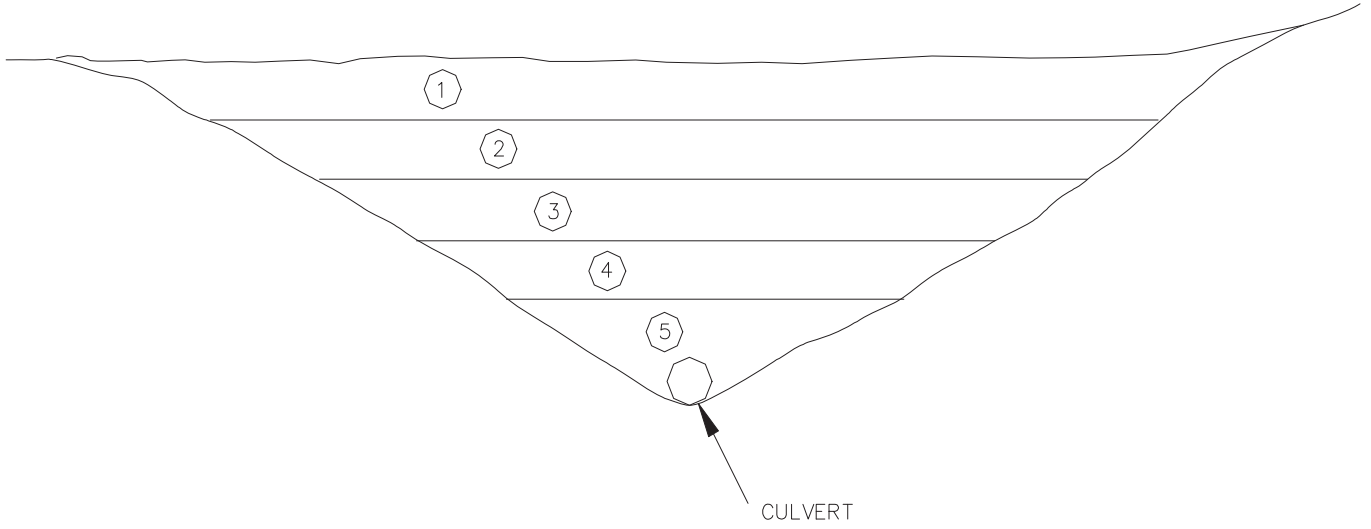
Order of work is as follows, deviations shall be approved, in writing, by the Contract Administrator.

- 1) Purchaser shall notify the State of intent to start project, and a pre-work conference shall be held before move in of equipment. State will designate a representative that will remain on site at all times when work is being performed in creek channel.
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- 3) Assemble the items on the Materials List onsite before proceeding.
- 4) Set up pumps (one as backup).
- 5) Dam up stream with sandbags and line floor of dam with plastic (to prevent sub-surface water flow), place clean rock on plastic to hold in place, and key leading edge of plastic into channel bottom - see **SETTLING POND AND PUMP DETAIL**. Build a settling pond at culvert outlet. Fill may need to be removed before the settling pond installation due to space limitations. Pump clean water at catch basin around work site and back into stream. Dirty water shall be pumped away from site and onto forest floor a minimum of 200 feet from live streams. Silt fence shall be erected at base of fill slope and bottom edge of fence shall be keyed into slope and held in place with rocks to prevent water from flowing under the silt fence.
- 6) Remove 95% of fill (see **FILL REMOVAL DETAIL**). Excavated channel slopes shall be consistent with requirements stated in Clauses 9-2, 9-22 and 9-24.
- 7) Remove remainder of fill, logs from fill, and any culverts.
- 8) Remove settling pond.
- 9) Cover exposed soils within 100 feet of all live streams with weed free straw (minimum depth of 4 inches) and grass seed.

Materials List:

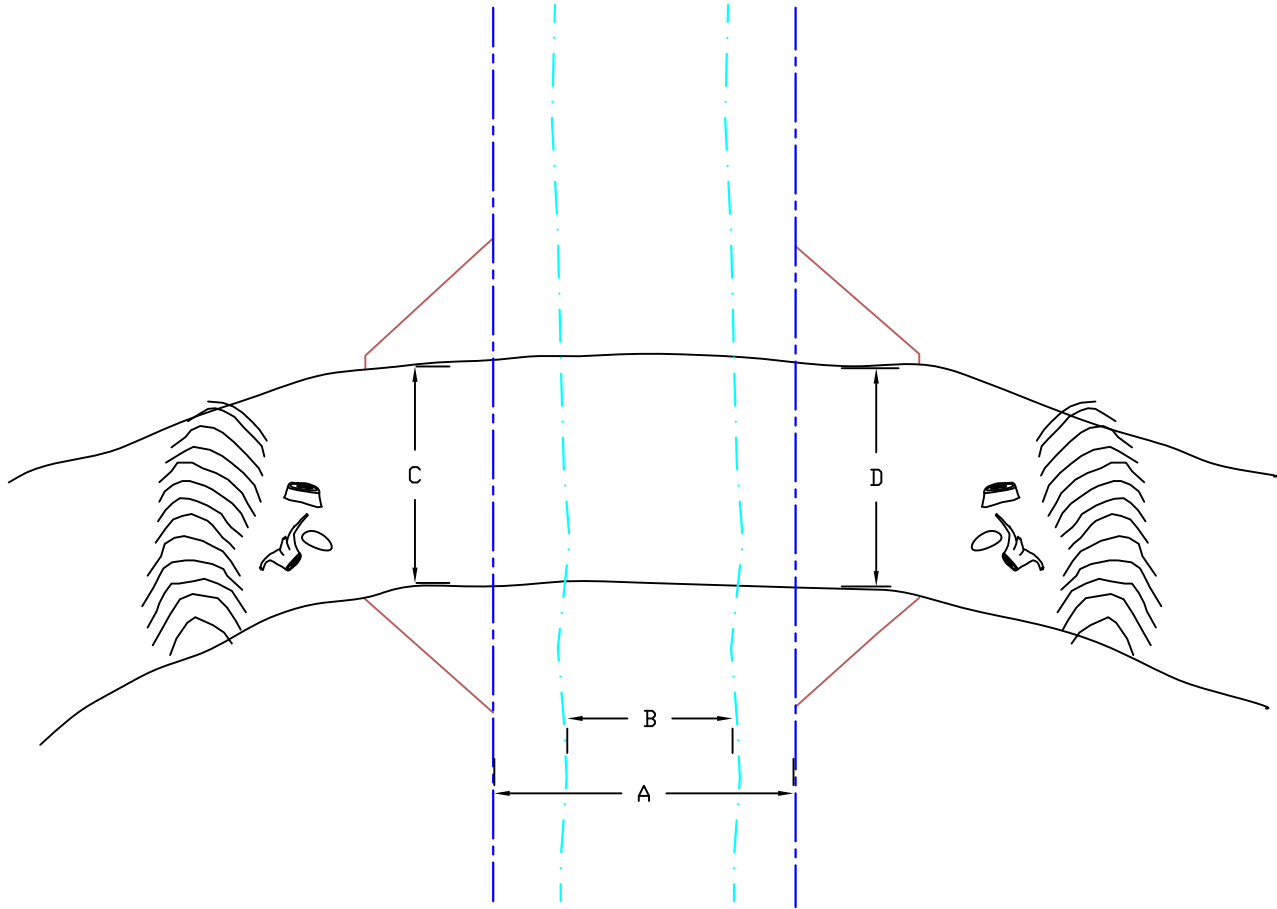
- 3 pumps, (one as a backup) The clean water pump (dam at culvert catch basin) shall have a minimum capacity of 1200 gallons per minute. The dirty water pump (settling pond) and the backup pump shall each have a minimum capacity of 600 gpm. Culvert removal should not start during rain or threat of rain;
- plastic sheet;
- silt fence and stakes;
- bales of weed free straw

FILL REMOVAL DETAIL



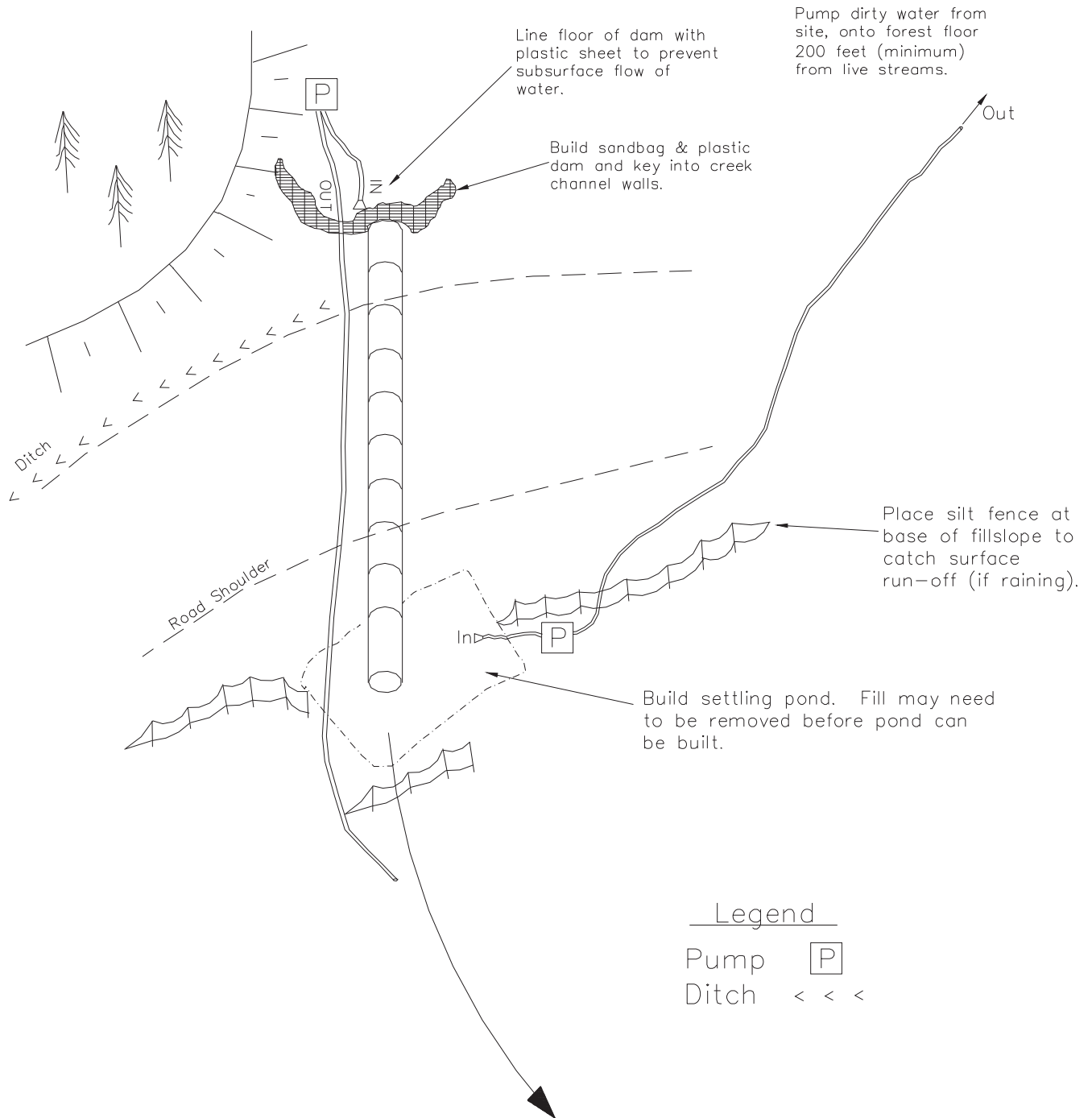
- Remove fill in layers not to exceed 3 feet.

TYPICAL ABANDONED/DEACTIVATED STREAM CROSSING PLAN VIEW



- A = Total Fill Removal Width
- B = Bank Full Width
- C = Road With
- D = Road With

