



TIMBER NOTICE OF SALE

SALE NAME: *Q BLACK DIAMOND*

AGREEMENT NO: 30-100080

AUCTION: May 26, 2020 starting at 10:00 a.m.,
Northeast Region Office, Colville, WA

COUNTY: Okanogan

SALE LOCATION: Sale located approximately 10 miles northeast of Tonasket, WA. and 14 miles east of Oroville, WA.

PRODUCTS SOLD AND SALE AREA:

All green conifer species (excluding ponderosa pine) 7 inches and greater in diameter at breast height; all green ponderosa pine 10 inches and greater in diameter at breast height not banded with blue paint in Units 1, 2, 3, 4, 5, 6 and 7 bounded by white timber sale boundary tags and all right of way timber within the road clearing limits along E382816L road on part(s) of Sections 12 and 16 all in Township 38 North, Range 28 East, Sections 12 all in Township 39 North, Range 28 East, Sections 25 and 36 all in Township 40 North, Range 27 East, W.M., containing 334 acres, more or less.

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

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg Ring DBH	Ring Count	Total MBF	MBF by Grade									
				P	SM	1S	2S	3S	4S	5S	6S	UT	
Douglas fir	11.5		1,461				164	850	447				
Ponderosa pine	13.8		332						69	263			
Larch	12.5		146				38	81	27				
Sale Total			1,939										

MINIMUM BID: \$148,000.00

BID METHOD: Sealed Bids

PERFORMANCE SECURITY:

\$29,600.00

SALE TYPE: Lump Sum

EXPIRATION DATE: November 15, 2022

ALLOCATION: Export Restricted

BID DEPOSIT: \$14,800.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Dozer, Rubber tired skidder, and Ground based equipment. Falling and Yarding will not be permitted from March 15 to June 1 unless authorized in writing by the Contract Administrator due to spring breakup.

ROADS: 44.75 stations of required construction. 802.90 stations of required prehaul maintenance. Road construction will not be permitted from March 15 to June 1 unless authorized in writing by the Contract Administrator due to spring breakup. The hauling of forest products will not be permitted from March 15 to June 1 unless authorized in writing by the Contract Administrator due to spring breakup.

ACREAGE DETERMINATION

CRUISE METHOD: Acreage determined using GPS methods. Acreage shown above is net harvest acres in harvest units. Ponderosa pine: 10.0 - 17.5 inches dbh has a minimum top of 5.6 inch dib.



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All other species: 7.0 - 17.5 inches dbh has minimum top of 4.6 inch dib. All species 17.6 inches and greater dbh have a minimum top dib of 40% of dob at 16 feet or a 6 inch top whichever is greater.

