



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**  
Peter Goldmark - Commissioner of Public Lands

STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

**REQUEST FOR QUOTE**  
**RFQ NO. 30-092773**

PROJECT TITLE: CAPE LABELLE FIT SORTS

QUOTE DUE DATE: May 26, 2016 2:30 PM

EXPECTED TIME PERIOD FOR CONTRACT: June 27, 2016 to July 31, 2017

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.

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## **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 CAPE LABELLE FIT 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 4010 MBF of timber in 7 unit(s) for the Department of Natural Resources in the Northeast 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 June 27, 2016 to July 31, 2017. 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) 01, 02, 03 and 04.
- And \$13.00 per Ton for sort 05 harvested and delivered.
- 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:

$$\begin{aligned} &\text{Hauling Services Payment Rate per Ton} \\ &= (\text{Base Rate} + \text{Mileage Rate}) \times (\text{Contractor's hauling bid factor}) \end{aligned}$$

$$\text{Base Rate} = \$2.35$$

(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')

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

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 <http://tonto.eia.doe.gov/oog/info/wohdp/diesel.asp> 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.

- 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	<a href="#">Phil Anderson</a>
Address	<a href="#">225 S. Silke Road</a>
City, State, Zip Code	<a href="#">Colville, WA 991149369</a>
Phone Number	<a href="#">(509)684-7474</a>
Fax Number	<a href="#">(509)684-7484</a>
E-Mail Address	<a href="mailto:phil.anderson@dnr.wa.gov">phil.anderson@dnr.wa.gov</a>

### 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 Harvester Meeting

DNR recommends that Candidate Harvesters who intend to submit a Quote attend the Harvester meeting. This meeting will be held on April 26, 2016 at 11:00 AM, in Northeast Region Office conference room. Attendance is not mandatory.

DNR will send a copy of the questions and answers from the Harvester meeting to each Candidate Harvester who received a copy of the RFQ. Written questions may be submitted in advance of the meeting to the RFQ Coordinator. The DNR shall be bound only to written answers to questions. Oral responses given at the Harvester meeting are 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 faxed must arrive at the DNR no later than 2:30 PM, local time, on May 26, 2016.

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 26, 2016."

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 Ton	<b>Required</b>
Hauling services bid factor (formatted to 3 decimals i.e. #.###)	<b>Required</b>
Road construction cost proposal	<b>Required</b>
Statement of Available Resources and Work Plan	<b>Required</b>
All attachments incorporated by reference	<b>Required</b>

**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**

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 fax 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 business days from the issuance of the Region Manger'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      Road Cost Proposal Bid Form

## Contract Harvest Project Schedule – Contractor Pool

Project timeline estimates. This schedule is a guide and may be adjusted to account for holidays and weekends and to accommodate staff schedules.

### Cape Labelle FIT Sorts 92773

<b>Contractor Pool Eligibility Process</b>	Advertise RFSOQ	Ongoing - Available on-line <a href="http://www.dnr.wa.gov/BusinessPermits/Topics/ForestryContracts/Pages/psl_forestry_service_contracts.aspx">http://www.dnr.wa.gov/BusinessPermits/Topics/ForestryContracts/Pages/psl_forestry_service_contracts.aspx</a>
	Issue RFSOQ Packets	
	Deadline for completed SOQ's	Open ended. SOQ evaluations to occur on the 15 <sup>th</sup> day of every month
	Announcement of Contractor Eligibility	
	Eligible Contractor selection appeal period begins	20 <sup>th</sup> day of every month
	Eligible Contractor selection appeal period ends	25 <sup>th</sup> day of every month

<b>Log Auction and Harvester Bid Process</b>	<b>BNR Approval</b>	<b>May 3, 2016</b>
	Issue Harvester Request For Quotes (RFQ) and Bid Forms	<b>April 21, 2016</b>
	Conduct Harvester Pre-bid Meeting	<b>April 26, 2016</b>
	<b>Log Sort Auction Date</b>	<b>June 14, 2016</b>
	<b>If no-bid sort(s), consult PSL for schedule adjustment, otherwise proceed.</b>	
	Announce Log Destination Information	<b>June 15, 2016</b>
	Harvester Bid Opening & Notification	<b>May 26, 2016</b>
	Harvester selection appeal period ends	<b>May 31, 2016</b>
	Confirmation of Log Sort Auction, Harvester Services Contract Signing, Log Purchaser Contract Signing	<b>June 27, 2016</b>

<b>Project Operations</b>	<b>Operations Begin</b>	<b>June 27, 2016</b>
	Log Deliveries Begin	<b>June 27, 2016</b>
	Log Deliveries End	<b>December 31, 2016</b>
	Operations End	<b>July 31, 2017</b>

**STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES**

**HARVESTING SERVICES CONTRACT**

**AGREEMENT NO. 30-092773**

**SALE NAME: CAPE LABELLE FIT 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 timber except for leave trees banded with blue paint and trees bounded out by yellow "Leave Tree Area" tags bounded by white timber sale boundary tags located on approximately 396 acres on part(s) of Sections 23, and 26 all in Township 36 North, Range 30 East, Sections 30, 35, and 36 all in Township 37 North, Range 30 East, Sections 13, and 36 all in Township 38 North, Range 30 East W.M. of Okanogan 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.

Logs produced under this contract will be manufactured by Contractor meeting the individual sort specifications and Purchaser's preferred log lengths, with a minimum length of 12 feet, unless otherwise directed by the Contract Administrator.

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

<b>Agreement No.</b>	<b>Sort #</b>	<b>Species Diameter</b>	<b>Scaling Rule</b>	<b>Preferred Log Lengths</b>	<b>Destination</b>	<b>A Miles</b>	<b>C Miles</b>
93688	1	DF/WL 11"+ dib	ES				
93689	2	DF/WL 7-10" dib	ES				
93690	3	DF/WL 5-6" dib, ES 5-10" dib & non-chuck DF/WL 7-10" dib	ES				
93691	4	Dead DF/WL 5"+ dib utility	ES				
93692	5	DF/WL/ES 2"+ dib utility & non-chuck DF/WL 11"+ dib	ES				

Unless otherwise specified, no blue stain is allowed in Ponderosa pine.

“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**

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.
- d. If poles are to be produced under this contract, they shall meet the specifications outlined in Schedule P, Pole Specifications.
- e. Surface characteristics for a high quality (HQ) "A" log sort will have sound tight knots and not to exceed 1 ½ inch in diameter, numbering not more than an average of one per foot of log length. May include logs with not more than two larger knots. Knots ½ inch and smaller in diameter shall not be a determining factor. Logs will have a growth ring count of 6 or more rings per inch in the outer third top end of the log.

**G-025 Schedules**

The following attached schedules are hereby incorporated by reference:

Schedule	Title
M	Additional Road Maintenance Payment Rates

**G-027.1 Log Delivery Schedule and Conditions**

- a. Contractor shall deliver logs to Purchaser’s designated delivery location per G-022.1 clause. 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
01,02,03,04,05	20

- 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, the State shall determine the project starting date. The State shall notify the Contractor no later than fourteen (14) days prior to the anticipated starting date.

All activities required under this contract are to be completed between the starting date of June 27, 2016 and the expiration date of July 31, 2017. All forest product deliveries are to be completed prior to December 31, 2016.

Contractor shall not have any right to enter the sale area to perform harvesting services after contract expiration.

**G-033.1 Curtailment 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 contact. 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-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 program Standard under certificate number BV-SFIS-US09000572.

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 Northeast 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 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 post office address, so that their receipt may be acknowledged by Contractor.

G-030.1 Commencement Date

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-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; E363023E, E363023G, E373029E, E373036E, E373036F, E373036G, E383013E, E383036E, FS300, FS335, FS337, Cape Labelle, Coyote, Quarry and Main. 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 Mt. Anne County Rd., FS300, FS335, Coyote, Main, Quarry and Cape Labelle 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:

Road Use Permit 93547 with Columbia River Carbonates dated February 29, 2016.  
Road Use Permit 93500 with Fisher dated February 18, 2016.  
Road Use Permit 93501 with Watt dated February 18, 2016.  
Road Use Permit 93540 with Bendickson and Holdren dated February 18, 2016.  
Easement 1947 with Sun Ranch dated May 1, 1982.  
Road Use Permit with USFS pending.

#### **G-390.1 Road Approach Permit Requirements**

Contractor agrees to comply with the attached terms and conditions of the road approach permit entered into between the State and Okanogan County.

#### **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:

DATA MISSING

**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
01,02,03,04	Ton	\$0.00	N/A
05	Ton	\$13.00	N/A

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

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 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 <http://tonto.eia.doe.gov/oog/info/wohdp/diesel.asp> 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.

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.

[3]

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

If the Contract Administrator authorizes hauling across ferries, toll bridges, or other miscellaneous tolls, the Contractor's billing statement must include an itemized list of loads by ticket number and date of crossing(s) with receipts for each ferry crossing and/or number of toll bridge crossings attached. 'Good to Go' regulated bridge tolls will be reimbursed at a fixed rate of per toll crossing. 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 with receipts, whichever is less.

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

Payment for tolls incurred for backhauling loaded trucks shall be the responsibility of the Contractor and will not be reimbursed by the State.

Convenience tolling 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:

<b>Roads or Structures</b>	<b>Number of Stations</b>	<b>Dollars per Station</b>
E363023E - maintenance	19.26	
E363023G - maintenance	36.00	
E373029E - reconstruction	4.70	
E373029E – construction	10.40	
E373029E - construction	25.80	
E373036E - construction	10.60	
E373036E - maintenance	9.30	
E373036F – construction	19.70	
E373036G - maintenance	10.00	
E373036G - reconstruction	10.75	
E373036G – construction	3.0	
E373036G - maintenance	53.25	
E383013E - maintenance	62.31	
E383013E - reconstruction	1.00	
E383013E - maintenance	2.69	
E383036E - maintenance	1.50	
E383036E - construction	4.20	
E383036E - maintenance	3.20	
E383036E - reconstruction	16.10	
E383036E - maintenance	7.50	
E383036E - construction	36.30	
FS 335 - maintenance	25.70	
FS 337 - maintenance	40.60	
Coyote Rd - maintenance	10.34	
Main Rd - maintenance	40.50	

<b>Additional Payments or Reductions</b>	<b>Number of Items</b>	<b>Cost Per Item</b>	<b>Total Cost</b>
18" culvert (purchased and installed) as directed by the contract administrator	108 feet	\$13.00/ft	\$1,404.00
Additional rock (delivered and spread) as directed by the contract administrator	300 cy	\$10.00cy	\$3,000.00
Additional road grading (Cape Labelle Rd stations 105+60 – 149+95) as directed by the contract administrator	40 hours	\$139.00/hr	\$5,560.00

One station of road construction is 100 feet. All materials, equipment time, labor, and equipment mobilization costs are included in the total price.

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 \$100,000.00. At least 50% must be in a form other than a bond, unless otherwise agreed to by the State.

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 clauses G-022.1 and 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-090 Scaling Rules**

Determination of volume of any forest products shall be conducted by a state approved third party scaling organization and in accordance with the Eastside log scaling and grading rules, Region 6 taper 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 en-route to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

**L-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-010.1 Cutting and Yarding Schedule**

Falling and Yarding will not be permitted from March 15 to June 1 in all units unless authorized in writing by the Contract Administrator.

**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 20 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 area, 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 'Trespass and Unauthorized Activity' clause. Contractor is required to leave all cut or damaged reserve trees on site.

**H-015.1 Skid Trail Requirements**

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

- a. Skid trail will not exceed 16 feet in width, including rub trees.
- b. Skid trails shall not cover more than 10 percent of the total acreage on each unit.
- c. Skid trails will be pre-approved by the Contract Administrator.
- d. Except for rub trees, skid trails shall be felled and yarded prior to falling adjacent timber.

- e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.
- f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.
- g. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.

Violation of any part of this clause will be cause to revoke the Contractor's rights to harvest and to enter the sale area.

#### **H-017 Preventing Excessive Soil Disturbance**

Operations may be suspended when soil rutting exceeds 10 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 forest products must be removed within 30 days 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-050 Rub Trees**

Trees designated for cutting along skid trails and cable corridors shall be left standing as rub trees until all timber that is tributary to the skid trail or cable corridor has been removed.

#### **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-060.1 Skid Trail Locations**

Locations of skid trails must be marked by Contractor and approved by the Contract Administrator prior to the felling of timber.

**H-080 Snags Not to be Felled**

Snags not required to be felled for safety reasons may be left standing. Snags felled for safety reasons shall not be removed and must remain where felled.

**H-110 Stump Height**

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

**H-120.1 Harvesting Equipment**

Forest products harvested under this contract shall be removed using feller buncher, rubber tired or tracked skidder, unless authority to use other methods or equipment is granted in writing by the State.

**H-130.1 Hauling Schedule**

The hauling of forest products will not be permitted on all authorized roads from March 15 to June 1 unless authorized in writing by the Contract Administrator .

**H-140.1 Special Harvest Requirements**

Contractor shall accomplish the following during the harvest operations:

- a. Whole tree yarding is required in all units.
- b. Road salts shall not be applied to roads for dust abatement or removing ice from road surfaces.
- c. All slash shall be piled at landings and all landings shall be separated from road prism at the completion of harvest.
- d. Appropriate warning signs shall be posted at locations designated by the Contract Administrator.
- e. If snow plowing occurs, snow berms shall be removed at locations designated by the Contract Administrator to allow surface water to drain from roads.

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:

Contractor shall deliver 600 pounds of grass seed to Highlands Fire Camp. Seed provided shall meet the following specifications: 40% Mountain Brome, 30% Sherman Big Bluegrass, 30% Idaho Fescue. Seed shall be certified weed free, premixed in 50 pound bags clearly labeled with the timber sale name on each bag.

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:

<b>Species</b>	<b>Net Bd Ft</b>	<b>Log Length (ft)</b>	<b>Log dib (inches)</b>
DF/WL/ES	10	12	2
Dead DF/WL	10	12	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.

**H-210 Log Length Hauling Restrictions**

The maximum log length hauled from the sale area shall not exceed 45 feet unless otherwise approved in writing by the Contract Administrator.

**H-230.1 Tops and Limbs Outside the Sale Boundary**

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

**H-250 Additional Falling Requirements**

Within all units, all live stems greater than 2 inches in diameter or greater than 3 feet in height not banded with blue paint, excluding ponderosa pine, hardwoods and areas bounded by leave tree area tags, shall be felled concurrently with felling operations. Areas of young or immature timber may be excluded from this requirement by the Contract Administrator.

**H-260 Fall Leaners**

Trees within the Units that have been pushed over in falling or skidding operations shall be felled.

**Section C: Construction and Maintenance****C-040.1 Road Plan**

Road construction and associated work provisions of the Road Plan for this project, dated June 18, 2015 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 E363023E, E363023G, E373029E, E373036E, E373036F, E373036G, E383013E, E383036E, FS335, FS337, Coyote, Quarry and Main road(s). All work shall be completed to the specifications detailed in the Road Plan.

**C-060.1 Designated Road Maintainer**

If required by the State, the Contractor shall perform maintenance and replacement work as directed by the State on FS300 and Cape Labelle (80+26 to 105+60 and 149+95 to 234+96) roads. 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-080.1 Landing Location Approval Prior to Construction**

Landing locations shall be marked by the Contractor and approved by the Contract Administrator prior to construction.

**C-090 Landing Location**

Landings shall be built 50 feet off the Cape Labelle road(s).

**C-130.1 Dust Abatement**

Contractor shall abate dust on the E363023E, E363023G, E373029E, E373036E, E373036F, E373036G, E383013E, E383036E, FS300, FS335, FS337, Cape Labelle, Coyote, and Main roads used for hauling from June 15 to November 1.

**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-020.1 Extreme Hazard Abatement**

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

**S-030 Landing Debris Clean Up**

Landing debris shall be disposed of 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-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-100 Stream Cleanout**

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

**S-120 Stream Protection**

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

**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.

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 4 to 6 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, the Contractor is responsible for notifying the following:

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

DNR Contract Administrator

ECY - Northwest Region:

1-425-649-7000

(Island, King, Kitsap, San Juan, Skagit, Snohomish, and Whatcom counties)

ECY - Southwest Region:

1-360-407-6300

(Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, and Wahkiakum counties)

ECY - Central Region:

1-509-575-2490

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

ECY - Eastern Region:

1-509-329-3400

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

### **S-131.1 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.

### **S-140.1 Fence Repair**

Contractor shall immediately repair all fence damage resulting from operations on this sale to an equal or better condition than existed at the time of sale.

## **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, where species are mixed, or are over 1" out of tolerance of scaling diameter, and logs not meeting the minimum length requirements as designated for this contract, and unless otherwise indicated, logs containing blue stain are considered mis-sorts.

Mis-sorted log volume will be considered on a per load basis. When mis-sorts amount to more than 5% 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 5%, 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, and logs not meeting minimum log quality specifications for sweep, peeler sorts, untrimmed limbs and knots as described in the G-024.1 clause 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 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-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.

**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 Units 1, 2, 3, 4, 5, 6 and 7.

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

STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

\_\_\_\_\_  
Purchaser

\_\_\_\_\_  
Loren D. Torgerson  
Northeast Region Manager

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Address:

CORPORATE ACKNOWLEDGEMENT

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  
Additional Road Maintenance Payment Rates

ADDITIONAL ROAD MAINTENANCE PAYMENT RATES  
(Hourly Rate Including Operator)

Motor Grader

- To 140 HP (Cat 120H, 120M) \$128.00
- To 175 HP (John Deere 670D, 670G, 672D, G & Cat 12M & Volvo G930 & Komatsu GD-655-3) \$139.00
- To 200 HP (John Deere 772 & Cat 140M & Volvo G940 & Komatsu GD675-3) \$162.00
- Over 200 HP (Cat 160M, 14M, 16H & Komatsu GD-825A-2) \$216.00

Ripper/Scarifier Use

- To 140 HP \$4.00
- To 175 HP \$6.00
- Over 175 HP \$10.00

Front End Loaders & Loader/Backhoe

- To 75 HP (Cat 416D, Cat 416E & Komatsu WB142-2) \$79.00
- To 110 HP (Cat 420E & Case 580, 590 & Cat 908H, 914G & John Deere 344J) \$91.00
- To 160 HP (Cat 450E, Cat 924H, 930H & Hyundai HL 730-9 & John Deere 524K) \$111.00
- Over 160 HP (John Deere 624K & Case 621E & Cat 938H, 950H, 966K) \$136.00
- Addition for special attachment use: compactor, clam, extendaboom, etc. add \$6.50

Gravel Trucks

- Dual Rear Axle \$98.00
- 5-axle Combination End Dump & End Dump Trailer \$115.00
- 5-axle Tractor & Belly Dump Trailer \$115.00

Dozers

- To 75 HP (Case 650K & Cat D3K XL) \$105.00
- To 105 HP (Cat D4K, D5K & Case 750K, 850K & John Deere 450J, 550J, 650J & Komatsu D37EX-22) \$114.00
- To 135 HP (Cat D6K & Case 1150K, John Deere 700J & Komatsu D51EX-22) \$139.00
- To 185 HP (John Deere 750J & Case 1650, 1850 & Cat D6N & Komatsu D61EX-15) \$168.00
- To 240 HP (Cat D6T, D7E & John Deere 850J & Komatsu D65EX-15) \$201.00
- Over 240 HP (Cat D8T & John Deere 950J) \$280.00

Ripper Use

To 180 HP add \$7.50  
To 235 HP add \$12.50  
Over 235 HP add \$20.00

**Excavators**

To 60 HP (Kubota U45, U55 & John Deere 50D & Hitachi 50U & Cat 307D) \$75.00  
To 95 HP (Cat 312D, 314D & Doosan 140LCV & Hitachi 120-3, 135US-3 & Link-Belt 135 & Komatsu PC120-6, PC130-8 & John Deere 120D, 135D) \$120.00  
To 120 HP (Cat 315D & John Deere 160LC & Doosan 175LCV & Komatsu PC160LC-8 & Link-Belt 160 LX & Volvo EC160C L) \$132.00  
To 140 HP (Cat 319D L, 320C & Hitachi 160LC-3 & Link-Belt 210LX) \$157.00  
To 170 HP (Cat 320D & Hitachi 200LC-3, 225LCV & Link-Belt 240 LX & Komatsu PC200-8, PC220LC-8 & John Deere 225D LC & Volvo EC240C) \$182.00  
To 230 HP (Cat 324D, 324E, 328D, 329D & John Deere 240D, 270D, 290G & Hitachi 240LC-3, 270LC-3 & Link-Belt 290 LX RB & Volvo EC290C & Komatsu PC270LC-8) \$252.00  
Over 230 HP (Cat 330D, 336D & Volvo EC330C & John Deere 330C, 330D & Komatsu PC300LC-8, C350LC-8 & Link-Belt 330LX, 350 X2 & Hitachi 330LC, 350LC-3) \$284.00  
Add Excavator Attachment Rate to Excavator \$30.00

**Self-Propelled Vibratory Compactors**

To 80 HP (Bomag BW145DH-40, BW177D-40 & Dynapac CA150D & Sakai 201D & Ing. Rand SD45F TF) \$88.00  
To 125 HP (Bomag BW177PDBH-40 & Cat CP-433E & Sakai SV400D-II & Dynapac CA152D) \$103.00  
Over 125 HP (Bomag BW211PD-40 & Dynapac CA262D & Ing. Rand SD105DA TF & Sakai SV505D-1) \$115.00

**Tractor Brush Cutters**

To 67 PTO HP \$65.00  
To 80 PTO HP \$80.00  
Over 80 PTO HP (JD 6200, 6300, 6400) \$95.00

**Track Mounted Rock Drills (with one operator)**

To 3.5" Diameter Hole \$200.00  
Over 3.5" Diameter Hole \$235.00

**Heavy Equipment Hauling**

Truck and Tilt Trailer \$110.00  
Tractor and Lowbed Trailer, to 55,000 # payload \$123.00  
Tractor and Lowbed Trailer, over 55,000 # payload \$145.00

**DRAFT**

**DRAFT**

**DRAFT**

Water Trucks

To 3,000 gallons \$90.00

To 4,000 gallons \$100.00

Over 4,000 gallons \$105.00

Power Saws and Pumps \$10.00

Labor Wages (Woods Rate before loading) \$25.00

#### INSTRUCTIONS

HP taken at the Flywheel unless stated otherwise.

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.

Hourly rates include operator, owning and operating costs.

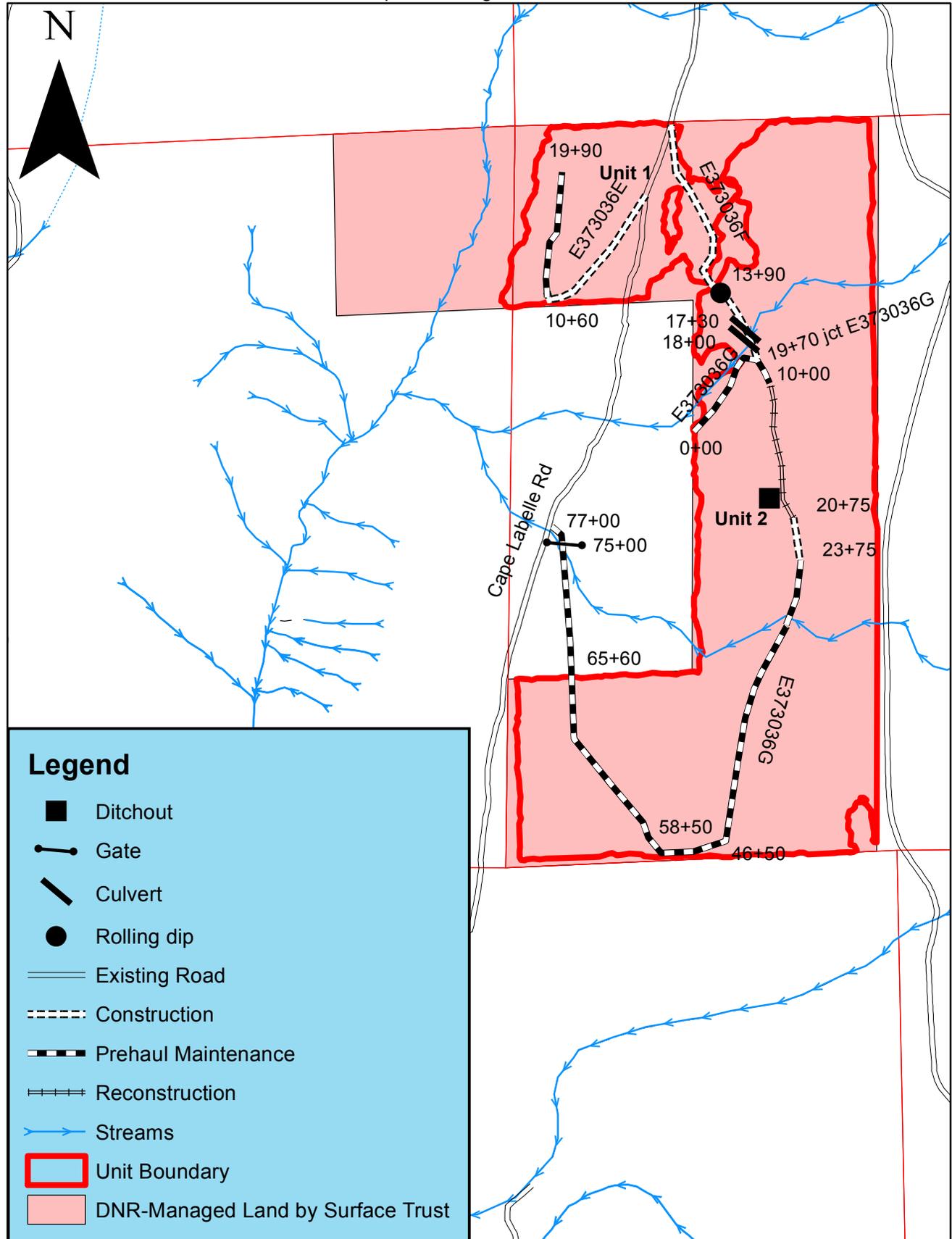
Rates include all costs of service and support vehicles.

Specification data, such as weight and flywheel HP can be determined upon request by providing equipment make and model information.

Rates on equipment not included in this schedule can be determined upon request.

Purchased materials, such as additional rock or additional culverts, not specifically tied to Clause P-027 and requested by the Contract Administrator will be reimbursed.

Rev. 8/1/2015



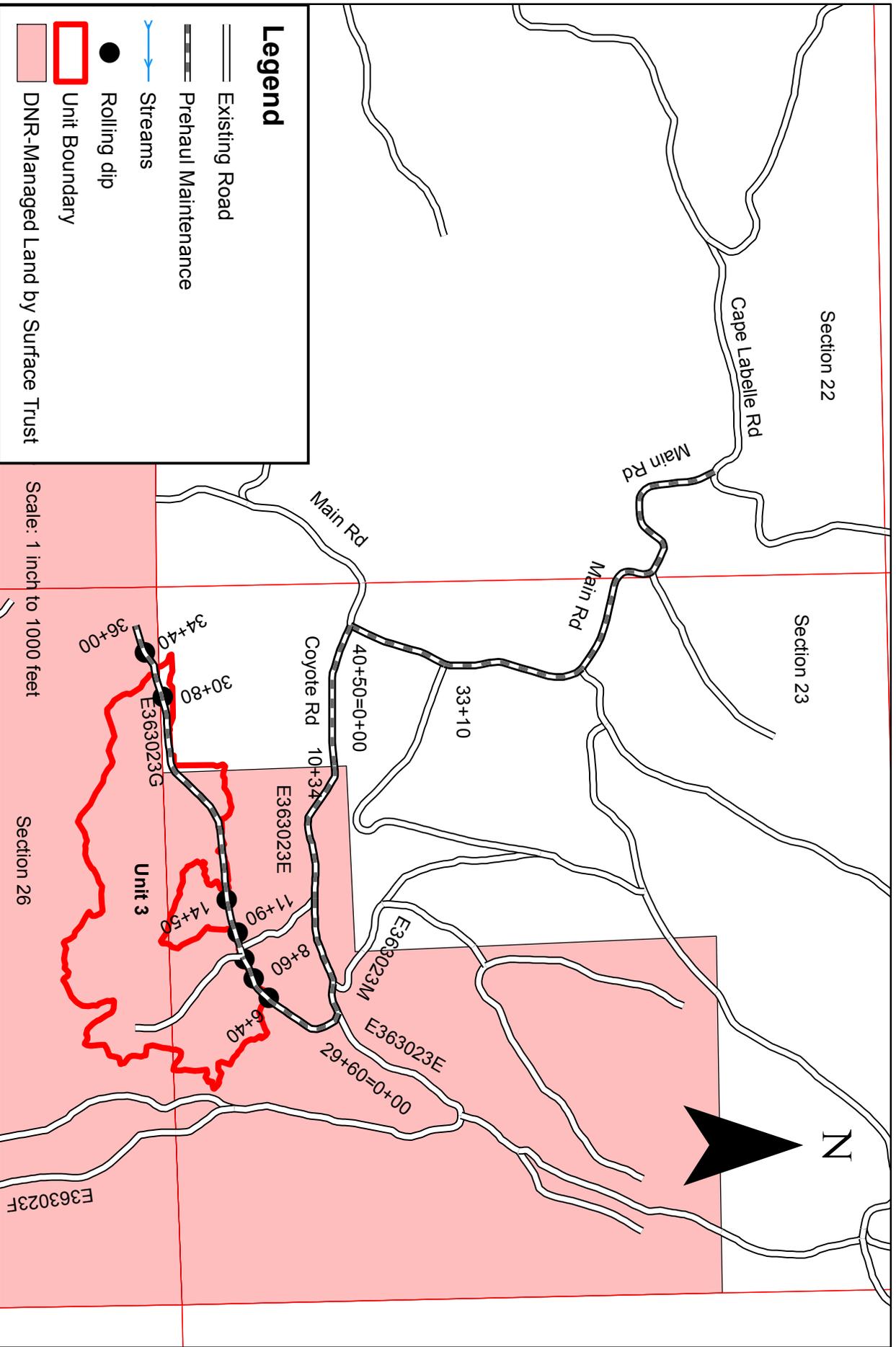
Washington State Department of Natural Resources

Cape Labelle Road Plan Map

Township 36 N Range 30 E W.M.