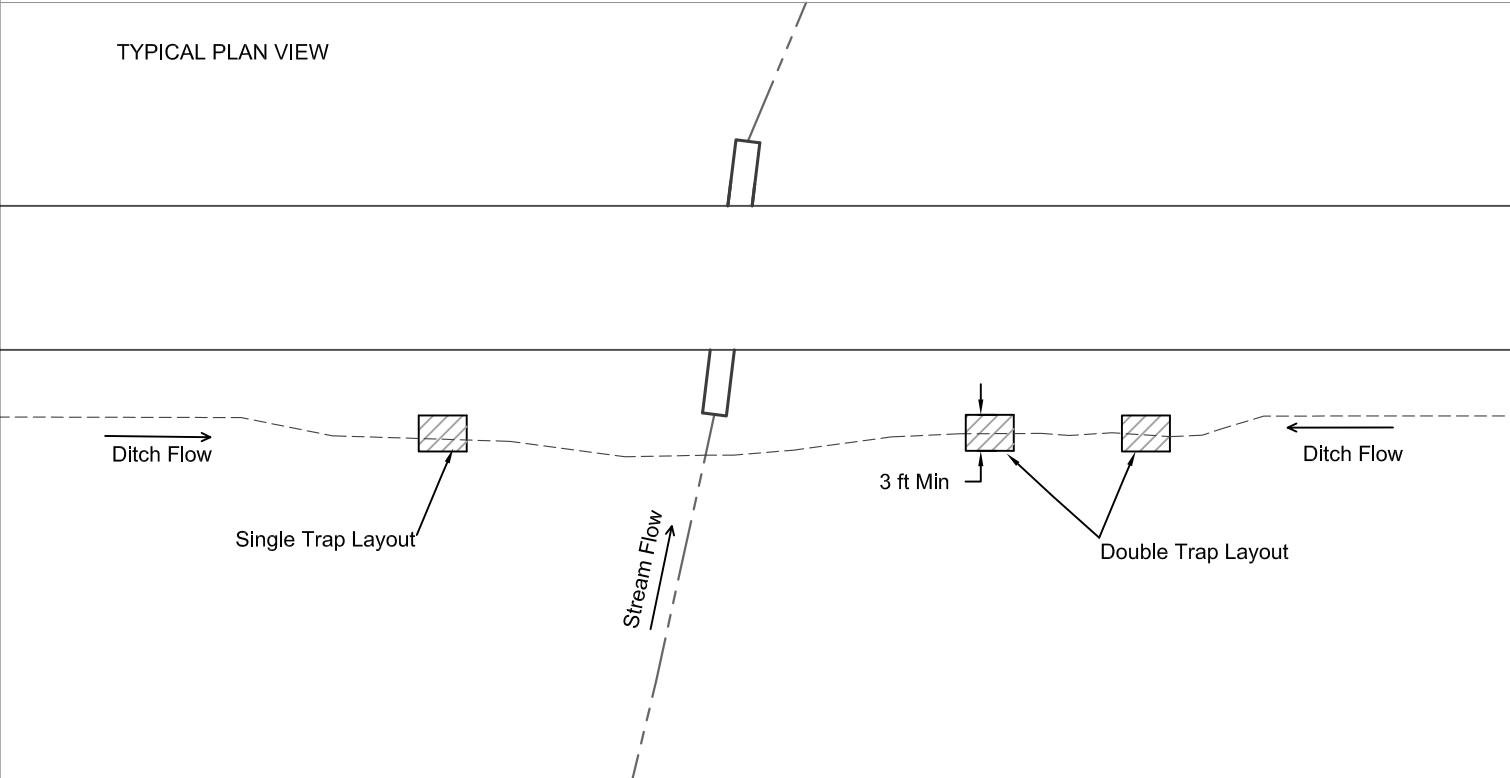
SETTLING POND AND PUMP DETAIL



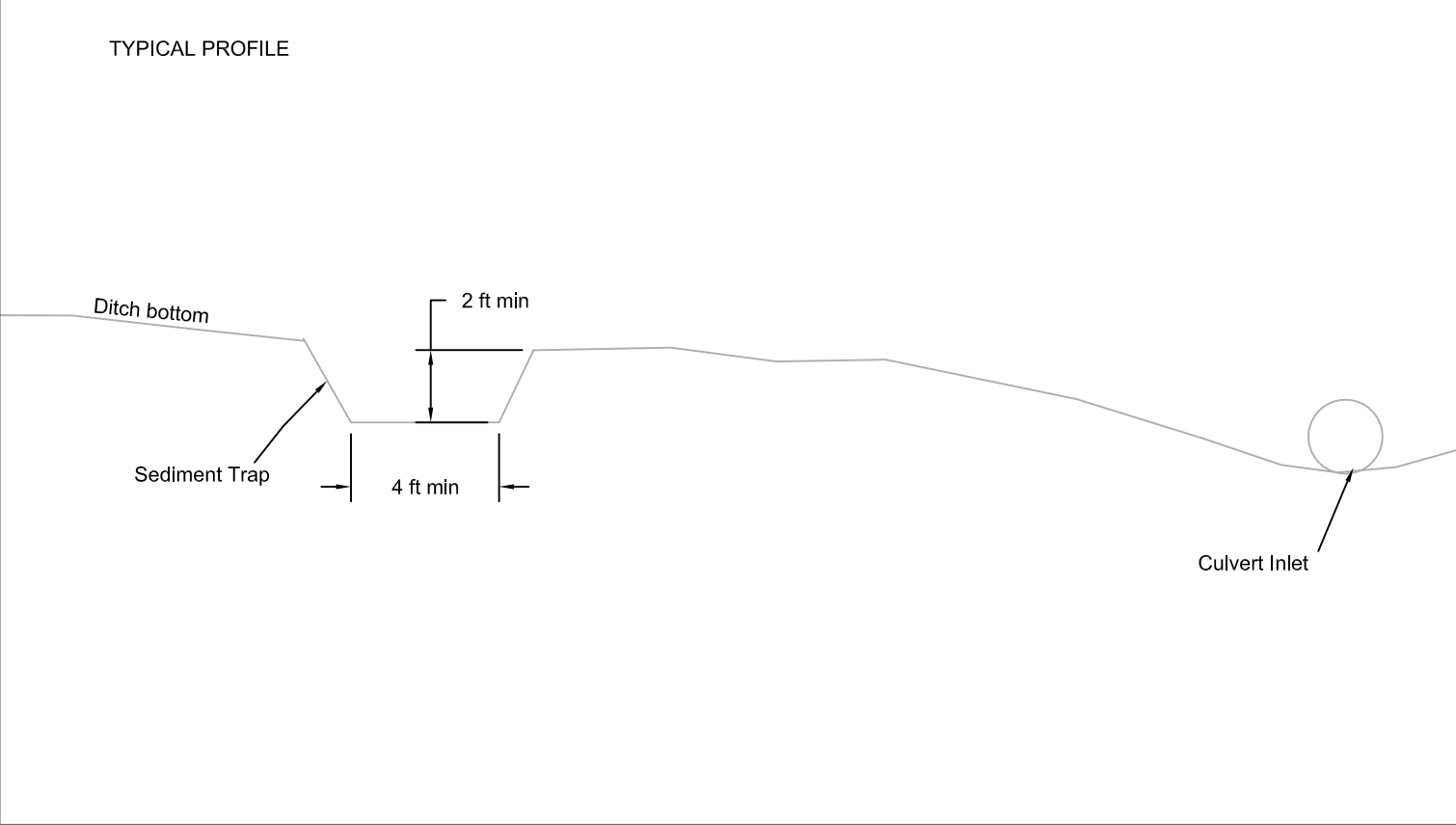
SEDIMENT TRAP DETAIL

No Scale

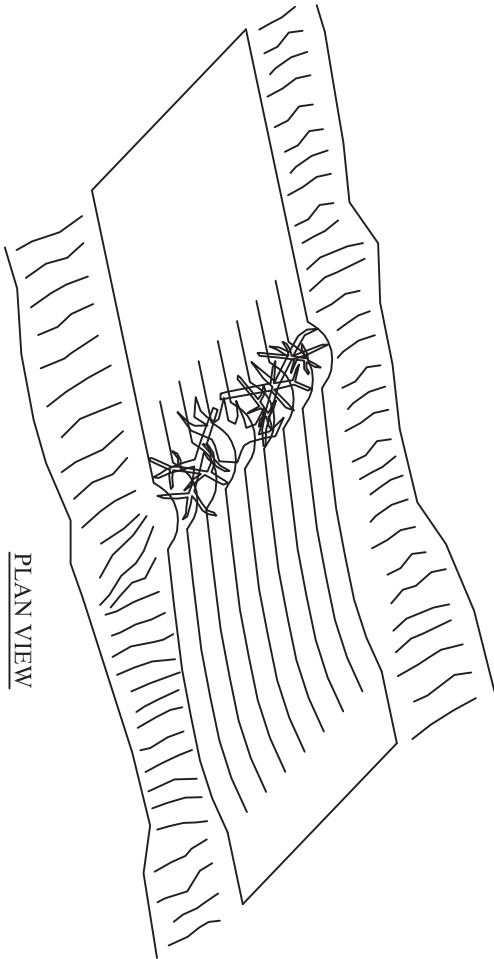
TYPICAL PLAN VIEW



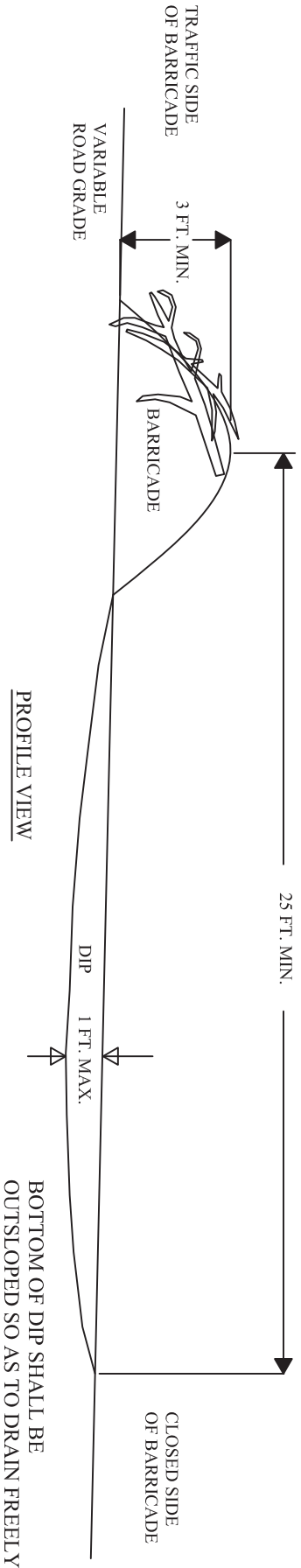
TYPICAL PROFILE



EARTHEN BARRICADE DETAIL

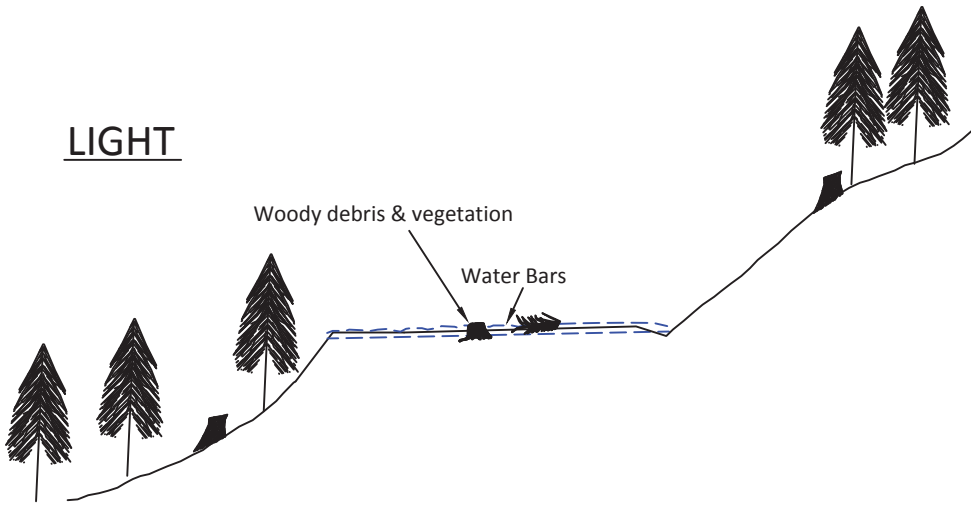


SLASH AND ROOT WADS SHALL BE INCORPORATED INTO THE TRAFFIC SIDE OF THE BARRICADE.

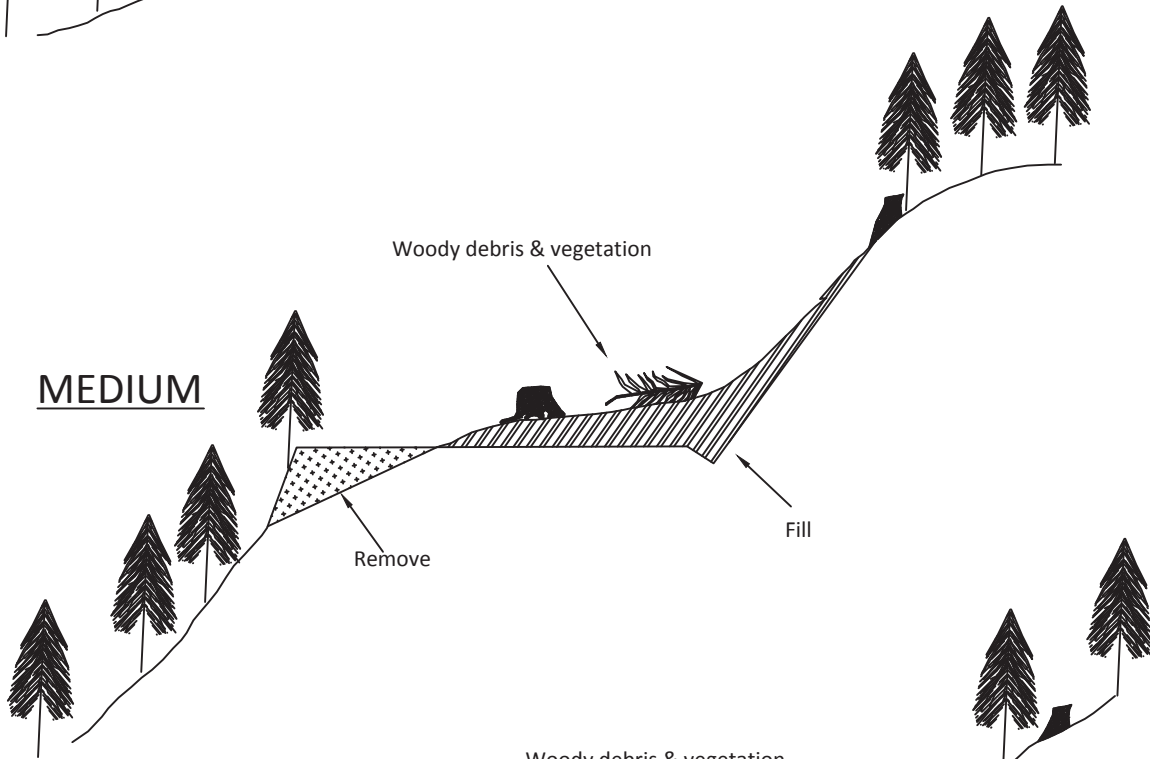


ROAD ABANDONMENT CROSS SECTIONS

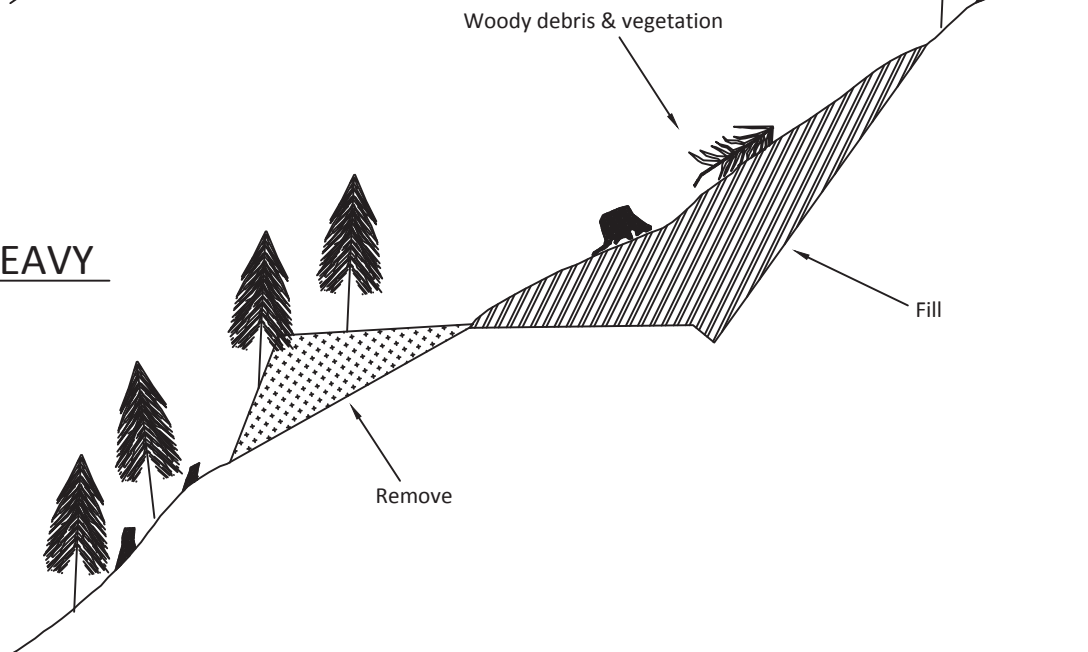
LIGHT



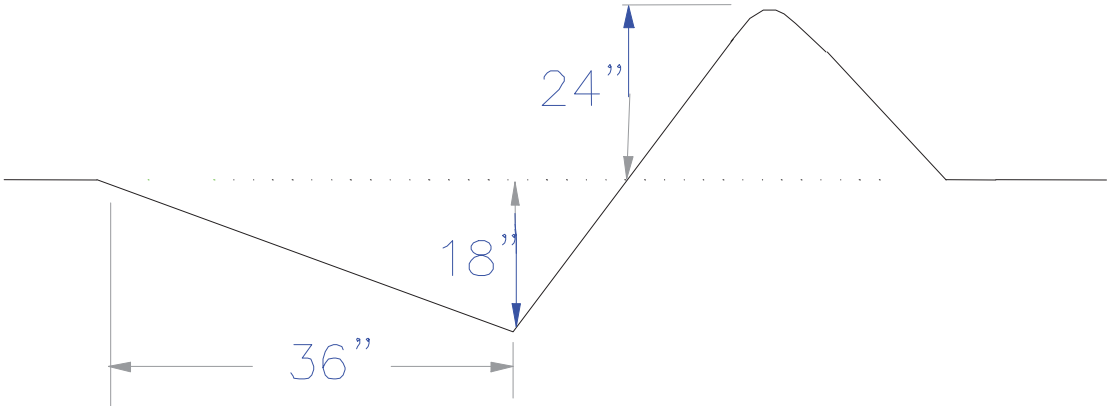
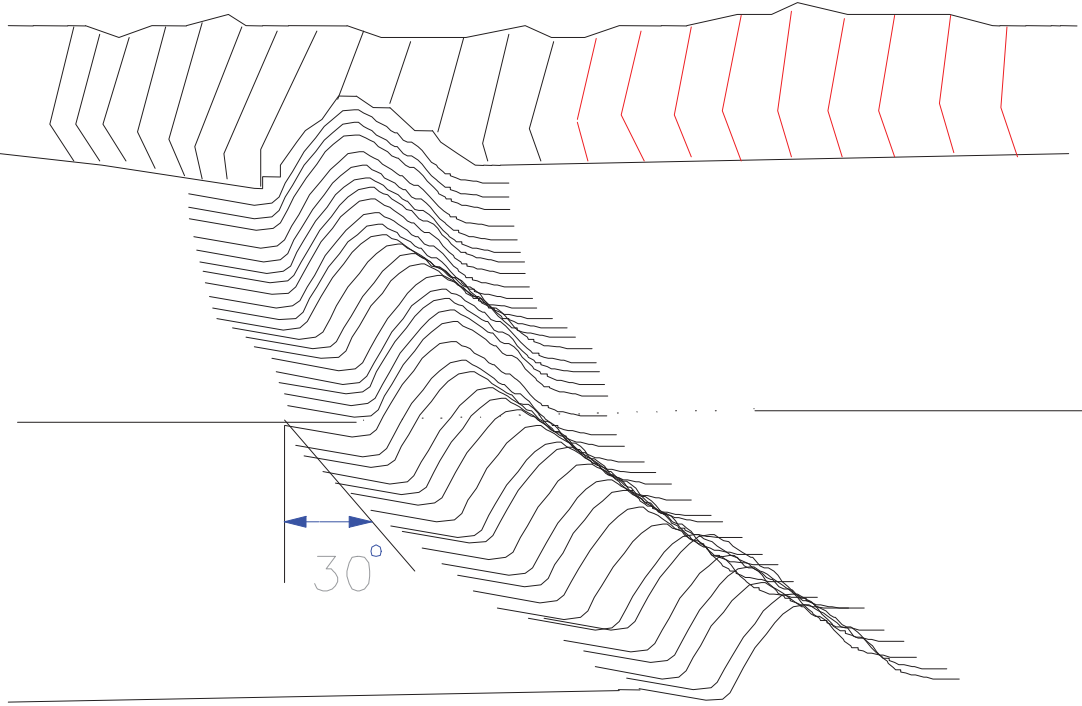
MEDIUM



HEAVY



NON-DRIVABLE WATER BAR DETAIL



Rock Crushing Compliance Procedure

Phase I. Equipment Adjustment

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

Phase II. Production

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

INFORMATIONAL BLASTING PLAN

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

1. Blaster-in-Charge: Name: _____

Company: _____

Address: _____

Telephone: _____

2. Quarry Name/Location: _____

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

4. Hole Spacing: _____

5. Burden: _____

6. Hole Diameter: _____

7. Hole Depth: _____

8. Sub Drill: _____

9. Number of Holes: _____

10. Stemming Depth: _____

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

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

13. Total Weight of Primers for Shot: _____

14. Calculated Powder Factor/Cubic Yard: _____

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

M-126PAC (03/04)

INFORMATIONAL BLASTING PLAN

Page 2 of 3

16. Number of Holes Fired on Each Delay: _____

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

18. Type of Blasting Machine: _____

19. Date, Start Drilling: _____

20. Date and Time, Start Loading: _____

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

INFORMATIONAL BLASTING PLAN

Page 3 of 3

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

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

23. Submitted by: _____ Date: _____

24. Received by: _____ Date: _____

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

M-126PAC (03/04)