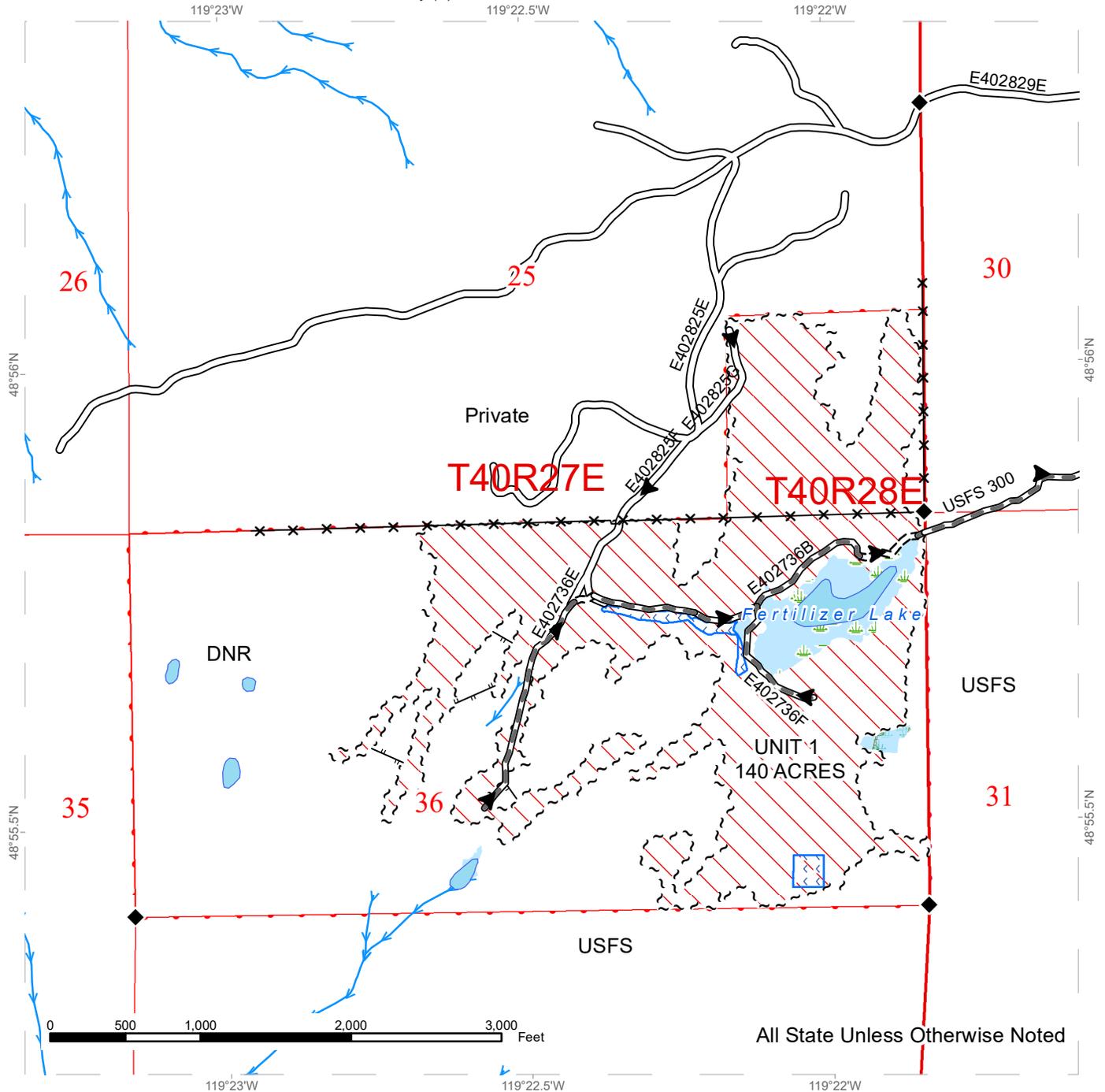
FEES: Within 10 days of day of sale, Purchaser shall provide a check payable to Havillah Farms LLC for a road use permit in the amount of \$600.00 plus payment for 13 mbf of right of way timber at the purchaser's bid per mbf. Within 10 days of day of sale, Purchaser shall provide a check payable to Nadra & Robin LLC for a road use permit in the amount of \$1,000.00 plus payment for 5 mbf of right of way timber at the purchaser's bid per mbf. \$32,963.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Locked gate restricts access to Unit 5, Contact Northeast Region Office for access.

TIMBER SALE MAP

SALE NAME: Q BLACK DIAMOND
AGREEMENT #: 30-100080
TOWNSHIP(S): T38R28E, T39R28E, T40R27E
TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region
COUNTY(S): Okanogan
ELEVATION RGE: 2440-4120