Trust: 03

Region: Northeast  
County: Okanogan

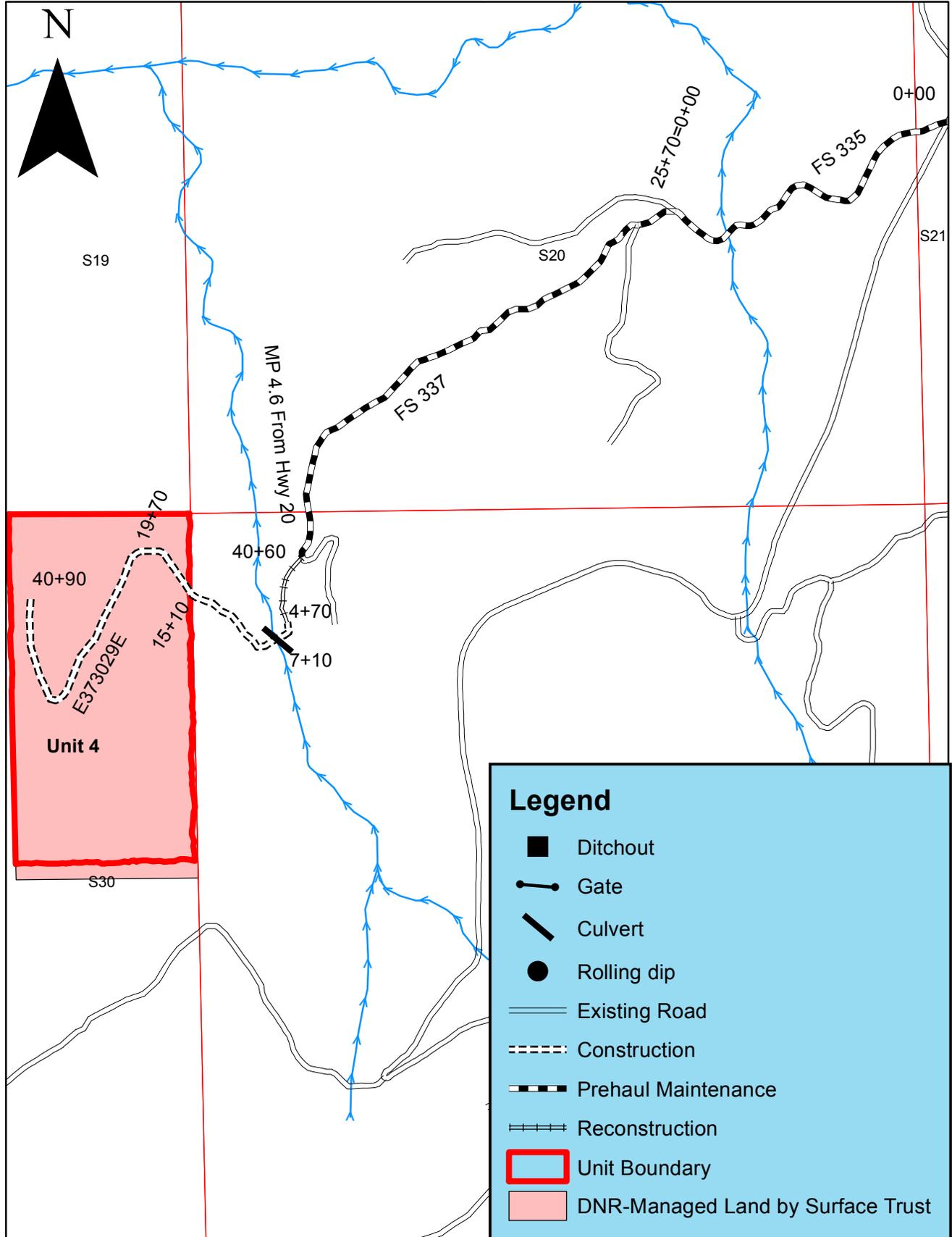


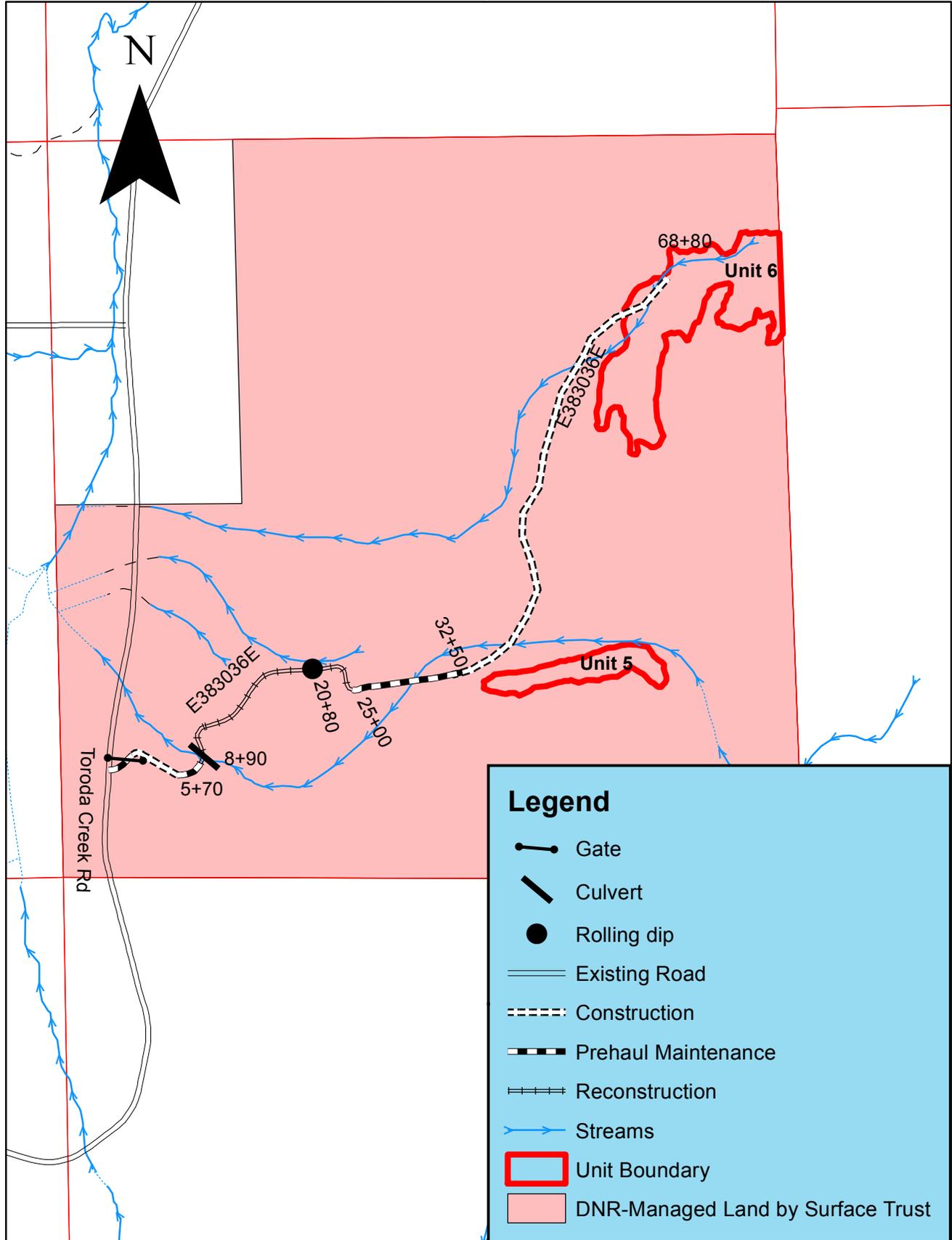
**Legend**

-  Existing Road
-  Prehaul Maintenance
-  Streams
-  Rolling dip
-  Unit Boundary
-  DNR-Managed Land by Surface Trust

Scale: 1 inch to 1000 feet

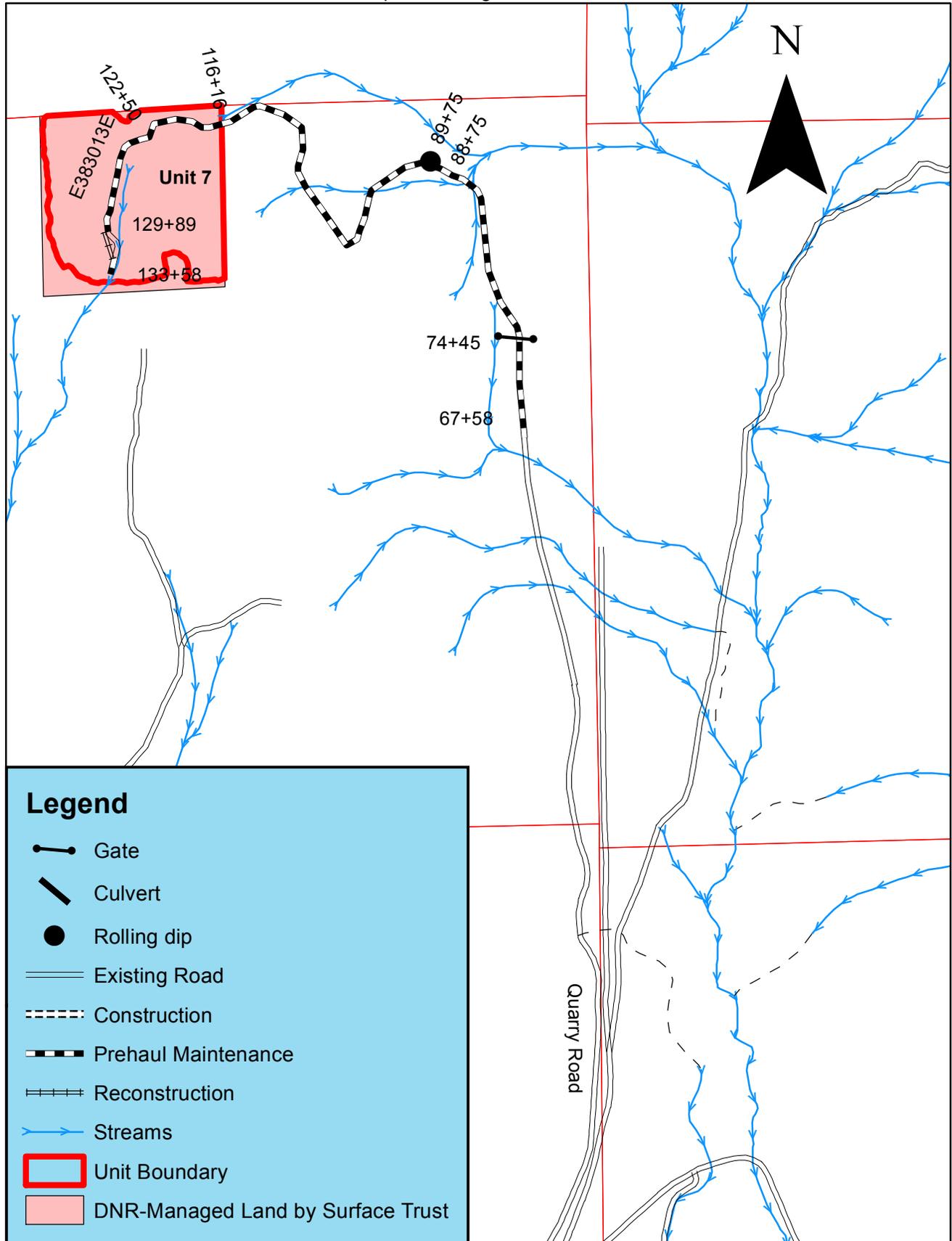






2,000 1,000 0 2,000 Feet Scale: 1 inch to 1000 feet

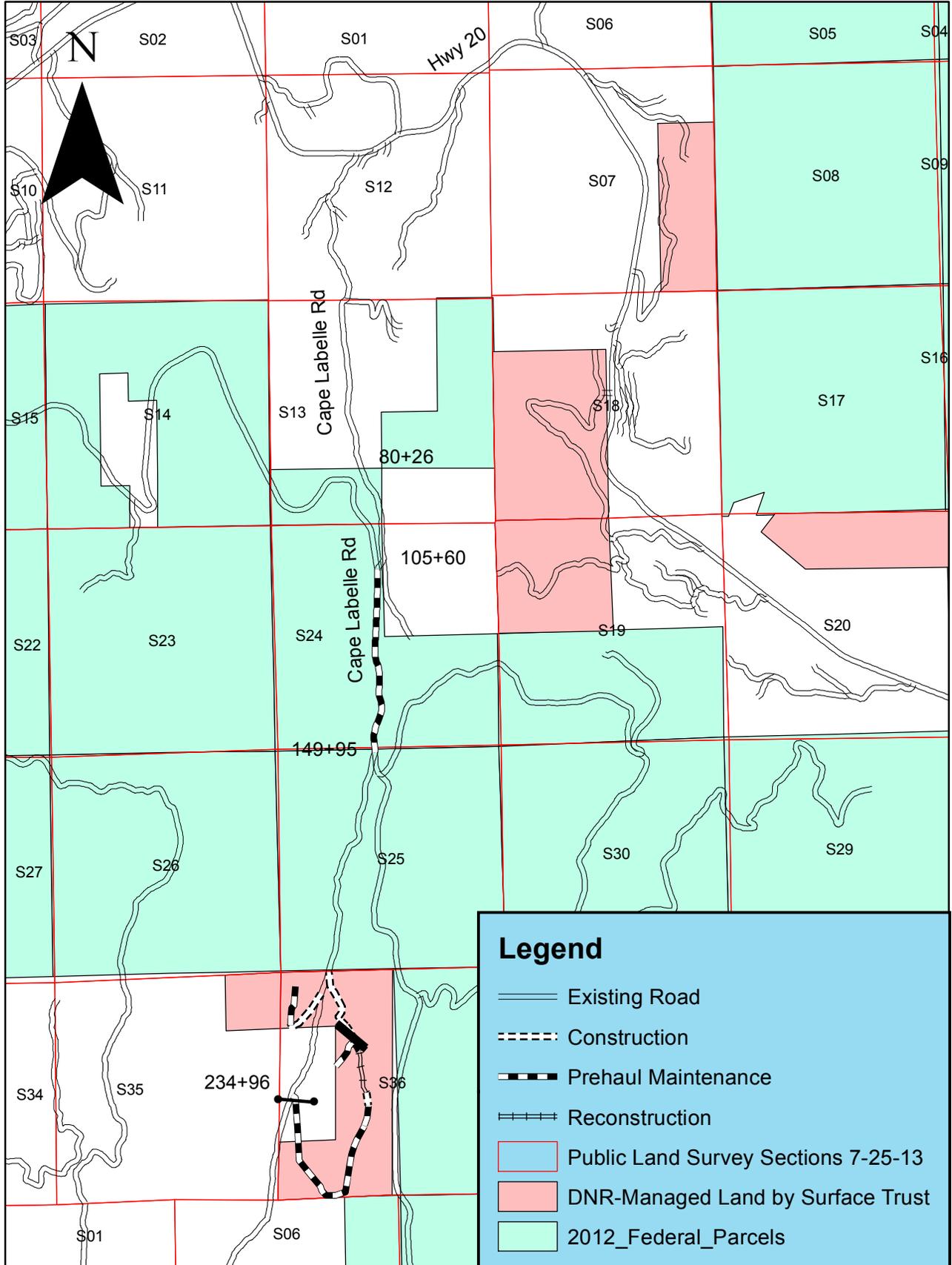




2,000 1,000 0

2,000 Feet Scale: 1 inch to 1000 feet



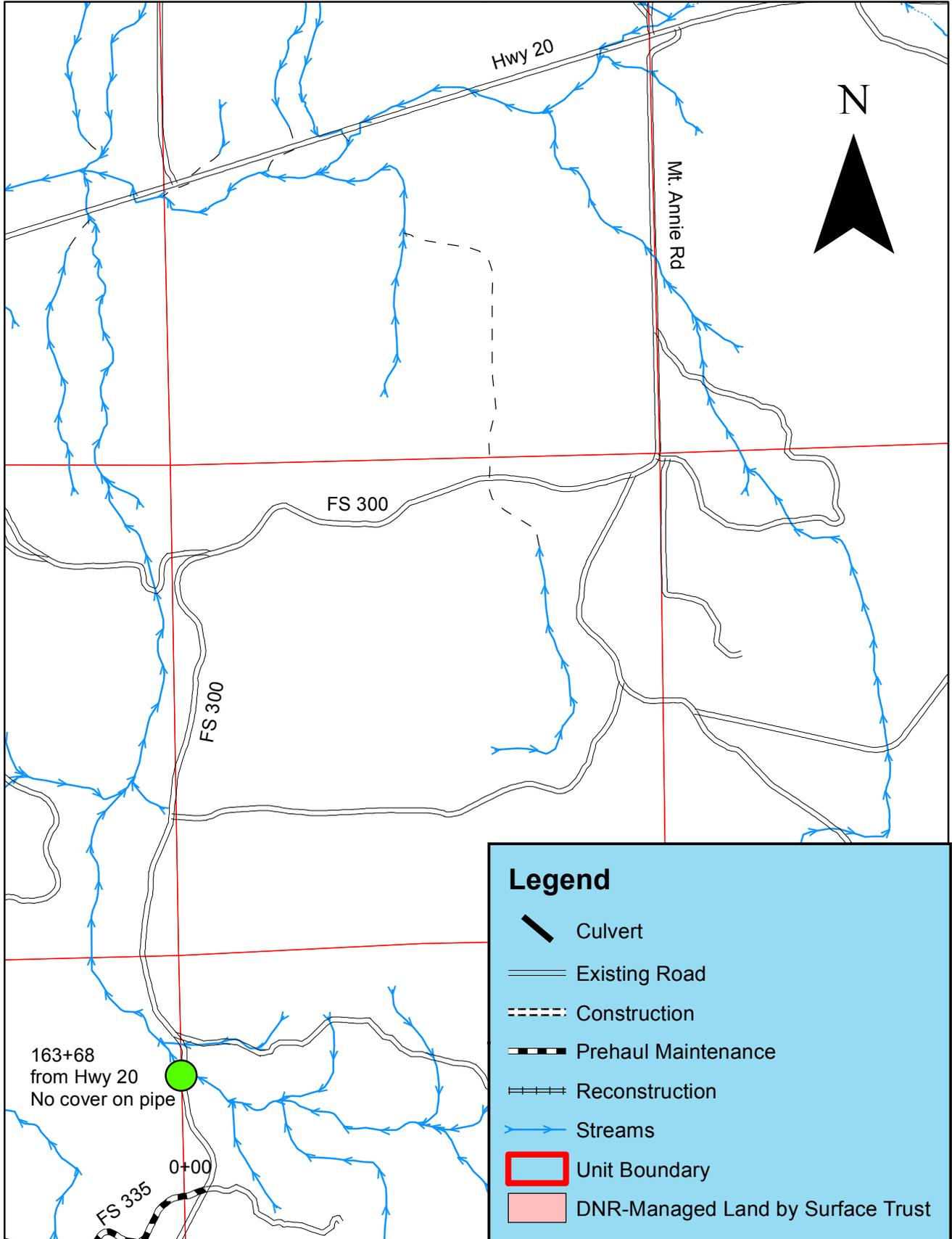


**Legend**

- Existing Road
- Construction
- Prehaul Maintenance
- Reconstruction
- Public Land Survey Sections 7-25-13
- DNR-Managed Land by Surface Trust
- 2012\_Federal\_Parcel

6,000 3,000 0 6,000 Feet Scale: 1:40,000





**Legend**

- Culvert
- Existing Road
- Construction
- Prehaul Maintenance
- Reconstruction
- Streams
- Unit Boundary
- DNR-Managed Land by Surface Trust



STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

CAPE LABELLE FIT TIMBER SALE ROAD PLAN  
OKANOGAN COUNTY  
HIGHLANDS DISTRICT

AGREEMENT NO.: 30-092773

STAFF ENGINEER: ERIC FORNER

DATE: 18 JUNE 2015

DRAWN & COMPILED BY: ERIC FORNER

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>
E363023E	10+34 – 29+60	Prehaul Maintenance
E363023G	0+00 – 36+00	Prehaul Maintenance
E373029E	0+00 – 4+70	Reconstruction
E373029E	4+70 – 15+10	Construction
E373029E	15+10 – 40+90	Construction
E373036E	0+00 – 10+60	Construction
E373036E	10+60 – 19+90	Prehaul Maintenance
E373036F	0+00 – 19+70	Construction
E373036G	0+00 – 10+00	Prehaul Maintenance
E373036G	10+00 – 20+75	Reconstruction
E373036G	20+75 – 23+75	Construction
E373036G	23+75 – 77+00	Prehaul Maintenance
E383013E	67+58 – 129+89	Prehaul Maintenance
E383013E	129+89 – 130+89	Reconstruction
E383013E	130+89 – 133+58	Prehaul Maintenance
E383036E	0+00 – 1+50	Prehaul Maintenance
E383036E	1+50 – 5+70	Construction
E383036E	5+70 – 8+90	Prehaul Maintenance
E383036E	8+90 – 25+00	Reconstruction
E383036E	25+00 – 32+50	Prehaul Maintenance
E383036E	32+50 – 68+80	Construction
FS 335	0+00 – 25+70	Prehaul Maintenance

FS 337	0+00 – 40+60	Prehaul Maintenance
Cape Labelle rd	105+60 – 149+95	Maintain as directed by CA
Coyote Rd	0+00 – 10+34	Prehaul Maintenance
Main Rd	0+00 – 40+50	Prehaul Maintenance

#### 0-4 CONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
E373029E	4+70 – 15+10	Cut and fill construction, Install 36"X36' culvert
E373029E	15+10 – 40+90	D&S probable through rock nose for 150 ft starting at 19+70 as slope staked and RP tagged, 50 ft D&S probable at 22+30, 50' D&S probable at 23+00, Rock
E373036E	0+00 – 10+60	Construct 60' radius curve at 10+60
E373036F	0+00 – 19+70	D&S from 1+60 – 3+10 and 10+00 – 11+30, Install rolling dip, Install culverts
E373036G	20+75 – 23+75	Rock, Join two road segments as flagged
E383036E	1+50 – 5+70	Construct 60' radius curve w/ dozer
E383036E	32+50 – 68+80	Road thru grass hard to see, flagged

#### 0-5 RECONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
E373029E	0+00 – 4+70	Brush, Blade & shape, Rock
E373036G	10+00 – 20+75	Brush, Blade & shape Rock, ditch, ditch out
E383013E	129+89 – 130+89	Brush, Straighten road
E383036E	8+90 – 25+00	Widen road, rock, install culvert, install rolling dip

#### 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>
E363023E	10+34 – 29+60	Brush, Blade & shape,

363023G	0+00 – 36+00	Brush, Blade & shape, Install Rolling dips
E373036E	10+60 – 19+90	Brush, Blade & shape
E373036G	0+00 – 10+00	Brush, Blade & shape
E373036G	23+75 – 77+00	Brush, Blade & shape, Install gate at 75+00
E383013E	67+58 – 129+89	Heavy Brush, Widen road, Cut and fill to lessen grade, Install rolling dip, Maintain existing gate at 74+45
E383013E	130+89 – 133+58	Heavy Brush, Widen road
E383036E	0+00 -1+50	Blade & shape, Maintain existing gate at 0+80
E383036E	5+70 – 8+90	Blade & shape
E383036E	25+00 – 32+50	Blade & shape
FS 335	0+00- 25+70	Brush, Blade & shape
FS 337	0+00 – 40+60	Brush, Blade & shape
Cape Labelle rd	105+60 - 149+95	Road grading as directed by the Contract Administrator
Coyote Rd	0+00 – 10+34	Brush, Blade and shape
Main Rd	0+00 – 40+50	Brush, Blade & shape, Ditch

**0-7 POST-HAUL MAINTENANCE**

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

**0-8 CLOSURE**

This project includes road closure listed in Clause 9-15 ROAD CLOSURE.

**SECTION 1 – GENERAL**

**1-1 ROAD PLAN CHANGES**

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

**1-2 UNFORESEEN CONDITIONS**

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

conditions include, but are not limited to, solid subsurface rock, subsurface springs, saturated ground, and unstable soils.

**1-3 ROAD DIMENSIONS**

Purchaser shall perform road work in accordance with the dimensions shown on the TYPICAL SECTION SHEET and the specifications within this road plan unless controlled by construction stakes.

**1-4 ROAD TOLERANCES**

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

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

**1-6 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.

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

**1-7 TEMPORARY ROAD CLOSURE**

Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before the closure of any road. Construction may not close any road for more than 21 consecutive calendar days.

**1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS**

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

**1-9 DAMAGED METALLIC COATING**

Any 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.

**1-15 ROAD MARKING**

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

- Orange ribbon for road grade, centerline, or rock.
- Blue ribbon for drainage.

**1-16 CONSTRUCTION STAKES SET BY STATE**

Purchaser shall perform work on the following road(s) in accordance with the construction stakes and reference points set in the field for grade and alignment.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
E373029E	19+20 – 20+20	Thru cut marked by stakes and RP tags

**1-18 REFERENCE POINT DAMAGE**

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

**1-20 COMPLETE BY DATE**

Purchaser shall complete pre-haul road work before the start of timber haul.

**1-21 HAUL APPROVAL**

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

**1-22 WORK NOTIFICATIONS**

Purchaser shall notify the Contract Administrator a minimum of 14 calendar days before work begins.

**1-25 ACTIVITY TIMING RESTRICTION - SEE CONTRACT**

**1-26 OPERATING DURING CLOSURE PERIOD**

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION or Contract Clause H-130 HAULING SCHEDULE, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period.

Purchaser is required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these designated maintainer roads, a joint operating plan must be developed. All parties shall follow this plan.

**1-29 SEDIMENT RESTRICTION**

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

**1-30 CLOSURE TO PREVENT DAMAGE**

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

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

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

**1-33 SNOW PLOWING RESTRICTION**

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

**1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS**

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

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

**1-41 REQUIREMENTS FOR PAVED ROAD APPROACHES**

Requirements for the Toroda Creek road approaches:

Purchaser shall build up approaches to allow a smooth grade transition between the E383036E and Toroda Creek roads. The top of the E383036E road surfacing must be kept level with the surface of the Toroda Creek road at all times. The surface of the E383036E approach must slope from the edge of the Toroda Creek road at the rate of 2 inches per foot for a distance of 10 feet, unless otherwise directed by the Contract Administrator or as shown in the approach permit.

**1-43 ROAD WORK AROUND UTILITIES**

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

<u>Road</u>	
Coyote Rd	Sun Ranch area
Main Rd	Sun Ranch area
Toroda cr. rd	Wauconda area

SECTION 2 – MAINTENANCE

**2-1 GENERAL ROAD MAINTENANCE**

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

**2-4 PASSAGE OF LIGHT VEHICLES**

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

**2-5 MAINTENANCE GRADING – EXISTING ROAD**

Purchaser shall use a grader to shape the existing surface before haul. Purchaser shall accomplish all grading using a motor grader with a minimum of 175 horsepower.

**2-6 CLEANING CULVERTS**

Purchaser shall clean the inlets and outlets of all culverts and shall obtain written approval from the Contract Administrator before timber haul.

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

Purchaser shall clean ditches, headwalls, and catchbasins. Work must be completed before timber haul and must be done in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL.

## SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

### **3-1 BRUSHING**

Purchaser shall cut vegetative material up to 3 inches in diameter, including limbs, as shown on the BRUSHING DETAIL. Brushing must be achieved by manual or mechanical cutting of brush, trees, and branches. Root systems and stumps of cut vegetation may not be disturbed unless directed by the Contract Administrator. Purchaser shall remove brushing debris from the road surface, ditchlines, and culvert inlets and outlets.

### **3-2 BRUSHING RESTRICTION**

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal may not be used for brushing. Purchaser shall submit a detailed list of equipment and methods to be used during brushing, for approval by the Contract Administrator before starting work. Excavator buckets, log loaders and similar equipment may not be used for brushing unless otherwise approved in writing by the Contract Administrator.

### **3-5 CLEARING**

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

### **3-7 RIGHT-OF-WAY DECKING**

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

### **3-8 PROHIBITED DECKING AREAS**

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

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

### **3-10 GRUBBING**

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET and within waste and debris areas. Purchaser shall also remove stumps

with undercut roots outside the grubbing limits. Purchaser shall remove stumps using a hydraulic mounted excavator unless authorized in writing by the Contract Administrator. Stumps over 22 inches diameter must be split. Stumps over 40 inches must be quartered. Grubbing must be completed before starting excavation and embankment.