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

ROCK SOURCE DEVELOPMENT PLAN

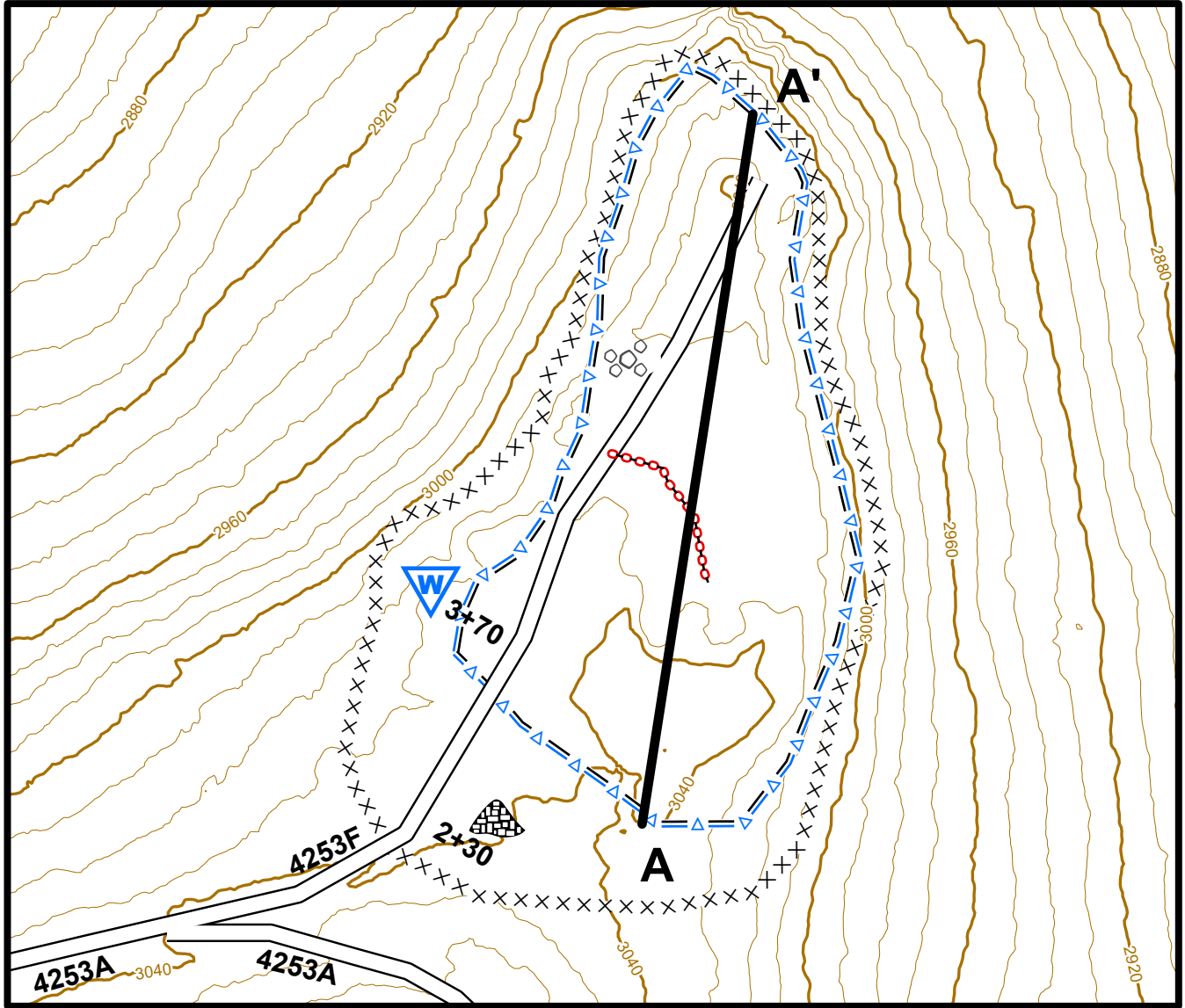
Signal Pit – SW¼ Section 03, Township 09 North, Range 02 East, W.M.
(Page 1 of 2)

1. Development shall take place in mining area as indicated on the Rock Source Development Plan Map for the Signal Pit.
2. All vegetation including stumps shall be cleared a minimum of 25 feet beyond the top of all working faces. Trees shall be cleared to a minimum of ¾ of the height of the tallest tree adjacent to the pit. The Contractor shall maintain a minimum of 15 foot wide area stripped to rock from the pit face at all times. All Clearing shall be approved in writing by the Contract Administrator prior to overburden removal.
3. Overburden from the Signal Pit shall be end hauled to the waste area at Station 3+70 on the 4253F road. All waste material shall be compacted. Minimal acceptable compaction is achieved by placing waste material in 1 foot or shallower lifts and routing excavation equipment over entire width of the lifts. All Overburden removal shall be approved in writing by the Contract Administrator prior to any drilling operation and or rock extraction.
4. Root wads and organic debris larger than one cubic foot in volume shall be separated from overburden material and piled in the designated Waste Area.
5. The Operator shall submit an informational drilling and shooting plan to the Contract Administrator 5 working days prior to any drilling. (Form #M-126PAC)
6. Drilling may begin when the Contract Administrator has approved, in writing, all of the Clearing, Grubbing and Overburden removal. Purchaser shall block access roads and trails before blasting operations.
7. Pit faces shall not exceed 30 feet in height. All pit faces shall be sloped no steeper than ¼:1.
8. Working bench width shall be a minimum of 20 feet.
9. The pit floor shall have continuity of slope and be left in a smooth and neat condition, providing drainage at a minimum of 2 percent. All knobs, bumps, or extrusions shall be removed to the designated floor level by excavation or drill and shoot techniques. The installation of a culvert may be necessary to drain water from the pit floor in locations where the pit floor is adjacent to a road. The location of the culvert shall be subject to approval of the Contract Administrator. No sediment shall enter live water.
10. The location and amount of material to be placed in a temporary stockpile are subject to approval of the Contract Administrator. All stock piled material shall be maintained in a neat and useable condition.
11. Oversize material remaining in the rock source at the conclusion of use shall not exceed 5 percent of the total volume mined during that operation. Oversize material is defined as rock fragments larger than two feet in any direction and not larger than two cubic yards in volume. At the conclusion of operations, all remaining oversize material shall be placed at the location shown on the Pit Development Plan Map and as directed by the Contract Administrator in a location outside of the future development.
12. At the end of operations, pit faces and walls shall be scaled and cleared of loose and overhanging material and shall not be undermined or over steepened; benches shall have safety berms constructed or access blocked to highway vehicles. Access roads/trails shall have Non-driveable waterbars constructed in accordance with the NON-DRIVEABLE WATER BAR DETAIL as directed by the Contract Administrator. Upon completion of operations in the pit, the area will be left in a condition that will not endanger public safety, damage property, or be hazardous to human life.
13. All exposed soil in the waste area, access roads, and exposed banks shall be grass seeded in accordance with Road Plan Clauses 8-15 and 8-25.
14. All operations shall be carried out in compliance with all regulations of:
 - a. Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration.
 - b. "Safety Standards for Construction Work" (296-155 WAC), Washington Department of Labor and Industries.
15. The Operator shall submit an informational drilling and shooting report to the Contract Administrator after blasting has occurred. (Form #M-126PAC)
16. The pit area shall be worked and left in a condition that future operations may proceed in an orderly manner. Upon completion of operations, the site shall be cleared of all temporary structures/equipment and rubbish, access roads shall be blocked with riprap at locations as directed by the Contract Administrator, and shall be left in a neat and presentable condition. At the completion of rock source operations, Contractor shall ask Contract Administrator for written approval of final rock source condition and compliance with the terms of this plan.

SIGNAL PIT

SW1/4 Sec. 3, T09N, R02E, W.M.

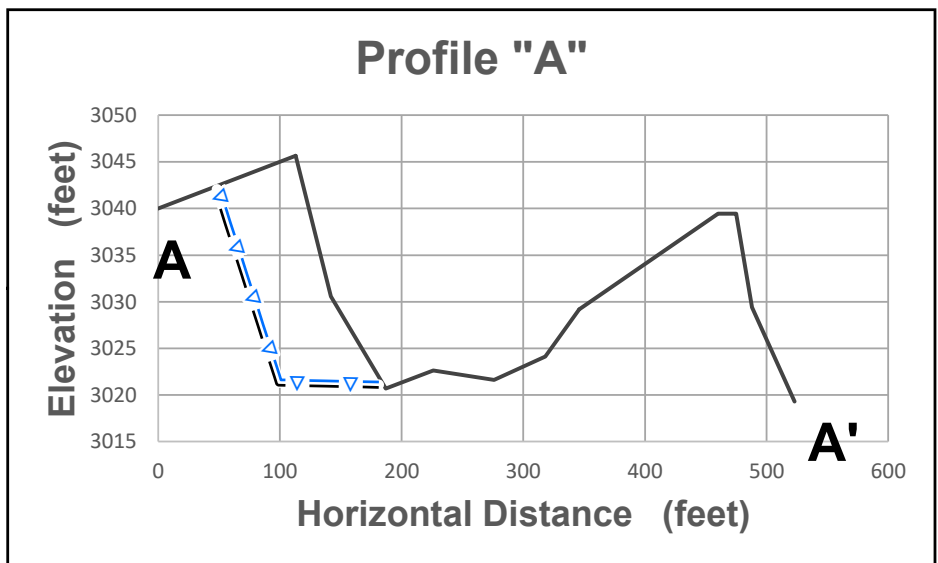
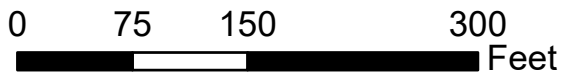
(Page 2 of 2)



Legend

Signal Rock Pit

- - - - - Access Road
- Existing Roads
- =△= Mining Area
- x x x Rock Pit Boundary
- Contours 40 ft
- Contours 10 ft
- Profile Line
- Oversize Rock Storage Area
- ▽ Waste Area
- ▨ Stockpile Area



SUMMARY - Road Development Costs

REGION: Pacific Cascade

DISTRICT: Saint Helens

SALE/PROJECT NAME: Ghost Town Sorts

AGREEMENT #: 30-104392

ROAD NUMBERS:	2422C-1, & 2410C-1 EXT	2418A1-A, 2418B-1, & 2410C-1	2400, 2411, 2418, 2418A-1, 2418A-2, 2418A-3, & 2418B
ROAD STANDARD:	Construction	Reconstruction	Maintenance
NUMBER OF STATIONS:	20.25	30.80	277.71
CLEARING & GRUBBING, EXCAVATION AND FILL, MISC., & ADDITIONAL REQUIREMENTS:	\$8,610.74	\$8,424.45	\$19,622.60
ROAD ROCK:			
	Optional:	\$24,563.62	\$0.00
	Required:	\$20,705.09	\$47,840.46
	Total:	\$45,268.71	\$47,840.46
STOCKPILE/PIT DEVELOPMENT:	\$0.00	\$0.00	\$14,650.00
CULVERTS AND FLUMES:	\$8,006.58	\$5,532.52	\$7,732.30
STRUCTURES:	\$0.00	\$0.00	\$0.00
DUST ABATEMENT	\$0.00	\$0.00	\$0.00
MOBILIZATION:	\$1,561.80	\$1,735.34	\$2,487.32
TOTAL COSTS:	\$63,447.83	\$63,532.77	\$106,569.76
COST PER STATION:	\$3,133	\$2,063	\$384
ROAD DEACTIVATION & ABANDONMENT COSTS:	\$0.00	\$5,254.61	\$0.00
	10% OVERHEAD AND GENERAL EXPENSE =		\$23,880.50
	TOTAL (All Roads) =		\$262,685.47
	TOTAL (Minus Optional Rock) =		\$238,121.85
	SALE VOLUME MBF =		5,518
	TOTAL \$/MBF =		\$47.61
	TOTAL \$/MBF (Minus Optional Rock) =		\$43.15

Profit and Risk costs are accounted on an individual basis.

Compiled by: David Stone

Date: January 24, 2024

SUMMARY OF ROAD

Sale: Ghost Town Sorts

Road: 2400

Required
Pre-Haul Maintenance- 19+46 stations
0.37 miles

Required Abandonment- stations
0.00 miles

Required Reconstruction stations
0.00 miles

Optional Reconstruction stations
0.00 miles

Required Construction - stations
0.00 miles

Optional Construction - stations
0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

Excavate ditchline and scatter material/ clean ditch -

19.46 stations @ \$13.30 per station \$258.82

MISC.

Grade and shape existing road surface -

19.46 stations @ \$27.10 per station \$527.37

Roll shaped road surface w/ vibratory roller prior to rocking -

19.46 stations @ \$14.40 per station \$280.22

Grass seed -

2.9 lbs @ \$9.00 per lb \$26.10

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$1,092.51**

RECONSTRUCTION

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

CONSTRUCTION

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

CULVERTS - MATERIALS & INSTALLATION

Culverts & Bands

0	LF of 18"	\$0.00		0	LF of 24"	\$0.00	
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00	w/bevel
0	LF of 42"	\$0.00	w/gasket-bevel	0	LF of 48"	\$0.00	
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00	
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00	
		\$0.00				\$0.00	

Half Rounds

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

Culvert Stakes & Markers

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

TOTAL CULVERTS **\$0.00**

ROCK

0+00 to 19+46 Spot Rock

60 cy. of 1 1/4" Minus @ \$24.66 per c.y. = \$1,479.60

TOTAL ROCK **\$1,479.60**

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required
Pre-Haul Maintenance- \$2,572.11

Required Reconstruction \$0.00

Required Abandonment- \$0.00

Optional Reconstruction \$0.00

Required Construction - \$0.00

Optional Construction - \$0.00

SUBTOTAL **\$2,572.11**

TOTAL \$2,572.11

COST PER STATION \$132.17

SUMMARY OF ROAD

Sale: Ghost Town Sorts

Road: 2411

Required Pre-Haul Maintenance- 24+88 stations <div style="text-align: right; border-top: 1px solid black; margin-right: 5px;">0.47</div> miles	Required Reconstruction - 0.00 stations <div style="text-align: right; border-top: 1px solid black; margin-right: 5px;">0.00</div> miles	Required Construction - 0.00 stations <div style="text-align: right; border-top: 1px solid black; margin-right: 5px;">0.00</div> miles
Required Abandonment- 0.00 stations <div style="text-align: right; border-top: 1px solid black; margin-right: 5px;">0.00</div> miles	Optional Reconstruction - 0.00 stations <div style="text-align: right; border-top: 1px solid black; margin-right: 5px;">0.00</div> miles	Optional Construction - 0.00 stations <div style="text-align: right; border-top: 1px solid black; margin-right: 5px;">0.00</div> miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

Excavate ditchline and scatter material/ clean ditch - 24.88 stations @ \$13.30 per station \$330.90

MISC.

Grade and shape existing road surface - 24.88 stations @ \$27.10 per station \$674.25
 Roll shaped road surface w/ vibratory roller prior to rocking - 24.88 stations @ \$14.40 per station \$358.27
 Grass seed - 3.6 lbs @ \$9.00 per lb \$32.40

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$1,395.82**

RECONSTRUCTION

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

CONSTRUCTION

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

CULVERTS - MATERIALS & INSTALLATION

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

ROCK

0+00 to 24+88 Spot Rock 100 cy. of 1 1/4" Minus @ \$30.58 per c.y. = \$3,058.00 **\$3,058.00**
TOTAL ROCK

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance- \$4,453.82	Required Reconstruction - \$0.00	
Required Abandonment- \$0.00	Optional Reconstruction - \$0.00	SUBTOTAL \$4,453.82
Required Construction - \$0.00	Optional Construction - \$0.00	TOTAL \$4,453.82
		COST PER STATION \$179.01

SUMMARY OF ROAD

Sale:	Ghost Town Sorts		Road:	2418	
Required Pre-Haul Maintenance-	137+44 2.60	stations miles	Required Reconstruction -	0.00	stations miles
Required Abandonment-	0.00	stations miles	Optional Reconstruction -	0.00	stations miles
			Required Construction -	0.00	stations miles
			Optional Construction -	0.00	stations miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

Excavate ditchline and scatter material/ clean ditch -	137.44	stations @	\$13.30	per station	\$1,827.95
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MISC.

Grade and shape existing road surface -	137.44	stations @	\$27.10	per station	\$3,724.62
Roll shaped road surface w/ vibratory roller prior to rocking -	137.44	stations @	\$14.40	per station	\$1,979.14
Construct landings -	2	@	\$185.50	each	\$371.00
Grass seed -	22.0	lbs @	\$9.00	per lb	\$198.00

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$8,100.71
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RECONSTRUCTION

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

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$0.00
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CULVERTS - MATERIALS & INSTALLATION

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

ROCK

0+00 to 137+44 Spot Rock	300	cy. of	1 1/4" Minus	@	\$28.63	per c.y.=	\$8,589.00
Landings	82	cy. of	3" Jaw Run	@	\$26.25	per c.y.=	\$2,152.50
							TOTAL ROCK
							\$10,741.50

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS	\$0.00
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ABANDONMENT

TOTAL ABANDONMENT	\$0.00
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Required Pre-Haul Maintenance-	\$18,842.21	Required Reconstruction -	\$0.00		
Required Abandonment-	\$0.00	Optional Reconstruction -	\$0.00	SUBTOTAL	\$18,842.21
Required Construction -	\$0.00	Optional Construction -	\$0.00	TOTAL	\$18,842.21
COST PER STATION					\$137.09

SUMMARY OF ROAD

Sale: Ghost Town Sorts

Road: 2418A-1

Required Pre-Haul Maintenance- 43+00 stations 0.81 miles	Required Reconstruction - 0.00 stations 0.00 miles	Required Construction - 0.00 stations 0.00 miles
Required Abandonment- 0.00 stations 0.00 miles	Optional Reconstruction - 0.00 stations 0.00 miles	Optional Construction - 0.00 stations 0.00 miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

Construct sediment trap at station 11+50 -	1	@	\$75.00	each	\$75.00
Excavate ditchline and scatter material/ clean ditch -	43.00	stations @	\$19.95	per station	\$857.85

MISC.

Grade and shape existing road surface -	43.00	stations @	\$27.10	per station	\$1,165.30
Roll shaped road surface w/ vibratory roller prior to rocking -	43.00	stations @	\$14.40	per station	\$619.20
Construct landing -	4	@	\$185.50	each	\$742.00
Grass seed -	13.0	lbs @	\$9.00	per lb	\$117.00

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$3,576.35**

RECONSTRUCTION

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

CONSTRUCTION

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

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>			
96	LF of 18"	\$2,388.54	0
0	LF of 30"	\$0.00	0
0	LF of 42"	\$0.00	0
0	LF of 54"	\$0.00	0
0	LF of 66"	\$0.00	0
		\$2,388.54	0
			LF of 24" \$0.00
			LF of 36" \$0.00
			LF of 48" \$0.00
			LF of 60" \$0.00
			LF of 72" \$0.00
<u>Half Rounds</u>			
0	LF of 24"	\$0.00	0
0	LF of 36"	\$0.00	0
		\$0.00	LF of 30" \$0.00
			LF of 42" \$0.00
<u>Culvert Stakes & Markers</u>			
0	stakes	\$0.00	
3	markers	\$33.00	
		\$33.00	
			TOTAL CULVERTS

\$2,421.54

ROCK

Spot Rock 0+00 to 43+00	250	cy. of	1 1/4" Minus	@	\$29.80	per c.y.=	\$7,450.00
Energy Dissipator/Headwall - culverts	5.5	cy. of	Riprap LL	@	\$31.17	per c.y.=	\$171.44
Landings	164	cy. of	3" Jaw Run	@	\$28.34	per c.y.=	\$4,647.76
							TOTAL ROCK

\$12,269.20

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance- \$18,267.09	Required Reconstruction - \$0.00	
Required Abandonment- \$0.00	Optional Reconstruction - \$0.00	SUBTOTAL \$18,267.09
Required Construction - \$0.00	Optional Construction - \$0.00	TOTAL \$18,267.09
		COST PER STATION
		\$424.82

SUMMARY OF ROAD

Sale: Ghost Town Sorts

Road: 2418A-2

Required Pre-Haul Maintenance- 24+45 stations <div style="text-align: right; margin-right: 10px;">0.46 miles</div>	Required Reconstruction - 0.00 stations <div style="text-align: right; margin-right: 10px;">0.00 miles</div>	Required Construction - 0.00 stations <div style="text-align: right; margin-right: 10px;">0.00 miles</div>
Required Decommissioning- 0.00 stations <div style="text-align: right; margin-right: 10px;">0.00 miles</div>	Optional Reconstruction - 0.00 stations <div style="text-align: right; margin-right: 10px;">0.00 miles</div>	Optional Construction - 0+00 stations <div style="text-align: right; margin-right: 10px;">0.00 miles</div>

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

Excavate ditchline and scatter material/ clean ditch - 24.45 stations @ \$19.95 per station \$487.78

MISC.