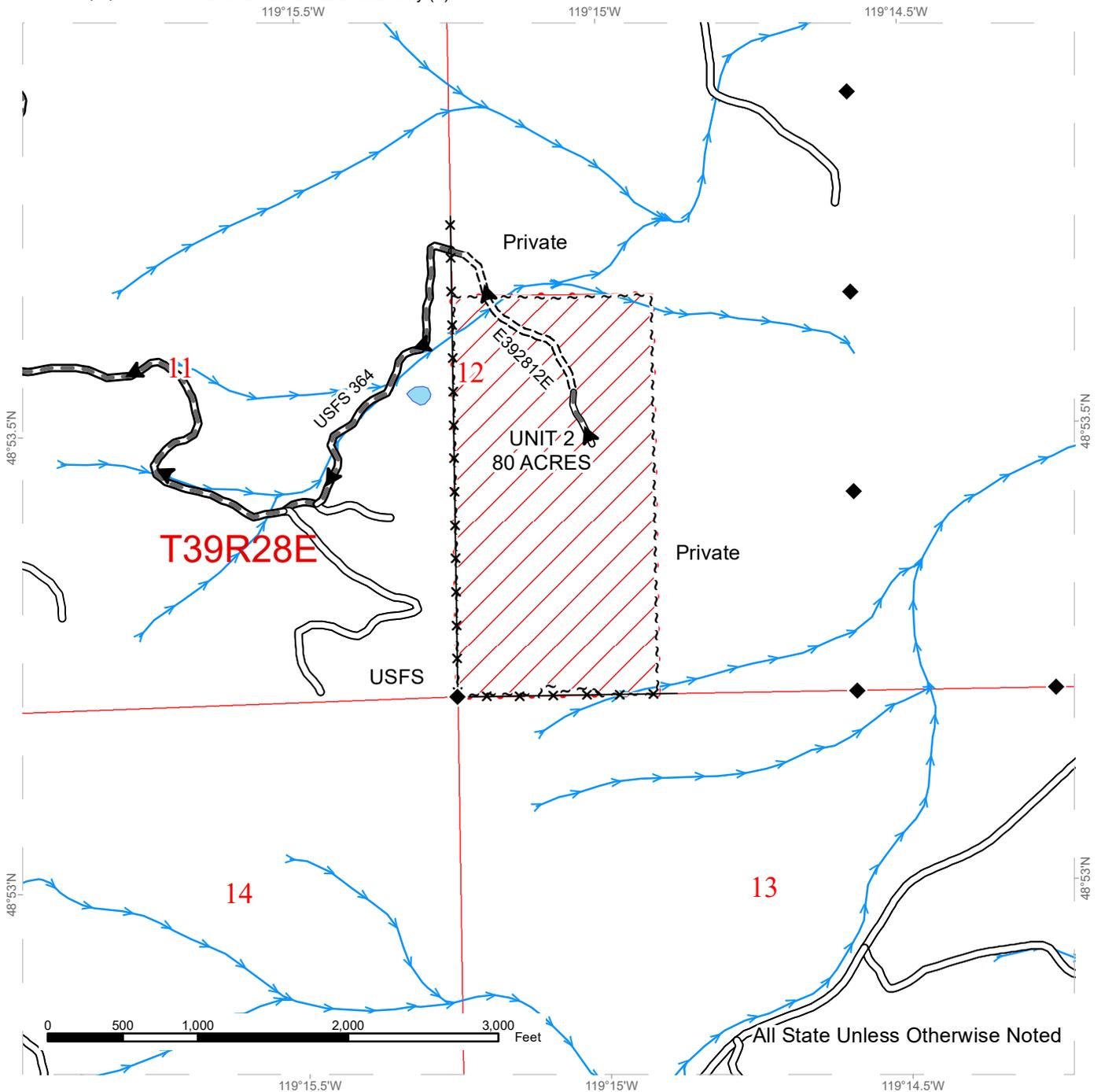


Public Land Survey Townships	Required Pre-Haul Maintenance	Streams
DNR Managed Lands	Required Construction	Survey Monument
Unevenaged Management	Haul_Route	Fence
Sale Boundary Tags	Wetlands - Non-forested	
Existing Roads	Forested Wetland	
Designated Skid Trail	Equipment Limitation Zone	