**3-12 STUMP PLACEMENT**

Purchaser shall place grubbed stumps adjacent to the road shoulder and 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. Purchaser shall place stumps in 6-foot high rows.

**3-14 STUMPS WITHIN DESIGNATED WASTE AREAS**

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

**3-20 ORGANIC DEBRIS DEFINITION**

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

**3-21 DISPOSAL COMPLETION**

Purchaser shall remove organic debris from the road surface, ditchlines, and culvert inlets and outlets. Purchaser shall complete all disposal of organic debris, except by burning, before end of haul.

**3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS**

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

**3-23 PROHIBITED DISPOSAL AREAS**

Purchaser shall not place organic debris in the following areas:

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream, or wetland ,unless used to comply with the specifications detailed in the Riparian Strategy
- On road subgrades, or excavation and embankment slopes.
- On slopes greater than 40%.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

**3-24 BURYING ORGANIC DEBRIS RESTRICTED**

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

**3-30 EXCLUSION OF DOZER BLADES**

Purchaser shall not use dozer blades for the piling of organic debris.

**3-31 PILING**

Purchaser shall pile organic debris no closer than 20 feet from standing timber and no higher than 10 feet in areas specified in Clause 3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS. Piles must be free of rock and soil.

**SECTION 4 – EXCAVATION**

**4-1 EXCAVATOR CONSTRUCTION**

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

**4-2 PIONEERING**

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

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

**4-3 ROAD GRADE AND ALIGNMENT STANDARDS**

Purchaser shall follow these standards for road grade and alignment:

- Grade and alignment must have smooth continuity, without abrupt changes in direction.
- Maximum grades may not exceed 18 percent favorable and 12 percent adverse.
- Minimum curve radius is 60 feet at centerline.
- Maximum grade change for sag vertical curves is 5% in 100 feet.
- Maximum grade change for crest vertical curves is 4% in 100 feet.

**4-4 SWITCHBACK STANDARDS**

A switchback is defined as a curved segment of road between a beginning and end of the same curve, where the change of traffic travel direction is greater than 90 degrees.

Purchaser shall follow these standards for switchbacks:

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

#### 4-5 CUT SLOPE RATIO

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

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

#### 4-6 EMBANKMENT SLOPE RATIO

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

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

#### 4-7 SHAPING CUT AND FILL SLOPE

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

#### 4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

#### 4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

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

#### 4-10 WIDEN THE EXISTING SUBGRADE

Purchaser shall widen the subgrade and fill slopes to the dimensions shown on the TYPICAL SECTION SHEET. If necessary, Purchaser shall reconstruct excavation slopes to

provide sufficient width for the road surface and any ditches. Pulling excavation material across the road or mixing in with the existing road surface is not allowed.

**4-12 FULL BENCH CONSTRUCTION**

Where side slopes exceed 55%, Purchaser shall use full bench construction for the entire subgrade width

**4-14 ONE-FOOT EXCAVATION LIMIT**

Purchaser shall not exceed a one-foot cut at centerline unless approved by the Contract Administrator.

**4-21 TURNOUTS**

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

**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**

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

**4-28 DITCH DRAINAGE**

Ditches must drain to cross-drain culverts or ditchouts.

**4-29 DITCHOUTS**

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

**4-35 WASTE MATERIAL DEFINITION**

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

**4-36 DISPOSAL OF WASTE MATERIAL**

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 45%, all waste

material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

**4-37 WASTE AREA LOCATION**

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

**4-38 PROHIBITED WASTE DISPOSAL AREAS**

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

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- On side slopes steeper than 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.
- Outside the clearing limits.
- Waste Disposal areas are subject to written approval from the Contract Administrator

**4-45 SELECT BORROW**

Select borrow consists of granular material, either naturally occurring or processed, and contains no more than 5% clay, organic debris, or trash by volume.

**4-46 COMMON BORROW**

Common borrow consists of soil, and/or aggregate that is non-plastic and contains no more than 5% clay, organic debris, or trash by volume. The material is considered non-plastic if the fines in the sample cannot be rolled, between the hand and a smooth surface, into a thread at any moisture content.

**4-47 NATIVE MATERIAL**

Native material consists of naturally occurring material that is free of organic debris, trash, and rocks greater than 6 inches in any dimension.

**4-48 BORROW MATERIAL**

Borrow material may not contain more than 5% clay, organic debris, or trash by volume.

**4-49 BORROW SOURCE**

Purchaser may obtain borrow material from borrow sources identified or approved by the Contract Administrator. Development of the borrow source must be in accordance with a written BORROW SOURCE DEVELOPMENT PLAN to be submitted by the Purchaser and approved in writing by the Contract Administrator.

**4-50 BORROW APPLICATION**

Purchaser shall apply borrow in accordance with quantities shown on the ROCK LIST. Borrow must be spread, shaped, and compacted full width concurrent with hauling operations.

**4-55 ROAD SHAPING**

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

**4-56 DRY WEATHER SHAPING**

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

**4-60 FILL COMPACTION**

Purchaser shall compact all embankment and waste material 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 segments too narrow to accommodate equipment. Waste material may be placed by end-dumping or sidecasting until sufficiently wide enough to support the equipment.

**4-61 SUBGRADE COMPACTION**

Purchaser shall compact constructed and reconstructed subgrades deeper than 5 feet at the road shoulder by routing equipment over the entire width except ditch. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before haul.

**4-62 DRY WEATHER COMPACTION**

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

**4-63 EXISTING SURFACE COMPACTION**

Purchaser shall compact maintained road surfaces by routing equipment over the entire width.

**SECTION 5 – DRAINAGE**

**5-5 CULVERTS**

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction

and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT AND DRAINAGE LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly on unprotected soil. Culverts must be new material and meet the specifications in Clauses 10-15 through 10-23.

**5-11 UNUSED MATERIALS STATE PROPERTY**

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

**5-15 CULVERT INSTALLATION**

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

**5-16 APPROVAL FOR LARGER CULVERT INSTALLATION**

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

**5-17 CROSS DRAIN SKEW AND SLOPE**

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

**5-18 CULVERT DEPTH OF COVER**

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

**5-20 ENERGY DISSIPATERS**

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all culverts on the CULVERT AND DRAINAGE 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 AND DRAINAGE SPECIFICATION DETAIL .

**5-25 CATCH BASINS**

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

**5-26 HEADWALLS FOR CROSS DRAIN CULVERTS**

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

**5-30 DRIVABLE WATERBAR CONSTRUCTION**

Purchaser shall construct drivable waterbars in accordance with the DRIVABLE WATERBAR DETAIL and as specified on the CULVERT AND DRAINAGE LIST and as marked in the field. Drivable waterbars must be installed concurrently with construction of the subgrade and must be maintained in an operable condition.

**5-31 ROLLING DIP CONSTRUCTION**

Purchaser shall construct rolling dips in accordance with the ROLLING DIP DETAIL and as specified on the CULVERT AND DRAINAGE LIST and as marked in the field. Rolling dips must be installed concurrently with construction of the subgrade and must be maintained in an operable condition.

**5-33 NATIVE SURFACE ROADS**

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

**SECTION 6 – ROCK AND SURFACING**

**6-1 ROCK SOURCE NOT ON STATE LAND**

Rock used in accordance with the quantities on the ROCK LIST may be obtained from source(s) on private land at the Purchaser's expense. Purchaser shall notify the Contract Administrator a minimum of 5 calendar days before starting any operations.

Purchaser shall obtain written approval from the Contract Administrator for the use of material from any alternate source.

**6-5 ROCK FROM COMMERCIAL SOURCE**

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

<u>Possible Source</u>	<u>Location</u>
Wauconda Quarry	411 Toroda Creek Road

**6-14 DRILL AND SHOOT**

Rock drilling and shooting must meet the following specifications:

- Oversize material remaining in the rock source at the conclusion of the timber sale may not exceed 5% of the total volume mined in that source.
- Oversize material is defined as rock fragments too large to be converted by the Purchaser to a size that will meet specifications used for the roads in this sale.
- Oversized rock that exceeds the maximum allowable amount must be removed from working areas.
- Purchaser shall notify the Contract Administrator a minimum of 10 working days before blasting operations.
- Purchaser shall submit an informational drilling and shooting plan to the Contract Administrator 10 working days before any drilling (Form #M-126PAC).
- All operations must be carried out in compliance with the Regulations and Standards Applicable to Metal and Nonmetal Mining and Milling Operations (30 CFR) U.S. Department of Labor, Mine Safety and Health Administration and the Safety Standards for Construction Work (296-155 WAC), Washington Department of Labor and Industries.
- Purchaser shall block access roads and trails before blasting operations.

**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.

**6-34 3-INCH MINUS BALLAST ROCK**

Ballast rock must be 100% equal to, or smaller than, 3 inches in at least one dimension.

Rock may contain no more than 5 percent organic debris, dirt, and trash. All percentages are by weight.

**6-41 SELECT PIT RUN ROCK**

No more than 50 percent of the rock may be larger than 8 inches in any dimension and no rock may be larger than 12 inches in any dimension. Select Pit Run rock may not

contain more than 5 percent by weight of organic debris, dirt, and trash. Rock may require processing to meet this specification.

**6-42 CLEAN ROCK, SHOT OR RIPPABLE BALLAST**

No more than 10 percent of the rock by weight may exceed 8 inches in any dimension and no rock may be larger than 12 inches in any dimension. Shot or Rippable Ballast rock may not contain more than 5 percent by weight of organic debris, dirt, and trash.

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

**6-50 LIGHT LOOSE RIP RAP**

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

<u>At Least/Not More Than</u>	<u>Size Range</u>
20% / 90%	20" - 36"
80% / --	12" - 30"
10% / 20%	3" - 8"

**6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH**

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

**6-70 APPROVAL BEFORE ROCK APPLICATION**

Purchaser shall obtain written approval from the Contract Administrator for rock quality before rock application.

**6-71 ROCK APPLICATION**

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

**6-80 WATERING FOR DUST ABATEMENT**

Purchaser shall use water for dust abatement as directed by the Contract Administrator.

**7-70 GATE CLOSURE**

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

<u>Road</u>	<u>Station</u>	<u>Comment</u>
E383013E	MP 1.41	Existing 16 foot gate
E383036E	0+50	Existing stretch gate

**7-71 GATE CLOSURE DURING HAUL**

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

**7-76 GATE INSTALLATION**

Purchaser shall install the listed gate(s). Gate installations must be installed within 30 days of end of haul.

<u>Road</u>	<u>Station</u>	<u>Type*</u>	<u>Provided by</u>
E373036G	75+00	Metal gate	State

Metal gate installation(s) must be in accordance with the METAL GATE DETAIL.

The gate and lock box must be installed plumb and aligned to ensure all mating components match with precision. The gate must be installed with a post and locking device to allow the gate to be locked in an open position. The Contract Administrator will provide Purchaser with a padlock.

If Purchaser wishes to install an alternate design, detailed plans for the construction of the gate must be submitted to the Contract Administrator. Purchaser shall obtain written approval for the plans from the Contract Administrator or their designee, before gate installation begins.

Purchaser shall provide and place 10 cubic yards of stumps to prevent vehicles driving around the gate.

**7-77 GATE SUPPLIED BY STATE**

A gate with lock box is located at Highlands Fire Camp. After making arrangements through the Contract Administrator, Purchaser shall transport the gate, tie-back post, and lock box to the installation site.

**SECTION 9 – POST-HAUL ROAD WORK**

**9-1 EARTHEN BARRICADES**

Purchaser shall construct barricades in accordance with the SPOILS BERM DETAIL.

<u>Road</u>	<u>Stations</u>
E373036F	0+30

**9-3 CULVERT MATERIAL REMOVED FROM STATE LAND**

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

**9-5 POST-HAUL MAINTENANCE**

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

**9-10 LANDING DRAINAGE**

Purchaser shall provide for drainage of the landing surface.

**9-15 ROAD CLOSURE**

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
E373036F	0+00 – 19+70	Close road

**SECTION 10 MATERIALS**

**10-15 CORRUGATED STEEL CULVERT**

Metallic coated steel culverts must meet AASHTO M-36 (ASTM A-760) specifications. Culverts must be galvanized (zinc coated meeting AASHTO M-218) except culverts over 24 inches must be aluminized (aluminum type 2 coated meeting AASHTO M-274).

**10-16 CORRUGATED ALUMINUM CULVERT**

Aluminum culverts must meet AASHTO M-196 (ASTM A-745) specifications.

**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.

**10-18 CORRUGATED STEEL STRUCTURAL PLATE**

Structural plate culverts must be galvanized steel meeting AASHTO M-167 (ASTM A-761) specifications.

**10-19 CORRUGATED ALUMINUM STRUCTURAL PLATE**

Structural plate culverts must be aluminum alloy meeting AASHTO M-219 (ASTM A-746) specifications.

**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.

**10-23 RUBBER CULVERT GASKETS**

Rubber gaskets must be continuous closed cell, synthetic expanded rubber gaskets conforming to the requirements of ASTM D 1056. Rubber gaskets must be used with all corrugated metal pipe coupling bands.

**10-24 GAGE AND CORRUGATION**

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

<u>Diameter</u>	<u>Gage</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"
54" to 96"	14 (0.079")	3" X 1"

## FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

### Cuts and Fills

- Maintain slope lines as constructed. 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 as directed, 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 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 and culverts 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.

### Structures

- Repair culverts, bridges, gates, fences, cattle guards, signs, and other road structures as required because of purchaser use.

### Preventative Maintenance

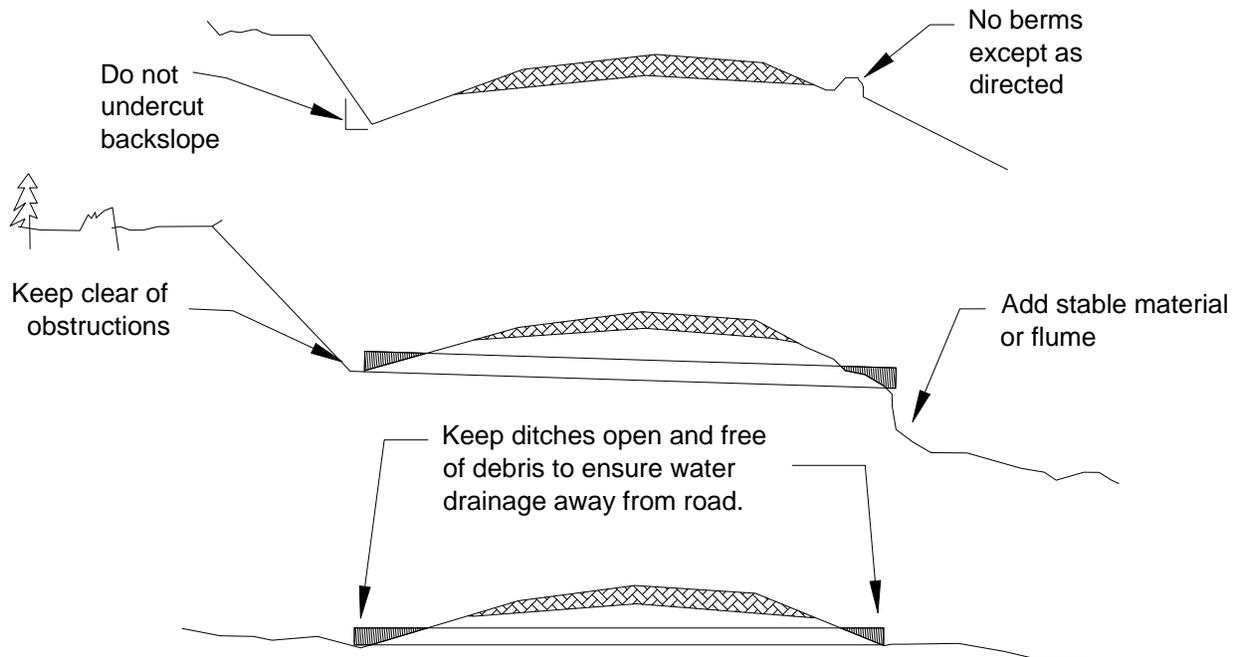
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

### 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.

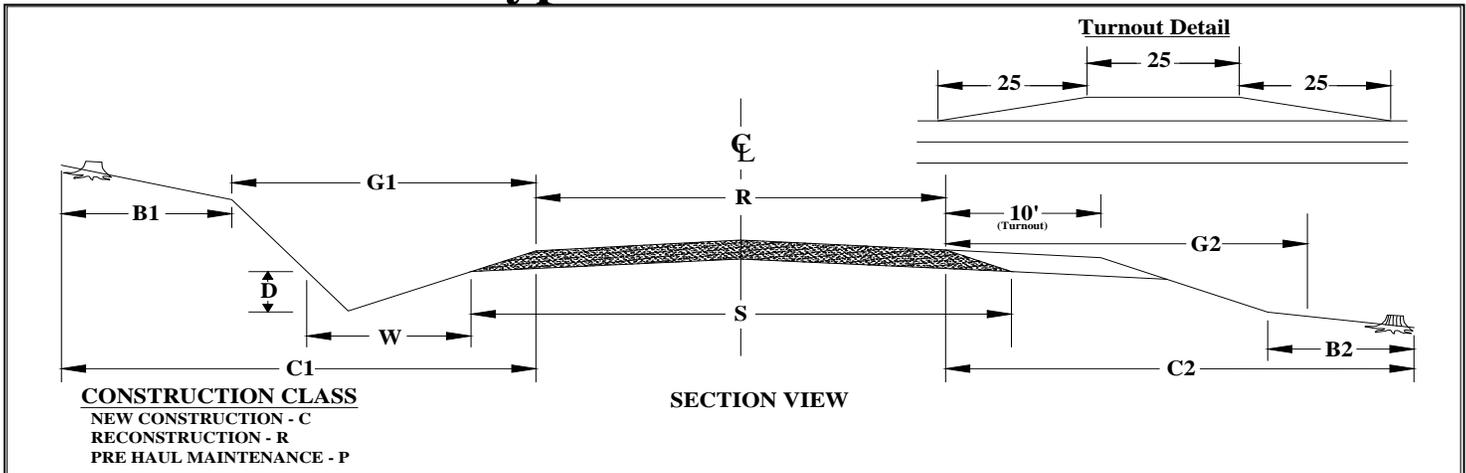


State of Washington  
 Department of Natural Resources

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# Typical Section Sheet



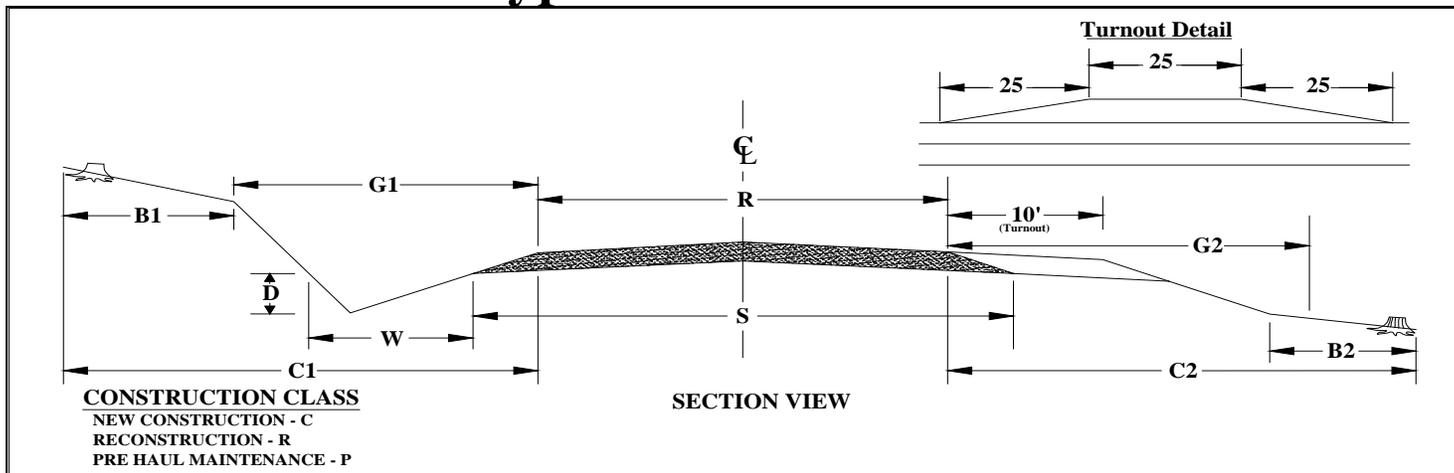
ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	INSLOPE "/>10'	OUTSLOPE "/>10'	CROWN " AT CL	DITCH WIDTH (W)	DITCH DEPTH (D)	DITCH 2 SIDES	DITCH SIDE (L Left R Right)	DITCHOUT	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (B1)	ROAD FILL CLEARING (B2)	R/W CUT CLEARING (C1)	R/W FILL CLEARING (C2)
E363023E	10+34	29+60	P		12			3	3	1				3	3	5	5	10	10
E363023G	0+00	36+00	P		12									3	3	5	5	10	10
E373029E	0+00	4+70	R		14		4							3	3	5	5	10	10
E373029E	4+70	40+90	C		14		4							3	3	5	5	10	10
E373036E	0+00	10+60	C		14		4							3	3	5	5	10	10
E373036E	10+60	19+90	P		12		4											6	6
E373036F	0+00	19+70	C		14		4							3	3	5	5	10	10
E373036G	0+00	10+00	P		12		4							3	3			6	6
E373036G	10+00	18+75	R		14		4							3	3			6	6
E373036G	18+75	19+75	R		14			3	3	1				3	3	5	5	10	10
E373036G	19+75	20+75	R		14		4							3	3	5	5	10	10
E373036G	20+75	23+75	C		14		4							3	3	5	5	10	10
E373036G	23+75	65+60	P		12		4							3	3	5	5	10	10
E373036G	65+60	77+00	P		12	only remove ORANGE banded trees for this section of rd													
E383013E	67+58	116+16	P		12	only remove ORANGE banded trees for this section of rd													
E383013E	116+16	129+89	P		12		4							3	3			6	6
E383013E	129+89	130+89	R		14		4							3	3			6	6
E383013E	130+89	133+58	P		12		4							3	3			6	6
E383036E	0+00	1+50	P		12		4											6	6
E383036E	1+50	5+70	C		14		4							3	3	5	5	10	10
E383036E	5+70	8+90	P		12		4											10	10
E383036E	8+90	25+00	R		14		4							3	3	5	5	10	10

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# Typical Section Sheet



ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	INSLOPE "/>10'	OUTSLOPE "/>10'	CROWN " AT CL	DITCH WIDTH (W)	DITCH DEPTH (D)	DITCH 2 SIDES	DITCH SIDE (L Left R Right)	DITCHOUT	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (B1)	ROAD FILL CLEARING (B2)	R/W CUT CLEARING (C1)	R/W FILL CLEARING (C2)
E383036E	25+00	32+50	P		12		4							3	3			6	6
E383036E	32+50	68+80	C		14		4							3	3	5	5	10	10
Coyote Rd	0+00	10+34	P		12			3	3	1									
FS 335	0+00	25+70	P		12	Brush only. Do Not cut merch wood													
FS 337	0+00	40+60	P		12	Brush only. Do Not cut merch wood													
Main Rd	0+00	40+50	P		12									3	3	5	5	10	10
Cape Labelle rd	105+60	149+95	P	Maintain as directed by the Contract Administrator															

Date: 07-19-2015

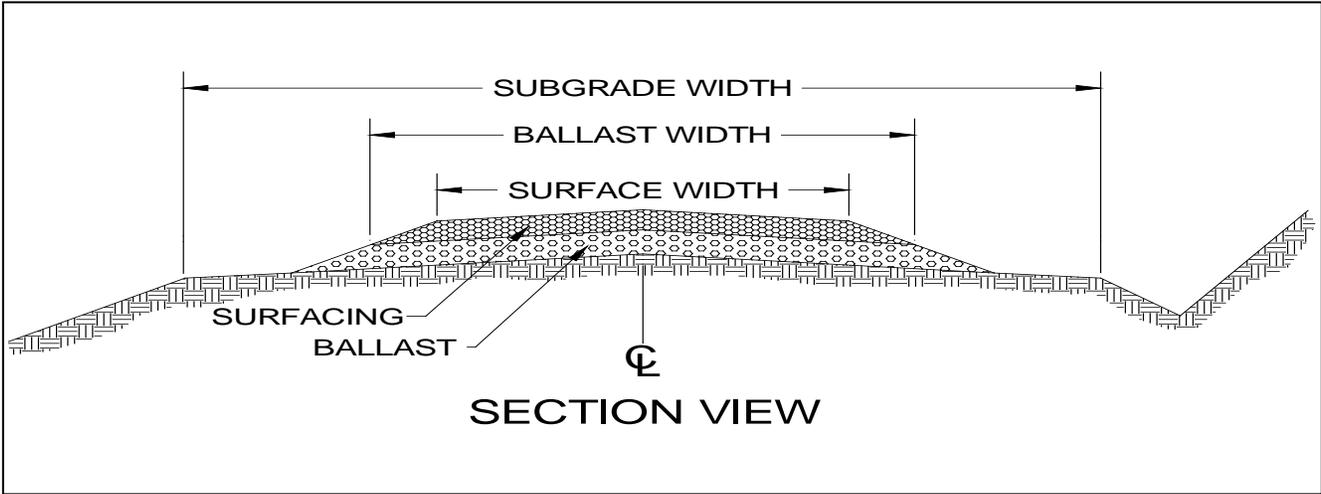


STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

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Name of Sale: Cape Labelle FIT

# ROCK LIST

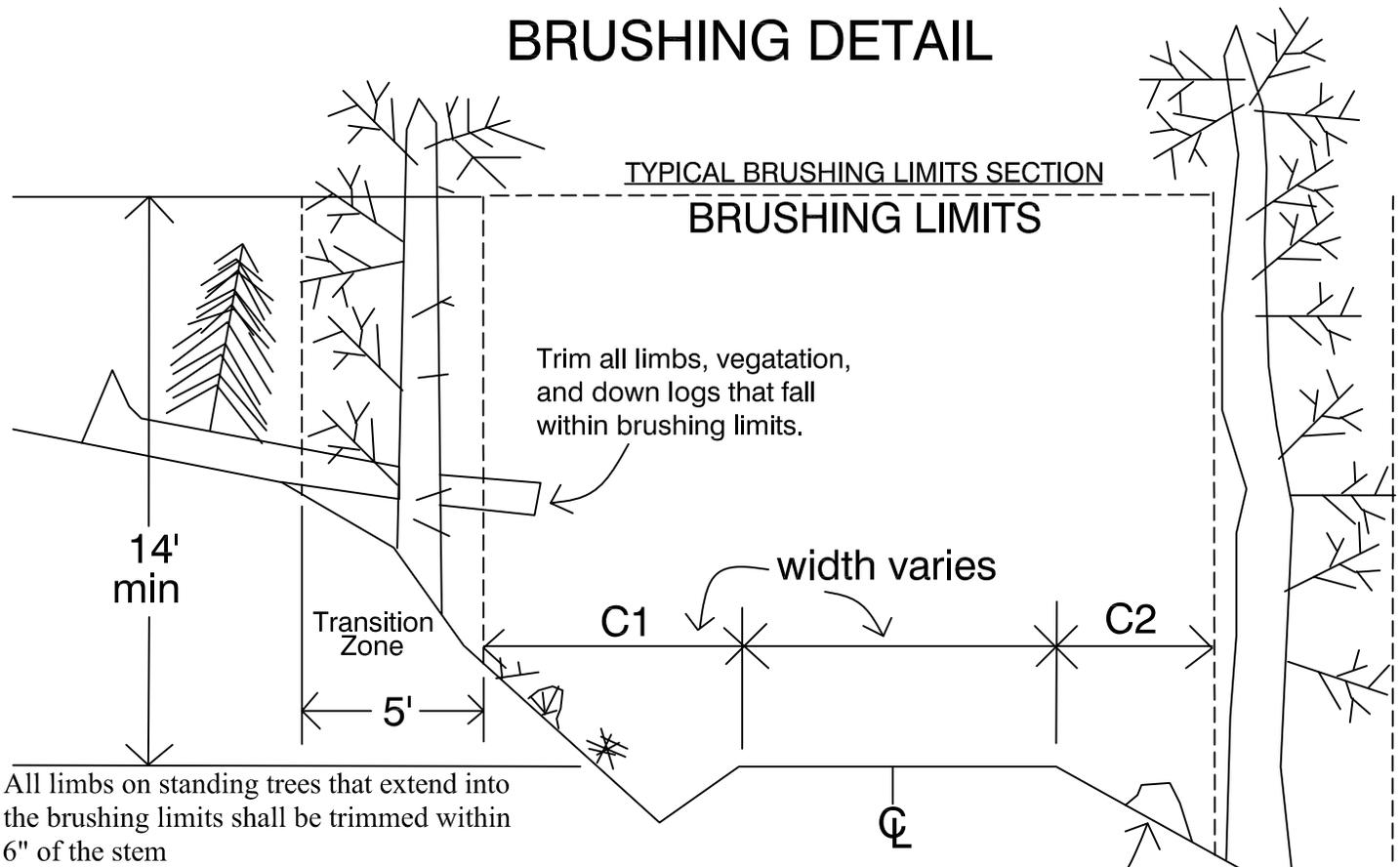


1. ROCK DEPTHS ARE DEFINED AS COMPACTED DEPTHS.
2. LOOSE YARD QUANTITIES ARE DEPENDANT ON SOURCE.
3. ROCK SLOPES SHALL BE 1.5(H) : 1(V).
4. ALL ROCK SOURCES ARE SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR.