Grade and shape existing road surface - 24.45 stations @ \$27.10 per station \$662.60
 Roll shaped road surface w/ vibratory roller prior to rocking - 24.45 stations @ \$14.40 per station \$352.08
 Construct landing - 4 @ \$185.50 each \$742.00
 Grass seed - 8.9 lbs @ \$9.00 per lb \$80.10

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$2,324.56**

RECONSTRUCTION

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

CONSTRUCTION

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

CULVERTS - MATERIALS & INSTALLATION

Culverts

90	LF of 18"	\$2,243.04		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00		0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$2,243.04				\$0.00

Half Rounds

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

Culvert Stakes & Markers

0	stakes	\$0.00
3	markers	\$33.00
		\$33.00

TOTAL CULVERTS **\$2,276.04**

ROCK

0+00 to 24+45 Spot Rock 230 cy. of 1 1/4" Minus @ \$30.12 per c.y.= \$6,927.60
 Energy Dissipator/Headwall - culverts 3.5 cy. of Riprap LL @ \$32.02 per c.y.= \$112.07
 Landings 164 cy. of 3" Jaw Run @ \$28.75 per c.y.= \$4,715.00

TOTAL ROCK **\$11,754.67**

ADDITIONAL REQUIREMENTS

Construct Earthen Barricade - 24+45 1 @ \$188.00 each \$188.00

TOTAL ADDITIONAL REQUIREMENTS **\$188.00**

DECOMMISSIONING

TOTAL ABANDONMENT **\$0.00**

Required Pre-Haul Maintenance- \$16,543.27	Required Reconstruction - \$0.00	
Required Decommissioning- \$0.00	Optional Reconstruction - \$0.00	SUBTOTAL \$16,543.27
Required Construction - \$0.00	Optional Construction - \$0.00	TOTAL \$16,543.27
		COST PER STATION \$676.62

SUMMARY OF ROAD

Sale:	Ghost Town Sorts		Road:	2418A-3	
Required Pre-Haul Maintenance-	11+62 0.22	stations miles	Required Reconstruction -	0.00	stations miles
Required Decommissioning-	0.00	stations miles	Optional Reconstruction -	0.00	stations miles
			Required Construction -	0.00	stations miles
			Optional Construction -	0.00	stations miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

Excavate ditchline and scatter material/ clean ditch -	11.62	stations @	\$33.25	per station	\$386.37
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MISC.

Grade and shape existing road surface -	11.62	stations @	\$27.10	per station	\$314.90
Roll shaped road surface w/ vibratory roller prior to rocking -	11.62	stations @	\$14.40	per station	\$167.33
Construct landing -	3	@	\$185.50	each	\$556.50
Grass seed -	7.1	lbs @	\$9.00	per lb	\$63.90

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$1,489.00
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RECONSTRUCTION

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

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC.	\$0.00
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CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>					
120	LF of 18"	\$2,990.72		0	LF of 24" \$0.00
0	LF of 30"	\$0.00		0	LF of 36" \$0.00
0	LF of 42"	\$0.00		0	LF of 48" \$0.00
0	LF of 54"	\$0.00		0	LF of 60" \$0.00
0	LF of 66"	\$0.00		0	LF of 72" \$0.00
		\$2,990.72			\$0.00
<u>Half Rounds</u>					
0	LF of 24"	\$0.00		0	LF of 30" \$0.00
0	LF of 36"	\$0.00		0	LF of 42" \$0.00
		\$0.00			\$0.00
<u>Culvert Stakes & Markers</u>					
0	stakes	\$0.00			
4	markers	\$44.00			
		\$44.00			
TOTAL CULVERTS					\$3,034.72

ROCK

Energy Dissipator/Headwall - culverts	4.0	cy. of	Riprap LL	@	\$29.99	per c.y.=	\$119.96
0+00 to 11+62	515	cy. of	3" Jaw Run	@	\$31.31	per c.y.=	\$16,124.65
TOTAL ROCK							\$16,244.61

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS	\$0.00
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DECOMMISSIONING

TOTAL DECOMMISSIONING	\$0.00
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Required Pre-Haul Maintenance-	\$20,768.33	Required Reconstruction -	\$0.00		
Required Decommissioning-	\$0.00	Optional Reconstruction -	\$0.00	SUBTOTAL	\$20,768.33
Required Construction -	\$0.00	Optional Construction -	\$0.00	TOTAL	\$20,768.33
					COST PER STATION
					\$1,787.29

SUMMARY OF ROAD

Sale: Ghost Town Sorts

Road: 2418B

Required Pre-Haul Maintenance-	16+86 0.32	stations miles	Required Reconstruction -	0.00	stations miles	Required Construction -	0.00	stations miles
Required Decommissioning-	0.00	stations miles	Optional Reconstruction -	0.00	stations miles	Optional Construction -	0.00	stations miles

PRE-HAUL MAINTENANCE

CLEARING

EXCAVATION

Excavate ditchline and scatter material/ clean ditch - 16.86 stations @ \$19.95 per station \$336.36

MISC.

Grade and shape existing road surface - 16.86 stations @ \$27.10 per station \$456.91
 Roll shaped road surface w/ vibratory roller prior to rocking - 16.86 stations @ \$14.40 per station \$242.78
 Construct landing - 2 @ \$185.50 each \$371.00
 Grass seed - 5.4 lbs @ \$9.00 per lbs \$48.60

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$1,455.65**

RECONSTRUCTION

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

CONSTRUCTION

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

CULVERTS - MATERIALS & INSTALLATION

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

ROCK

0+00 to 16+86 Spot Rock Landing 150 cy. of 1 1/4" Minus @ \$28.62 per c.y.= \$4,293.00
 82 cy. of 3" Jaw Run @ \$27.28 per c.y.= \$2,236.96
TOTAL ROCK \$6,529.96

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

DECOMMISSIONING

TOTAL DECOMMISSIONING **\$0.00**

Required Pre-Haul Maintenance-	\$7,985.61	Required Reconstruction -	\$0.00		
Required Decommissioning-	\$0.00	Optional Reconstruction -	\$0.00		
Required Construction -	\$0.00	Optional Construction -	\$0.00		
				SUBTOTAL	\$7,985.61
				TOTAL	\$7,985.61
				COST PER STATION	\$473.64

SUMMARY OF ROAD

Sale:	Ghost Town Sorts		Road: 2418B-1
Required Haul Maintenance -	Pre- stations 0.00 miles	Required Reconstruction - stations 0.00 miles	Required Construction - stations 0.00 miles
Required Abandonment-	 stations 5+65 0.11 miles	Optional Reconstruction - stations 9+55 0.18 miles	Optional Construction - stations 0.00 miles

PRE-HAUL MAINTENANCE

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

RECONSTRUCTION

CLEARING/GRUBBING

Scatter Organic Debris	0.20	acres @	\$1,010.00	per acre	\$202.00
Remove large stumps -	3	@	\$117.00	each	\$351.00

EXCAVATION

Reconstruct and Widen Road Prism/with ditchline - includes embankment	9.55	stations @	\$119.43	per station	\$1,140.56
Grade and shape subgrade -	9.55	stations @	\$22.55	per station	\$215.35

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	9.55	stations @	\$18.00	per station	\$171.90
Construct turnouts -	1	@	\$91.00	each	\$91.00
Construct landing -	2	@	\$185.50	each	\$371.00
Grass seed -	15.0	lbs @	\$9.00	per lbs	\$135.00

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$2,677.81**

CONSTRUCTION

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

CULVERTS - MATERIALS & INSTALLATION

Culverts

60	LF of 18"	\$1,495.36		0	LF of 24"	\$0.00
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00	w/gasket-bevel	0	LF of 60"	\$0.00
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$1,495.36				\$0.00

Half Rounds

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

Culvert Stakes & Markers

0	stakes	\$0.00	
2	markers	\$22.00	
		\$22.00	

TOTAL CULVERTS **\$1,517.36**

ROCK

Energy Dissipator/Headwall - culverts	2.0	cy. of	Riprap LL	@	\$30.54	per c.y.=	\$61.08
0+00 to 9+55	583	cy. of	3" Jaw Run	@	\$28.43	per c.y.=	\$16,574.69
							TOTAL ROCK

\$16,635.77

ADDITIONAL REQUIREMENTS

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

ABANDONMENT 9+55 to 15+20

Construct waterbar -	4	@	\$98.00	each	\$392.00
Construct Earthen Barricade - 9+55	1	@	\$188.00	each	\$188.00
Outslope roadway - excavate fill-slope, place material on cut-bank & contour -	5.65	stations @	\$83.33	per station	\$470.81
Grass seed - roadway and waste area	23.2	lbs @	\$9.00	per lbs	\$208.80
Mulching -	0.40	acres @	\$860.00	per acre	\$344.00
Construct waste area at 13+35 -	0.5	hours @	\$402.00	per hour	\$201.00
Excavation/end haul - Heavy abandonment/buried logs removals - 12+60 & 14+50	8.0	hours @	\$280.00	per hour	\$2,240.00
Live stream diversion at culvert removal sites -	4.0	hours @	\$30.00	per hour	\$120.00
Remove culverts - 12+60 & 14+50	4.0	hours @	\$178.00	per hour	\$712.00
Remove culvert from state lands -	2	@	\$100.00	each	\$200.00
Scatter woody debris -	1.0	hours @	\$178.00	per hour	\$178.00

TOTAL ABANDONMENT **\$5,254.61**

Required Pre-Haul Maintenance-	\$0.00	Required Reconstruction -	\$0.00	
Required Abandonment-	\$5,254.61	Optional Reconstruction -	\$20,830.94	SUBTOTAL
Required Construction -	\$0.00	Optional Construction -	\$0.00	\$26,085.55

TOTAL \$26,085.55

COST PER STATION \$2,731.47

SUMMARY OF ROAD

Sale: Ghost Town Sorts

Road: 2410C-1 EXT

Required Pre-Haul Maintenance- 0.00 stations miles	Required Reconstruction - 0.00 stations miles	Required Construction - 0.00 stations miles
Required Abandonment- 0.00 stations miles	Optional Reconstruction - 0.00 stations miles	Optional Construction - 9+73 stations 0.18 miles

PRE-HAUL MAINTENANCE

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

RECONSTRUCTION

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

CONSTRUCTION

CLEARING/GRUBBING

Scattering Organic Debris	1.12	acres @	\$1,010.00	per acre	\$1,131.20
Remove large stumps -	5	@	\$117.00	each	\$585.00

EXCAVATION - includes drift endhaul

Road Construction Earthwork - includes embankment work	9.73	sta. @	\$134.00	per sta. =	\$1,303.82
Grade and shape subgrade -	9.73	stations @	\$22.55	per station	\$219.41

FILL

MISC.

Roll subgrade w/ vibratory roller prior to rocking -	9.73	stations @	\$18.00	per station	\$175.14
Construct turnouts -	1	@	\$91.00	each	\$91.00
Construct landings -	2	@	\$185.50	each	\$371.00
Grass seed -	19.80	lbs @	\$9.00	per lbs	\$178.20

ENDHAUL

TOTAL CLEARING, GRUBBING, EXCAVATION, FILL, and MISC. **\$4,054.77**

CULVERTS - MATERIALS & INSTALLATION

Culverts

150	LF of 18"	\$3,738.40		120	LF of 24"	\$3,421.50
0	LF of 30"	\$0.00		0	LF of 36"	\$0.00 w/bevel
0	LF of 42"	\$0.00		0	LF of 48"	\$0.00
0	LF of 54"	\$0.00	w/gasket-bevel	0	LF of 60"	\$0.00 w/gasket-bevel
0	LF of 66"	\$0.00		0	LF of 72"	\$0.00
		\$3,738.40				\$3,421.50

Half Rounds

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

Culvert Stakes & Markers

0	stakes	\$0.00
8	markers	\$88.00
		\$88.00

TOTAL CULVERTS **\$7,247.90**

ROCK

Energy Dissipator/Headwall - culverts	24.5	cy. of	Riprap LL	@	\$37.16	per c.y. =	\$910.42
0+00 to 9+73	581	cy. of	3" Jaw Run	@	\$34.07	per c.y. =	\$19,794.67
							TOTAL ROCK \$20,705.09

ADDITIONAL REQUIREMENTS

Straw Mulching near streams -	0.22	acres @	\$860.00	per acre	\$189.20
					TOTAL ADDITIONAL REQUIREMENTS \$189.20

ABANDONMENT

TOTAL ADDITIONAL REQUIREMENTS **\$0.00**

Required Pre-Haul Maintenance- \$0.00	Required Reconstruction - \$0.00	
Required Abandonment- \$0.00	Optional Reconstruction - \$0.00	SUBTOTAL \$32,196.96
Required Construction - \$0.00	Optional Construction - \$32,196.96	TOTAL \$32,196.96
		COST PER STATION \$3,309.04

ROCK DEVELOPMENT COST SUMMARY

Pit:	Signal Pit	Location:	SW¼ Sec. 03, T09N, R02E, W.M.
Sale:	<u>Ghost Town Sorts</u>	Road:	<u>5209. CY</u>
Swell:	<u>1.30</u>	Stockpile:	<u>1000 c.y.</u>
Shrinkage	<u>0.00</u>	Total Truck Loads:	<u>6209. CY</u>
Drill Pct.:	<u>100%</u>	In Place Total:	<u>4776 c.y.</u>

Access Road Construction	1.0 Stations	\$223.33 /Station	\$223.33
Pit Development & Cleanup including Clearing and Grubbing of Waste Area, Endhaul and place overburden, grass seeding.			
in Waste Area, spread and compact.	\$5.11 /cu.yd x	1047.0 cu.yds.	\$5,350.17
Drill & Shoot:	\$3.65 /cu.yd x	4776.0 cu.yds.	\$17,432.40
Rip Rock:	\$2.50 /cu.yd x	0 cu.yds.	\$0.00
Push Rock:	\$1.35 /cu.yd x	6209.0 cu.yds.	\$8,382.15
Load Crusher:	\$0.75 /cu.yd x	6155.0 cu.yds.	\$4,616.25
Crush 3" Jaw Run Rock:	\$4.05 /cu.yd x	4065 cu.yds.	\$16,463.25
Crush 1½" Minus Rock:	\$6.00 /cu.yd x	2090 cu.yds.	\$12,540.00
Load Crushed Rock inTruck:	\$0.75 /cu.yd x	6155.0 cu.yds.	\$4,616.25
Load Rip Rap Rock in Truck:	\$2.50 /cu.yd x	54.0 cu.yds.	\$135.00
	\$0.00 /ton x	0 tons =	\$0.00
	\$0.00 /ton x	0 tons =	\$0.00
	\$0.00 /ton x	0 tons =	\$0.00
	\$0.00 /cu.yd x	0 cu.yds.	\$0.00
		Subtotal	\$69,758.80

Move In/Set-up Mobile Jaw	1	@	\$950.95	=	\$950.95	
Move In/Set-up Mobile 2 Stage Crusher	1	@	\$1,243.55	=	\$1,243.55	
Move In/Set-up 3 Stage Crusher	0	@	\$0.00	=	\$0.00	
Move In and set up Drill and Compressor	1	@	\$560.12	=	\$560.12	
Move in Roller and Compactor	0	@	\$475.83	=	\$0.00	
Move in Grader	0	@	\$350.26	=	\$0.00	
Move in D-8	1	@	\$574.25	=	\$574.25	
Move in Loader	1	@	\$541.66	=	\$541.66	
Move in Excavator	2	@	\$502.41	=	\$1,004.82	
Move in Trucks	5	@	\$179.29	=	\$896.45	
Move in Water Truck	0	@	\$0.00	=	\$0.00	
					Subtotal	\$5,771.80