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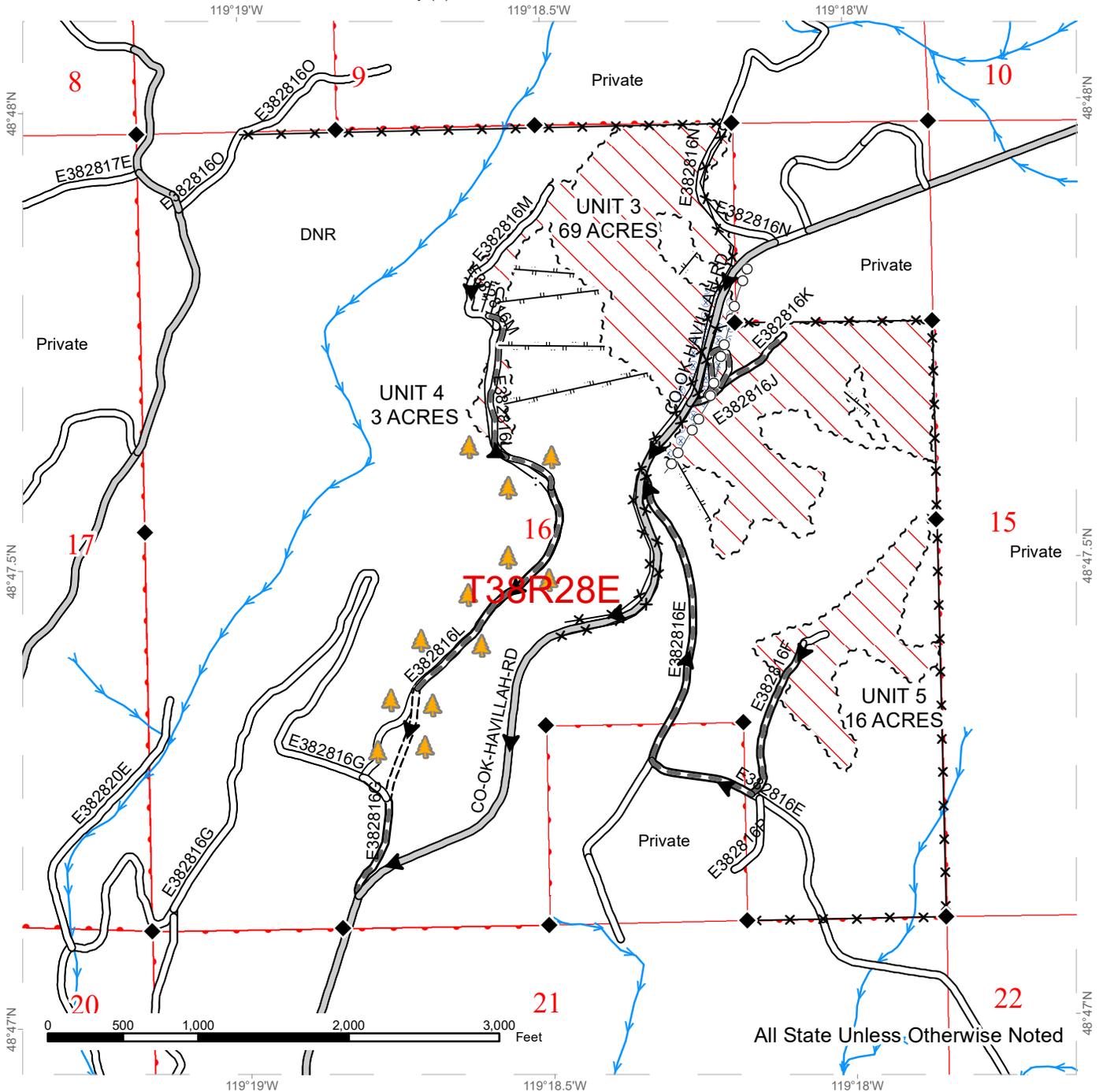
Public Land Survey Townships	Existing Roads	Streams
DNR Managed Lands	Required Pre-Haul Maintenance	Survey Monument
Variable Retention Harvest	Required Construction	Fence
Sale Boundary Tags	Haul_Route	
Existing Roads		



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All State Unless Otherwise Noted