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	BALLAST SOURCE	BALLAST WIDTH (ft)	BALLAST DEPTH (in)	BALLAST QTY (cu.yd./sta)	SURFACE SOURCE	SURFACE WIDTH (ft)	SURFACE DEPTH (in)	SURFACE QTY (cu.yd./sta)	Total
E373029E	2+70	7+70	14		12	6	24				0	120
E373036F	16+80	18+50	14		12	6	24					41
E373036G	10+00	13+30	14		12	6	24				0	79
E373036G	18+75	19+75	14		12	5	19				0	19
E373036G	76+00	77+00	18		16	6	31					31
E383036E	8+40	8+90	14		12	4	15				0	8
E383036E	20+30	21+30	16		14	4	18	10 cy riprap			0	28
							0				0	
							0				0	
							0				0	
Grand Total (in place)											0	326
							0				0	
							0				0	
							0				0	
							0				0	
							0				0	

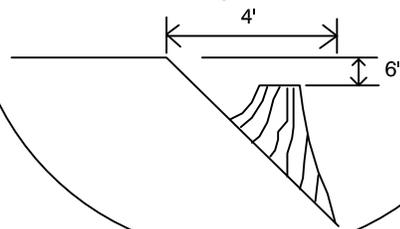
DATE: July 20, 2015

# BRUSHING DETAIL

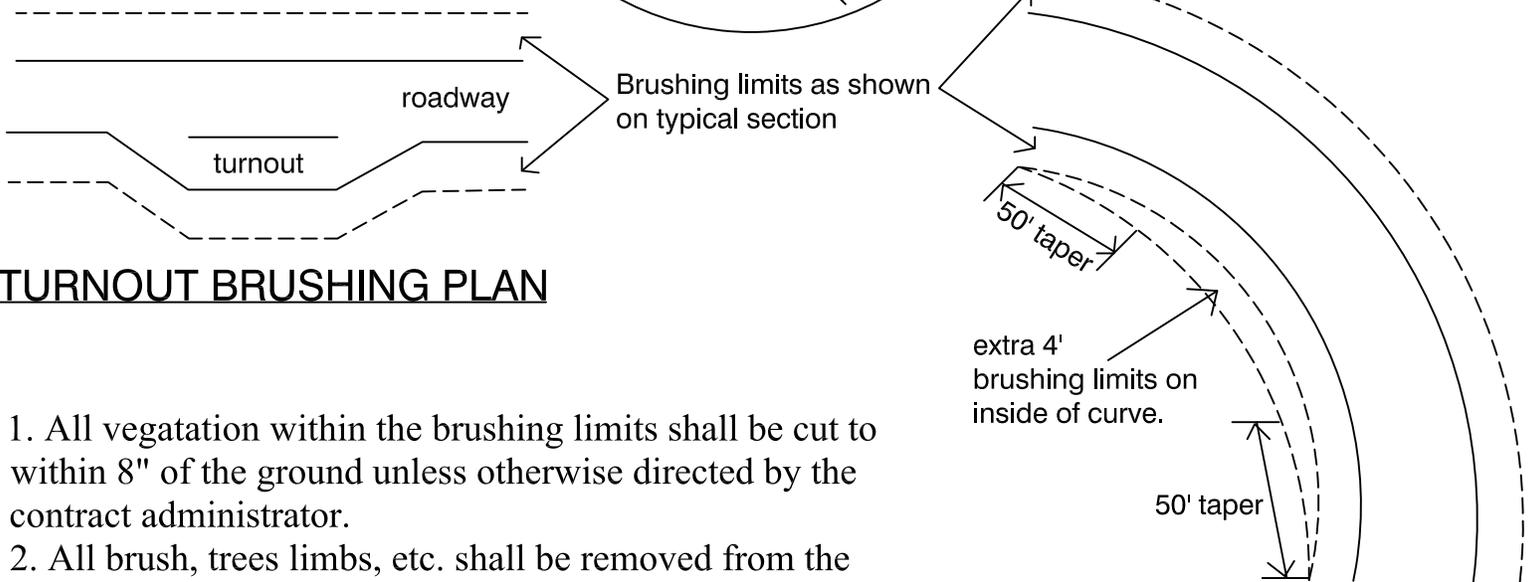


Any trees less than 6" in diameter shall be cleared within the transition zones.

Trim all stumps and vegetation within 4' of edge of road and in ditch to at least 6" below the elevation of the edge of road.



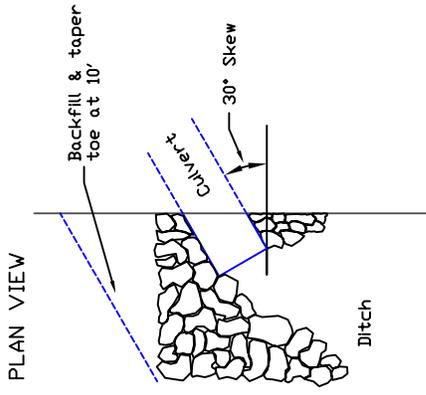
## CURVE BRUSHING PLAN



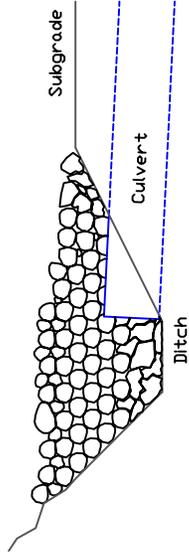
## TURNOUT BRUSHING PLAN

1. All vegetation within the brushing limits shall be cut to within 8" of the ground unless otherwise directed by the contract administrator.
2. All brush, trees limbs, etc. shall be removed from the road surface and ditchline.
3. All debris that may roll or migrate into the ditchline shall be removed.

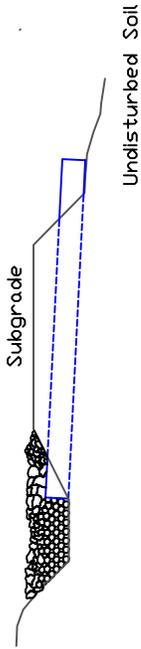
# CULVERT AND DRAINAGE SPECIFICATIONS DETAIL - D1



HEADWALLS

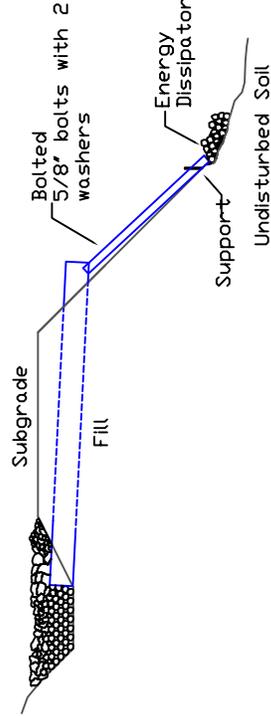


Headwall to be constructed of material that will resist erosion



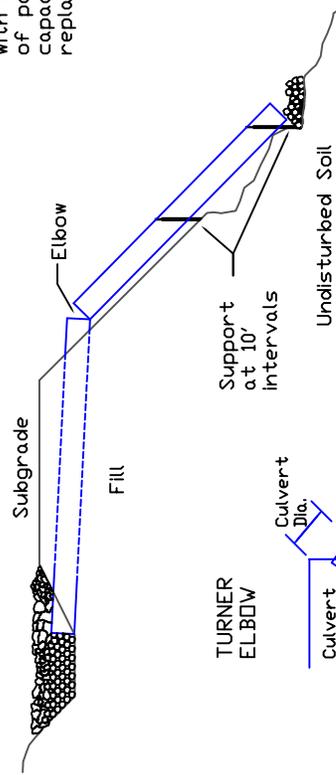
FLUME

Use where ground conditions are uniform, providing for stability of flume.



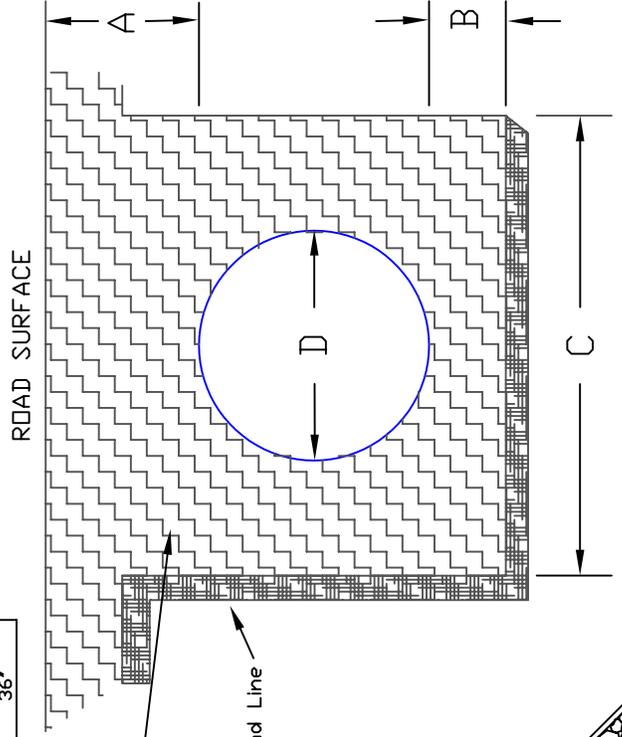
DOWNSPOUT

Use where ground conditions are irregular.



Minimum Cover	A	Minimum Bed Depth	B	Min. Trench Width	C	Nominal Diameter	D
12"	12"	6'	36'	18'	18'	18'	18'
12"	12"	6'	42'	24'	24'	24'	24'
12"	12"	6'	48'	30'	30'	30'	30'
12"	12"	6'	54'	36'	36'	36'	36'

CULVERT BACKFILL & BASE PREPARATION  
(For Culverts Less Than 36')

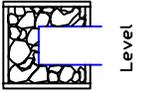


BEDDING MATERIAL:

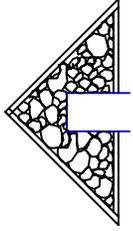
Use granular material - 3' minus. Large rocks shall be replaced with suitable material. Materials of poor or non-uniform bearing capacity shall be removed and replaced with suitable fill.

DISSIPATOR SPEC'S

Size in Culvert Diameters  
Area 2 X 2  
Depth 1  
Aggregate 1/3



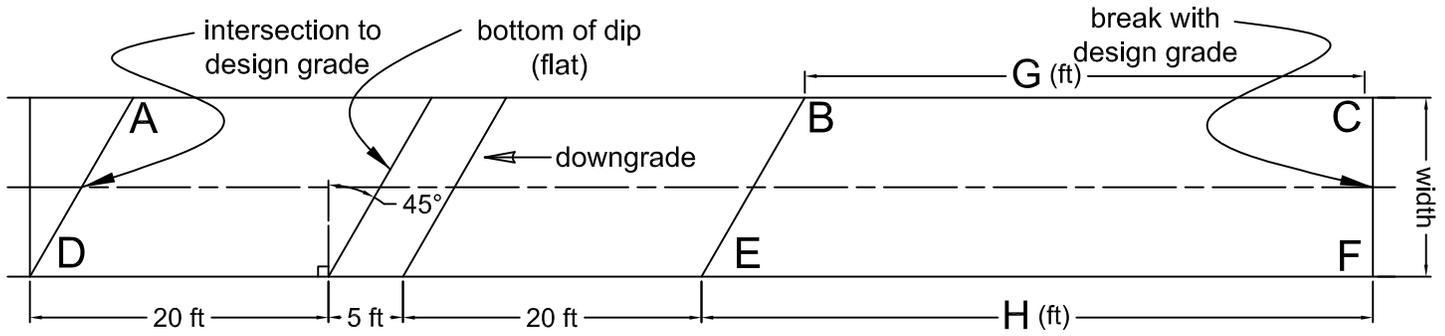
Level



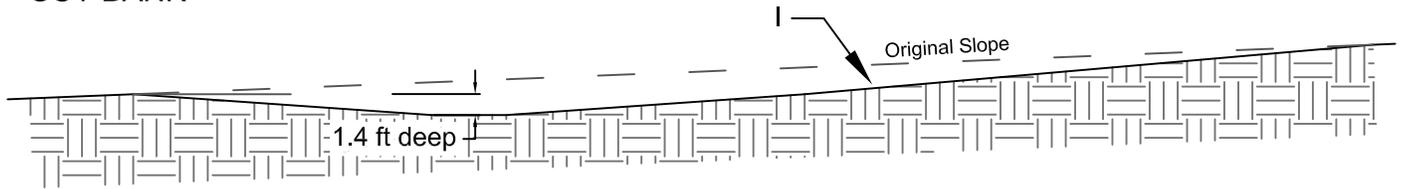
Side Hill

# STANDARD 45° ROLLING DIP

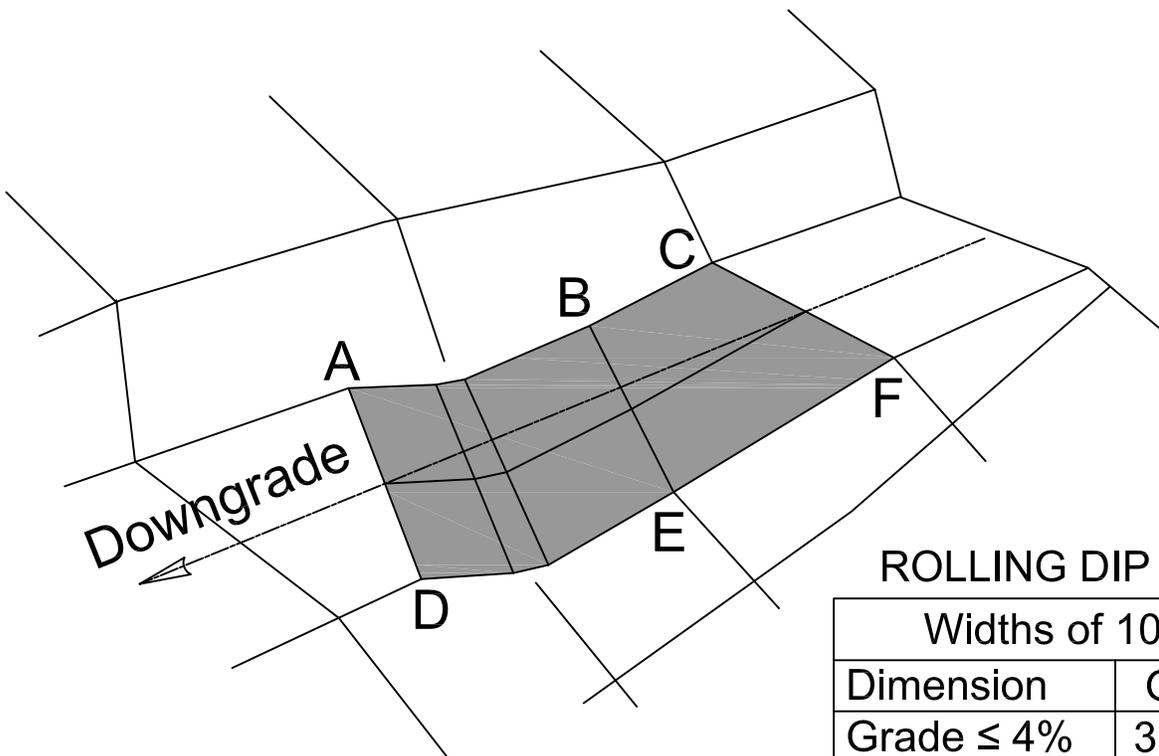
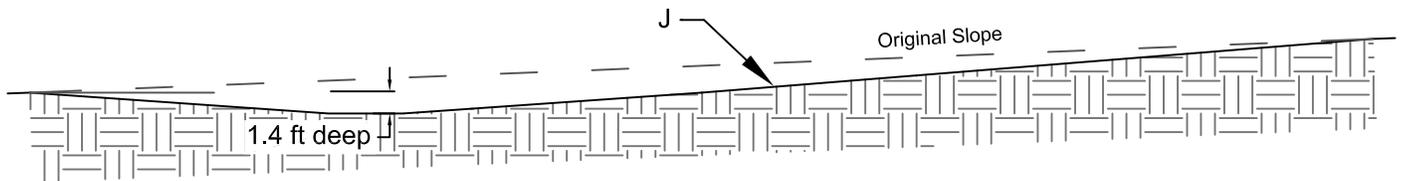
## PLAN OF ROLLING DIP



## CUT BANK



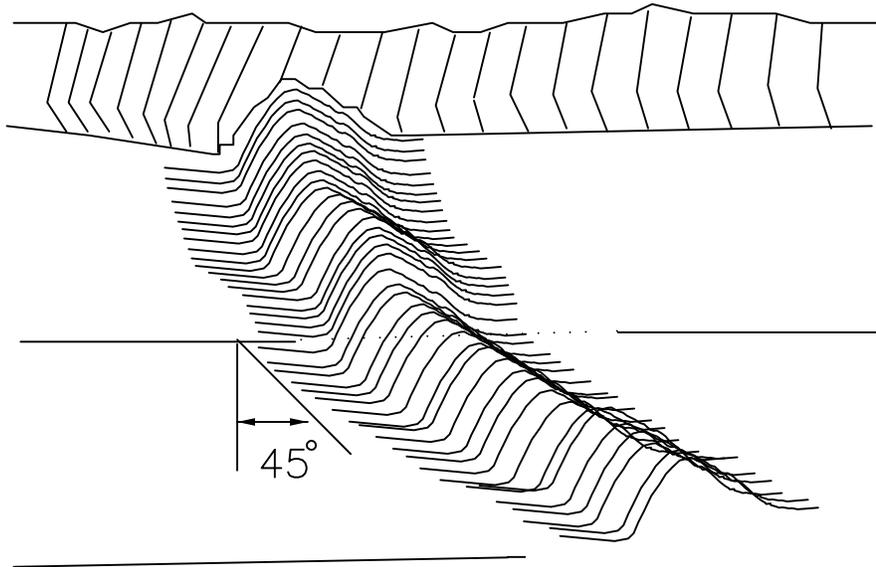
## FILL SLOPE



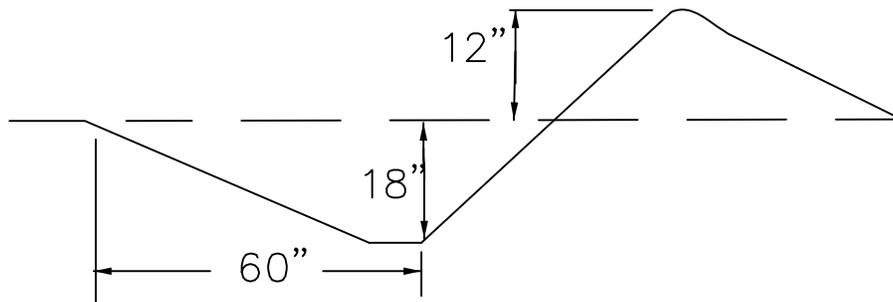
## ROLLING DIP DEMENSIONS

Widths of 10' through 14'				
Dimension	G	H	I	J
Grade ≤ 4%	38'	45'	9%	8%
Grade = 6%	48'	55'	11%	11%
Grade = 8%	58'	65'	14%	14%

Top View

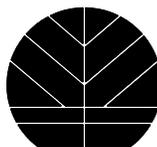


Side View



1. Waterbar construction for forest roads with little or no traffic.
2. Specifications are average and may be adjusted to conditions.
3. Bottom of waterbar must be outsloped to ensure proper drainage.
4. Rock outlet if steep fill slope is present.

## Driveable Waterbar Detail



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

Northeast Region  
Colville, Washington

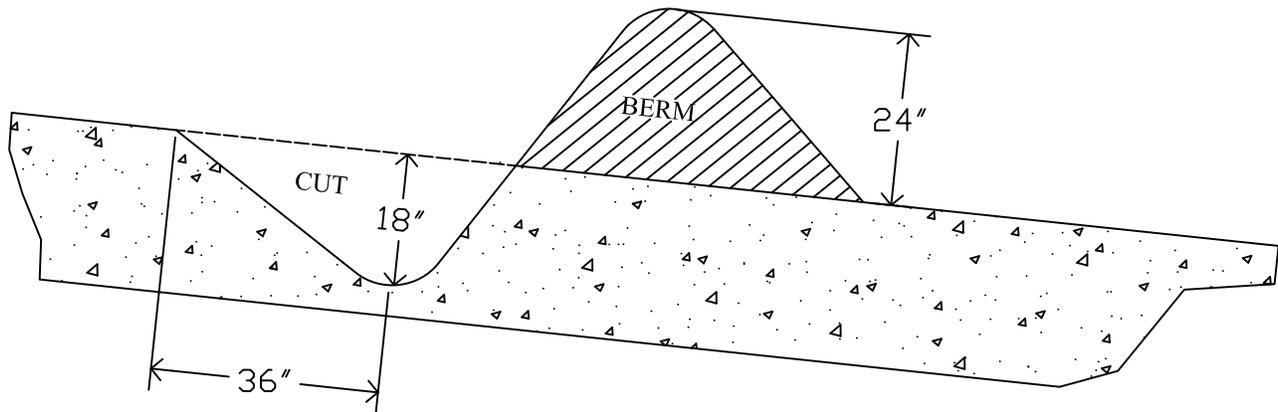
Designed By: Stash Slabinski 9/06/05

Drawn By: Stash Slabinski 9/06/05

Revised:

1 OF 1

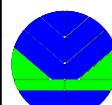
# Non-Driveable Water Bar Detail



**Notes:**

1. WATERBAR CONSTRUCTION FOR FOREST ROADS WITH NO TRAFFIC. SPECIFICATIONS ARE AVERAGE AND MAY BE ADJUSTED TO CONDITIONS.
2. TIE BERM INTO BANK. IF DITCH EXISTS, TIE CUT INTO DITCH.
3. CONSTRUCT CROSS DRAIN BERM APPROXIMATELY 24 IN. HIGH.
4. CUT WATERBAR A MINIMUM OF 18 IN.
5. ENSURE PROPER DRAINAGE AT OUTLET.
6. SKEW WATERBAR 45 DEGREES DOWNGRADE WITH ROAD CENTERLINE.

**Non-Driveable Waterbar  
Detail**



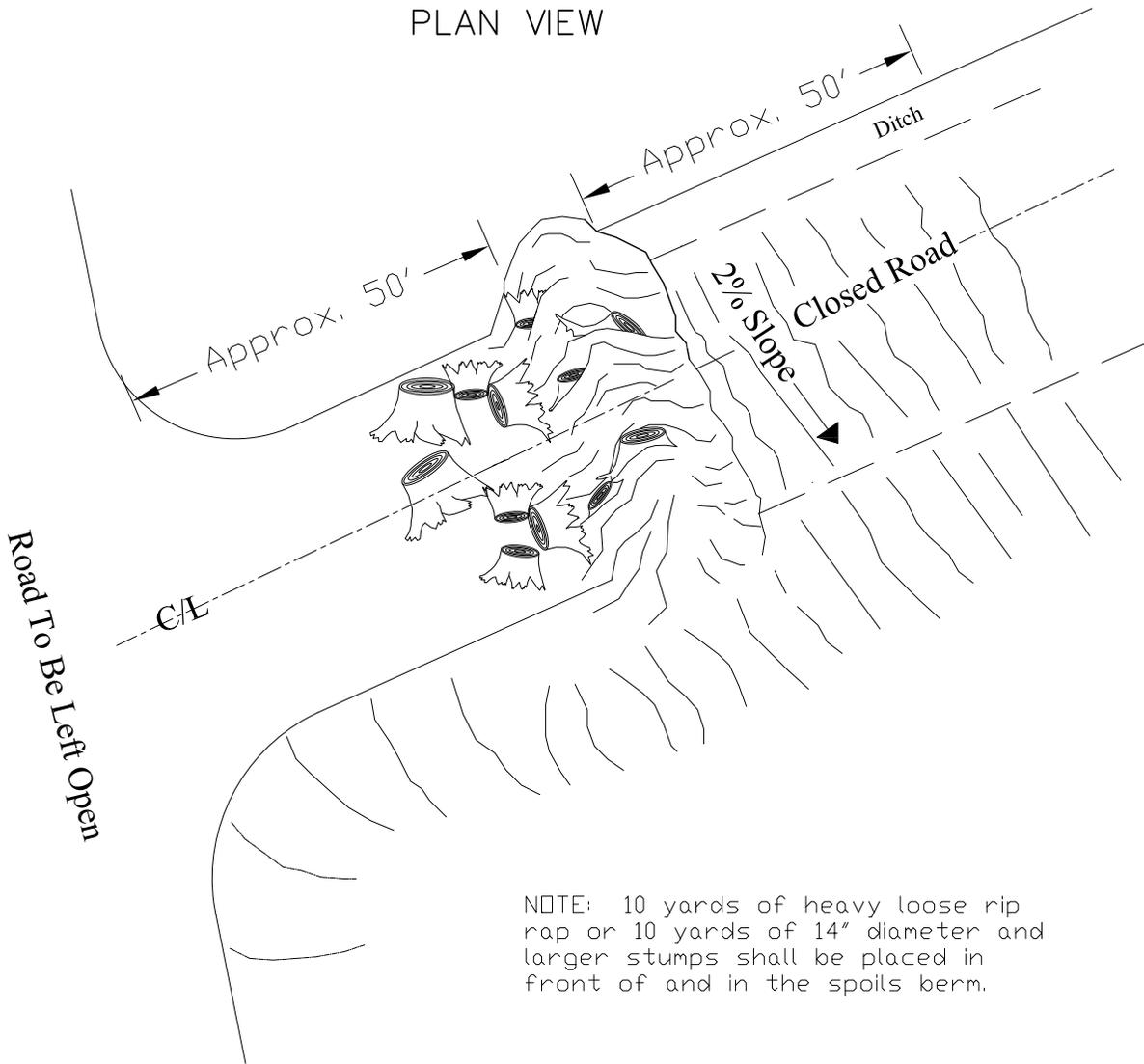
WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

Northeast Region Colville, Washington		
Designed By:	Stash Slabinski	4/21/05
Drawn By:	Stash Slabinski	4/21/05

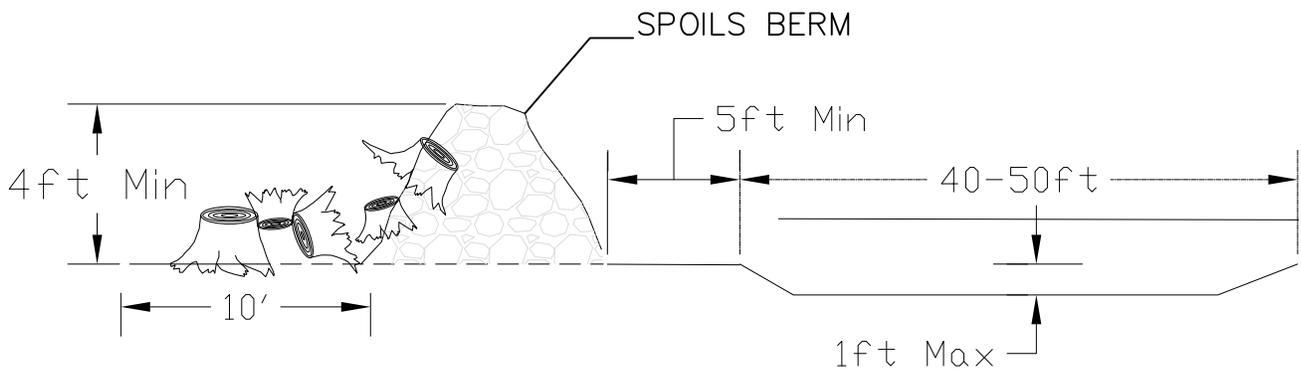
Revised:

# SPOILS BERM DETAIL

## PLAN VIEW



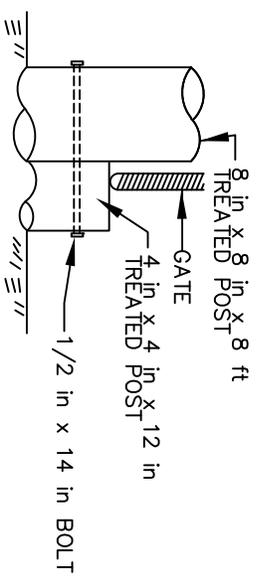
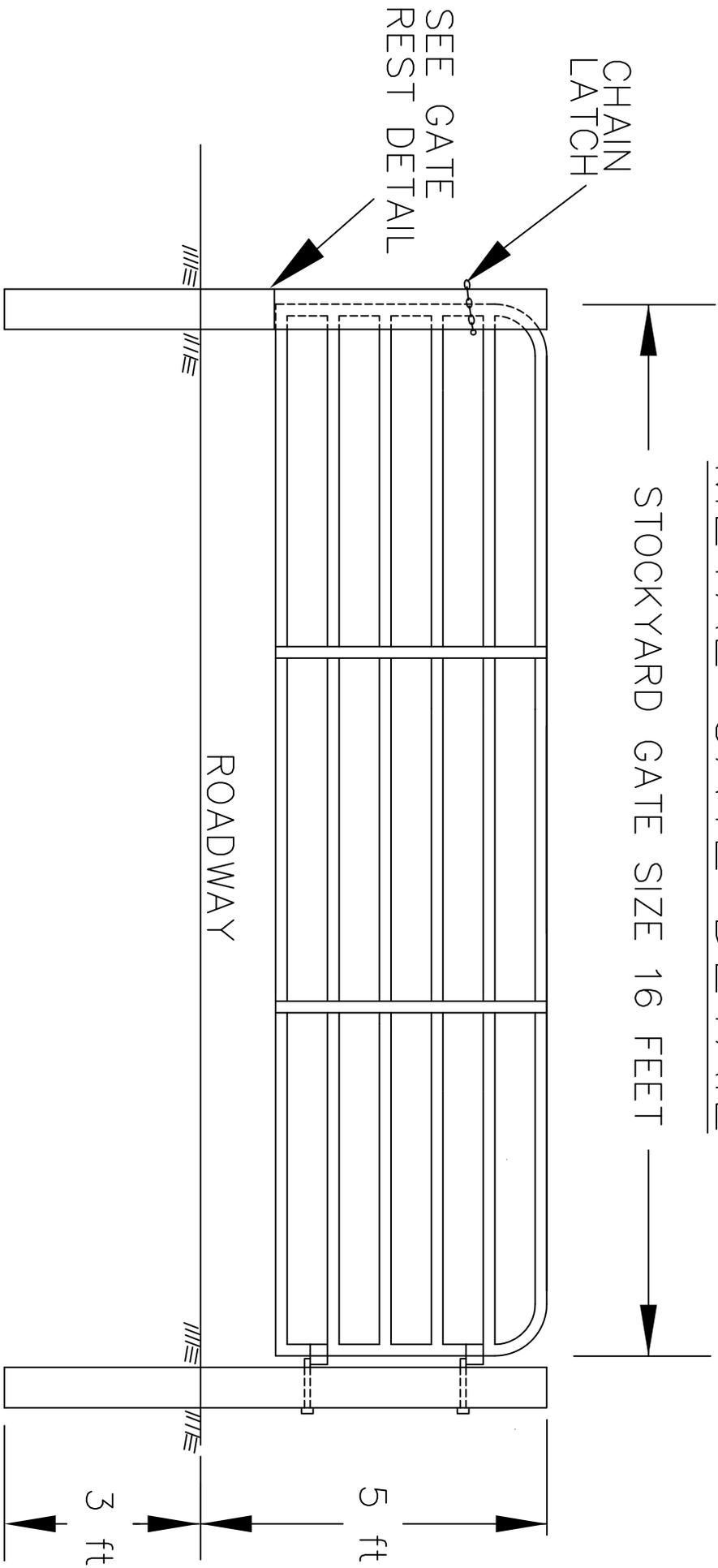
NOTE: 10 yards of heavy loose rip rap or 10 yards of 14" diameter and larger stumps shall be placed in front of and in the spoils berm.