TOTAL PRODUCTION COSTS \$75,530.60

Base Cost = \$12.16 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	Speed (Mi/hr.)	One-Way Dist (ft)	ROCK COST
2400 0+00 to 19+46 Spot Rock 1 1/4" Minus	\$10.80	\$1.70	\$12.16	\$24.66	60	17	23401	\$1,479.60
2411 0+00 to 24+88 Spot Rock 1 1/4" Minus	\$16.72	\$1.70	\$12.16	\$30.58	100	17	39497	\$3,058.00
2418 0+00 to 137+44 Spot Rock 1 1/4" Minus	\$14.77	\$1.70	\$12.16	\$28.63	300	17	34195	\$8,589.00
2418 Landings 3" Jaw Run	\$13.19	\$0.90	\$12.16	\$26.25	82	17	31389	\$2,152.50
2418A-1 Spot Rock 0+00 to 43+00 1 1/4" Minus	\$15.94	\$1.70	\$12.16	\$29.80	250	17	37372	\$7,450.00
2418A-1 LL Energy Dissipator/Headwall - culverts	\$17.21	\$1.80	\$12.16	\$31.17	5.5	15	35372	\$171.44
2418A-1 Landings 3" Jaw Run	\$15.28	\$0.90	\$12.16	\$28.34	164	17	37072	\$4,647.76
2418A-2 0+00 to 24+45 Spot Rock 1 1/4" Minus	\$16.26	\$1.70	\$12.16	\$30.12	230	17	38246	\$6,927.60
2418A-2 LL Energy Dissipator/Headwall - culverts	\$18.06	\$1.80	\$12.16	\$32.02	3.5	15	37412	\$112.07
2418A-2 Landings 3" Jaw Run	\$15.69	\$0.90	\$12.16	\$28.75	164	17	38200	\$4,715.00
2418A-3 LL Energy Dissipator/Headwall - culverts	\$16.03	\$1.80	\$12.16	\$29.99	4.0	17	36882	\$119.96
2418A-3 0+00 to 11+62 3" Jaw Run	\$17.70	\$1.45	\$12.16	\$31.31	515	15	37204	\$16,124.65
2418B 0+00 to 16+86 Spot Rock 1 1/4" Minus	\$14.76	\$1.70	\$12.16	\$28.62	150	17	34154	\$4,293.00
2418B Landing 3" Jaw Run	\$14.22	\$0.90	\$12.16	\$27.28	82	17	34189	\$2,236.96
2418A1-A LL Energy Dissipator/Headwall - culverts	\$18.07	\$1.80	\$12.16	\$32.03	13.5	15	37427	\$432.41
2418A1-A 0+00 to 10+70 3" Jaw Run	\$16.11	\$1.45	\$12.16	\$29.72	634	17	37830	\$18,842.48
2418B-1 LL Energy Dissipator/Headwall - culverts	\$16.58	\$1.80	\$12.16	\$30.54	2.0	15	33849	\$61.08
2418B-1 0+00 to 9+55 3" Jaw Run	\$14.82	\$1.45	\$12.16	\$28.43	583	17	34315	\$16,574.69
2422C-1 LL Energy Dissipator/Headwall - culverts	\$15.18	\$1.80	\$12.16	\$29.14	1.0	15	30500	\$29.14
2422C-1 0+00 to 10+52 3" Jaw Run	\$13.47	\$1.45	\$12.16	\$27.08	906	17	30648	\$24,534.48
2410C-1 0+00 to 10+55 3" Jaw Run	\$20.09	\$1.45	\$12.16	\$33.70	354	17	48664	\$11,929.80
2410C-1 EXT LL Energy Dissipator/Headwall - culvert	\$23.20	\$1.80	\$12.16	\$37.16	24.5	15	49728	\$910.42
2410C-1 EXT 0+00 to 9+73 3" Jaw Run	\$20.46	\$1.45	\$12.16	\$34.07	581	17	49658	\$19,794.67
Stock Pile - 4253F @ 2+30 - 1 1/4" Minus	\$2.09	\$0.40	\$12.16	\$14.65	1000	5	350	\$14,650.00
				Total C.Y.	6209.0		Sub Total	\$169,836.71

TOTAL ROCKING COSTS \$169,836.71

Road Building Move-In Calculations

Sale: Ghost Town Sorts

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
26.0	Highway	45
1.3	County/ Mainline	17
0.3	Steep Grades	10

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	within Area			Within		Total Cost
				Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Area Cost	
0	Brush Cutter	\$264.09		\$17.80	0.00	0.00	0	\$0.00	\$0.00
1	Graders	\$413.30		\$19.83	0.00	0.00	7	\$138.81	\$552.11
0	Loader (Small)	\$264.09		\$15.00	0.00	0.00	0	\$0.00	\$0.00
0	Loader (Med. & Large)	\$413.30		\$17.00	0.00	0.00	0	\$0.00	\$0.00
1	Rollers & Compactors	\$264.09		\$27.14	0.00	0.00	7	\$189.98	\$454.07
0	Drill & Compressor	\$264.09		\$35.60	0.00	0.00	0	\$0.00	\$0.00
1	Excavators (Small)	\$264.09		\$50.00	0.00	0.00	6	\$300.00	\$564.09
1	Excavators (Large)	\$519.89	2	\$56.00	0.00	0.00	5	\$280.00	\$858.77
0	Tired Backhoes/Skidlers	\$413.30		\$12.50	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D6)	\$413.30		\$32.43	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D7)	\$413.30		\$30.00	0.00	0.00	0	\$0.00	\$0.00
1	Tractor (D8)	\$519.89	2	\$57.43	0.00	0.00	5	\$287.15	\$865.92
5	Dump Truck (10 cy +)	\$112.90		\$11.00	0.00	0.00	7	\$385.00	\$2,489.50
0	Dump Truck (Off Hiway)	\$359.97		\$9.00	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$86.22		\$10.50	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$100.58		\$12.25	0.00	0.00	0	\$0.00	\$0.00

	TOTAL MOVE-IN COSTS: \$5,784.46
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WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: Pacific Cascade

Timber Sale Name: GHOST TOWN SORTS

Application Number: 30- 104392

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 2,025 linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: 3,080 linear feet
Road to be reconstructed (optional and required) but not abandoned

Abandonment: 565 linear feet
Abandonment of existing roads not reconstructed under the contract

Decommission: 0 linear feet
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: 27,771 linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

Temporary Construction: 0 linear feet
Roads to be constructed (optional and required) and then abandoned

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

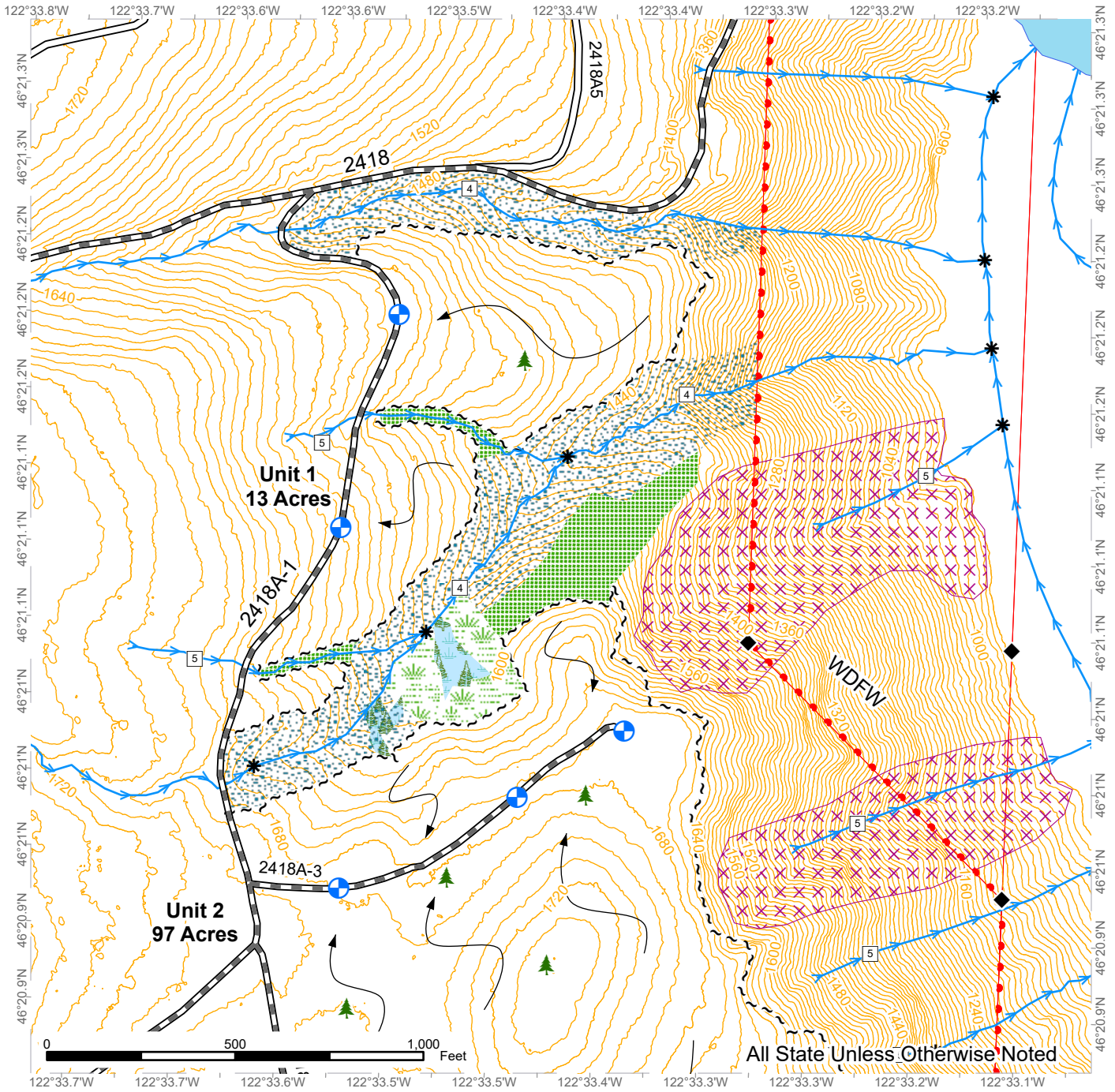
All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact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

(Revised 9/18)

LOGGING PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160

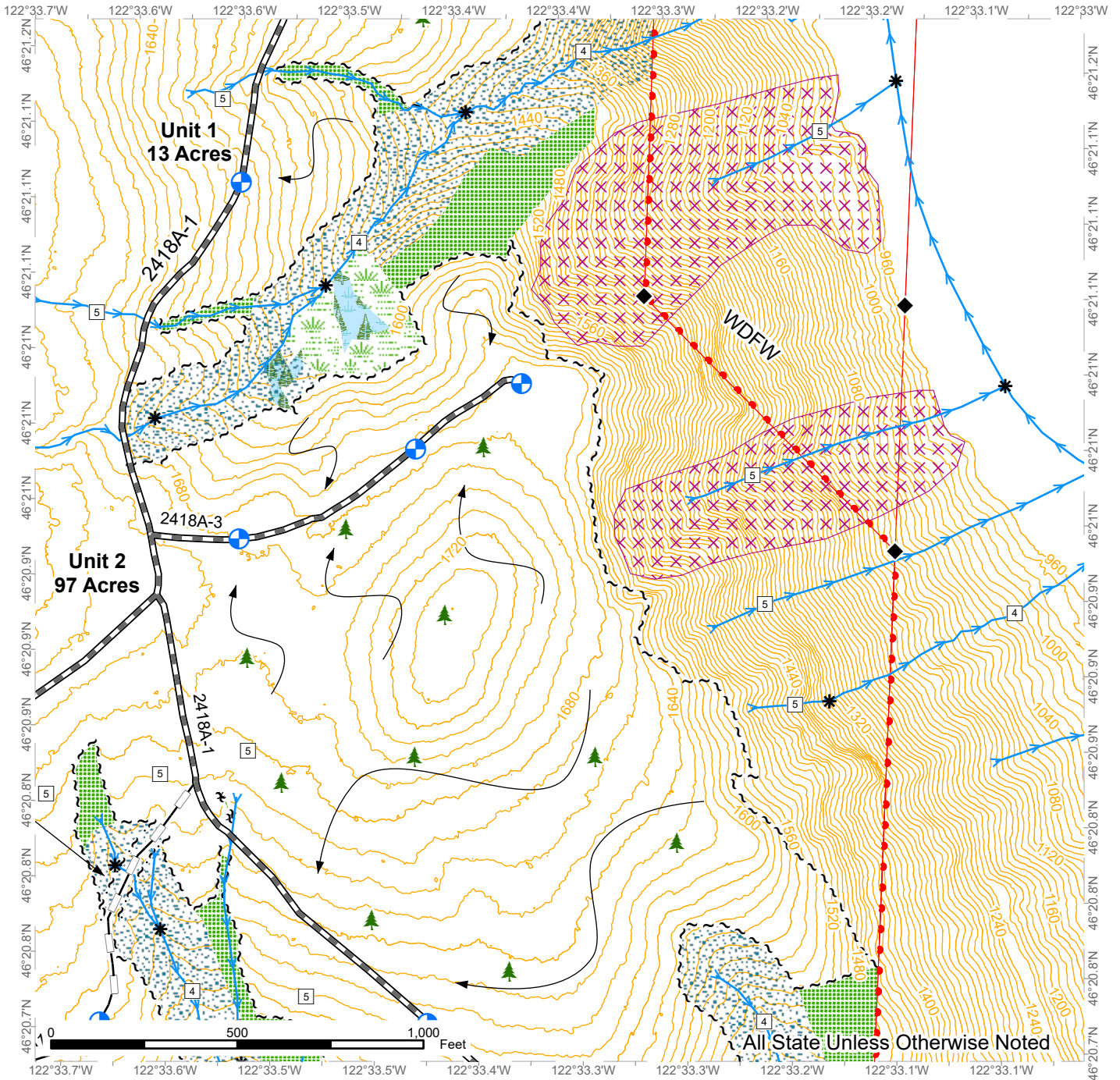


	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Property Line		Landing - Proposed
	Forested Wetland		Existing Roads		Leave Tree Area
	Wetland Mgt Zone		Required Pre-Haul Maintenance		Survey Monument
	Potentially Unstable Slopes				

LOGGING PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



All State Unless Otherwise Noted

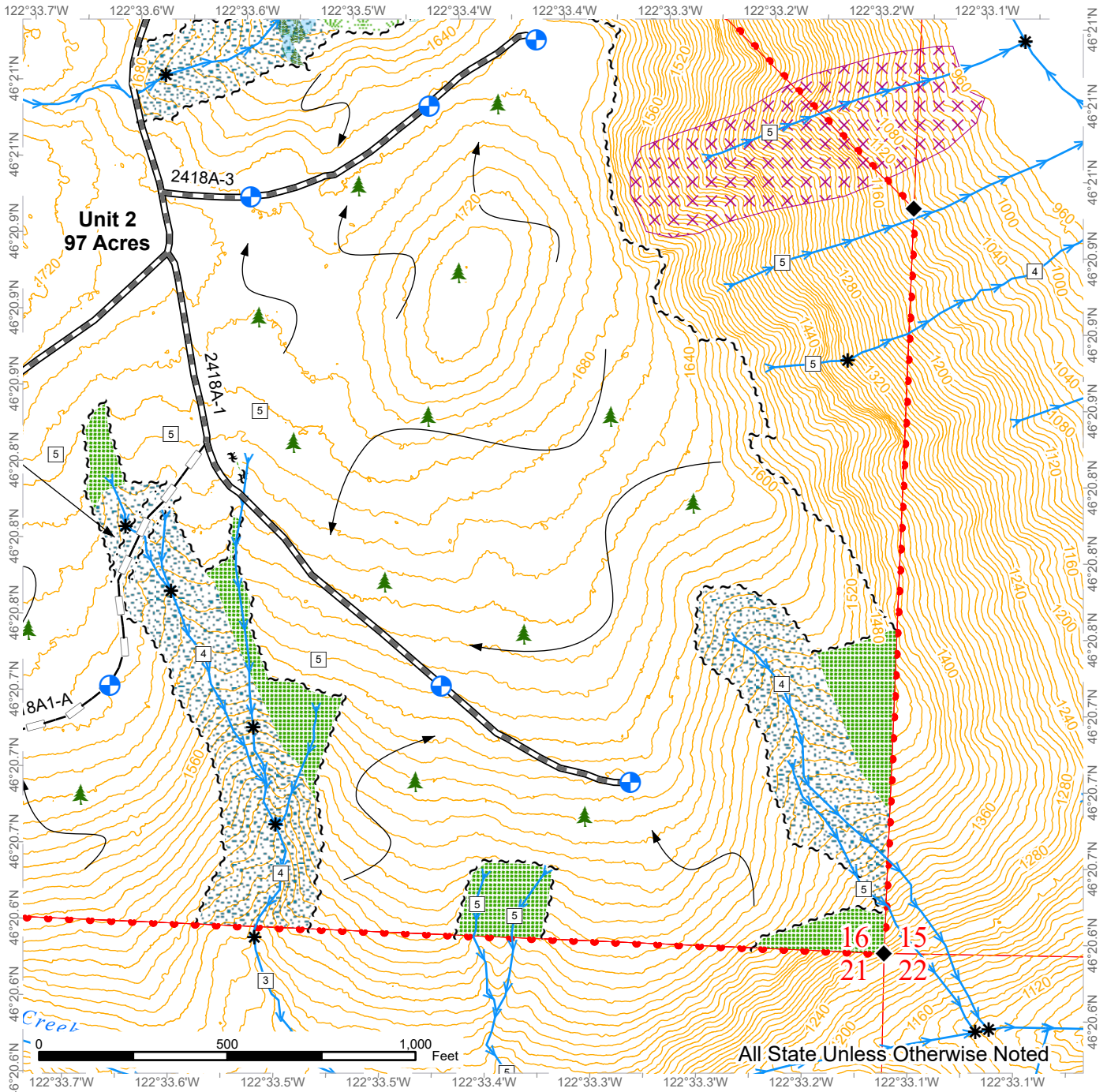
	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Leave Tree Tags		Landing - Proposed
	Forested Wetland		Property Line		Leave Tree Area
	Wetland Mgt Zone		Required Pre-Haul Maintenance		Survey Monument
	Potentially Unstable Slopes		Optional Reconstruction		