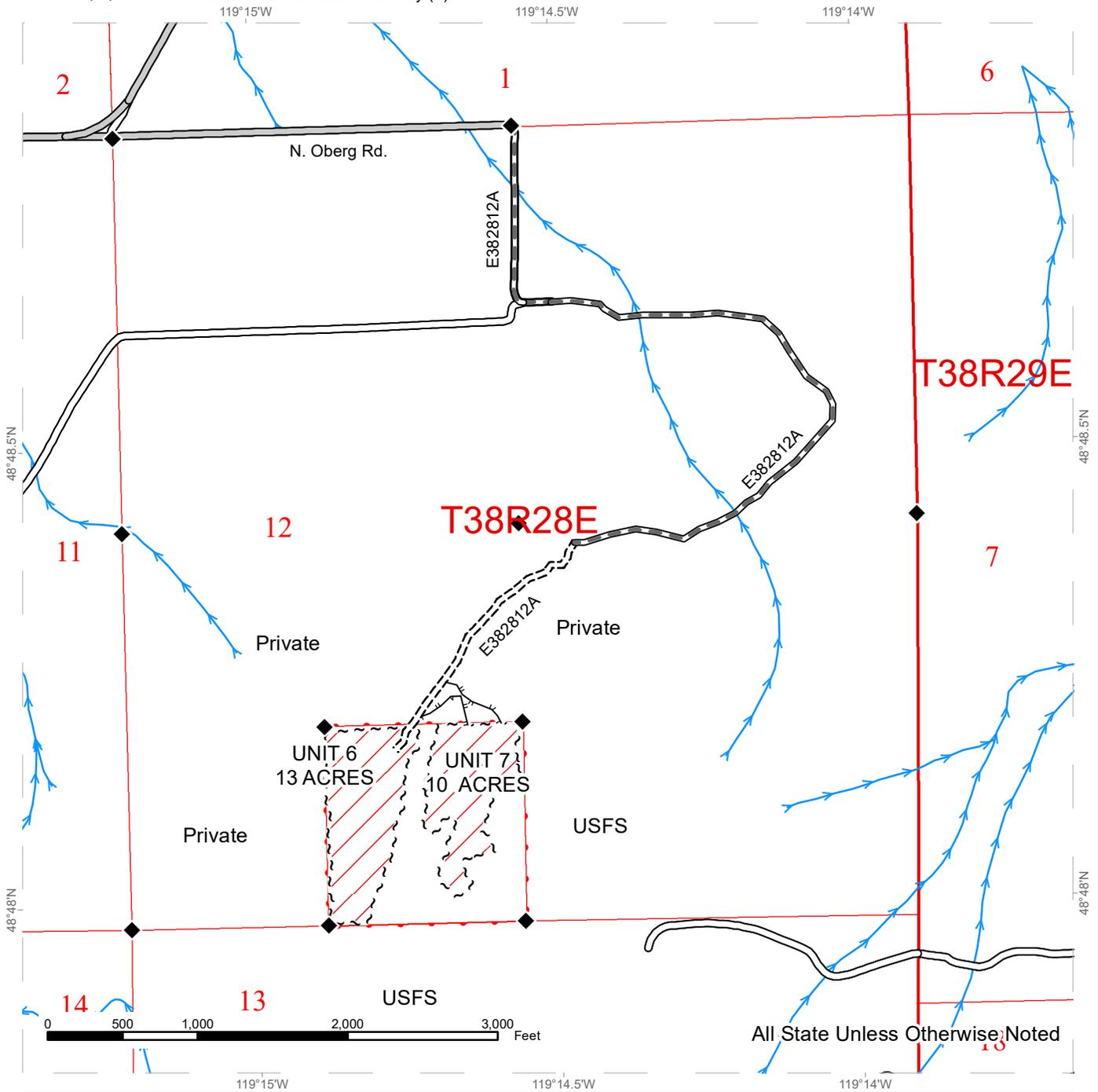
	Public Land Survey Townships		County Road		Streams
	DNR Managed Lands		Existing Roads		Survey Monument
	Unevenaged Management		Required Pre-Haul Maintenance		ROW Trees 3 acres
	Sale Boundary Tags		Required Construction		Fence
	Existing Roads		Designated Skid Trail		Power Lines
	Designated Skid Trail		Haul_Route		Hazard Abatement Area



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Public Land Survey Townships	County Road	Streams
DNR Managed Lands	Existing Roads	Survey Monument
Variable Retention Harvest	Required Pre-Haul Maintenance	
Sale Boundary Tags	Required Construction	
Existing Roads		
Designated Skid Trail		

DRIVING MAP

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- Timber Sale Unit
- Haul Route
- Milepost Markers
- Distance Indicator

DRIVING DIRECTIONS:

From Hwy 97 in Oroville, WA turn east on Central Avenue and travel 0.3 miles. Turn left on Cherry Street which turns in to Chesaw road after 0.2 miles. Continue on Chesaw road for 0.4 miles and turn right to stay on Chesaw road. Travel 7.3 miles on Chesaw road and take a right turn on US Forest Service road 3525. Travel on USFS 3525 for 0.5 miles and stay right. Take a right turn on the USFS 300 road and travel 4.8 miles to unit 1.