Note:  $\frac{1}{3}$  of stumps or rip rap shall be partially buried in the spoils berm and/or road surface.

# METAL GATE DETAIL

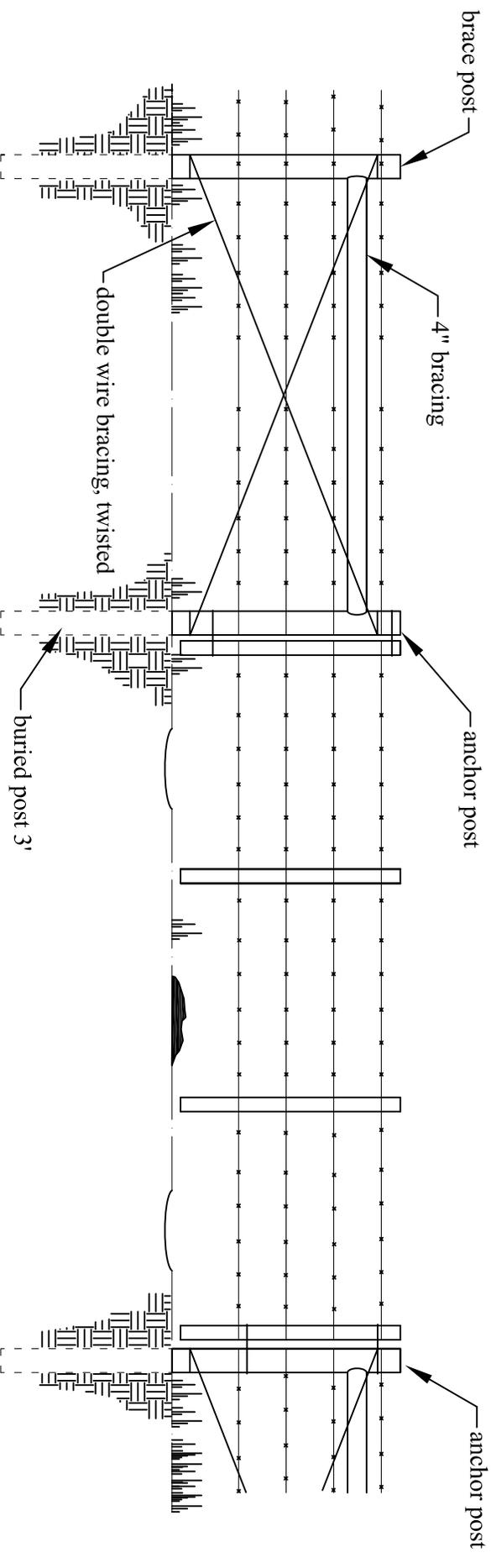
STOCKYARD GATE SIZE 16 FEET



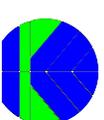
GATE REST DETAIL

1. THE GATE SHALL BE STOCKYARD TYPE OR ITS EQUIVALENT. THE GATE MEMBERS SHALL BE FABRICATED FROM 2 in OD x 16 GAUGE HIGH STRENGTH STEEL TUBING THE VERTICAL STAYS SHALL BE HIGH STRENGTH PRESS FORMED 16 GAUGE STEEL (OR EQUAL). FINISH ON THE GATE SHALL CONSIST OF AT LEAST ONE PRIMER COAT AND ONE COAT OF SURFACE PAINT.
2. ALL BOLTS SHOWN INCLUDE WASHERS AND NUTS.
3. WOODEN POSTS AND WOODEN GATE REST SHALL BE TREATED

# 4 Strand Wire Gate and Gate Brace Detail



1. First wire from ground must be 14" high.
2. Subsequent wires must be no less than 10" apart.
3. Double wrap all bracing.
4. All brace posts must be 7' long, 5" in diameter, and embedded 3'.
5. Dap braces into posts.
6. Spike braces to posts.
7. There must be 8' on center between anchor post and brace post.
8. The gate stays must be no less than 5' apart and 1 ½" in diameter.
9. Barbed wire must be 12 ½ gauge conventional or 15 ½ gauge high-tension.  
2 twisted strands with 14 gauge or heavier two-point barbs on approx. 5 in centers. Class 1 (min. or equivalent) zinc-coating as per ASTM A-121.
10. There must be a gate brace at both ends of the gate.



Washington State Department of  
**Natural Resources**

Northeast Region  
Colville, Washington

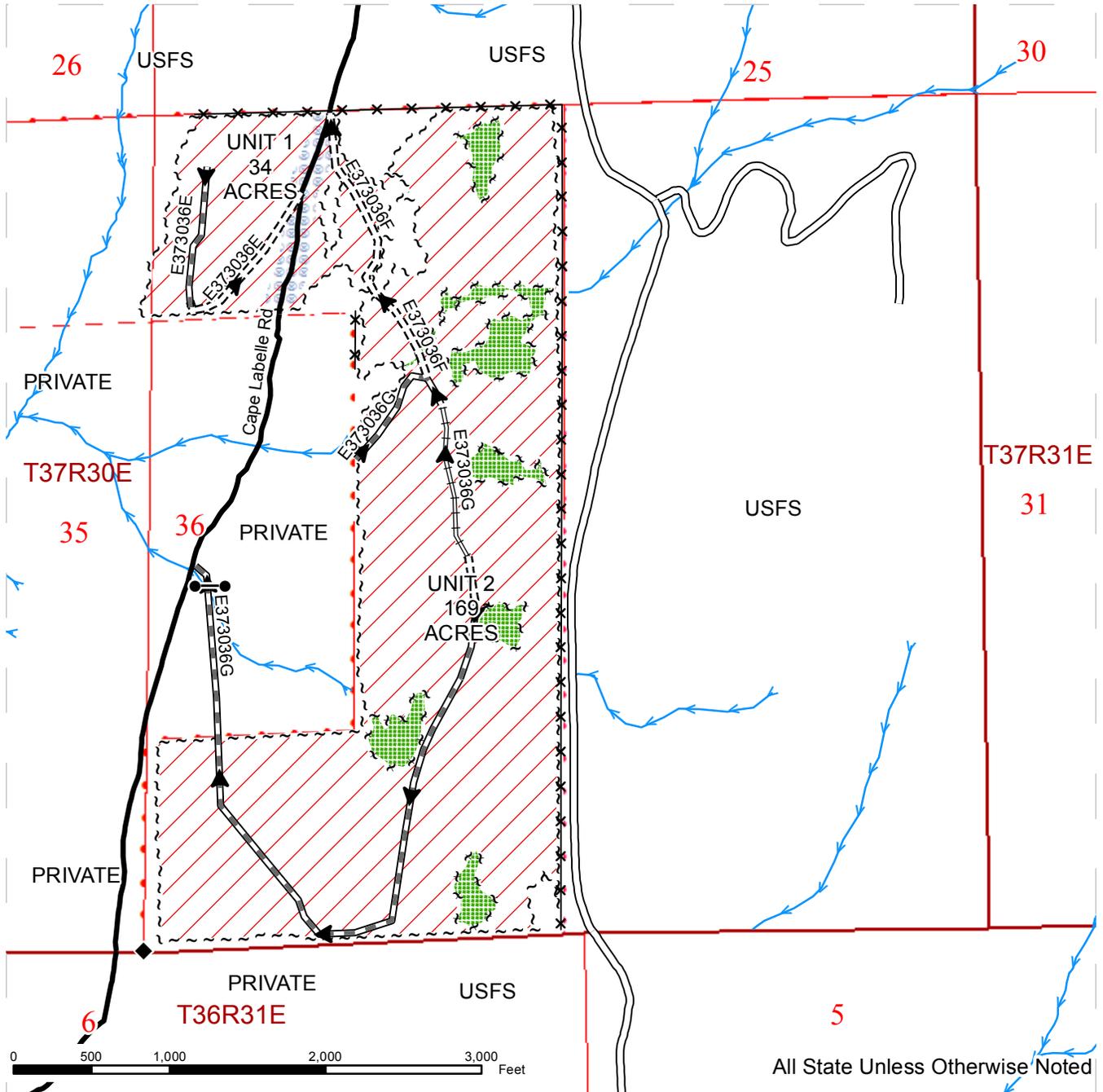
Drawn by: Jason Bauer

Revised: 10/06/2009

# TIMBER SALE MAP

**SALE NAME:** CAPE LABELLE  
**AGREEMENT#:** 30-092773  
**TOWNSHIP(S):** T36R30E, T37R30E, T38R30E  
**TRUST(S):** Common School and Indemnity(3)

**REGION:** Northeast Region  
**COUNTY(S):** OKANOGAN  
**ELEVATION RGE:** 3336-4643



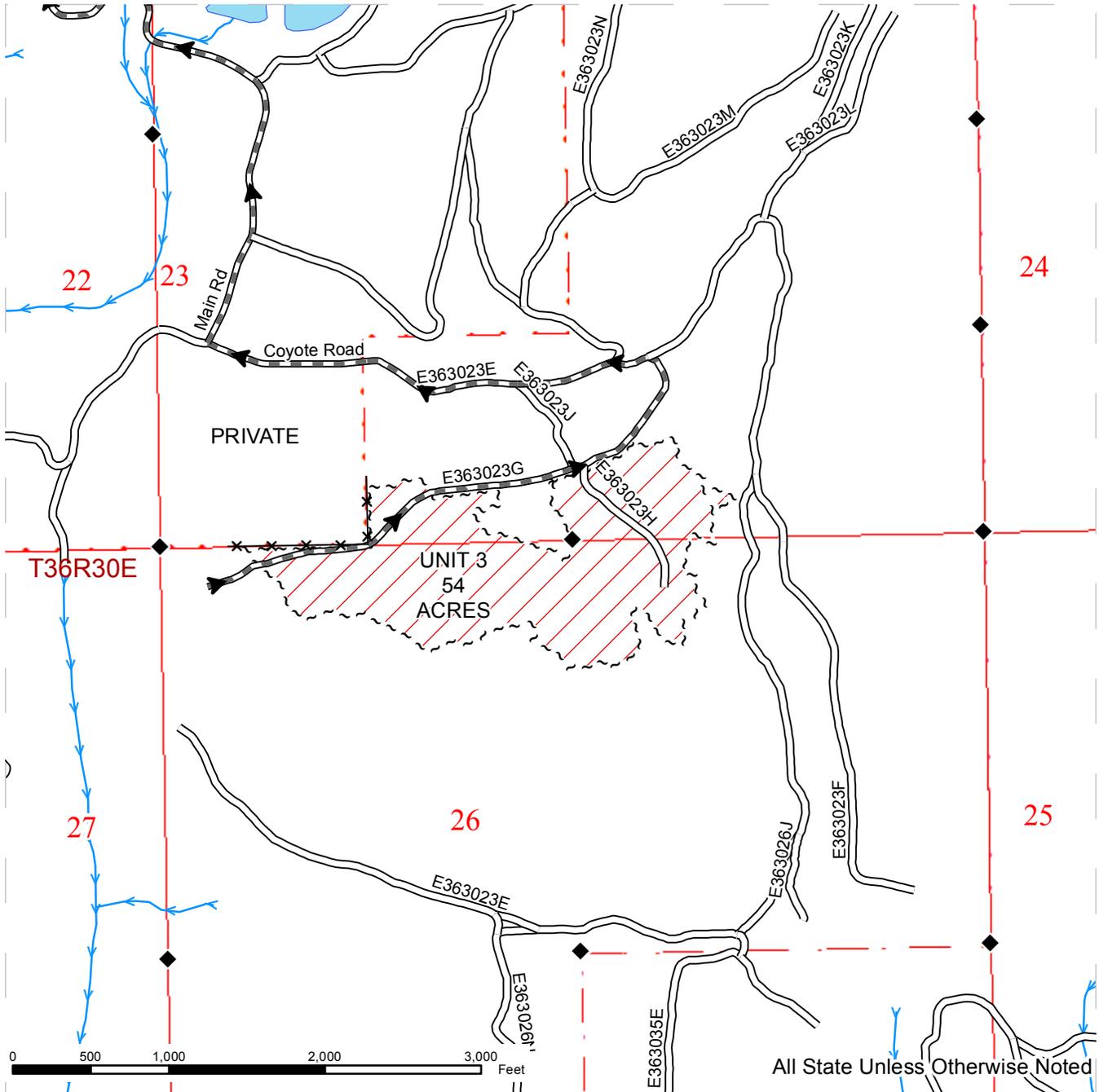
~ ~ ~ Sale Boundary Tags	— Existing Road	→ Streams
▨ Ground Skidding	=== Required Construction	× × Fence
~ ~ ~ Leave Tree Boundary Tags	≡≡≡ Required Reconstruction	● Gate
▨ Leave Tree Area	▬▬▬ Required PreHaul Maintenance	◆ Monumented Corners
⊗ Extreme Hazard Abatement	— County Road	
	▶ Haul Route	



# TIMBER SALE MAP

**SALE NAME:** CAPE LABELLE  
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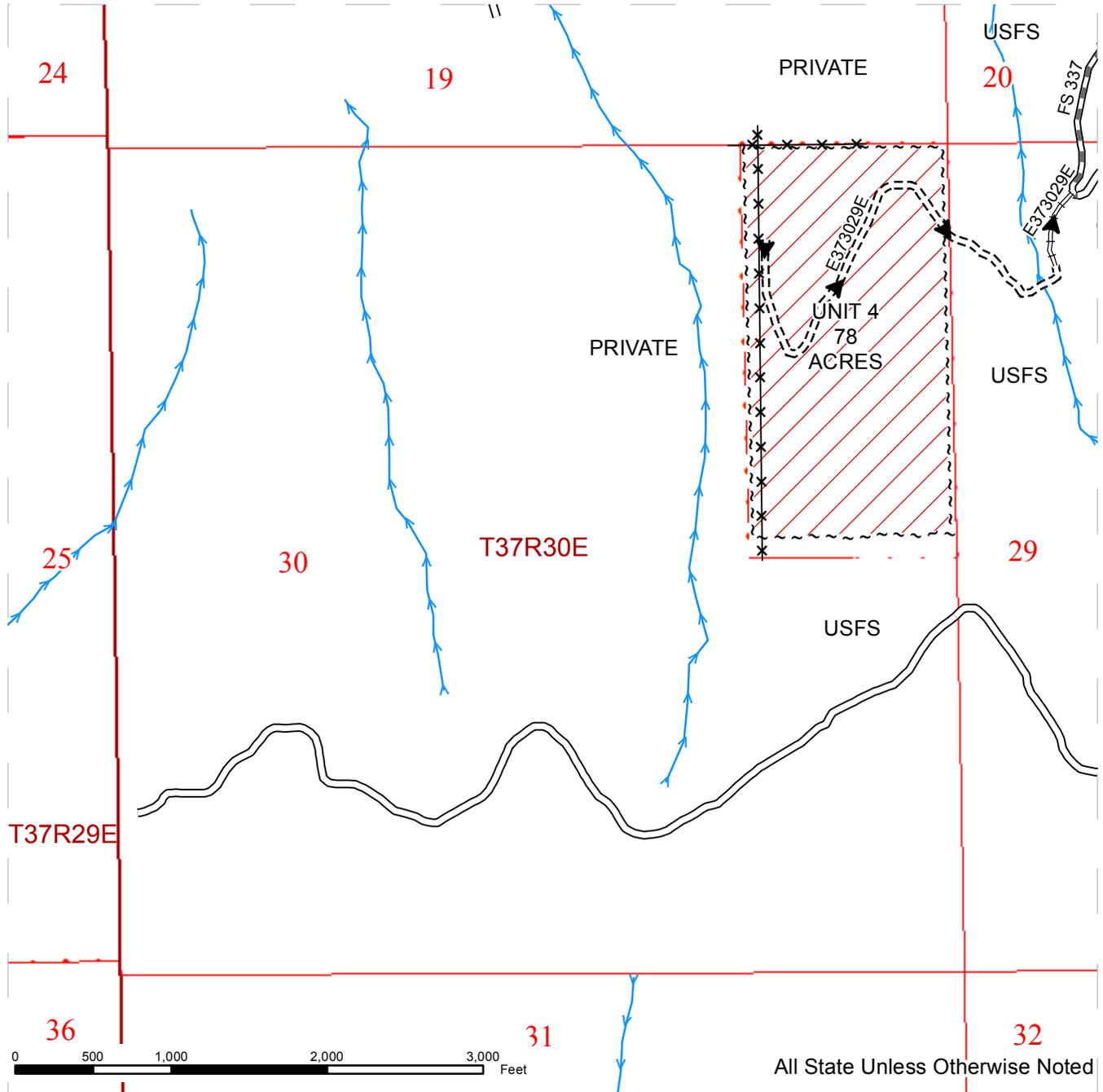
~ ~ ~ Sale Boundary Tags	— Existing Road	→ Streams
▨ Ground Skidding	▬ Required PreHaul Maintenance	* * * Fence
	▶ Haul Route	◆ Monumented Corners



# TIMBER SALE MAP

**SALE NAME:** CAPE LABELLE  
**AGREEMENT#:** 30-092773  
**TOWNSHIP(S):** T36R30E, T37R30E, T38R30E  
**TRUST(S):** Common School and Indemnity(3)

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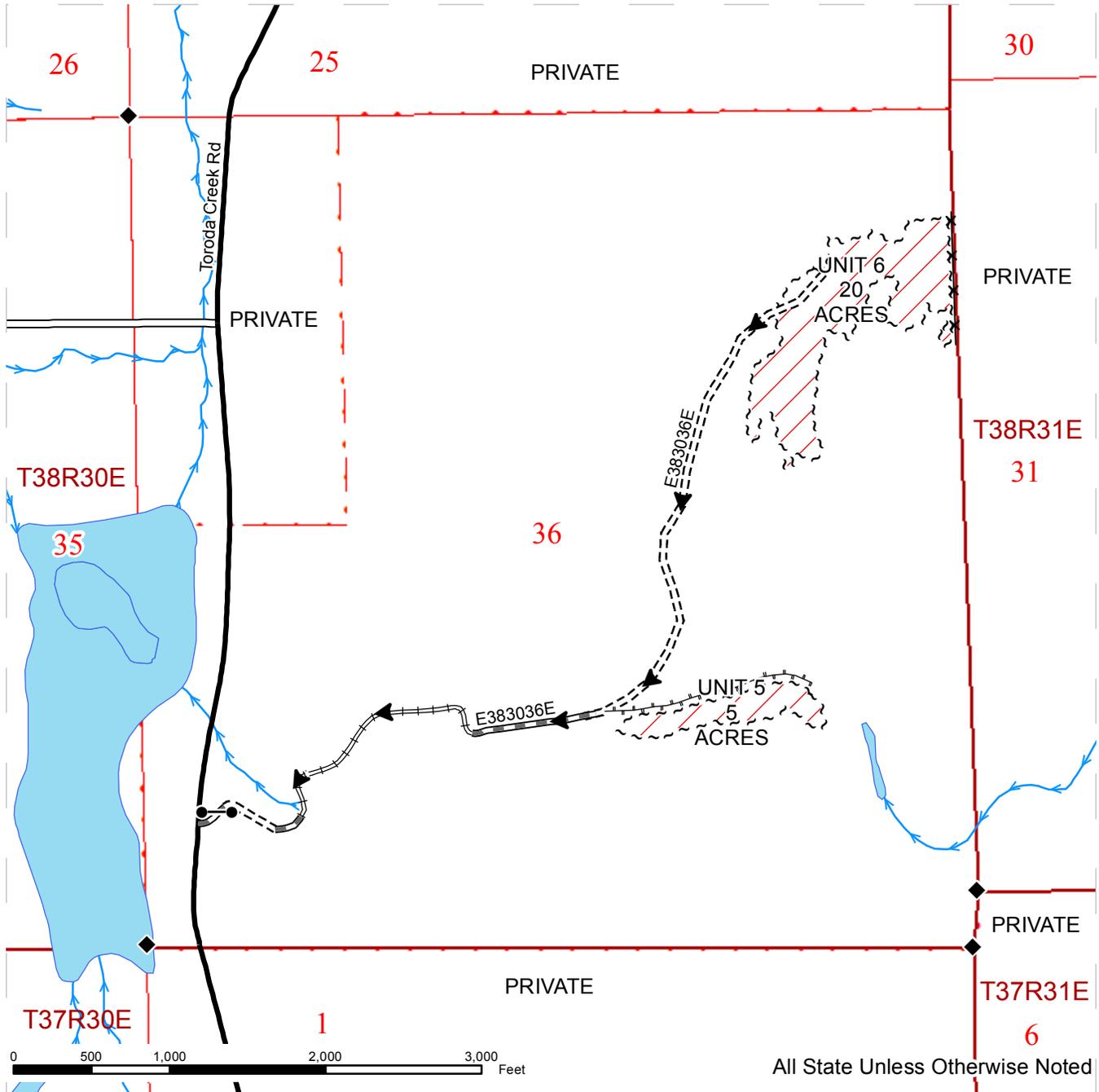
~ ~ ~	Sale Boundary Tags	==	Existing Road	→	Streams
	Ground Skidding	===	Required Construction	✕ ✕	Fence
		≡≡≡	Required Reconstruction	◆	Monumented Corners
		—+—+—	Required PreHaul Maintenance	▶	Haul Route



# TIMBER SALE MAP

**SALE NAME:** CAPE LABELLE  
**AGREEMENT#:** 30-092773  
**TOWNSHIP(S):** T36R30E, T37R30E, T38R30E  
**TRUST(S):** Common School and Indemnity(3)

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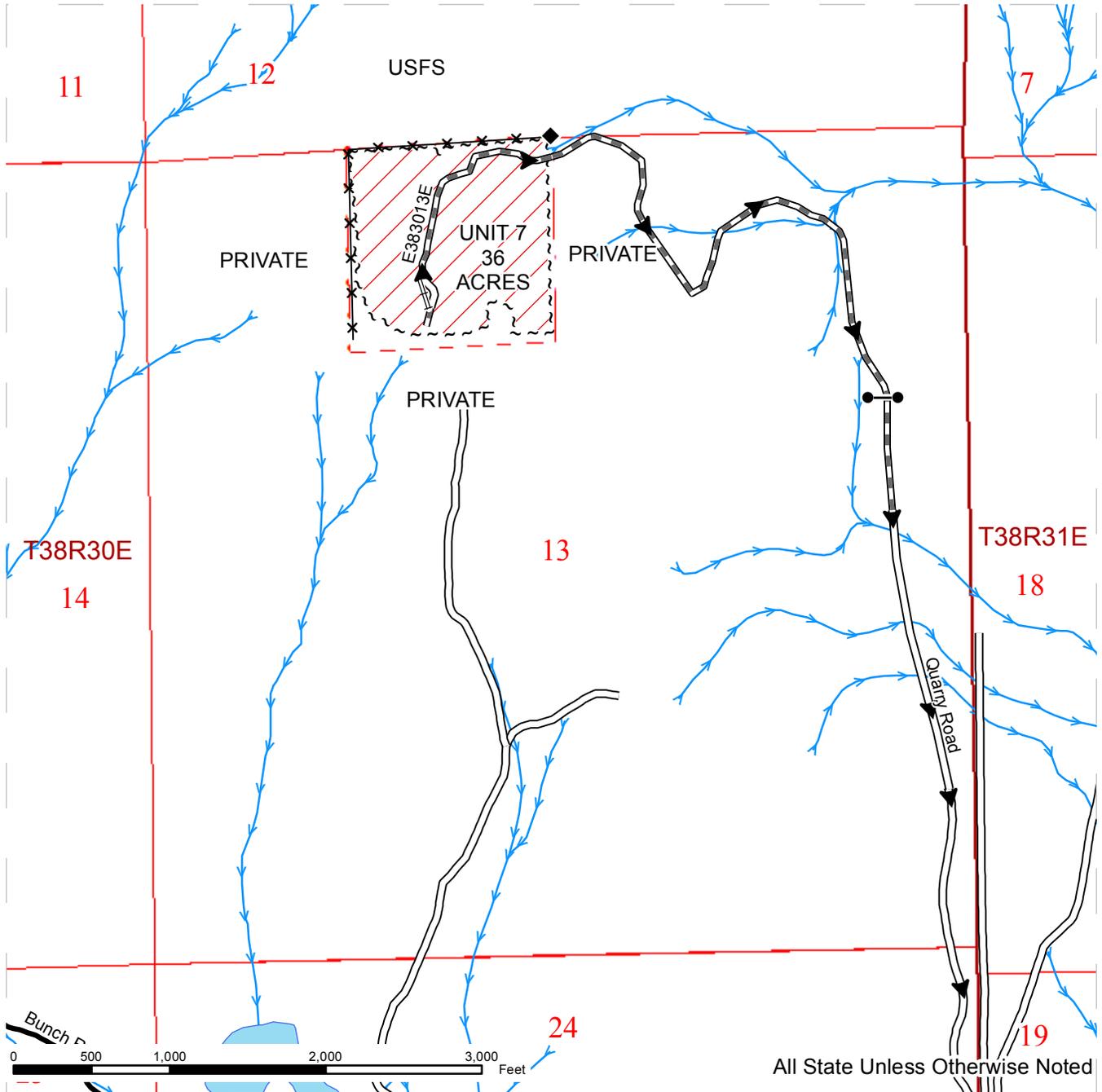
~ ~ ~	Sale Boundary Tags	==	Existing Road	→	Streams
▨	Ground Skidding	===	Required Construction	✕✕	Fence
		====	Required Reconstruction	●●	Gate
		=====	Required PreHaul Maintenance	◆	Monumented Corners
		- - - -	Designated Skid Trail		
		—	County Road		
		▶	Haul Route		



# TIMBER SALE MAP

**SALE NAME:** CAPE LABELLE  
**AGREEMENT#:** 30-092773  
**TOWNSHIP(S):** T36R30E, T37R30E, T38R30E  
**TRUST(S):** Common School and Indemnity(3)