LOGGING PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



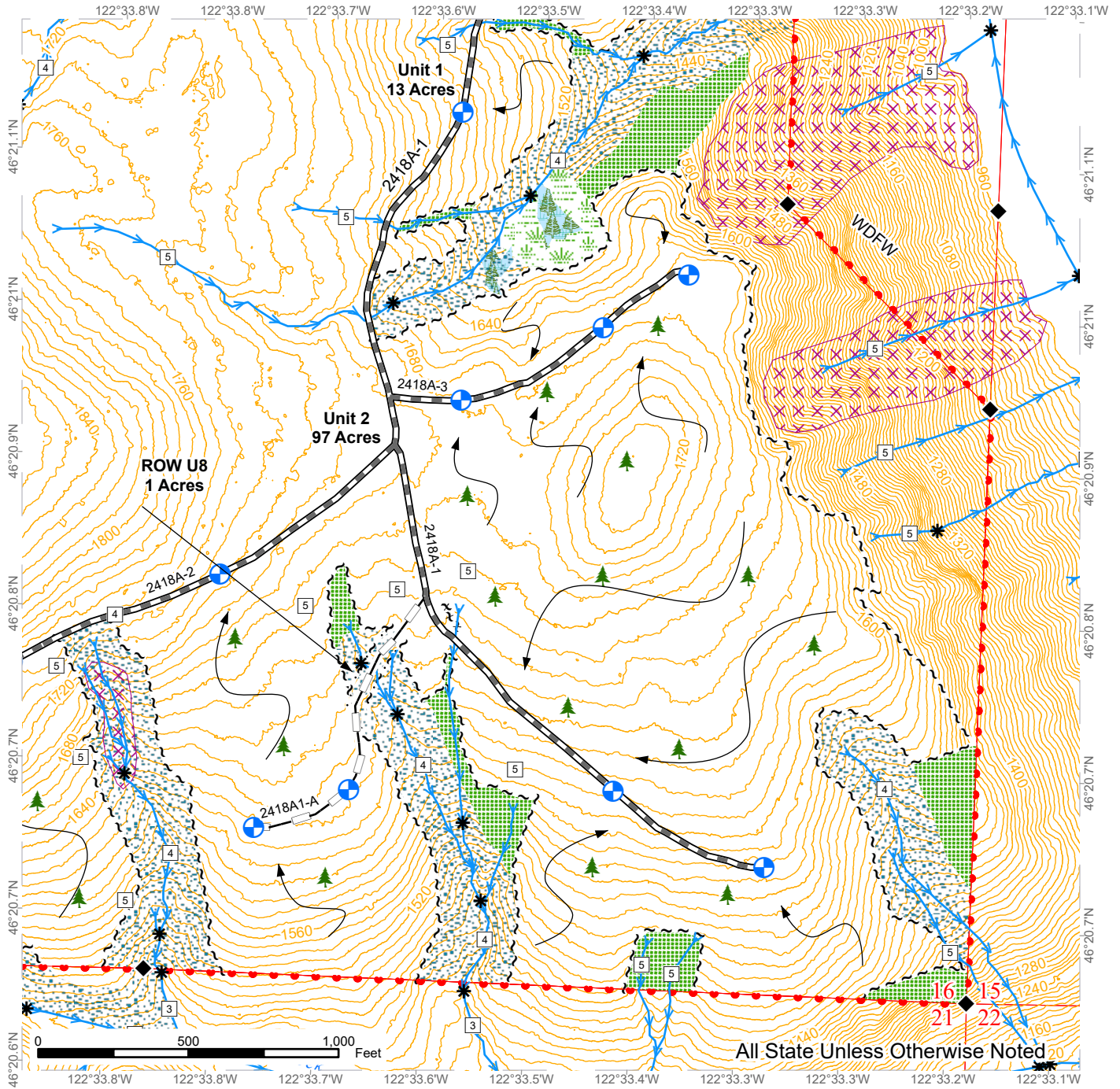
	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Leave Tree Tags		Landing - Proposed
	Forested Wetland		Property Line		Leave Tree Area
	Wetland Mgt Zone		Required Pre-Haul Maintenance		Survey Monument
	Potentially Unstable Slopes		Optional Reconstruction		



LOGGING PLAN MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



All State Unless Otherwise Noted

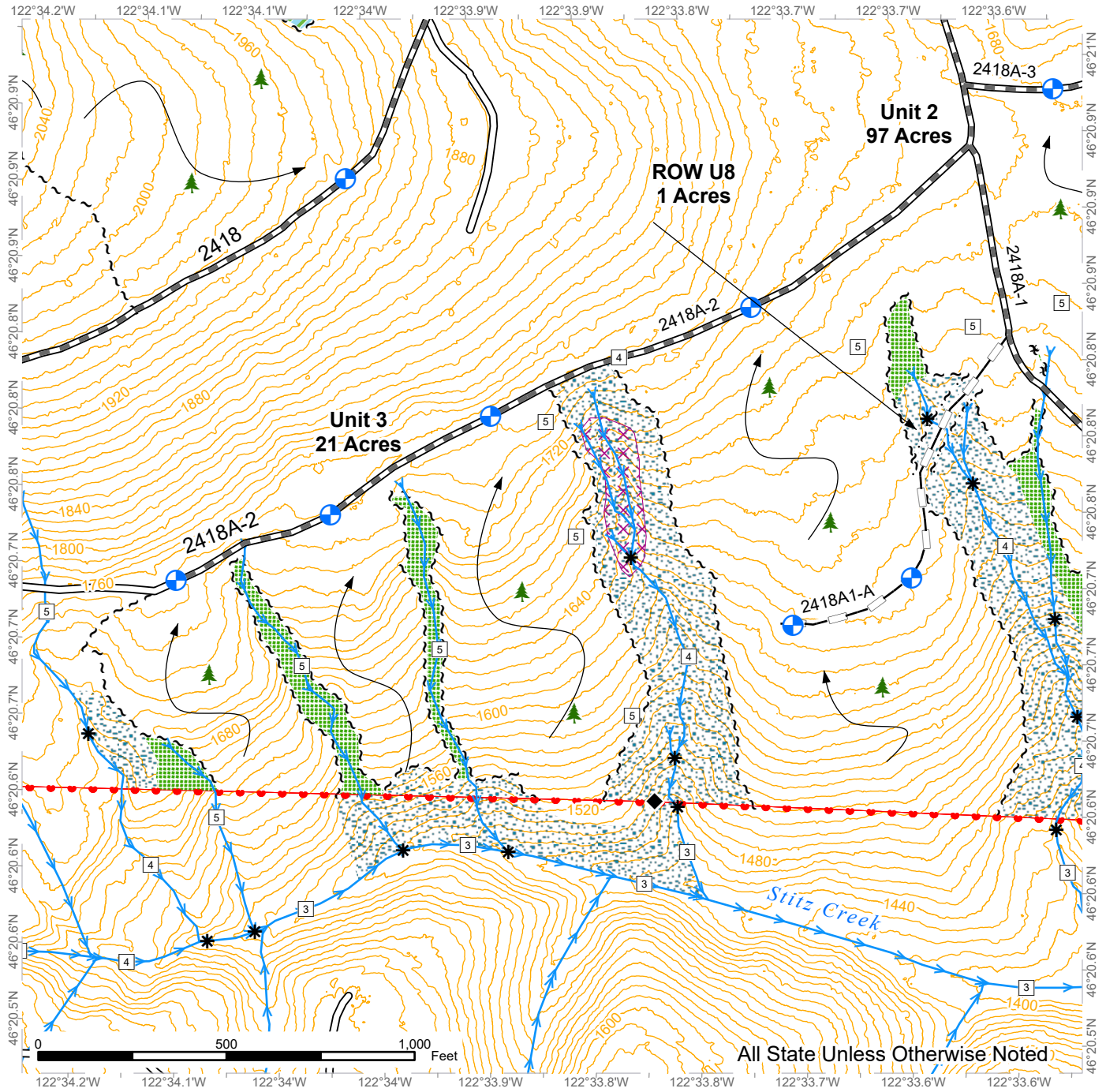
Leave Tree Area	Sale Boundary Tags	Streams
Riparian Mgt Zone	Leave Tree Tags	Landing - Proposed
Forested Wetland	Property Line	Leave Tree Area
Wetland Mgt Zone	Existing Roads	Survey Monument
Potentially Unstable Slopes	Required Pre-Haul Maintenance	
	Optional Reconstruction	



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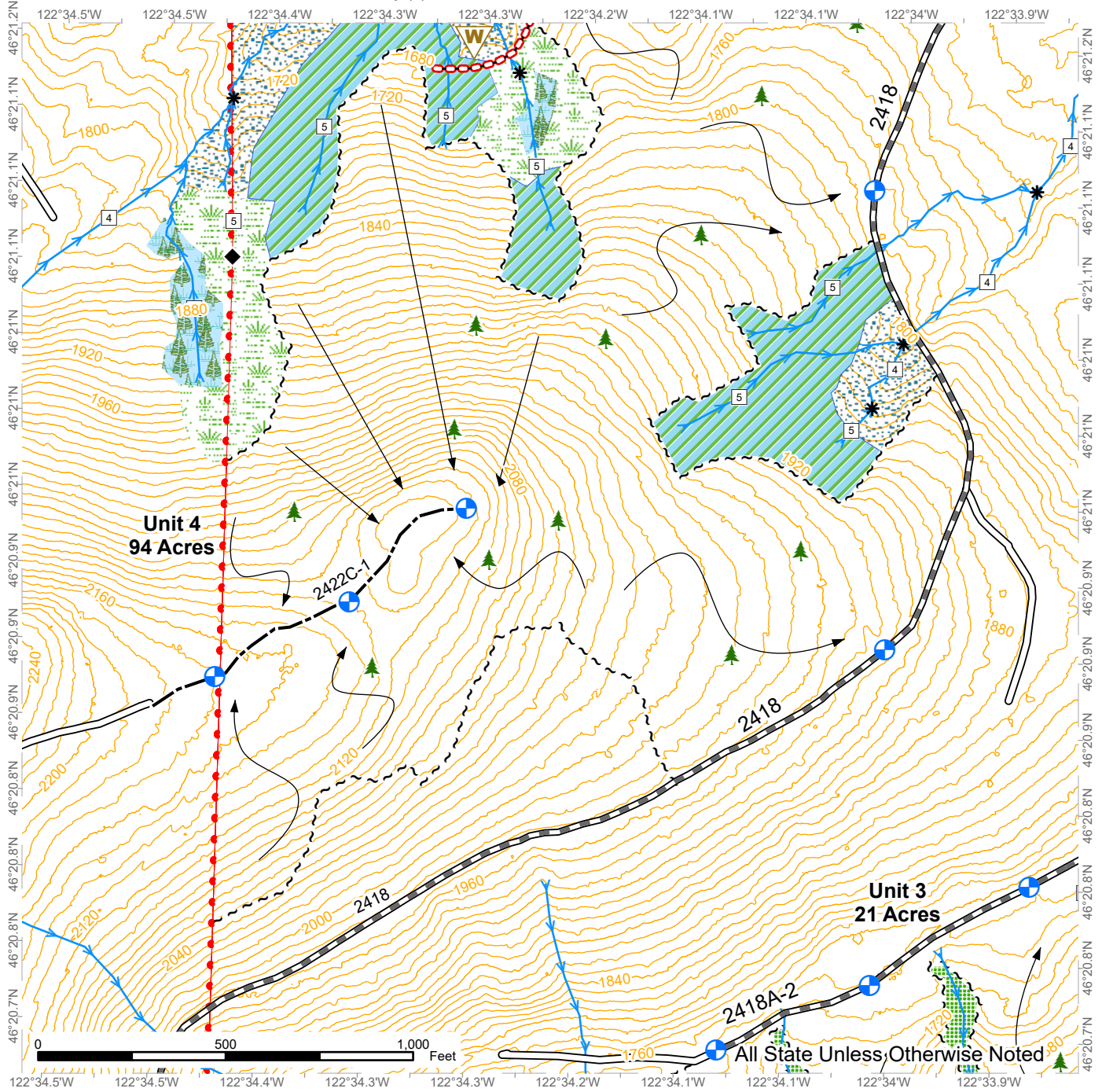
Non Tradeable Leave Tree Area	Sale Boundary Tags	Streams
Leave Tree Area	Leave Tree Tags	Landing - Proposed
Riparian Mgt Zone	Property Line	Leave Tree Area
Potentially Unstable Slopes	Existing Roads	Survey Monument
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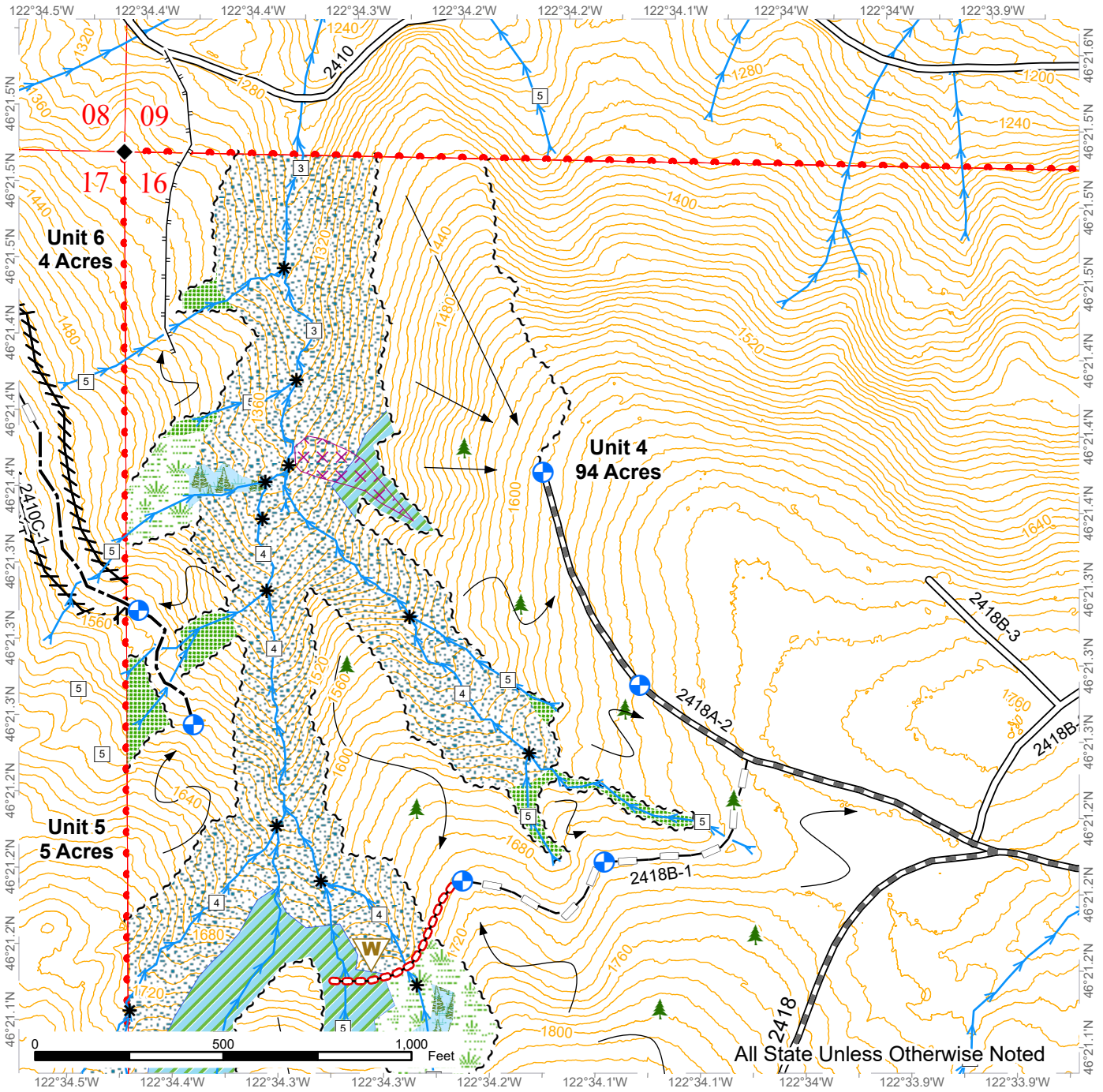
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	Leave Tree Area		Property Line		Landing - Proposed
	Riparian Mgt Zone		Existing Roads		Leave Tree Area
	Forested Wetland		Required Pre-Haul Maintenance		Waste Area
	Wetland Mgt Zone		Optional Construction		Survey Monument
			Optional Reconstruction		
			Required Abandonment		



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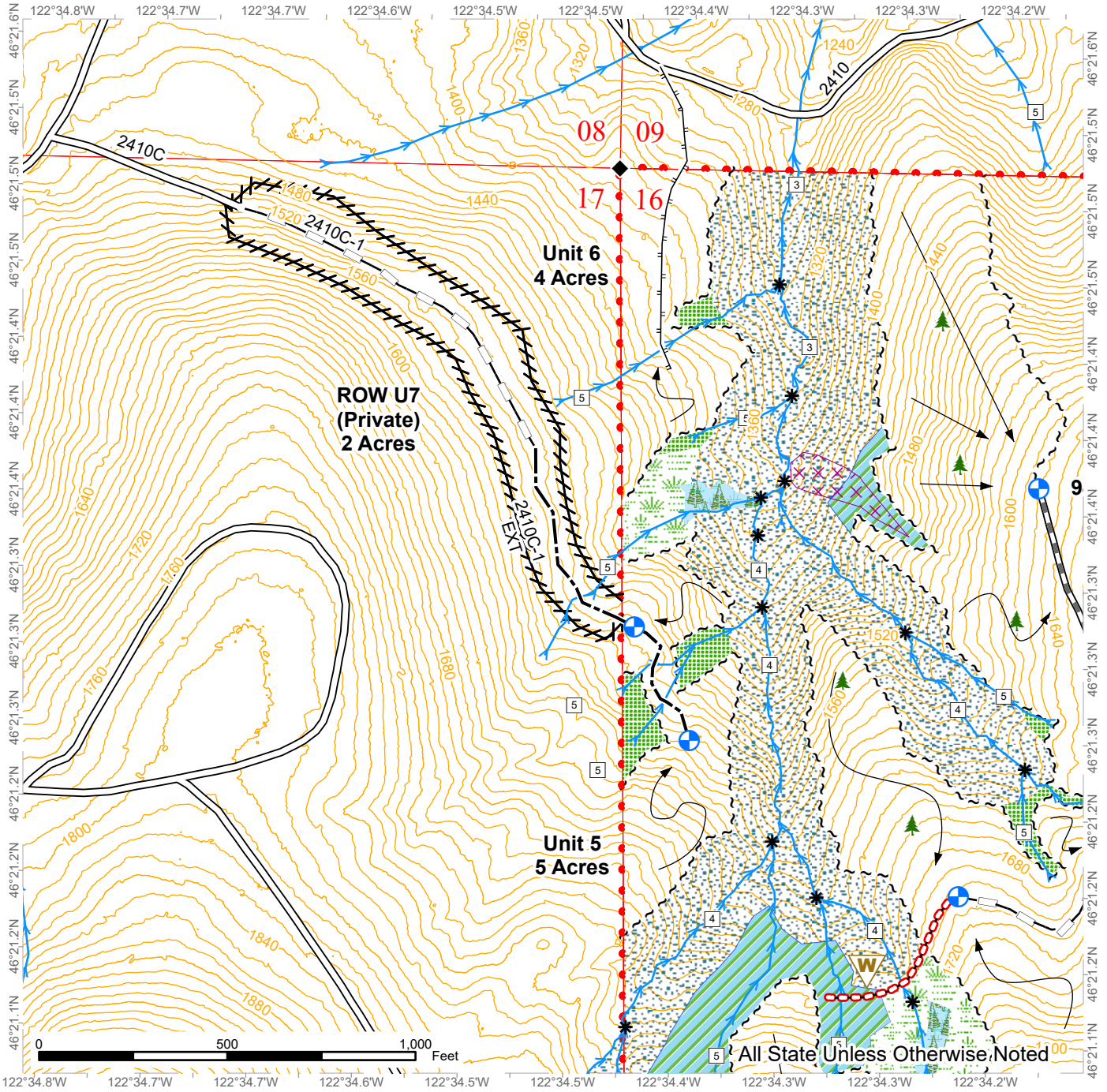
Ground Harvest	Sale Boundary Tags	Designated Skid Trail
Cable Harvest	Property Line	Streams
Non Tradeable Leave Tree Area	Flag Line	Landing - Proposed
Leave Tree Area	Existing Roads	Leave Tree Area
Riparian Mgt Zone	Required Pre-Haul Maintenance	Waste Area
Forested Wetland	Optional Construction	Survey Monument
Wetland Mgt Zone	Optional Reconstruction	
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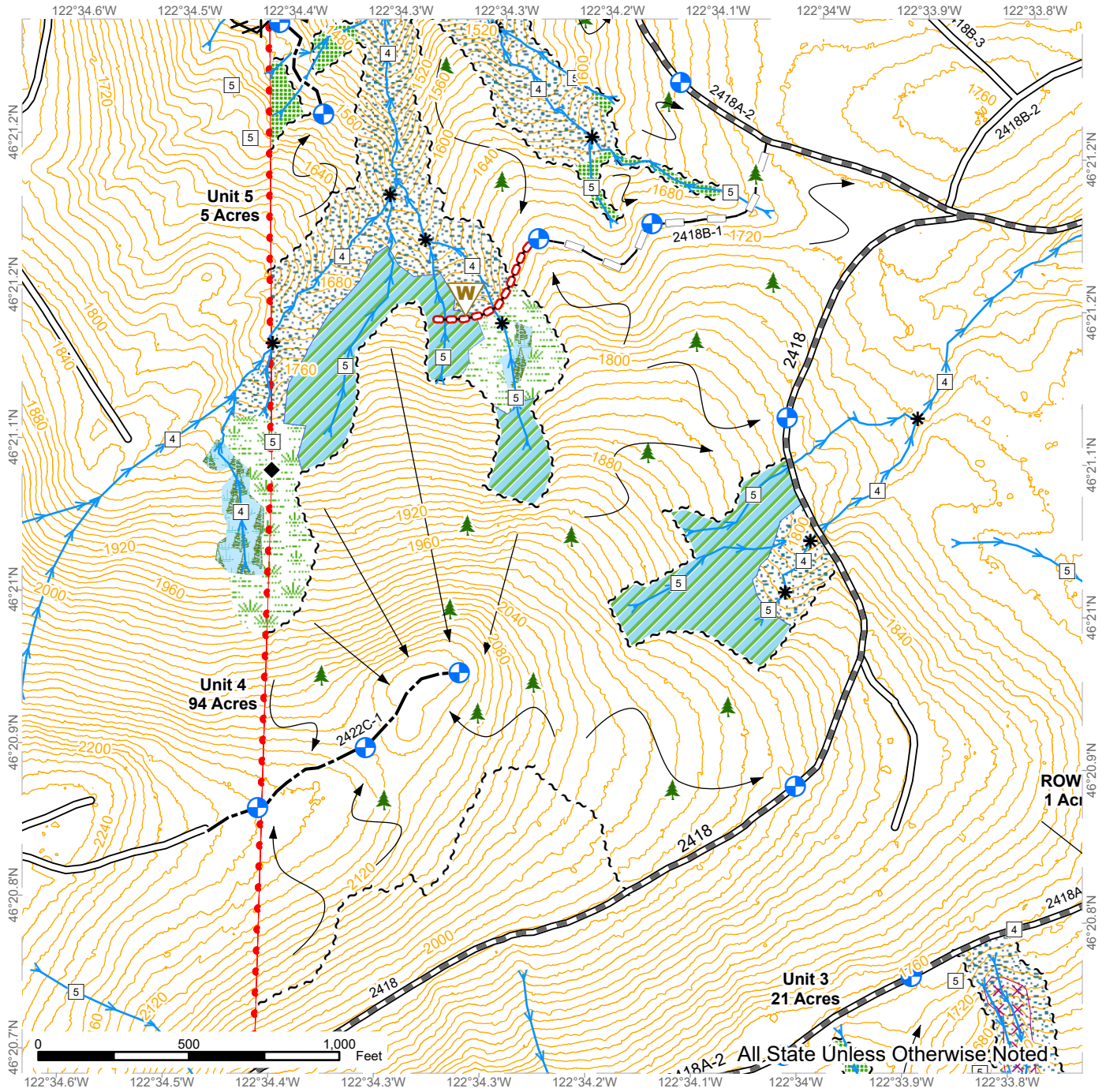
Ground Harvest	Sale Boundary Tags	Designated Skid Trail
Cable Harvest	Property Line	Streams
Non Tradeable Leave Tree Area	Flag Line	Landing - Proposed
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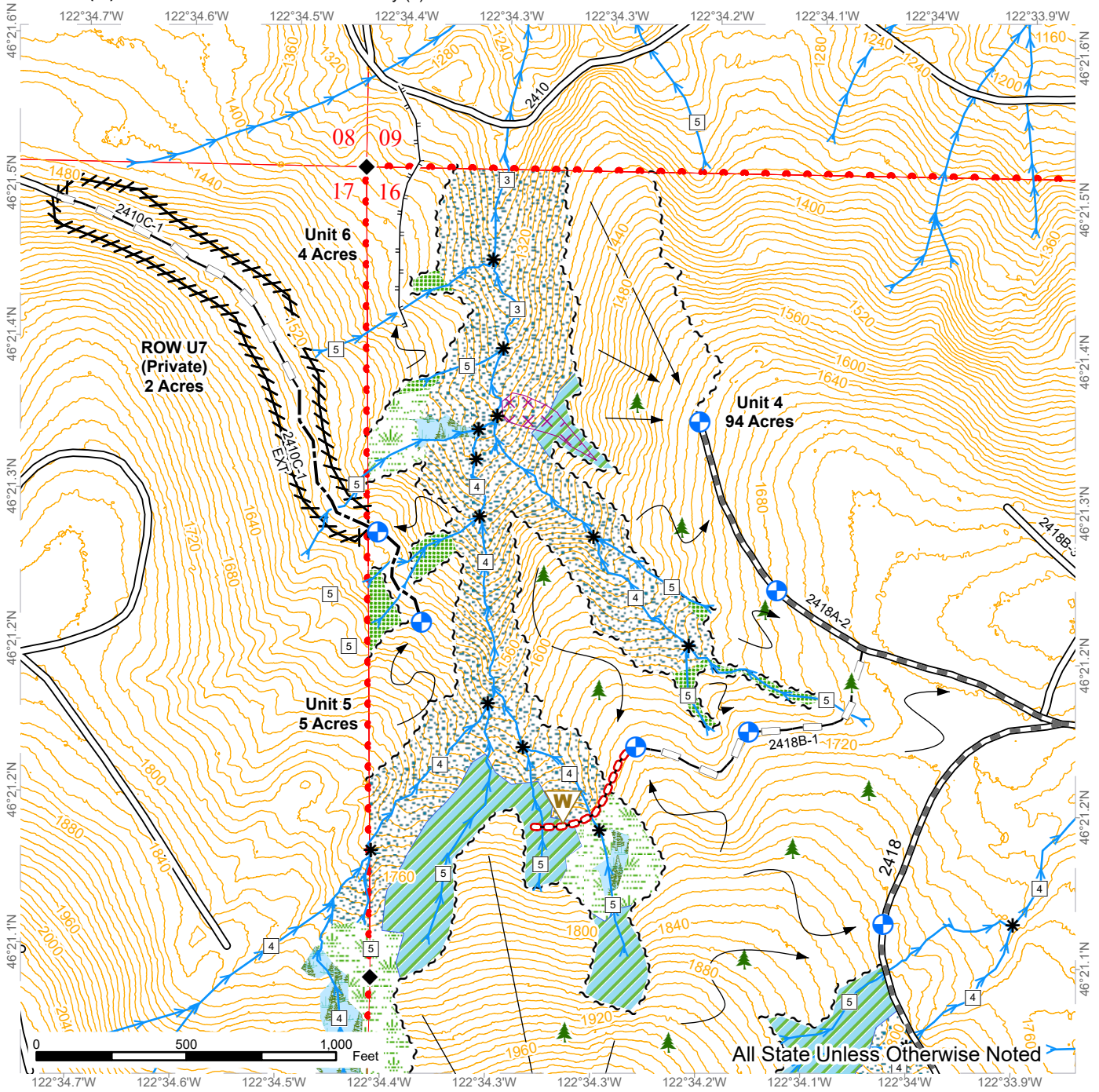
Ground Harvest	Sale Boundary Tags	Streams
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Potentially Unstable Slopes	Required Abandonment	



TEMPORARY ROAD USE PERMIT

This Temporary Road Use Permit (this "**Permit**"), dated as of February 26, 2024, (the "**Effective Date**"), is made by and between WEYERHAEUSER TIMBER HOLDINGS, INC., a Delaware corporation ("**Weyerhaeuser**"), with an address of PO Box 190, 500 Burma Rd, Castle Rock, WA 98611 and the **State of Washington, acting by and through the Department of Natural Resources** ("**Permittee**"), with an address of PO Box 280, Castle Rock, WA 98611.

- 1. ROAD USE PERMIT AREA & PERMITTED USES.** Weyerhaeuser grants Permittee the non-exclusive right to enter and be upon those Weyerhaeuser roads located in Sections 9,17,20,21,28, 29,32,33 Township 10N Range 2E, Cowlitz County, Washington depicted on the maps attached as Exhibit A (each a "**Permit Road**" or collectively, the "**Permit Roads**") for the limited purpose of ingress to and egress from the property depicted on the map attached as "Exhibit A" for log haul, rock haul, and cut & removal of Right-Of-Way through Weyerhaeuser's timber.

This Permit is for the sole purpose of providing Permittee and its authorized contractors and subcontractors at all tiers (individually and collectively, "**Contractors**") commercial vehicular ingress and egress to and from its property for purposes of administrative access, timber haul, rock haul, road construction, reforestation, and plantation maintenance access. This includes the use of roads for potential purchasers to preview the sale prior to the auction.

Permittee shall keep Weyerhaeuser informed of the identities of all Contractors that use the Permit Roads under the terms of this Permit. Other than use by Contractors, this Permit does not include any rights of third-party road use. This Permit confers no right of access for any reason to any Weyerhaeuser or other property other than the Permit Roads. The permission granted to Permittee in this Permit is limited to the Permit Roads. Weyerhaeuser makes no representation or warranty as to its ownership rights in the Permit Roads. All requirements in this Permit shall apply to Contractors, and Permittee shall be responsible for adherence to the terms of this Permit by all Contractors.

- 2. TERM.** This Permit shall expire on February 25, 2026, unless terminated earlier under this section.

This permit may be terminated for any or no reason by either Weyerhaeuser or Permittee giving thirty (30) days written notice to the other of such termination, provided that should Permittee breach any provision in this Permit, Weyerhaeuser may suspend and/or terminate the Permit immediately upon notice to Permittee. Should Weyerhaeuser terminate the Permit before its stated expiration date, Weyerhaeuser will refund a prorated portion of the fees paid, unless the termination was for breach of a Permit provision, in which case no fee refund will be made.

- 3. PERMIT FEES.** Within (30) days of the sale of Ghost Town Timber Sale, Permittee shall pay a fee of **\$23,415.93** for the use of permit roads and construction of temporary right of ways during the term of this Permit. After operations are complete, Weyerhaeuser will

have the option to assess the acre(s) associated with the temporary right of ways and skidding through mature timber. Weyerhaeuser will have the option to invoice Permittee for any damage done.

4. INSURANCE. Before entering using a Permit Road under this Permit, Permittee shall obtain and maintain in full force and effect during the term of this Permit, at Permittee's sole expense, the following insurance coverages:

a) If, under this Permit, Permittee will operate equipment not licensed for use on public highways, the minimum coverages and limits will be: Comprehensive or Commercial General Liability (occurrence form), covering bodily injury and property damage liability, including contractual, products, completed operations, broad form property damage, and independent operator/contractors, with minimum limits of at least \$1,000,000 per occurrence and \$1,000,000 general aggregate. Weyerhaeuser shall be designated as Additional Insured evidenced by copy of the Additional Insured Endorsement attached to the Certificate of Insurance and the endorsement is to include that the insurance will cover "Weyerhaeuser and its subsidiaries and affiliates." The endorsement may be specific to this Permit (CG 20 10, 0704, or equivalent) or may be a Blanket Additional Insured Endorsement applicable to all agreements entered into by Permittee, again equivalent to the CG 20 10 07 04. Permittee's insurance or self-insurance shall be primary and Weyerhaeuser's insurance or self-insurance is excess over other available coverage.

b) If, under this Permit, Permittee will operate equipment which is licensed for use on public highways, the minimum coverages and limits will be: Comprehensive Automobile Liability covering owned, hired, and non-owned vehicles with minimum limits of: (a) For heavy vehicles, equal to or more than 12,000 pounds (gross vehicle weight): combined single limit of \$1,000,000; or (b) For light vehicles, less than 12,000 pounds (gross vehicle weight): combined single limit of \$300,000.

On or before entering Weyerhaeuser property in connection with this Permit, Permittee shall furnish Weyerhaeuser with a Certificate of Insurance evidencing compliance herewith. Permittee shall give Weyerhaeuser at least thirty (30) days written notice prior to cancellation of said coverage, either in whole or in part, and the failure of Permittee to give said notice as required shall be considered a breach of this Permit by Permittee. Permittee shall ensure that all Contractors' insurance coverages and endorsements consistent with the above. Insurance companies providing coverage for Permittee and subcontractors shall have a Best's rating of no less than A- VII. Permittee's and Contractor's insurance companies shall waive right of subrogation against Weyerhaeuser and its subsidiaries and affiliates. All insurance or self-insurance of Weyerhaeuser and its subsidiaries and affiliates shall be excess of any insurance provided by Permittee or its Contractors.

5. COMPLIANCE WITH ALL LAWS. Permittee shall comply with all applicable federal, state, and local laws and regulations in connection with the activities under this Permit, including without limitation those pertaining to fire prevention and suppression, safety, water quality, other environmental resources, and endangered species.

- 6. SUSPENSION OF USE.** Permittee agrees to immediately suspend use of the Permit Roads:
- (a) from time to time whenever Permittee observes conditions under which use of the Permit Roads would result in damage thereto; or
 - (b) Permittee is requested by Weyerhaeuser to do so based on either the potential for damage to Permit Roads or danger of wildfire, which requests may be made from time to time in Weyerhaeuser's sole discretion
- 7. SAFETY.** Permittee shall comply with the safety rules listed below:
- a. Maximum speed is 25 mile-per-hour on all primary roads or as otherwise posted. Individual road conditions, weather, and limited visibility will require slower speeds.
 - b. All vehicle occupants must wear seat belts on Weyerhaeuser roads.
 - c. Drive with lights "on."
 - d. Drive on the right.
 - e. Be prepared to stop in no more than half your sight distance.
 - f. Do not block roads or otherwise interfere with forestry operations.
 - g. Take all reasonable precautions to prevent unauthorized persons from using the Permit Road(s) and from entering Weyerhaeuser or other lands by means of the Permit Road(s).
 - h. Keep the Permit Road(s) open and not obstruct them at any time without Weyerhaeuser 's prior written permission.
 - i. Strictly comply with all additional safety rules and road use regulations provided to Permittee by Weyerhaeuser, which safety rules may be revised from time to time at the sole discretion of Weyerhaeuser.
 - j. Suspend use of the Permit Road(s) whenever the use, due to weather conditions, will cause excessive damage to the Permit Road(s).
 - k. After passing through, leave all gates in open or closed position as found prior to passing through, unless otherwise instructed by Weyerhaeuser to follow a different local gate policy.

8. ROAD MAINTENANCE

Permittee shall maintain and leave the Permit Road(s) at in the same condition as on the day this Permit is entered into or better. If any portions of the Permit Roads are maintained by a third party, Permittee shall pay to the maintaining party Permittee's equitable share of the cost of such maintenance, to be agreed upon by the parties concerned. Acceptable road conditions for maintenance performed by the Permittee or a Third Party include the following:

- a. Culverts need to be open, free flowing, and in good working order. If they become damaged, they shall be cut back, repaired, or replaced.
- b. Cutbanks shall be clean and free of debris to prevent debris from entering and blocking the ditch.

- c. Ditches shall be free of all debris, well defined, and in good working order. They need to be able to accept and transport water to the nearest culvert or outlet and shall be cleaned if not functional.
- d. Road surfaces shall be smoothed and shaped. Surface repair must be made if necessary.
- e. Road maintenance activities shall minimize erosion and sediment delivery that impacts water quality. Such activities may include spreading an approved rock grade on road surfaces, water barring road, or placement of hay bales in ditches.

All road maintenance work performed by Permittee will be done in a manner that is consistent with the applicable requirements of the Sustainable Forestry Initiative (SFI®).