**REGION:** Northeast Region  
**COUNTY(S):** OKANOGAN  
**ELEVATION RGE:** 3336-4643

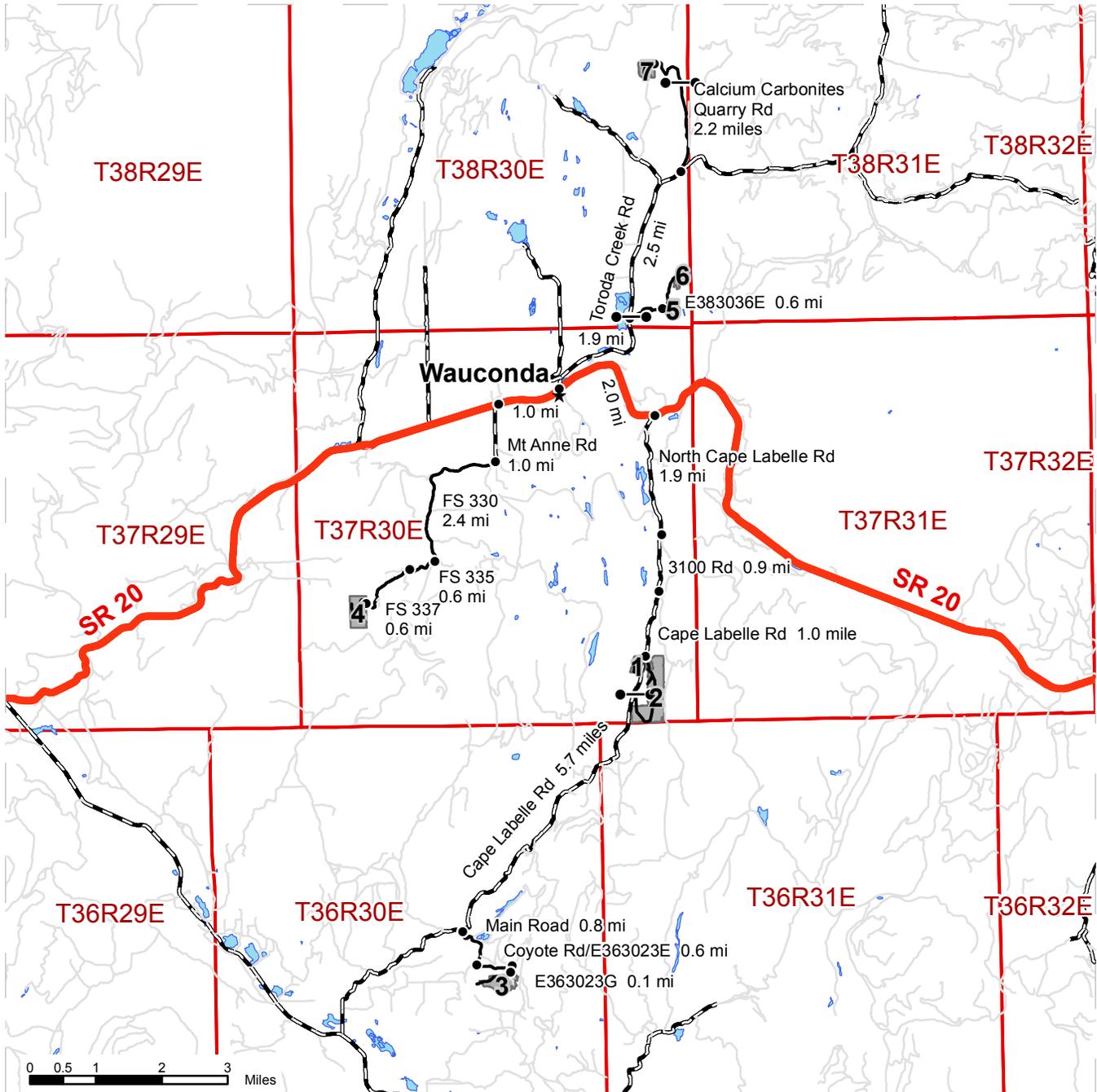


~ ~ ~ Sale Boundary Tags	Existing Road	Streams
Ground Skidding	Required Reconstruction	Fence
	Required PreHaul Maintenance	Gate
	County Road	Monumented Corners
	Haul Route	

# DRIVING MAP

**SALE NAME:** CAPE LABELLE  
**AGREEMENT#:** 30-092773  
**TOWNSHIP(S):** T36R30E, T37R30E, T38R30E  
**TRUST(S):** Common School and Indemnity(3)

**REGION:** Northeast Region  
**COUNTY(S):** OKANOGAN  
**ELEVATION RGE:** 3336-4643



	Timber Sale Unit
	Haul Route
	Other Route
	County Road
	Highway
	Distance Indicator
	Gate

**DRIVING DIRECTIONS:**

Units 1, 2: From Wauconda, WA travel east on Hwy 20 for 2.0 miles. Turn south onto North Cape Labelle Rd. Drive 1.9 miles, staying left on the 3100 Rd, continuing south for 0.9 mile and veer right onto Cape Labelle Rd. Travel south for 1.0 mile to reach Units 1 and 2.

Unit 3: Continue from Unit1, on Cape Labelle Rd. for an additional 5.7 miles. Turn south on Main Rd. Travel 0.8 mile. Turn east on Coyote Rd/E363023E. Continue on this road for 0.6 mile. Turn south on E363023G. Drive on E363023G road for 0.1 mile to reach Unit 3.

Unit 4: From Wauconda, WA travel west on Hwy 20 for 1.0 mile then turn south onto Mt. Anne Rd. Drive 1.0 mile then turn west onto FS 330, continue for 2.4 miles and turn west onto FS 335. Travel for 0.6 mile and veer south onto FS 337. Continue an additional 0.6 mile to reach Unit 4.

Units 5, 6: From Wauconda, WA travel north on Toroda Creek Rd. for 1.9 miles. Turn east on E383036E, driving 0.6 mile to the area of Unit 5 and Unit 6.

Unit 7: From Wauconda, WA travel north on Toroda Creek Rd. for 4.4 miles then turn north onto Calcium Carbonites Quarry Rd., continue on the Quarry Road for 2.2 miles to reach Unit 7.



STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES  
PETER GOLDMARK  
COMMISSIONER OF PUBLIC LANDS

**HARVESTING SERVICES CONTRACT  
SEALED BID FORM**

CAPE LABELLE FIT SORTS  
NO. 92773

\_\_\_\_\_  
(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:**

\_\_\_\_\_

(check box for appropriate project payment method. RFQ section 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:**

N/A  
\_\_\_\_\_

(check box for appropriate project payment method. RFQ section 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.

**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-027.
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.

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.

\*\*\*\*\*

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 F

### Road Cost Proposal

Instructions:

1. Enter Contractor's per station bid rates for each biddable item unless specified differently below.
2. Required items (Proposed Stations = Required) are fixed to the stations listed in the table and the total should reflect the total cost for completing all stations for that item. Multiply the Price per Station bid and the Stations and enter the total cost for each item.
3. Non-required items (Proposed Stations is blank) may be bid for on a proposed quantity of work. Enter the number of stations in the Proposed Stations column for that item the Contractor proposes to complete. Enter the Contractor's per station bid rate for each of these items. Multiply the Price per Station bid and the Stations and enter the total cost for each item.
4. Add all item totals and enter the total in the Total Road Cost Proposal below the table.

Roads	Type	Stations or Quantities	Proposed Stations or Quantities	Price Per Station or Quantities	Total
E363023E	maintenance	19.26	required		
E363023G	maintenance	36.00	required		
E373029E	reconstruction	4.70	required		
E373029E	construction	10.40	required		
E373029E	construction	25.80	required		
E373036E	construction	10.60	required		
E373036E	maintenance	9.30	required		
E373036F	construction	19.70	required		
E373036G	maintenance	10.00	required		
E373036G	reconstruction	10.75	required		
E373036G	construction	3.0	required		
E373036G	maintenance	53.25	required		
E383013E	maintenance	62.31	required		
E383013E	reconstruction	1.00	required		
E383013E	maintenance	2.69	required		
E383036E	maintenance	1.50	required		
E383036E	construction	4.20	required		
E383036E	maintenance	3.20	required		
E383036E	reconstruction	16.10	required		

E383036E	maintenance	7.50	required		
E383036E	construction	36.30	required		
FS 335	maintenance	25.70	required		
FS 337	maintenance	40.60	required		
Coyote Rd	maintenance	10.34	required		
Main Rd	maintenance	40.50	required		

Total Road Cost Proposal = \$ \_\_\_\_\_



**TIMBER NOTICE OF SALE**

**SALE NAME:** CAPE LABELLE FIT SORTS

**AGREEMENT NO:** 30-93688 - 30-93692

**AUCTION:** June 14, 2016 starting at 10:00 a.m.  
Northeast Region Office, Colville, WA

**COUNTY:** Okanogan

**SALE LOCATION:** Sale located approximately 25 miles east of Tonasket, WA

**PRODUCTS SOLD**

**AND SALE AREA:** All timber except for leave trees banded with blue paint and trees bounded out by yellow "Leave Tree Area" tags bounded by white timber sale boundary tags meeting the specifications described below; on parts of Sections 23, and 26 all in Township 36 North, Range 30 East, Sections 30, 35, and 36 all in Township 37 North, Range 30 East, Sections 13, and 36 all in Township 38 North, Range 30 East W.M., containing 396 acres, more or less.

**MINIMUM BID AND ESTIMATED LOG VOLUMES:**

Agreement #	Sort #	Species and Sort Specifications	Average Log Length	Estimated Volume		Tons Per MBF	Minimum Bid Delivered Prices		Total Appraised Value	Bid Deposit
				Mbf	Tons		\$/mbf	\$/Ton		
30-093688	01	DF/WL 11"+ dib	N/A	1247	6235	5		\$80.00	\$498,800.00	\$49,880.00
30-093689	02	DF/WL 7-10" dib	N/A	1589	9534	6		\$67.00	\$638,778.00	\$63,877.80
30-093690	03	DF/WL 5-6" dib, ES 5-10" dib & non-chuck DF/WL 7-10" dib	N/A	1001	6406	6.4		\$46.00	\$294,676.00	\$29,467.60
30-093691	04	Dead DF/WL 5"+ dib utility	N/A	96	288	3		\$25.00	\$7,200.00	\$720.00
30-093692	05	DF/WL/ES 2"+ dib utility & non-chuck DF/WL 11"+ dib	N/A	77	693	9		\$23.00	\$15,939.00	\$1,593.90

**Totals:** **4010 23156 \$1,455,393.00**

**CERTIFICATION:** This sale is certified under the Sustainable Forestry Initiative® program Standard (cert no: BV-SFIS-US09000572)

**BID METHOD:** Sealed Bids **UNIT OF MEASURE:** Tonnage Scale

**EXPIRATION DATE:** January 31, 2017 **ALLOCATION:** Export Restricted

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

**BIDDING PROCEDURES:** A separate sealed bid and envelope must be submitted for each log sort. Prospective Purchasers may bid on any or all log sorts. On the day of sale the Purchaser must bring

## TIMBER NOTICE OF SALE

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their bid deposit up to 10% of their total bid price. Complete bidding procedures and auction information may be obtained from the Northeast Region Office in Colville WA. Phone number (509)684-7474.

### **TIMBER EXCISE TAX:**

Purchaser must pay the forest excise taxes associated with the log sorts delivered to them. The tax rate for this sale is 4.2 %. Taxable Stumpage = Total Delivered Value – (Harvest Cost + Estimated Haul Cost + ARRF). For more information contact the Department of Revenue, Forest Tax Section at 1-800-548-8829.

Use the following rates for estimating taxable stumpage:

Harvest Cost = \$28.00 per Ton for sorts 01, 02, 03 and 04 and \$13.00 per Ton for sort 05.

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

Base Rate = \$2.35 per ton

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

ARRF does not apply.

Note: To calculate AARF rates per ton use the tons\mbf conversion factor in the table above.

**CONFIRMATION:** Each sort is subject to confirmation following auction. Sorts will not be confirmed until at least 10 days after auction. Final contract award is contingent upon the State's haul cost analysis. Actual haul route may vary and is subject to change at the State's discretion.

**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.

Locked gate restricts access to Unit 7. Contact the Northeast Region Office at (509) 684-7474 for access.

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 Andy Townsend at the Northeast Region Office at (509)684-7474 or Steve Teitzel at the Product Sales and Leasing Division Office in Olympia at (360)902-1741.

# Cruise Narrative

<b>Sale Name:</b> Cape Labelle FIT	<b>Region:</b> Northeast
<b>Agreement Number:</b> 30-092773	<b>District:</b> Highlands
<b>Lead Cruiser:</b> Dan Griggs	<b>Completion Date:</b> 2/8/2016
<b>Other Cruisers on sale:</b> Jim Putnam	<b>Legal:</b> Sections 23 and 26, T36N, R30E WM; Sections 30, 35 and 36, T37N, R30E WM; and Sections 13 and 36, T38N R30E WM.

<b>Unit Acreage Specifications:</b>							
<b>Unit #</b>	<b>Gross Acres</b>	<b>Net Acres</b>	<b>Total Deletions</b>	<b>RMZ/WMZ Acres</b>	<b>Leave Tree Acres</b>	<b>Existing Road Acres</b>	<b>Other</b>
1	35.42	34.42	1.00			1.00	
2	184.44	168.44	16.00		16.00		
3	55.82	53.82	2.00			2.00	
4	78.42	78.42	0.00				
5	5.00	5.00	0.00				
6	20.13	20.13	0.00				
7	36.77	35.77	1.00			1.00	
<b>Total</b>	<b>416.00</b>	<b>396.00</b>	<b>20.00</b>	<b>0.00</b>	<b>16.00</b>	<b>4.00</b>	<b>0.00</b>

## Cruise Sample Design:

This timber sale was cruised using the **variable plot** sampling method. The double basal area system was employed; a small BAF to determine Basal Area (count trees) and a large BAF to determine the Volume-Basal Area Ratio (cruise trees). Each plot was a full plot. Plot locations were created using a computer generated grid, and found using a hand held GPS unit.

Unit #	Small BAF (count)	Large BAF (cruise)	Sighting height	Grid size (plot spacing in feet)	% Cruise to count Target	% Cruise to count Actual	Total number of Plots
1	27.78	111.11	D4H	260 x 260	25%	28.8%	23
2	27.78	134.44	D4H	250 x 250	20.7%	20.2%	124
3	20.00	80.28	D4H	260 x 260	24.9%	19.1%	33
4	27.78	134.44	D4H	260 x 260	20.7%	29.8%	45
5	27.78	27.78	D4H	260 x 260	100%	100%	4
6	33.61	80.28	D4H	260 x 260	41.9%	36.7%	11
7	27.78	111.11	D4H	260 x 260	25%	26.5%	22
Total						25.4%	262

### Cruise Specifications:

Minor species cruise intensity:	We grade the first tree of all minor species encountered with the smaller BAF; then followed through with the small BAF to large BAF ratio.
Minimum top dib:	<p><b>Ponderosa pine and red cedar:</b> Trees less than 17.5" DBH have a minimum top of 5.6" dib. Trees 17.6" and greater DBH have a minimum top dib of 40% of DOB at 16' or a 6" top whichever is greater.</p> <p><b>All other species:</b> Trees less than 17.5" DBH have a minimum top of 4.6" dib. Trees 17.6" and greater DBH have a minimum top dib of 40% of DOB at 16' or a 6" top whichever is greater.</p>
Minimum dbh:	Ponderosa pine: 8.0 inches DBH All other species: 7.0 inches DBH
Log lengths:	Saw logs: 32 feet where possible, minimum of 12 feet Firewood: 40 feet where possible, minimum of 12 feet Utility: 16 feet where possible, minimum of 12 feet
Take / Leave tree description:	Harvest all conifers that meet the minimum cruise specifications and are not banded with blue paint. Harvest all right of way trees banded with orange paint. Leave all ponderosa pine and hardwoods. Unit 2: In addition to leaving all ponderosa pine and hardwoods there are approximately 16 acres of leave tree areas marked with tags and white flagging.
Commercial species observed in sale area, but not in cruise:	Lodgepole pine There will be a few ponderosa pine removed in road construction.
Utility wood:	Comprised of non-board foot volume and volume below the minimum top diameter of 5" or 40% of DOB at 16' to a minimum of a 2.6" top.
Status codes used:	D - Dead
Sort codes used	D – saw log, U – utility log, F - firewood
Species table used:	NE 2 inch
Grade table used:	Eastgrad
Other tables used:	

**Field Observations:**

Location:	12 to 15 miles west of Republic, WA in east central Okanogan County.
Aspect:	North, East, South and West
Elevation:	3360 to 4560
Slope:	Unit 1 – 0% to 35%, Average 20% Unit 2 – 0% to 65%, Average 35% Unit 3 – 0% to 50%, Average 25% Unit 4 – 0% to 65%, Average 30% Unit 5 – 0% to 30%, Average 20% Unit 6 – 0% to 35%, Average 20% Unit 7 – 0% to 45%, Average 25%
Harvest Methods:	100% Ground base yarding with the longest skidding of 1600 feet.
Stand Composition:	The stands are second growth Douglas-fir, ponderosa pine and western larch with larger residual trees. There is a minor component of engelmann spruce.
Stand Health:	There is evidence of western spruce budworm in units 1 and 2. There is heavy mistletoe in most of the Douglas-fir and moderate mistletoe in the western larch.
Timber Quality:	The timber is a mix of fair quality Douglas-fir (88%), western larch (12%) and engelmann spruce (<1%).
Non-board Foot Volume:	174 mbf of the total sale volume is comprised of utility wood, of which there is 74 mbf of Douglas-fir firewood and 22 mbf western larch firewood.
Other Considerations:	

**Trust and Counties****Trust:** 03 - 100%**County:** 100% Okanogan County**Prepared by:** Jim Putnam**Title:** Timber Cruiser and Small Sales Forester**CC:** Timber Sales Document Center & File # 30-092773

TC PSPCSTGR **Species, Sort Grade - Board Foot Volumes (Project)**

T36N R30E S26 Ty00U3 THRU T38N R30E S36 Ty00U5	<b>Project: CAPELAB</b> <b>Acres 396.00</b>	<b>Page 1</b> <b>Date 2/8/2016</b> <b>Time 2:18:31PM</b>
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S Spp	So T	Gr rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre		
				Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf			
								4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99							
WL	D	2	24	2.2	296	289	115			100				100				32	13	222	1.55	1.3
WL	D	3	47	.2	543	542	215			100				100				32	8	83	0.58	6.5
WL	D	4	26		297	297	118	67	33				21	79				25	5	34	0.27	8.7
WL	U	UT	3		31	31	12	100						100				15	3	10	0.13	3.1
<b>WL Totals</b>			11	.7	1,166	1,158	459	20	55	25			8	92				26	6	59	0.49	19.7
WL	D	F W	100		54	54	22	10	90				10	28	61			30	7	60	0.64	.9
<b>WL Totals</b>			1		54	54	22	10	90				10	28	61			30	7	60	0.64	.9
DF	D	2	15	6.2	1,484	1,391	551			66	34			100				31	14	281	1.76	4.9
DF	D	3	55	2.7	4,915	4,780	1,893			96	3	1	0	100				32	8	100	0.72	47.7
DF	D	4	28	4.2	2,476	2,372	939	57	28	6	10	24	76					24	5	35	0.34	68.4
DF	U	UT	2	1.0	167	166	66	87	13					100				16	4	10	0.16	16.4
<b>DF Totals</b>			86	3.7	9,042	8,709	3,449	17	60	14	9	9	91					26	7	63	0.55	137.5
DF	D	F W	100	4.6	197	188	74	3	27	54	15	1	46	53				33	10	178	1.42	1.1
<b>DF Totals</b>			2	4.6	197	188	74	3	27	54	15	1	46	53				33	10	178	1.42	1.1
ES	D	3	73		13	13	5			100				100				32	10	140	0.97	.1
ES	D	4	27		5	5	2	100						100				32	5	50	0.34	.1
ES	U	UT																12	3		0.09	.1
<b>ES Totals</b>			0		17	17	7	26	74					100				25	6	63	0.57	.3
<b>Totals</b>				3.3	10,477	10,127	4,010	17	59	16	8	8	90	1				26	7	63	0.55	159.5

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT CAPELAB							DATE	2/8/2016	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
36N 38N	30E 30E	26 36	CAPE LABELLE CAPE LABELLE	00U3 00U5	THR	396.00	262	760	S	E	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			262	760	2.9						
CRUISE			114	193	1.7	35,026	.6				
DBH COUNT											
REFOREST											
COUNT			106	245	2.3						
BLANKS			42								
100 %											
STAND SUMMARY											
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR		173	77.6	12.7	66	19.2	68.6	9,042	8,709	1,974	1,962
DOUG FIR-D		7	.5	22.5	68	0.3	1.5	197	188	49	49
W LARCH		30	9.7	12.6	75	2.4	8.3	1,166	1,158	254	254
W LARCH-D		4	.5	14.5	75	0.2	.6	54	54	18	18
E SPRUCE		1	.1	14.6	88	0.0	.1	17	17	4	4
<b>TOTAL</b>		<i>215</i>	<i>88.5</i>	<i>12.8</i>	<i>67</i>	<i>22.1</i>	<i>79.1</i>	<i>10,477</i>	<i>10,127</i>	<i>2,299</i>	<i>2,286</i>
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR		95.0	7.4	179	193	207					
DOUG FIR-D		44.6	18.2	332	406	479					
W LARCH		72.3	13.4	145	167	190					
W LARCH-D		35.9	20.5	85	108	130					
E SPRUCE											
<b>TOTAL</b>		<i>91.2</i>	<i>6.4</i>	<i>183</i>	<i>195</i>	<i>207</i>	<i>333</i>	<i>170</i>	<i>83</i>		
CL	68.1	COEFF		TREES/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR		73.0	4.5	74	78	81					
DOUG FIR-D		566.5	35.0	0	1	1					
W LARCH		244.1	15.1	8	10	11					
W LARCH-D		871.1	53.8	0	1	1					
E SPRUCE		1618.6	100.0	0	0	0					
<b>TOTAL</b>		<i>59.2</i>	<i>3.7</i>	<i>85</i>	<i>88</i>	<i>92</i>	<i>140</i>	<i>72</i>	<i>35</i>		
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR		63.3	3.9	66	69	71					
DOUG FIR-D		564.5	34.9	1	1	2					
W LARCH		226.4	14.0	7	8	10					
W LARCH-D		852.3	52.7	0	1	1					
E SPRUCE		1618.6	100.0	0	0	0					
<b>TOTAL</b>		<i>47.2</i>	<i>2.9</i>	<i>77</i>	<i>79</i>	<i>81</i>	<i>89</i>	<i>46</i>	<i>22</i>		
CL	68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR		64.9	4.0	8,360	8,709	9,059					
DOUG FIR-D		570.6	35.3	122	188	254					
W LARCH		231.4	14.3	993	1,158	1,324					
W LARCH-D		861.6	53.2	25	54	83					
E SPRUCE		1618.6	100.0	0	17	34					
<b>TOTAL</b>		<i>48.9</i>	<i>3.0</i>	<i>9,821</i>	<i>10,127</i>	<i>10,434</i>	<i>96</i>	<i>49</i>	<i>24</i>		

**PROJECT STATISTICS**  
**PROJECT CAPELAB**

TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
36N	30E	26	CAPE LABELLE	00U3	THR	396.00	262	760	S	E
38N	30E	36	CAPE LABELLE	00U5						

CL	68.1	COEFF		V BAR/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10
DOUG FIR				122	127	132			
DOUG FIR-D		401.6	24.8	83	128	173			
W LARCH		142.5	8.8	119	139	159			
W LARCH-D		798.2	49.3	42	89	137			
E SPRUCE		1618.6	100.0	0	163	327			
<b>TOTAL</b>		<i>60.2</i>	<i>3.7</i>	<i>124</i>	<i>128</i>	<i>132</i>	<i>145</i>	<i>74</i>	<i>36</i>

<b>T37N R30E S36 T00U1</b>										<b>T37N R30E S36 T00U1</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>37N</b>	<b>30E</b>	<b>36</b>	<b>CAPE LABELLE</b>	<b>00U1</b>	<b>34.42</b>	<b>23</b>	<b>15</b>	<b>S</b>	<b>E</b>					

Spp	S	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99						
DF	D	2		25	14.3	1,841	1,578	54			67	33		100				27	14	233	1.60	6.8
DF	D	3		62	6.0	4,074	3,828	132		100				100				31	9	101	0.77	37.8
DF	D	4		12		712	712	25	100					40	60			22	5	26	0.29	27.4
DF	U	UT		1		62	62	2	100					100				16	3	6	0.15	9.8
<b>DF</b>	<b>Totals</b>			<b>76</b>	<b>7.6</b>	<b>6,688</b>	<b>6,180</b>	<b>213</b>	<b>13</b>	<b>62</b>	<b>17</b>	<b>8</b>	<b>6</b>	<b>94</b>				<b>26</b>	<b>7</b>	<b>76</b>	<b>0.66</b>	<b>81.8</b>
WL	D	2		33		580	580	20			100			100				32	13	210	1.45	2.8
WL	D	3		48		846	846	29		100				100				32	7	67	0.41	12.7
WL	D	4		11		199	199	7	100					100				18	5	20	0.20	10.0
WL	U	UT		8		127	127	4	100					100				15	3	10	0.10	12.7
<b>WL</b>	<b>Totals</b>			<b>22</b>		<b>1,753</b>	<b>1,753</b>	<b>60</b>	<b>19</b>	<b>48</b>	<b>33</b>		<b>19</b>	<b>81</b>				<b>23</b>	<b>6</b>	<b>46</b>	<b>0.40</b>	<b>38.2</b>
ES	D	3		73		145	145	5		100				100				32	10	140	0.97	1.0
ES	D	4		27		52	52	2	100					100				32	5	50	0.34	1.0
ES	U	UT																12	3		0.09	1.0
<b>ES</b>	<b>Totals</b>			<b>2</b>		<b>197</b>	<b>197</b>	<b>7</b>	<b>26</b>	<b>74</b>				<b>100</b>				<b>25</b>	<b>6</b>	<b>63</b>	<b>0.57</b>	<b>3.1</b>
<b>Type Totals</b>					<b>5.9</b>	<b>8,638</b>	<b>8,130</b>	<b>280</b>	<b>14</b>	<b>59</b>	<b>20</b>	<b>6</b>	<b>8</b>	<b>92</b>				<b>25</b>	<b>7</b>	<b>66</b>	<b>0.58</b>	<b>123.0</b>

<b>T37N R30E S36 T00U2</b>		<b>T37N R30E S36 T00U2</b>
<b>Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt</b>		<b>BdFt</b>
<b>37N 30E 36 CAPE LABELLE 00U2 168.44 124 67 S</b>		<b>E</b>

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99						
DF	D	2		13	3.3	1,112	1,075	181			32	68		100				32	15	338	1.94	3.2
DF	D	3		56	1.6	4,701	4,624	779		100				0	100			32	8	101	0.71	45.8
DF	D	4		29	2.9	2,435	2,364	398	66	28	6			23	77			24	5	32	0.30	73.3
DF	U	UT		2		120	120	20	100					100				16	3	9	0.16	13.7
<b>DF</b>	<b>Totals</b>			87	2.2	8,368	8,184	1,379	20	65	6	9		8	92			26	6	60	0.50	135.9
WL	D	2		13		155	155	26			100			100				32	14	250	1.32	.6
WL	D	3		51		600	600	101		100				100				32	8	82	0.61	7.3
WL	D	4		35		415	415	70	74	26				16	84			26	5	34	0.28	12.3
WL	U	UT		1		6	6	1	100					100				14	3	10	0.12	.6
<b>WL</b>	<b>Totals</b>			13		1,176	1,176	198	27	60	13			6	94			28	6	56	0.44	20.9
<b>Type Totals</b>						1.9	9,543	9,360	1,577	21	64	7	8		8	92		26	6	60	0.50	156.8

<b>T36N R30E S26 T00U3</b>									<b>T36N R30E S26 T00U3</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>				
<b>36N</b>	<b>30E</b>	<b>26</b>	<b>CAPE LABELLE</b>	<b>00U3</b>	<b>53.82</b>	<b>33</b>	<b>22</b>	<b>S</b>	<b>E</b>				

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
									4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99						
DF	D	3		63	2.0	5,083	4,983	268	100				100				32	8	100	0.66	49.8	
DF	D	4		31	3.0	2,575	2,498	134	58	42			21	79			24	5	31	0.32	81.1	
DF	U	UT		6	396		396	21	59	41			100				16	4	13	0.17	31.4	
<b>DF</b>	<b>Totals</b>			<b>92</b>	<b>2.2</b>	<b>8,053</b>	<b>7,877</b>	<b>424</b>	<b>21</b>	<b>79</b>			<b>12</b>	<b>88</b>			<b>25</b>	<b>6</b>	<b>49</b>	<b>0.43</b>	<b>162.3</b>	
WL	D	2		23	165		165	9	100				100				32	16	340	2.02	.5	
WL	D	3		68	475		475	26	100				100				32	8	90	0.60	5.3	
WL	D	4		6	42		42	2	77	23			100				18	5	20	0.27	2.1	
WL	U	UT		3	16		16	1	100				100				14	3	10	0.12	1.6	
<b>WL</b>	<b>Totals</b>			<b>8</b>	<b>.0</b>	<b>698</b>	<b>698</b>	<b>38</b>	<b>7</b>	<b>69</b>	<b>24</b>			<b>8</b>	<b>92</b>			<b>26</b>	<b>7</b>	<b>74</b>	<b>0.59</b>	<b>9.4</b>
<b>Type Totals</b>					<b>2.0</b>	<b>8,751</b>	<b>8,576</b>	<b>462</b>	<b>20</b>	<b>78</b>	<b>2</b>			<b>11</b>	<b>89</b>			<b>25</b>	<b>6</b>	<b>50</b>	<b>0.44</b>	<b>171.7</b>