- 9. FIRE PROTECTION.** Permittee shall comply with all laws and regulations pertaining to fire protection and suppression, and take every possible precaution to prevent fires from igniting on or spreading onto Weyerhaeuser's property. If a fire should occur on or near the Permit Road, Permittee shall immediately notify Weyerhaeuser at 360-274-3058 and appropriate government agencies and shall make every reasonable effort to help suppress or contain the fire, provided the same can be done safely. Permittee will be liable for and reimburse Weyerhaeuser for all damages (including loss or damage of timber, and fire suppression costs) Weyerhaeuser resulting from fires caused by Permittee's activities without regard to Permittee's negligence, except to the extent such fires were the result of the sole negligence of Weyerhaeuser.
- 10. HAZARDOUS MATERIALS.** Permittee shall not dump, spill or otherwise allow the release of any petroleum products, chemicals or other substances considered hazardous or regulated under federal or state law on Weyerhaeuser's property, and will follow all laws governing the transport, use, storage and handling of all petroleum products, chemicals and other such substances. In the case of any leak, over-fill, or accidental spill on or adjacent to Weyerhaeuser property, Permittee will immediately clean up the same, and report it to Weyerhaeuser (in addition to reporting it to the applicable governmental agency if required under applicable law).
- 11. FIREARMS AND WEAPONS.** Permittee shall not possess, use or display firearms or weapons on Weyerhaeuser property while operating under this Permit.
- 12. HOUSEKEEPING.** Permittee shall not leave or dispose of any debris, garbage or other materials, or burn the same, on Weyerhaeuser's property.
- 13. NOTICES.** All notices provided for in this Permit, except notices regarding fire suppression or hazardous materials spills, must be written and given by either personal hand-delivery (including Federal Express or other recognized, national overnight mail carrier), or regular U.S. mail, postage prepaid to the address above. All notices regarding fire suppression or hazardous materials must be reported in person or by telephone as soon as possible. All notices must be given to the persons whose signatures appear at the end of this Permit.

- 14. NON-ASSIGNMENT.** Permittee may not assign its rights under this Permit without Weyerhaeuser's prior written consent, which consent may be withheld in Weyerhaeuser's sole and absolute discretion, and Weyerhaeuser may consider any attempted assignment without this consent to be void and to terminate this Permit.
- 15. Indemnity by the State:** State shall defend, indemnify and hold harmless Weyerhaeuser, its affiliates and all of their officers, employees and agents from all claims that arise out of the negligence of the State or its Permittees in their use of the permit. A "claim" as used in this section means any financial loss, claim, suit, action, damage, or expense, including but not limited to attorneys' fees, and including those attributable to bodily injury, sickness, disease or death, or injury to persons or damage to or destruction of tangible property including the resulting loss of use.
- 16. ASSUMPTION OF RISK.** Permittee acknowledges that the Permit Road(s) are used for logging, forestry, and industrial operations and are maintained, if at all, only to standards generally required for such uses. Permittee further acknowledges and understands that Weyerhaeuser has made no representations or warranties as to the present or future condition of its property or the Permit Road(s), the character of traffic on its property or Permit Road(s), or any other factor affecting Permittee's risks in undertaking activities under this Permit. Permittee understands that Weyerhaeuser may provide information about the foregoing from time to time, but Permittee agrees it will and may not rely thereon, and will conduct its own evaluation of conditions on the Permit Roads and other Weyerhaeuser property. On behalf of itself and its Permittee Parties, Permittee assumes all risk of personal injury, including death, and damage to the property of Permittee and any other Permittee Party, and agrees that neither Permittee nor any of the other Permittee Parties will assert a claim against Weyerhaeuser or its affiliates on account of any property damage or personal injury, including death, or other loss resulting from a condition of or traffic on a Permit Road or other Weyerhaeuser, property. In addition, Permittee shall be liable for and pay for all damage to Weyerhaeuser's property or other assets resulting directly or indirectly from Permittee's acts or omissions under this Permit, even if not attributable to negligence by Permittee.
- 17. RELATIONSHIP OF PARTIES.** This Permit is not intended to create and shall not be construed to create any partnership or association for profit between Permittee and Weyerhaeuser, and any liabilities hereunder shall be several and not joint.
- 18. CONFIDENTIALITY.** The terms of this Permit may not be disclosed by Permittee to persons other than Contractors who will be using the Permit Roads without Weyerhaeuser's prior written consent, except in situations required by law or a court of competent jurisdiction.
- 19. RECORDING.** Permittee may not record this Permit in any public records.
- 20. INTEGRATED AGREEMENT; MODIFICATION.** This Permit constitutes the entire agreement and understanding of the parties with respect to the subject matter of the Permit. This Permit may not be modified except in writing signed by the parties. The parties agree to execute any additional documents reasonably necessary to effectuate the provisions and purposes of this Permit.

- 21. INTERPRETATION.** Each party acknowledges that it and its legal counsel have had the opportunity to review this Permit. The parties agree that the terms and conditions of this Permit shall not be construed against any party on the basis of such party's drafting, in whole or in part, of such terms and conditions.
- 22. WAIVER.** Failure of either party to insist upon the strict performance of any of the terms and conditions of this Permit, or failure to exercise any rights or remedies provided in this Permit or by law, or to notify the other party in the event of breach, shall not release the other party of any of its obligations under this Permit, nor shall any purported oral modification or rescission of this Permit by either party operate as a waiver of any of the terms hereof. No waiver by either party of any breach, default, or violation of any term, warranty, representation, agreement, covenant, right, condition, or provision of this Permit shall constitute waiver of any subsequent breach, default, or violation of the same or other term, warranty, representation, agreement, covenant, right, condition, or provision.
- 23. SEVERABILITY.** If any provision of this Permit is held to be invalid or unenforceable, this provision shall not affect or invalidate the remainder of this Permit, and to this end the provisions of this Permit are declared to be severable. If any such invalidity becomes known or apparent to the parties, the parties agree to negotiate promptly in good faith in an attempt to amend such provision as nearly as possible to be consistent with the intent of this Permit.
- 24. GOVERNING LAW & VENUE.** The validity, construction, and performance of this Permit shall be governed by and construed in accordance with the laws of the state in which the Permit Road(s) are located, without regard to its conflict of laws rules. The parties agree to submit to the jurisdiction of any state or federal court within such state in any action or dispute resolution process arising out of the terms, enforcement, or breach of this Permit.
- 25. ATTORNEYS' FEES.** Should any legal action or proceeding be commenced by either party to enforce all or any provision of this Permit, or in connection with any alleged dispute, breach, default, or misrepresentation in connection with this Permit, the prevailing party shall be entitled to recover reasonable attorneys' fees and costs incurred in connection with such action or proceeding, including costs of pursuing or defending any legal action, including, without limitation, any appeal, discovery or negotiation and preparation of settlement arrangements, in addition to such other relief as may be granted.
- 26. COMPLIANCE WITH ALL LAWS; ENDANGERED SPECIES.** Permittee agrees to use the Permitted Roads for the purpose authorized in this Agreement strictly in accordance to all Federal, State and local laws, rules and regulations.
- Permittee shall promptly report to Weyerhaeuser any observations of the presence or other evidence of habitation by a federally designated threatened or endangered species on or along the Permit Roads.
- 27. HEADINGS.** The headings in this Permit are for convenience only and are not intended to, and shall not be construed to, limit, enlarge, or affect the scope or intent of this Permit nor the meaning of any of its provisions.

28. COUNTERPARTS. This Permit may be executed in one or more counterparts, each of which shall be deemed an original, and all of which counterparts together shall constitute the same instrument which may be sufficiently evidenced by one counterpart.

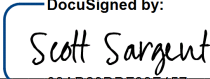
SIGNATURE PAGE FOLLOWS.

IN WITNESS WHEREOF, the parties have executed this Road Use Permit as of the Effective Date.

**WEYERHAEUSER TIMBER
HOLDINGS, INC.**

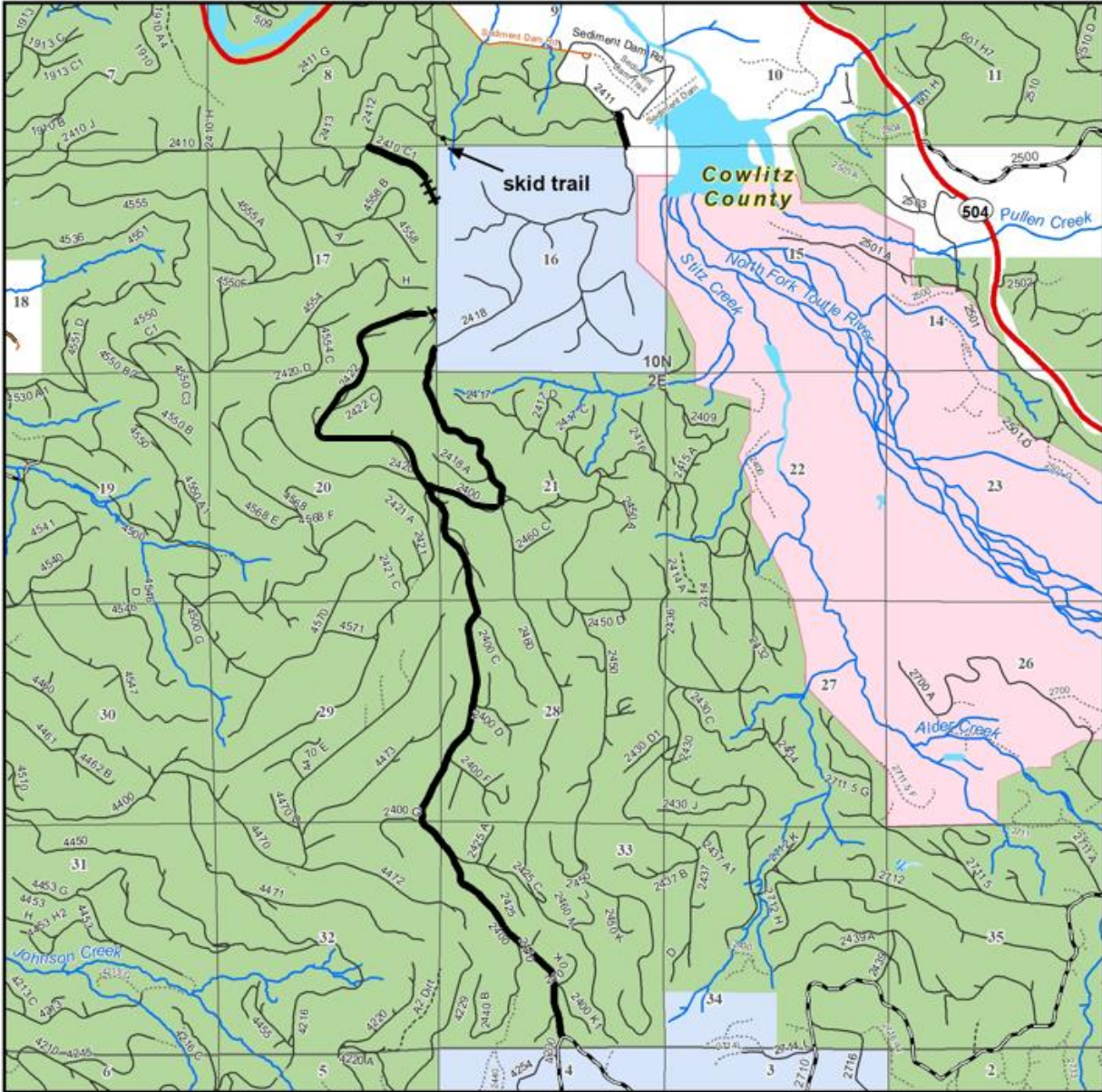
By: 
Name: Jennifer Ridgway
Its: Land Use Manager
Jennifer.Ridgway@wy.com
360-274-3040

**PERMITTEE:
WASHINGTON STATE DEPARTMENT
OF NATURAL RESOURCES**

By: 
Name: Scott Sargent
Its: Pacific Cascade Region Manager
scott.sargent@dnr.wa.gov

MAP OF PERMIT ROADS

Exhibit A



<p>Weyerhaeuser Cowlitz County T10N R02E sec 16</p> skid trail in mature timber	— Paved County Road	
	— Road Use Permit	— Mainline	
— New Construction	— Other Paved Road	— Other Gravel Road	
— Weyerhaeuser	— Dirt Road	— Closed/Undrivable	
— State DNR/Forest	— Major Streams		
— Wildlife/Recreation Area			
— State Highway			

1 inch = 4,000 feet 0 1.25 2.5 Miles 2/13/2024

General Safety and Operations Rules for Permittees – Exhibit B

Compliance with Weyerhaeuser's safety policies is required – any safety violations may result in termination of permits.

Safe driving practices are required. Vehicle operators must drive to actual conditions:

- **Maximum speed limit of 25 mph on all logging roads.**
- Road conditions, bad weather and limited visibility will require slower speeds.
- Drive such that you can always stop within half your sight distance.
- Always drive to the right side of the road – yield to heavy equipment.
- Do not enter active logging areas, unless authorized – see precautions below.
- Drive with lights on at all time.
- Safety belts must be worn by all passengers when driving on Weyerhaeuser lands.
- Do not block roadways, without prior permission of an authorized Weyerhaeuser representative.

CB channels are available for contact with log trucks. Do not depend on CBs - drive defensively, assume there is oncoming traffic around every corner. Give log trucks the right-of-way. (Channel 8 is commonly used.)

Compliance with all applicable state and federal regulations is required.

High-viz. orange clothing, hard-hats and other personal protective equipment are highly recommended and **required** in active operating areas.

Drug and alcohol use on company property or jobs sites is strictly forbidden.

Access for business purposes only - not for recreational purposes. Weapons are not allowed in vehicles.

No off-road driving unless previously authorized in writing.

Stay clear of all cutting operations, equipment, and lines (cable) until you have direct contact with the operator and are instructed that it is safe to proceed:

- Stay at least 300 feet from feller-bunchers (rotosaws). This equipment can throw limbs and chunks long distances. CB channel to contact the operator may be posted at the unit.
- Stay at least 150 feet from processors - this equipment handles stems tree length and has a large radius that is a hazardous area.
- **OBEY ALL SIGNS.**
- Even if a unit is not posted with signs, use common sense, and follow the instructions given above.
- Gates are to be left in the same condition as you find them – open or closed.

- IMPORTANT PHONE NUMBERS -**Emergency: Dial 911**

Washington State Patrol – Longview, WA	(360) 577-2050
Washington State Patrol – Toll Free	1-800-283-7805
Cowlitz County Sheriff – Office	(360) 577-3092
Lewis County Sheriff – Dispatch	(360) 740-1105
Skamania County Sheriff – Office	(509) 427-9490
Department of Natural Resources	(360) 577-2025
Washington Department of Fish & Wildlife Violations Reporting	1-877-933-9847
US Forest Service	(360) 449-7878
Weyerhaeuser Longview Forest Area	(360) 274-3058
Weyerhaeuser – Jennifer Ridgway – Land Use Manager	Office: (360) 274-3040
	Mobile: (360) 751-1398
Weyerhaeuser – Colin Towne – Lead Forester	Office: (360) 537- 8272
	Mobile: (858) 337-6224
Weyerhaeuser – Ryan Christensen - Forester	Office: (360) 274-3055
	Mobile: (360) 431-7567
Weyerhaeuser – Shane Szczerba - Forester	Office: (360) 274-3048
	Mobile: (870) 584-8433
Weyerhaeuser – Vanessa Leigh – Forester	Office: (360) 355-3722
	Mobile: (360) 562-5661
Weyerhaeuser – Chris Rasor – Region Forester	Office: (360) 442-4331
	Mobile: (360) 269-9287

Exhibit A

Estimated Project Schedule

Project timeline estimates. This is a guide and DNR reserves the right to revise this schedule.

Standard Contract Harvest	BNR Date	
	Issue Harvester RFQ Bid Forms	
	Harvester Meeting (optional)	
	RFQ Bid Due/Opening	
	Sort Auction Day	
	Harvester Operations Begin	
	Log Deliveries Begin	
	Log Deliveries End	
	Purchaser Contract End	
	Harvester Contract End	

Pre-Roading Contract Harvest	BNR Date	
	Issue Harvester RFQ Bid Forms	
	Harvester Meeting (optional)	
	RFQ Bid Due/Opening	
	Harvester Operations Begin	
	ROW Sort Auction (optional)	
	ROW Sort Deliveries Begin	
	ROW Sort Deliveries End	
	ROW Purchaser Contract Ends	
	Sort Auction Day	
	Log Deliveries Begin	
	Log Deliveries End	
	Purchaser Contract End	
	Harvester Contract End	

Multi-phase Contract Harvest	BNR Date	
	Issue Harvester RFQ Bid Forms	
	Harvester Meeting (optional)	
	RFQ Bid Due/Opening	
	Sort Auction Day (Phase 1)	
	Harvester Operations Begin	
	Log Deliveries Begin (Phase1)	
	Log Deliveries End (Phase1)	
	Purchaser Contract End (Phase 1)	
	Sort Auction Day (Phase 2)	
	Log Deliveries Begin (Phase2)	
	Log Deliveries End (Phase 2)	
	Purchaser Contract End (Phase 2)	
	Harvester Contract End	

CONTRACTOR CERTIFICATION
RESPONSIBLE BIDDER CRITERIA – WAGE LAW COMPLIANCE

WASHINGTON STATE PROCUREMENT OF GOODS & SERVICES CONTRACTS

Prior to awarding a contract, agencies are required to determine that a bidder is a 'responsible bidder.' See [RCW 39.26.160\(2\) and \(4\)](#). Pursuant to legislative enactment in 2017, the responsible bidder criteria include a contractor certification that the contractor has not willfully violated Washington's wage laws. See Chap. 258, 2017 Laws (enacting [SSB5301](#)).

SOLICITATION DATE: Month _____, Day _____, Year _____

I hereby certify, on behalf of the firm identified below, as follows (check one):

NO WAGE VIOLATIONS. This firm has **NOT** been determined by a final and binding citation and notice of assessment issued by the Washington Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in [RCW 49.48.082](#), any provision of RCW chapters [49.46](#), [49.48](#), or [49.52](#) within three (3) years prior to the date of the above-referenced procurement solicitation date.

OR

VIOLATIONS OF WAGE LAWS. This firm has been determined by a final and binding citation and notice of assessment issued by the Washington Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in [RCW 49.48.082](#), any provision of RCW chapters [49.46](#), [49.48](#), or [49.52](#) within three (3) years prior to the date of the above-referenced procurement solicitation date.

I hereby certify, under penalty of perjury under the laws of the State of Washington, that the certifications herein are true and correct and that I am authorized to make these certifications on behalf of the firm listed herein.

PRINT FULL LEGAL ENTITY NAME OF FIRM SUBMITTING BID

SIGNATURE OF AUTHORIZED PERSON

DATE SIGNED

PRINTED NAME OF PERSON MAKING CERTIFICATION FOR FIRM

TITLE OF PERSON SIGNING CERTIFICATE

PRINT COUNTY AND STATE WHERE SIGNED

Return this contractor certification to the solicitation coordinator listed in the solicitation document.