T37N R30E S30 T00U4			T37N R30E S30 T00U4
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt			BdFt
37N 30E 30 CAPE LABELLE 00U4		78.42 45 40	S E

Spp	Sp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log			Logs Per /Acre						
									Net BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/Lf	
														4-5	6-11	12-16	17+	12-20	21-32		33-55					56-99
DF	D	2		24	3.9	2,355	2,263	177			85	15			100			32	14	280	1.74	8.1				
DF	D	3		40	6.7	3,818	3,562	279			72	22	6		100			31	10	134	0.99	26.5				
DF	D	4		35	8.6	3,437	3,142	246	25	26	12	37		17	83			25	7	59	0.55	53.2				
DF	U	UT		1	8.8	99	90	7	100					100				15	3	8	0.18	11.7				
<b>DF</b>	<b>Totals</b>			81	6.7	9,709	9,057	710	10	37	34	19		7	93			26	8	91	0.78	99.5				
DF	D F	WD		100	4.6	994	949	74	3	27	54	15		1	46	53		33	10	178	1.42	5.3				
<b>DF</b>	<b>D</b>	<b>Totals</b>		8	4.6	994	949	74	3	27	54	15		1	46	53		33	10	178	1.42	5.3				
WL	D	2		67		610	610	48			100				100			32	13	210	1.66	2.9				
WL	D	3		29		262	262	21		100					100			32	7	90	0.59	2.9				
WL	U	UT		4		29	29	2	100					100				16	3	10	0.16	2.9				
<b>WL</b>	<b>Totals</b>			8		901	901	71	3	29	68			3	97			27	8	103	0.93	8.7				
WL	D F	WD		100		275	275	22	10	90				10	28	61		30	7	60	0.64	4.6				
<b>WL</b>	<b>D</b>	<b>Totals</b>		2		275	275	22	10	90				10	28	61		30	7	60	0.64	4.6				
<b>Type Totals</b>					5.9	11,879	11,182	877	9	37	38	17		6	88	6		27	8	95	0.82	118.2				



<b>T38N R30E S36 T00U6</b>										<b>T38N R30E S36 T00U6</b>				
<b>Twp</b>	<b>Rge</b>	<b>Sec</b>	<b>Tract</b>	<b>Type</b>	<b>Acres</b>	<b>Plots</b>	<b>Sample Trees</b>	<b>CuFt</b>	<b>BdFt</b>					
<b>38N</b>	<b>30E</b>	<b>36</b>	<b>CAPE LABEL</b>	<b>00U6</b>	<b>20.13</b>	<b>11</b>	<b>40</b>	<b>S</b>	<b>E</b>					

Spp	Sp	T	So	Gr	ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
											Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft		CF/ Lf	
											4-5	6-11	12-16	17+	12-20	21-32	33-55	56-99						
DF		D	2			20	9.5	4,081	3,694	74			74	26		100				32	15	287	1.86	12.9
DF		D	3			55	3.1	10,425	10,098	203		100		0		100				32	7	76	0.57	133.5
DF		D	4			20	2.7	3,806	3,701	75	72	28			40	60				21	5	26	0.33	144.9
DF		U	UT			5		740	740	15	100				100					16	4	13	0.15	56.9
<b>DF</b>	<b>Totals</b>					98	4.3	19,052	18,234	367	19	61	15	5	12	88				25	6	52	0.51	348.2
WL		D	2			65	38.2	339	209	4			100			100				32	16	210	2.14	1.0
WL		D	3			35		110	110	2		100				100				32	8	110	0.87	1.0
WL		U	UT																	12	3		0.20	1.0
<b>WL</b>	<b>Totals</b>					2	28.9	449	319	6	34	66			100					25	9	107	1.30	3.0
<b>Type Totals</b>							4.9	19,501	18,553	373	18	60	16	5	12	88				25	6	53	0.51	351.2



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

T36N R30E S26 Ty00U3	53.8
T37N R30E S30 Ty00U4	78.4
T38N R30E S36 Ty00U	20.1

**Project CAPELAB**  
**Acres 396.00**

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**Date: 2/8/2016**  
**Time 2:18:32PM**

Species	S T	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
		Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
DOUG FIR		30,745	54,468	22,284	25.27	14.26	0.55	7,819	7,770	3,581	3,449
W LARCH		3,824	7,801	2,412	26.28	12.88	0.49	1,005	1,005	462	459
DOUG FIR	D	210	419	554	92.78	46.39	1.41	194	194	78	74
W LARCH	D	212	362	166	32.67	19.17	0.64	69	69	22	22
E SPRUCE		36	107	40	43.09	14.36	0.57	15	15	7	7
<b>Totals</b>		35,026	63,158	25,456	25.85	14.34	0.55	9,103	9,054	4,149	4,010

Wood Type Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
C	35,026	63,158	25,456	25.85	14.34	0.55	9,103	9,054	4,149	4,010
<b>Totals</b>	35,026	63,158	25,456	25.85	14.34	0.55	9,103	9,054	4,149	4,010



**Log Stock Table - MBF**

T36N R30E S26 Ty00U3  
THRU  
T38N R30E S36 Ty00U5

**Project: CAPELAB**  
**Acres 396.00**

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**Date 2/8/2016**  
**Time 2:18:30PM**

Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
									2-4	5-6	7-10	11-12	13-14	15-16	17-18	19-20	21-30	31-40	41-70	71+
DF		D	4	26	15		15	.4		15										
DF		D	4	28	69		69	2.0		69										
DF		D	4	30	58		58	1.7		58										
DF		D	4	32	522	5.5	493	14.3		327	11	47	15		45	47				
DF		U	UT	14	15		15	.4		6	9									
DF		U	UT	15	3		3	.1		3										
DF		U	UT	16	34		34	1.0		26	8									
DF		U	UT	18	8	8.9	7	.2		7										
DF		U	UT	19	3		3	.1		3										
DF		U	UT	20	3		3	.1		3										
DF		Totals			3,581	3.7	3,449	86.0		48	898	1377	463	198	168	232	64			
DF	D	F	W	20	1		1	1.3		1										
DF	D	F	W	30	4		4	5.9		2	2									
DF	D	F	W	32	33	9.2	30	39.9		3	5	7	8	7						
DF	D	F	W	35	3	21.4	2	2.7			2									
DF	D	F	W	40	37		37	50.3			8		9	9	11					
DF		Totals			78	4.6	74	1.9		6	17	7	17	16	11					
ES		D	3	32	5		5	73.7			5									
ES		D	4	32	2		2	26.3			2									
ES		Totals			7		7	.2		2	5									
Total		All Species			4,149	3.3	4,010	100.0		61	1022	1629	485	310	197	243	64			



**Project Log Stock Table - TONS(SED)**

T36N R30E S26 Ty00U3  
THRU  
T38N R30E S36 Ty00U5

**Project: CAPELAB**  
**Acres 396.00**

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**Date 2/8/2016**  
**Time 2:18:31PM**

Spp	S T	So rt	Gr de	Log Len	SED	TONS	Tons by Scaling Diameter in Inches										
							2-4	5-6	7-10	11-12	13-14	15-16	17-18	19-20	21-30	31-40	41-70
DF		D	4	20	5.5	662		572	90								
DF		D	4	22	5.0	95		95									
DF		D	4	24	5.1	439		439									
DF		D	4	26	5.1	120		120									
DF		D	4	28	5.1	483		483									
DF		D	4	30	5.0	439		439									
DF		D	4	32	6.0	3,177		2225	59	252	120	264	257				
DF		U	UT	11	3.0												
DF		U	UT	12	3.0	33	33										
DF		U	UT	14	4.3	94	38	56									
DF		U	UT	15	3.0	17	17										
DF		U	UT	16	4.1	211	179	32									
DF		U	UT	18	3.0	69	69										
DF		U	UT	19	3.0	36	36										
DF		U	UT	20	3.0	22	22										
Graded						22284	394	6221	8927	2965	1157	980	1263	378			
DF		Totals			6.5	22,284	394	6221	8927	2965	1157	980	1263	378			
DF	D	F	W	20	6.0	10	10										
DF	D	F	W	30	6.9	29	14	15									
DF	D	F	W	32	10.0	225	18	37	57	57	57						
DF	D	F	W	35	8.0	19		19									
DF	D	F	W	40	13.2	270		67		67	67	69					
Graded						554	42	139	57	124	124	69					
DF		Totals			10.0	554	42	139	57	124	124	69					
ES		D	3	32	10.0	29		29									
ES		D	4	32	5.0	10	10										
ES		U	UT	12	3.0	1	1										
Graded						40	1	10	29								
ES		Totals			6.0	40	1	10	29								
Total		All Species				25,456	453	6855	10380	3098	1784	1177	1332	378			

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT CAPELAB				DATE	2/8/2016	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
37N	30E	36	CAPE LABELLE	00U1	34.42	23	52	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	23	52	2.3							
CRUISE	10	15	1.5	1,968		.8				
DBH COUNT										
REFOREST										
COUNT	9	17	1.9							
BLANKS	4									
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	12	43.4	14.6	67	13.3	50.7	6,688	6,180	1,482	1,413
W LARCH	2	12.7	12.5	80	3.1	10.9	1,753	1,753	350	350
E SPRUCE	1	1.0	14.6	88	0.3	1.2	197	197	45	45
<b>TOTAL</b>	<b>15</b>	<b>57.2</b>	<b>14.2</b>	<b>70</b>	<b>16.7</b>	<b>62.8</b>	<b>8,638</b>	<b>8,130</b>	<b>1,877</b>	<b>1,808</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				<b># OF TREES REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	82.9	25.0	168	223	279					
W LARCH	77.8	72.9	54	200	346					
E SPRUCE										
<b>TOTAL</b>	<b>77.8</b>	<b>20.8</b>	<b>173</b>	<b>218</b>	<b>263</b>	<b>260</b>	<b>132</b>	<b>65</b>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	63.0	13.4	38	43	49					
W LARCH	204.7	43.7	7	13	18					
E SPRUCE	479.6	102.3		1	2					
<b>TOTAL</b>	<b>33.1</b>	<b>7.1</b>	<b>53</b>	<b>57</b>	<b>61</b>	<b>46</b>	<b>23</b>	<b>11</b>		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	58.7	12.5	44	51	57					
W LARCH	200.0	42.6	6	11	16					
E SPRUCE	479.6	102.3		1	2					
<b>TOTAL</b>	<b>30.5</b>	<b>6.5</b>	<b>59</b>	<b>63</b>	<b>67</b>	<b>39</b>	<b>20</b>	<b>10</b>		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	64.9	13.8	5,325	6,180	7,036					
W LARCH	200.0	42.6	1,005	1,753	2,500					
E SPRUCE	479.6	102.3		197	399					
<b>TOTAL</b>	<b>36.6</b>	<b>7.8</b>	<b>7,496</b>	<b>8,130</b>	<b>8,764</b>	<b>56</b>	<b>29</b>	<b>14</b>		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			105	122	139					
W LARCH			92	161	230					
E SPRUCE	479.6	102.3		163	331					
<b>TOTAL</b>	<b>361.1</b>	<b>77.0</b>	<b>119</b>	<b>129</b>	<b>140</b>	<b>5,452</b>	<b>2,782</b>	<b>1,363</b>		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT		CAPELAB		DATE	2/8/2016	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
37N	30E	36	CAPE LABELLE	00U2	168.44	124	331	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	124	331	2.7							
CRUISE	43	67	1.6	15,841			.4			
DBH COUNT										
REFOREST										
COUNT	55	122	2.2							
BLANKS	26									
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	59	81.7	12.1	63	18.7	65.2	8,368	8,184	1,812	1,798
W LARCH	8	12.3	11.6	72	2.6	9.0	1,176	1,176	257	257
<b>TOTAL</b>	<b>67</b>	<b>94.0</b>	<b>12.0</b>	<b>64</b>	<b>21.4</b>	<b>74.2</b>	<b>9,543</b>	<b>9,360</b>	<b>2,069</b>	<b>2,054</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	91.3	12.0	149	169	190					
W LARCH	94.0	35.5	84	130	176					
<b>TOTAL</b>	<b>91.7</b>	<b>11.3</b>	<b>146</b>	<b>165</b>	<b>183</b>	<b>336</b>	<b>171</b>	<b>84</b>		
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	69.9	6.3	77	82	87					
W LARCH	189.9	17.1	10	12	14					
<b>TOTAL</b>	<b>57.8</b>	<b>5.2</b>	<b>89</b>	<b>94</b>	<b>99</b>	<b>133</b>	<b>68</b>	<b>33</b>		
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	69.2	6.2	61	65	69					
W LARCH	187.7	16.9	7	9	10					
<b>TOTAL</b>	<b>57.3</b>	<b>5.1</b>	<b>70</b>	<b>74</b>	<b>78</b>	<b>131</b>	<b>67</b>	<b>33</b>		
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	70.6	6.3	7,665	8,184	8,703					
W LARCH	186.8	16.8	978	1,176	1,373					
<b>TOTAL</b>	<b>58.2</b>	<b>5.2</b>	<b>8,870</b>	<b>9,360</b>	<b>9,849</b>	<b>136</b>	<b>69</b>	<b>34</b>		
CL: 68.1 %	COEFF	V-BAR/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			118	126	133					
W LARCH	23.1	2.1	109	131	153					
<b>TOTAL</b>	<b>564.6</b>	<b>50.7</b>	<b>120</b>	<b>126</b>	<b>133</b>	<b>12,749</b>	<b>6,505</b>	<b>3,187</b>		

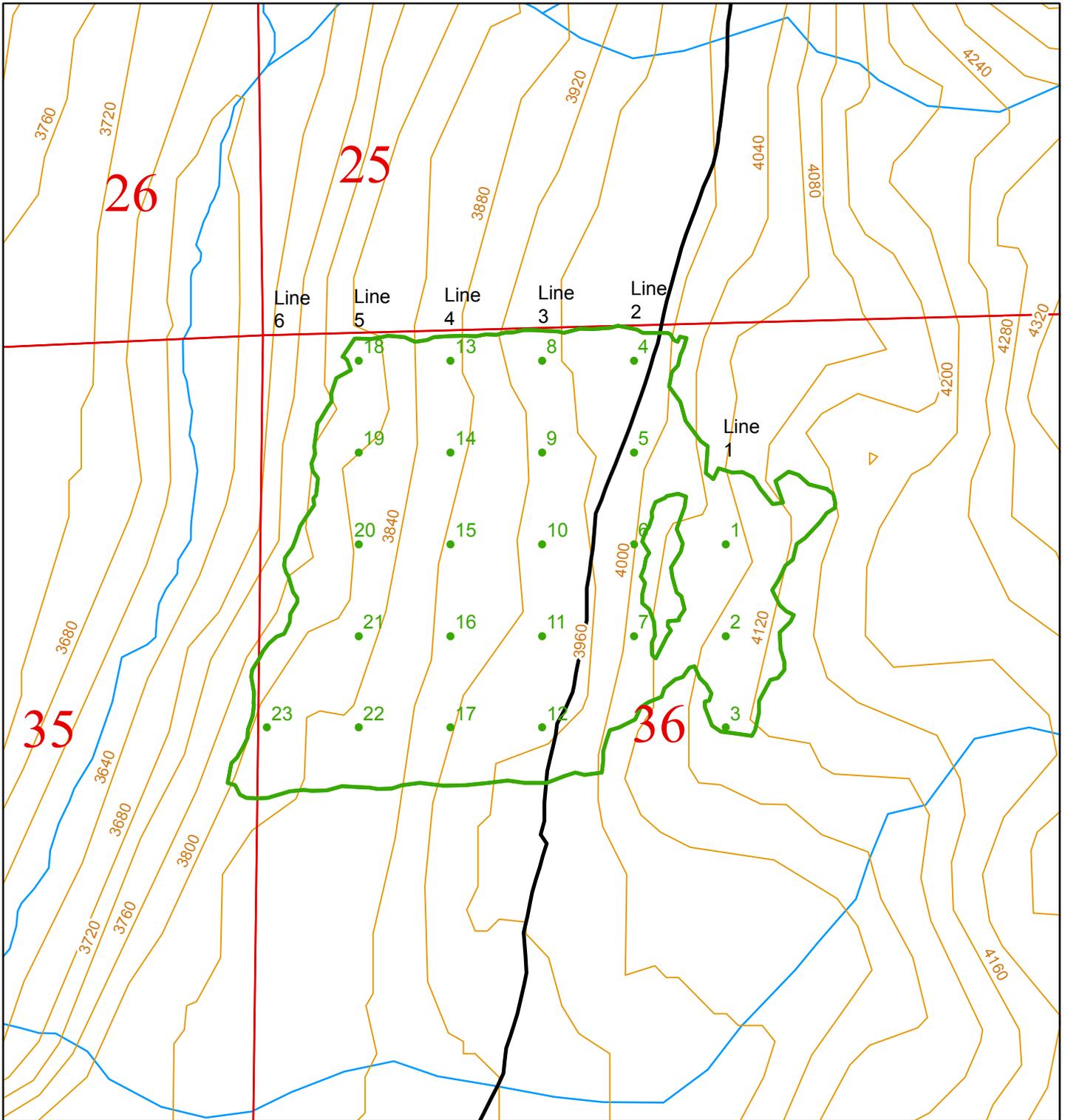
TC TSTATS		<b>STATISTICS</b>							PAGE	1
		<b>PROJECT CAPELAB</b>					DATE	2/8/2016		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	30E	26	CAPE LABELLE	00U3	53.82	33	115	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		33	115	3.5						
CRUISE		13	22	1.7	5,000	.4				
DBH COUNT										
REFOREST										
COUNT		15	41	2.7						
BLANKS		5								
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	19	89.2	11.6	65	19.2	65.5	8,053	7,877	1,756	1,756
W LARCH	3	3.7	14.5	83	1.1	4.2	698	698	145	145
<b>TOTAL</b>	<b>22</b>	<b>92.9</b>	<b>11.7</b>	<b>66</b>	<b>20.4</b>	<b>69.7</b>	<b>8,751</b>	<b>8,576</b>	<b>1,901</b>	<b>1,901</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>					<b># OF TREES REQ.</b>		<b>INF. POP.</b>	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	54.3	12.8	96	110	124					
W LARCH	84.4	58.4	111	267	423					
<b>TOTAL</b>	<b>79.5</b>	<b>17.3</b>	<b>109</b>	<b>131</b>	<b>154</b>	<b>265</b>	<b>135</b>	<b>66</b>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>					<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	50.2	8.7	81	89	97					
W LARCH	251.4	43.8	2	4	5					
<b>TOTAL</b>	<b>46.4</b>	<b>8.1</b>	<b>85</b>	<b>93</b>	<b>100</b>	<b>86</b>	<b>44</b>	<b>22</b>		
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>					<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	48.5	8.4	60	65	71					
W LARCH	257.1	44.7	2	4	6					
<b>TOTAL</b>	<b>43.7</b>	<b>7.6</b>	<b>64</b>	<b>70</b>	<b>75</b>	<b>76</b>	<b>39</b>	<b>19</b>		
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>					<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	48.3	8.4	7,215	7,877	8,540					
W LARCH	251.4	43.8	393	698	1,004					
<b>TOTAL</b>	<b>43.1</b>	<b>7.5</b>	<b>7,932</b>	<b>8,576</b>	<b>9,219</b>	<b>74</b>	<b>38</b>	<b>19</b>		
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>					<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			110	120	130					
W LARCH	146.8	25.5	93	165	237					
<b>TOTAL</b>	<b>552.1</b>	<b>96.1</b>	<b>114</b>	<b>123</b>	<b>132</b>	<b>12,194</b>	<b>6,222</b>	<b>3,049</b>		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT CAPELAB				DATE	2/8/2016	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
37N	30E	30	CAPE LABELLE	00U4	78.42	45	131	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	45	131	2.9							
CRUISE	27	39	1.4	4,895		.8				
DBH COUNT										
REFOREST										
COUNT	15	37	2.5							
BLANKS	3									
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	27	54.1	14.7	66	16.6	63.6	9,709	9,057	2,029	2,028
DOUG FIR-D	7	2.7	22.5	68	1.6	7.4	994	949	248	248
W LARCH	1	2.9	20.7	73	1.5	6.8	901	901	217	217
W LARCH-D	4	2.7	14.5	75	0.8	3.1	275	275	88	88
<b>TOTAL</b>	<b>39</b>	<b>62.4</b>	<b>15.4</b>	<b>67</b>	<b>20.6</b>	<b>80.9</b>	<b>11,879</b>	<b>11,182</b>	<b>2,582</b>	<b>2,582</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	77.4	15.2	290	342	394					
DOUG FIR-D	44.6	18.2	332	406	479					
W LARCH										
W LARCH-D	35.9	20.5	85	108	130					
<b>TOTAL</b>	<b>74.3</b>	<b>11.9</b>	<b>289</b>	<b>328</b>	<b>368</b>	<b>221</b>	<b>113</b>	<b>55</b>		
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	72.5	10.8	48	54	60					
DOUG FIR-D	218.4	32.6	2	3	4					
W LARCH	233.3	34.8	2	3	4					
W LARCH-D	352.6	52.6	1	3	4					
<b>TOTAL</b>	<b>50.4</b>	<b>7.5</b>	<b>58</b>	<b>62</b>	<b>67</b>	<b>101</b>	<b>52</b>	<b>25</b>		
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	55.6	8.3	58	64	69					
DOUG FIR-D	217.5	32.4	5	7	10					
W LARCH	233.3	34.8	4	7	9					
W LARCH-D	344.4	51.3	2	3	5					
<b>TOTAL</b>	<b>17.7</b>	<b>2.6</b>	<b>79</b>	<b>81</b>	<b>83</b>	<b>12</b>	<b>6</b>	<b>3</b>		
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	57.0	8.5	8,287	9,057	9,827					
DOUG FIR-D	220.3	32.8	637	949	1,261					
W LARCH	233.3	34.8	587	901	1,214					
W LARCH-D	348.5	51.9	132	275	418					
<b>TOTAL</b>	<b>25.1</b>	<b>3.7</b>	<b>10,764</b>	<b>11,182</b>	<b>11,600</b>	<b>25</b>	<b>13</b>	<b>6</b>		
CL: 68.1 %	COEFF	V-BAR/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			130	142	155					
DOUG FIR-D	140.5	20.9	86	128	170					
W LARCH			87	133	179					
W LARCH-D	321.0	47.8	43	89	135					
<b>TOTAL</b>	<b>346.3</b>	<b>51.6</b>	<b>133</b>	<b>138</b>	<b>143</b>	<b>4,796</b>	<b>2,447</b>	<b>1,199</b>		

TC TSTATS		STATISTICS					PAGE	1		
		PROJECT CAPELAB					DATE	2/8/2016		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	30E	36	CAPE LABELLE	00U5	5.00	4	14	S	E	
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL		4	14	3.5						
CRUISE		4	14	3.5	652	2.1				
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
W LARCH	12	107.5	11.9	81	24.1	83.3	12,120	12,022	2,649	2,649
DOUG FIR	2	23.0	10.5	26	4.3	13.9	1,178	1,178	297	297
<b>TOTAL</b>	<b>14</b>	<b>130.5</b>	<b>11.7</b>	<b>71</b>	<b>28.4</b>	<b>97.2</b>	<b>13,298</b>	<b>13,200</b>	<b>2,947</b>	<b>2,947</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	55.8	16.8	128	153	179					
DOUG FIR	120.5	112.9		135	287					
<b>TOTAL</b>	<b>60.4</b>	<b>16.7</b>	<b>125</b>	<b>151</b>	<b>176</b>	<b>157</b>	<b>80</b>	<b>39</b>		
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	106.1	60.6	42	107	173					
DOUG FIR	200.0	114.4		23	49					
<b>TOTAL</b>	<b>70.7</b>	<b>40.4</b>	<b>78</b>	<b>130</b>	<b>183</b>	<b>262</b>	<b>133</b>	<b>65</b>		
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	98.1	56.1	37	83	130					
DOUG FIR	200.0	114.4		14	30					
<b>TOTAL</b>	<b>68.0</b>	<b>38.9</b>	<b>59</b>	<b>97</b>	<b>135</b>	<b>242</b>	<b>124</b>	<b>61</b>		
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	101.0	57.8	5,078	12,022	18,966					
DOUG FIR	200.0	114.4		1,178	2,526					
<b>TOTAL</b>	<b>81.3</b>	<b>46.5</b>	<b>7,061</b>	<b>13,200</b>	<b>19,339</b>	<b>346</b>	<b>177</b>	<b>87</b>		
CL: 68.1 %	COEFF	V-BAR/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
W LARCH	101.0	57.8	61	144	228					
DOUG FIR	200.0	114.4		85	182					
<b>TOTAL</b>	<b>81.3</b>	<b>46.5</b>	<b>73</b>	<b>136</b>	<b>199</b>	<b>346</b>	<b>177</b>	<b>87</b>		

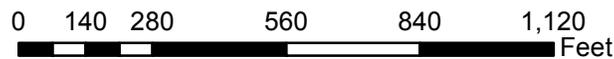
TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	CAPELAB			DATE	2/8/2016	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	30E	36	CAPE LABEL	00U6	20.13	11	49	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	11	49	4.5							
CRUISE	7	18	2.6	3,792			.5			
DBH COUNT										
REFOREST										
COUNT	4	12	3.0							
BLANKS										
100 %										
<b>STAND SUMMARY</b>										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	39	187.4	12.0	73	42.6	147.8	19,052	18,234	4,368	4,368
W LARCH	1	1.0	23.7	69	0.6	3.1	449	319	99	99
<b>TOTAL</b>	<b>40</b>	<b>188.4</b>	<b>12.1</b>	<b>73</b>	<b>43.3</b>	<b>150.8</b>	<b>19,501</b>	<b>18,553</b>	<b>4,467</b>	<b>4,467</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	<b>SAMPLE TREES - BF</b>				<b># OF TREES REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	104.2	18.7	135	166	197					
W LARCH										
<b>TOTAL</b>	<b>100.8</b>	<b>17.8</b>	<b>140</b>	<b>171</b>	<b>201</b>	<b>407</b>	<b>208</b>	<b>102</b>		
CL: 68.1 %	COEFF	<b>TREES/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			187	187	187					
W LARCH	331.7	104.9			1	2				
<b>TOTAL</b>			<b>188</b>	<b>188</b>	<b>188</b>					
CL: 68.1 %	COEFF	<b>BASAL AREA/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			147	147	147					
W LARCH	331.7	104.9			3	6				
<b>TOTAL</b>			<b>150</b>	<b>150</b>	<b>150</b>					
CL: 68.1 %	COEFF	<b>NET BF/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			18,144	18,144	18,144					
W LARCH	331.7	104.9			319	654				
<b>TOTAL</b>			<b>18,463</b>	<b>18,463</b>	<b>18,463</b>					
CL: 68.1 %	COEFF	<b>V-BAR/ACRE</b>				<b># OF PLOTS REQ.</b>		<b>INF. POP.</b>		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			123	123	123					
W LARCH	331.7	104.9			104	214				
<b>TOTAL</b>	<b>266.6</b>	<b>84.3</b>	<b>122</b>	<b>122</b>	<b>122</b>	<b>3,126</b>	<b>1,595</b>	<b>782</b>		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	CAPELAB			DATE	2/8/2016	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	30E	13	CAPE LABELLE	00U7	35.77	22	68	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL	22	68	3.1							
CRUISE	10	18	1.8	2,877			.6			
DBH COUNT										
REFOREST										
COUNT	8	16	2.0							
BLANKS	4									
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	15	71.2	14.4	70	21.3	80.8	9,980	9,800	2,309	2,309
W LARCH	3	9.2	10.0	77	1.6	5.1	717	717	144	144
<b>TOTAL</b>	<b>18</b>	<b>80.4</b>	<b>14.0</b>	<b>71</b>	<b>23.0</b>	<b>85.9</b>	<b>10,697</b>	<b>10,517</b>	<b>2,453</b>	<b>2,453</b>
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	57.9	15.5	136	161	186					
W LARCH	75.2	52.1	50	103	157					
<b>TOTAL</b>	<b>60.4</b>	<b>14.6</b>	<b>129</b>	<b>152</b>	<b>174</b>	<b>154</b>	<b>79</b>	<b>39</b>		
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	43.9	9.6	64	71	78					
W LARCH	262.3	57.2	4	9	14					
<b>TOTAL</b>	<b>40.3</b>	<b>8.8</b>	<b>73</b>	<b>80</b>	<b>88</b>	<b>68</b>	<b>35</b>	<b>17</b>		
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	39.6	8.6	74	81	88					
W LARCH	275.6	60.1	2	5	8					
<b>TOTAL</b>	<b>33.0</b>	<b>7.2</b>	<b>80</b>	<b>86</b>	<b>92</b>	<b>46</b>	<b>23</b>	<b>11</b>		
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR	39.8	8.7	8,948	9,800	10,651					
W LARCH	291.5	63.6	261	717	1,173					
<b>TOTAL</b>	<b>32.6</b>	<b>7.1</b>	<b>9,768</b>	<b>10,517</b>	<b>11,266</b>	<b>45</b>	<b>23</b>	<b>11</b>		
CL: 68.1 %	COEFF	V-BAR/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	7	10		
DOUG FIR			111	121	132					
W LARCH	265.6	57.9	52	142	232					
<b>TOTAL</b>	<b>385.2</b>	<b>84.0</b>	<b>114</b>	<b>122</b>	<b>131</b>	<b>6,216</b>	<b>3,172</b>	<b>1,554</b>		



**FMU POLYGON AND SAMPLE POINT INFORMATION**

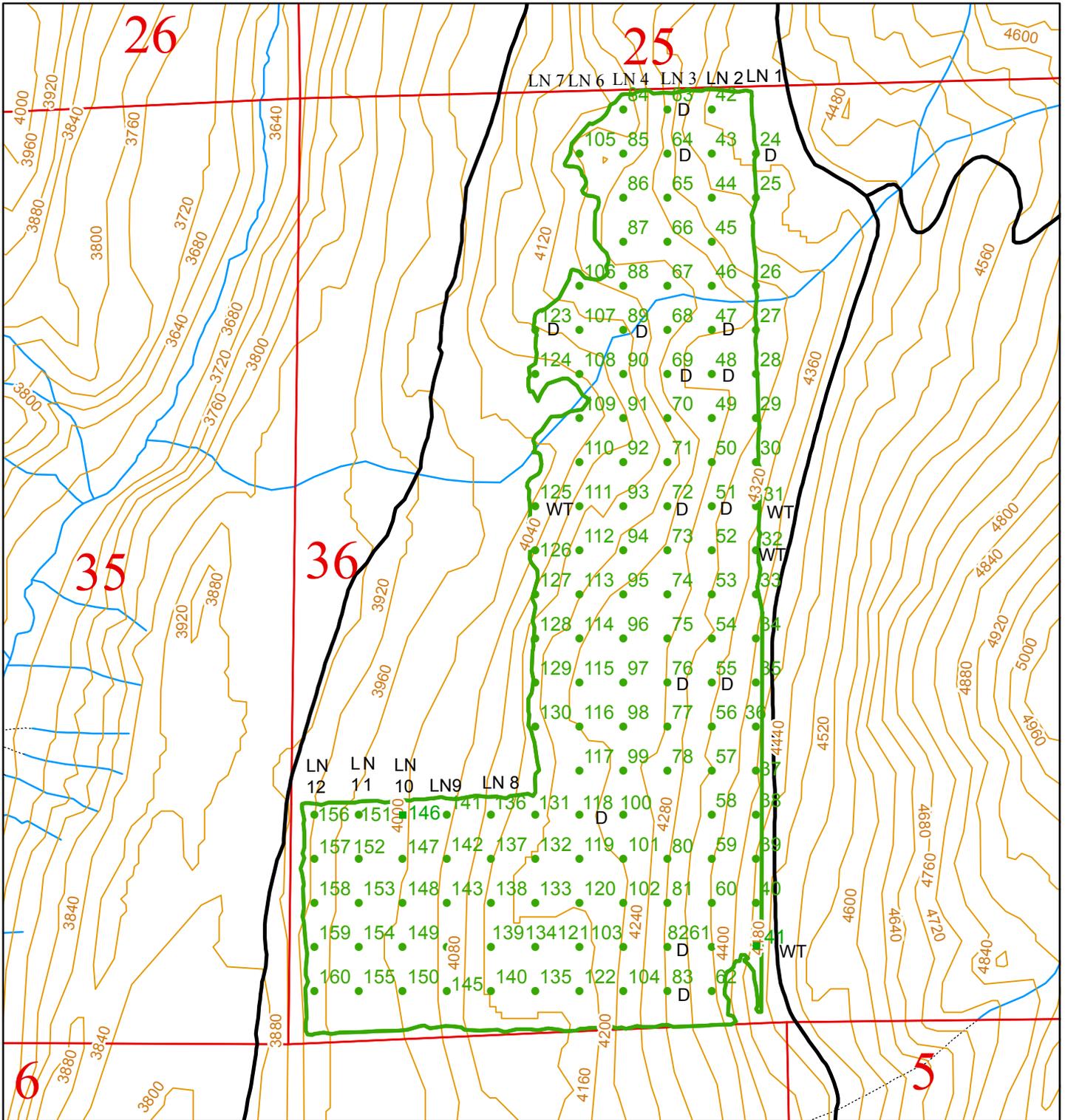
FMU_NM:	CAPE LABELLE U1	Township:	T37R30E
FMU_ID:	88125	DNR Region:	NORTHEAST
Acres:	34	Total Sample Points:	23
County:	OKANOGAN	Spacing Between Points:	Width: 260 Height: 260
		Point Rotation Degrees:	0



Scale 1:4,800

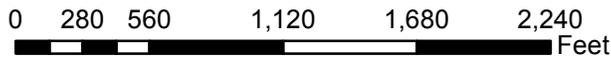
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

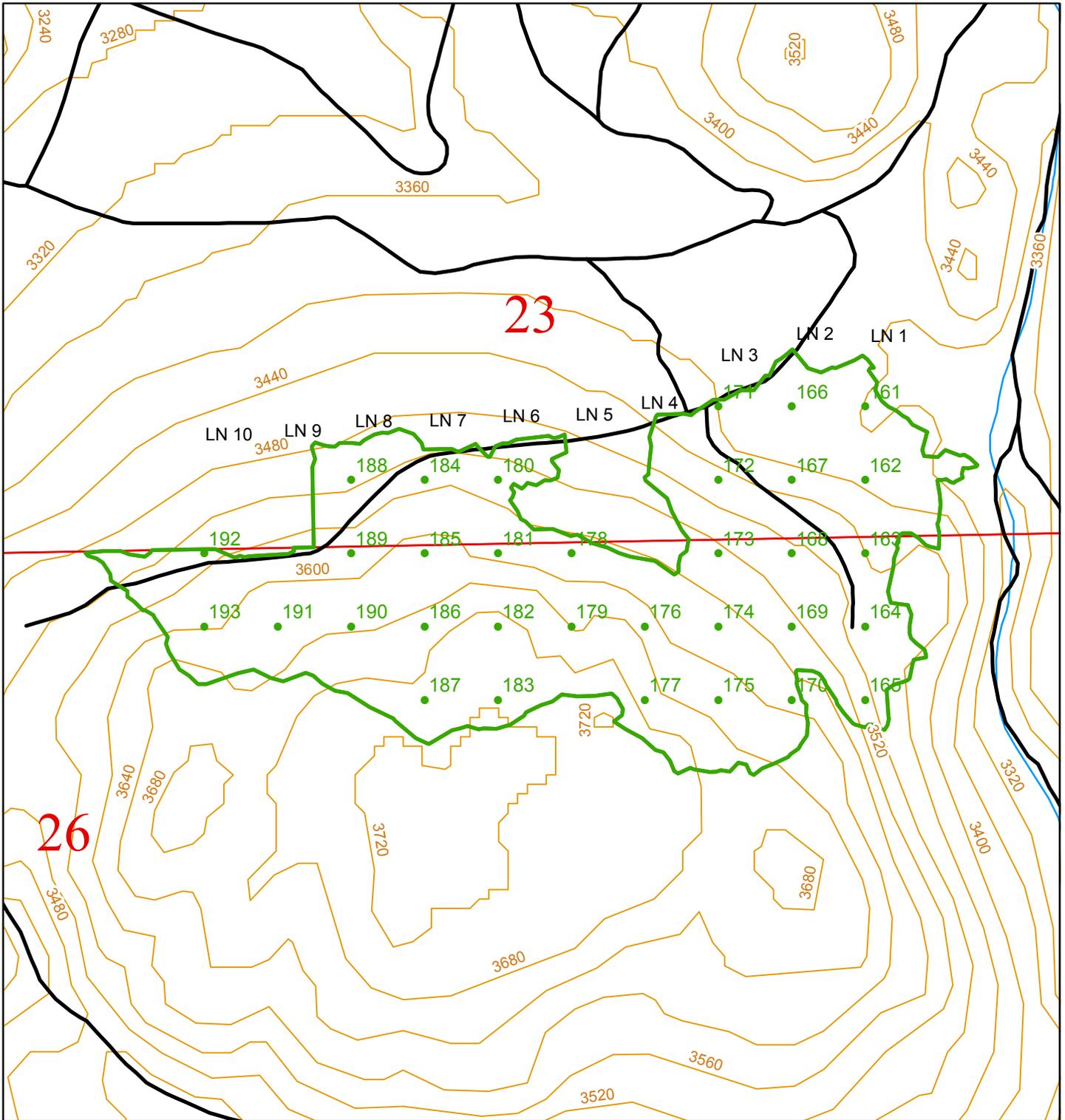
FMU_NM:	CAPE LABELLE U2	Township:	T37R30E
FMU_ID:	88126	DNR Region:	NORTHEAST
Acres:	168	Total Sample Points:	137
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
Walk Through Plot	WT	Point Rotation Degrees:	0
Deleted Plot	D		



Scale 1:9,600

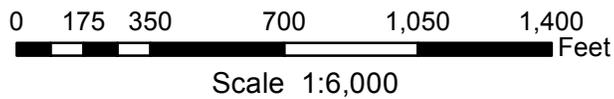
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



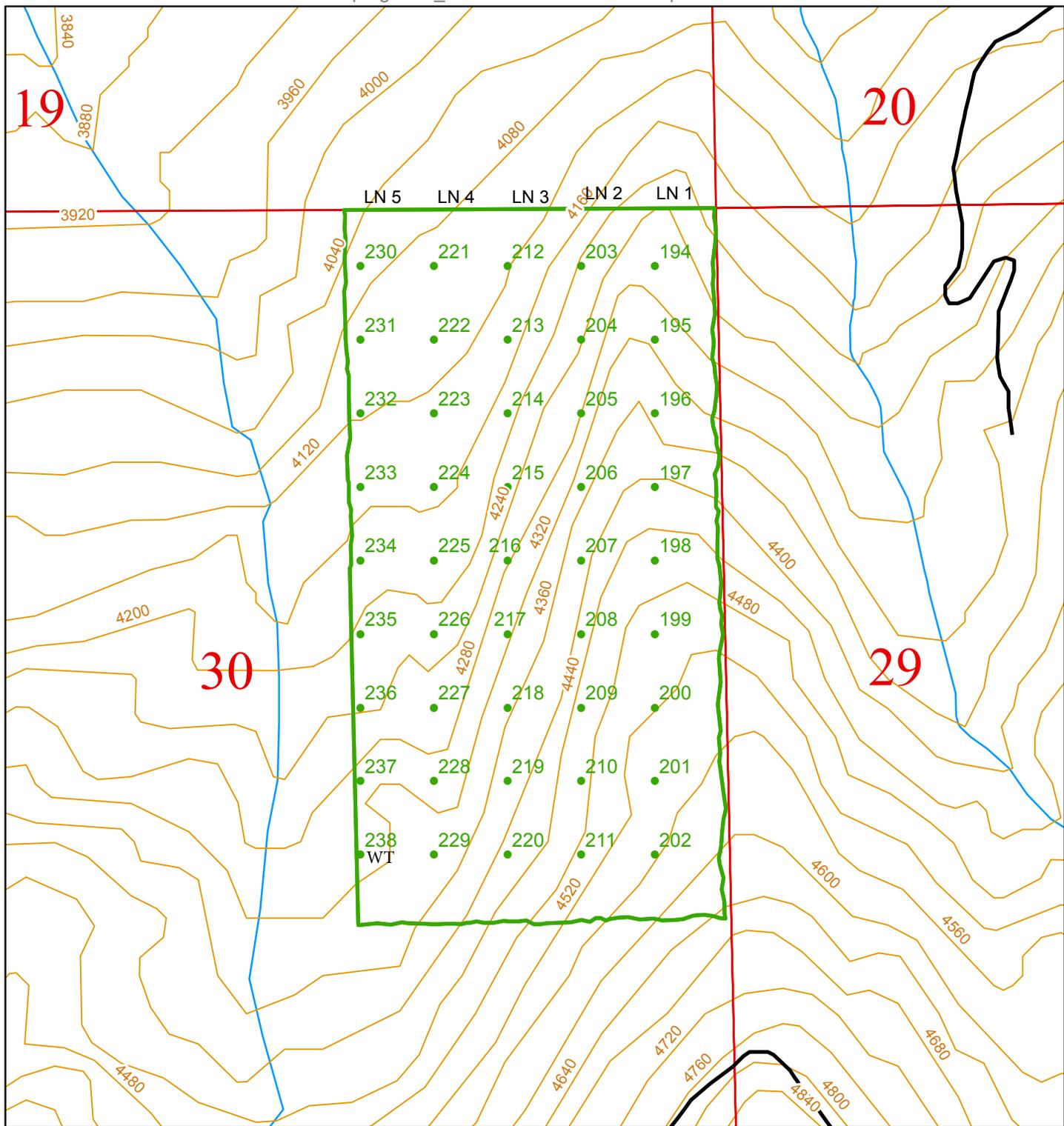
**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	CAPE LABELLE U3	Township:	T36R30E
FMU_ID:	93040	DNR Region:	NORTHEAST
Acres:	54	Total Sample Points:	33
County:	OKANOGAN	Spacing Between Points:	Width: 260 Height: 260
		Point Rotation Degrees:	0



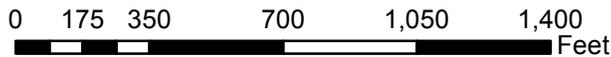
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

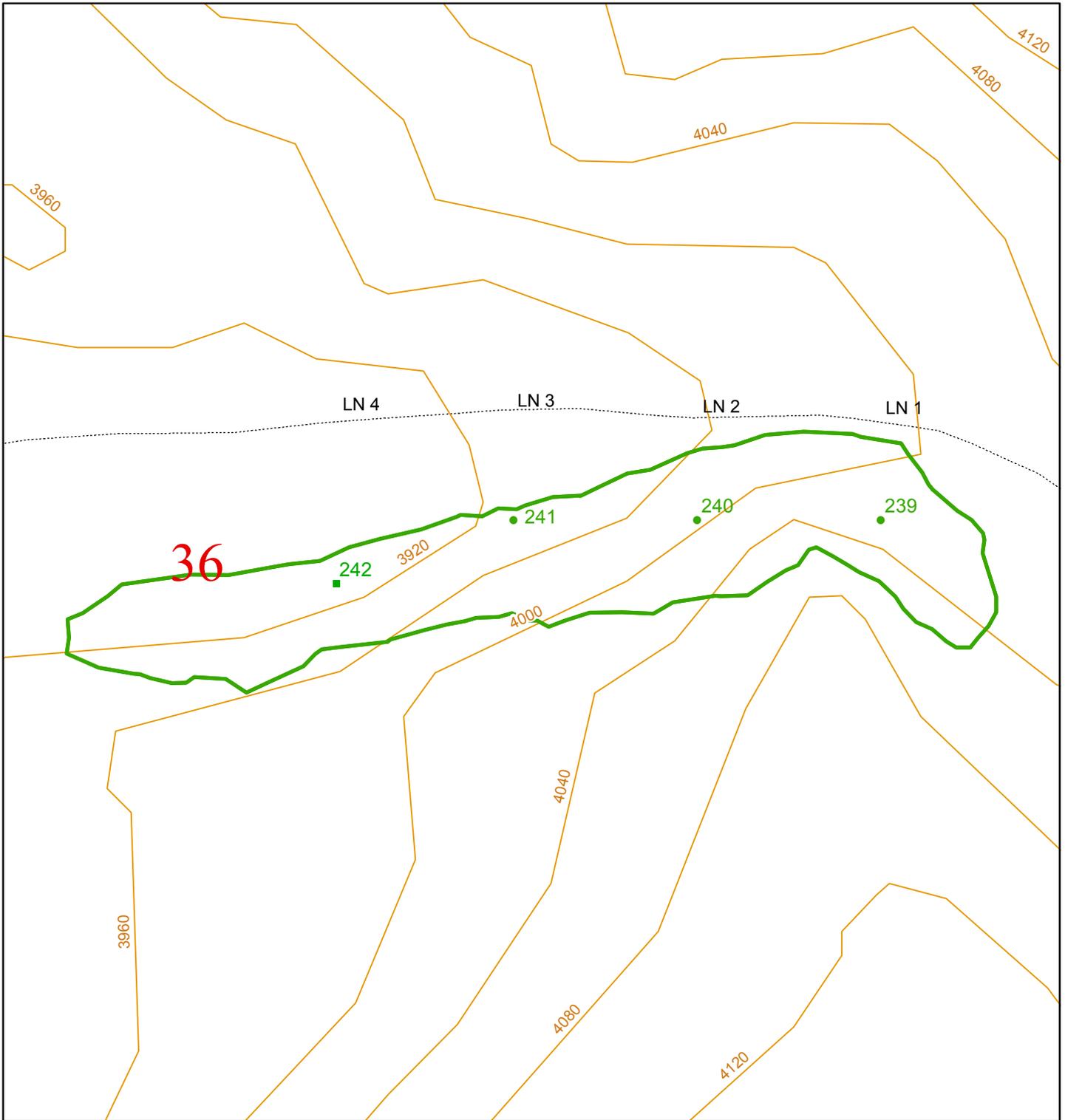
FMU_NM:	CAPE LABELLE U4	Township:	T37R30E
FMU_ID:	93041	DNR Region:	NORTHEAST
Acres:	78	Total Sample Points:	45
County:	OKANOGAN	Spacing Between Points:	Width: 260 Height: 260
Walk Through Plot	WT	Point Rotation Degrees:	0



Scale 1:6,000

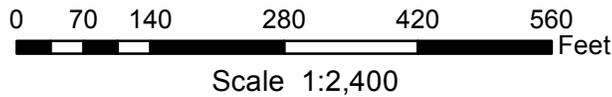
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



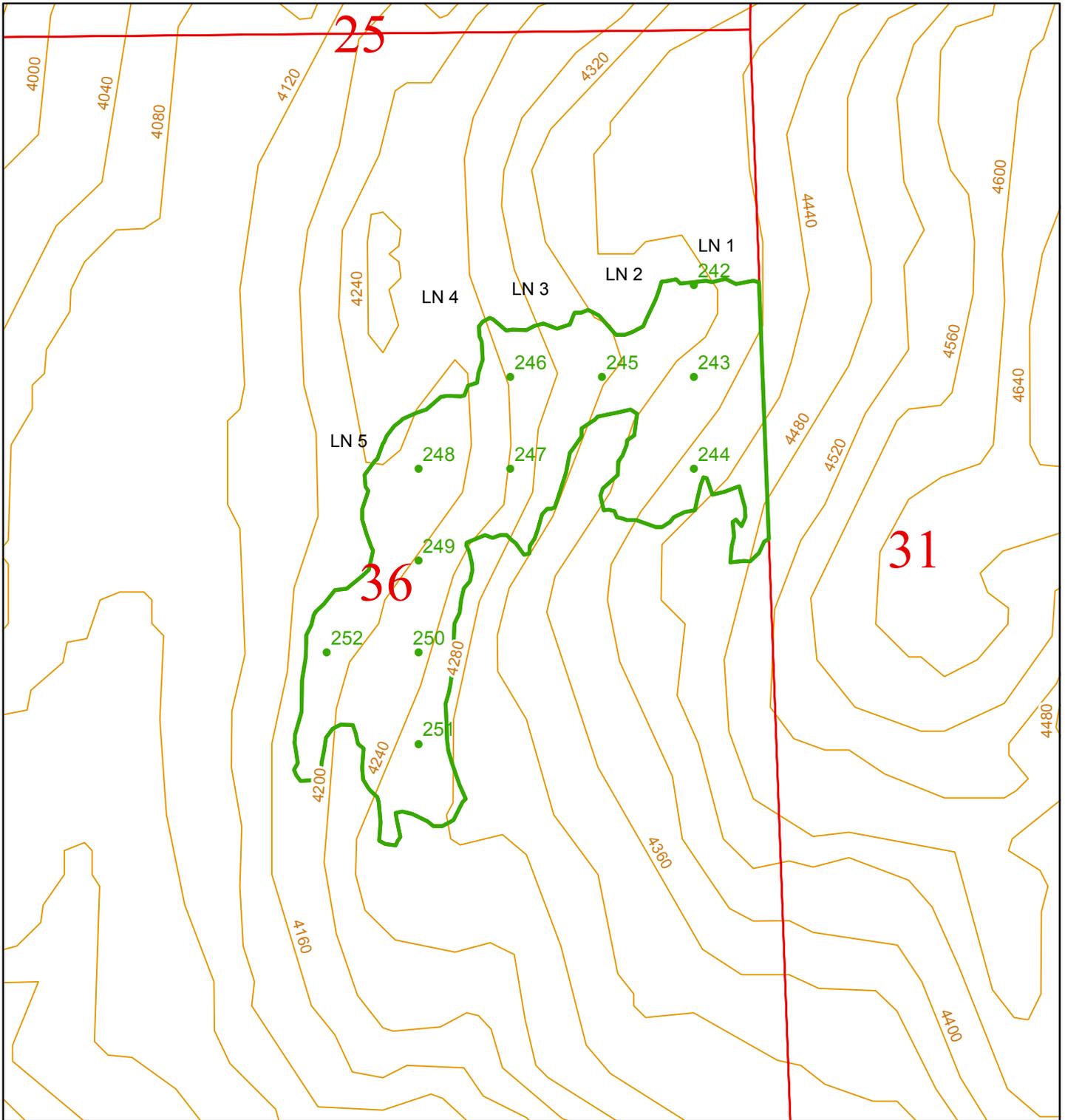
**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	CAPE LABELLE U5	Township:	T38R30E
FMU_ID:	93042	DNR Region:	NORTHEAST
Acres:	5	Total Sample Points:	4
County:	OKANOGAN	Spacing Between Points: Width:	260
		Height:	260
		Point Rotation Degrees:	0



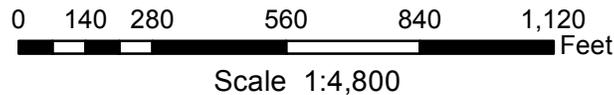
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



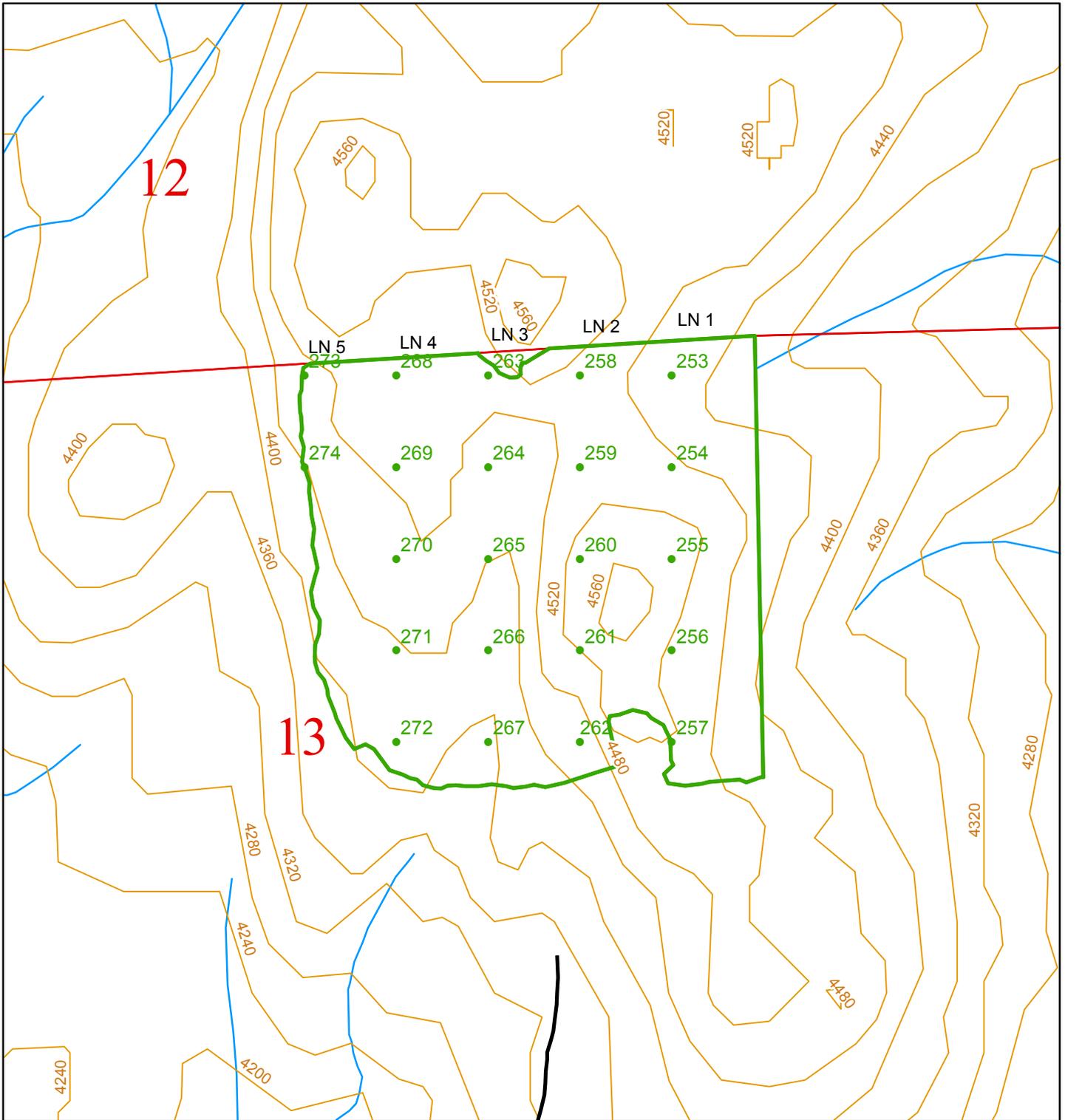
**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	CAPE LABELLE U6	Township:	T38R30E
FMU_ID:	93043	DNR Region:	NORTHEAST
Acres:	20	Total Sample Points:	11
County:	OKANOGAN	Spacing Between Points:	Width: 260 Height: 260
		Point Rotation Degrees:	0



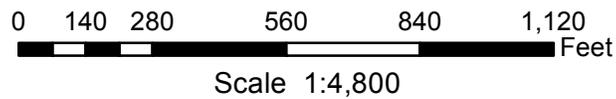
**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot



**FMU POLYGON AND SAMPLE POINT INFORMATION**

FMU_NM:	CAPE LABELLE U7	Township:	T38R30E
FMU_ID:	93044	DNR Region:	NORTHEAST
Acres:	36	Total Sample Points:	22
County:	OKANOGAN	Spacing Between Points:	Width: 260 Height: 260
		Point Rotation Degrees:	0



**Legend**

- Sample Points
- FMU polys
- Public Land Survey Sections
- Contours 40-foot

Mill Mileages  
30-092773

Bidder	A Miles	C Miles	Ferry/Toll Rate (\$)
Bennett Lumber (Princeton)	222.00	4.00	
Boise Cascade (Arden)	77.00	4.00	
Boise Cascade (Lower Mill)	60.00	4.00	
Boise Cascade (Upper Mill)	61.00	4.00	
C&C Timber (Port Gamble via Stevens Pass & Ferry)	289.00	4.00	117.15
Clearwater Paper (Wilma)	249.00	4.00	
Fitch (Snohomish via Stevens)	254.00	4.00	
Guy Bennett (Wilma)	248.00	4.00	
Hampton Tree Farms (Darrington via Stevens Pass)	300.00	4.00	
Hampton (Morton via White Pass)	346.00	4.00	
Hampton (Randle via White Pass)	326.00	4.00	
Home Fires (Spokane)	146.00	4.00	
IFG (Athol)	192.00	4.00	
IFG (LaClede)	149.00	4.00	
IFG (Moyie Springs)	204.00	4.00	
JKCK Enterprises (Cle Elum)	206.00	4.00	
JKCK Enterprises (Oroville)	42.00	4.00	
Omak Wood Products (Omak)	50.00	4.00	
Ponderay Newsprint (Usk)	120.00	4.00	
Potlatch (St Maries)	201.00	4.00	
Seattle Snohomish (Snohomish)	252.00	4.00	
Sierra Pacific (Mt. Vernon via Stevens Pass)	300.00	4.00	
Stimson (Plummer)	183.00	4.00	
Stimson (Priest River)	140.00	4.00	
TMI Foret Products (Morton)	346.00	4.00	
Tricon Timber (St Regis)	266.00	4.00	
Vaagen Brothers (Colville)	70.00	4.00	
Vaagen Brothers (Usk)	119.00	4.00	
Waupaca Northwoods (Wapato)	250.00	4.00	
Zosel (Oroville)	42.00	4.00	



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**  
 Peter Goldmark - Commissioner of Public Lands

FPA/N No: 3020546  
 Effective Date: 11/5/2015  
 Expiration Date: 11/5/2018  
 Shut Down Zone: 678W  
 EARR Tax Credit:  Eligible [ ] Non-eligible  
 Reference: DNR  
 Cape Labelle

**Forest Practices Application/Notification  
 Notice of Decision**

**Decision**

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

**FPA/N Classification**

**Number of Years Granted on Multi-Year Request**

- Class II  Class III  Class IVG  Class IVS
- 4 years  5 years

**Conditions on Approval / Reasons for Disapproval**

No Conditions

Issued By: Shane Knowlton Region: Northeast

Title: Forest Practices Forester Date: 11/4/2015

Copies to:  Landowner, Timber Owner and Operator.

Issued in person:  Landowner  Timber Owner  Operator By: Nichole Fordrey