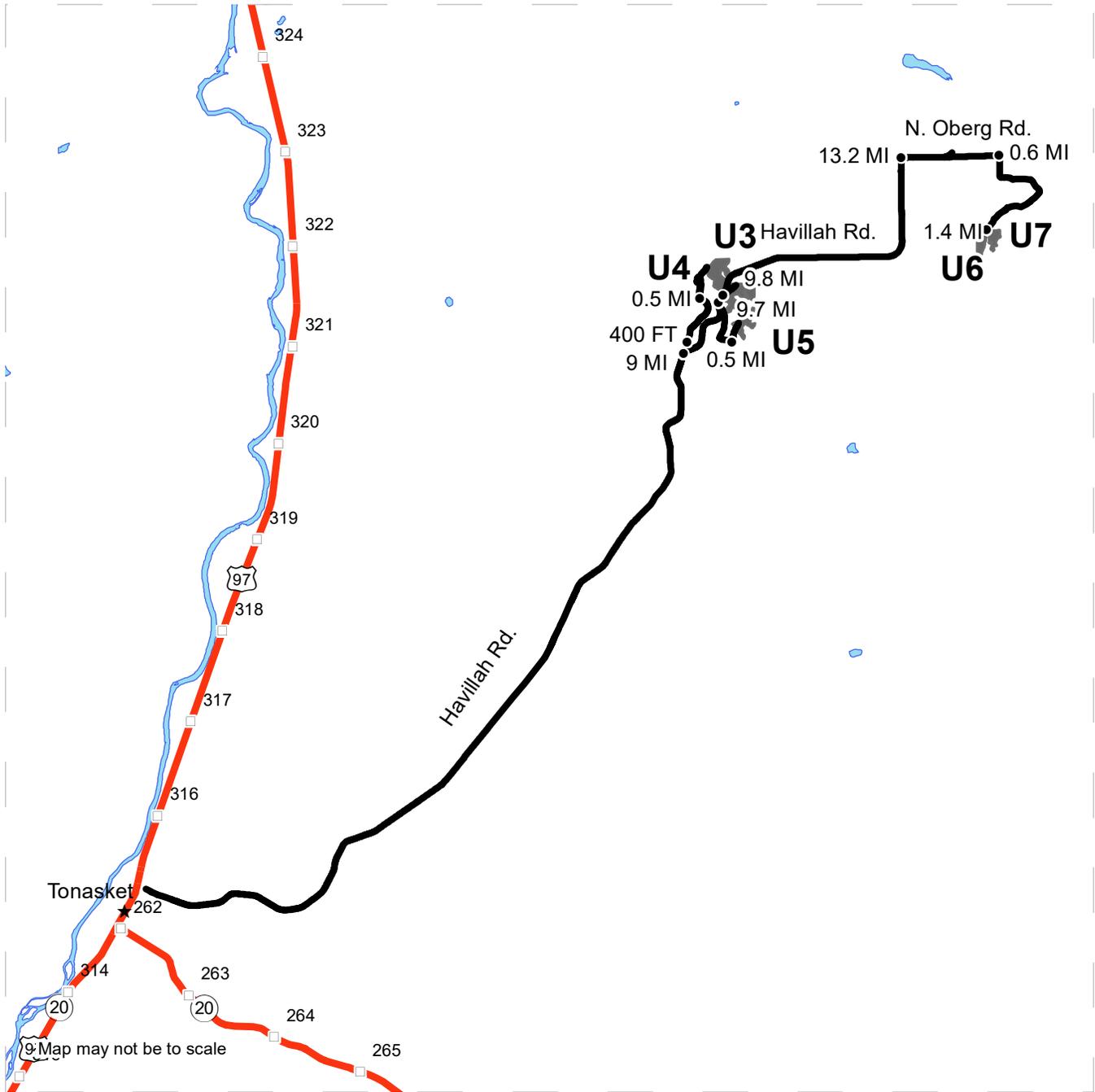
Unit 2: Follow the same directions as those from Oroville to Unit 1 except once on the USFS 3525 road only travel 1.1 miles before turning left on the USFS 350 road. Travel 2 miles on the USFS 350 road and take a left on the USFS 360 road. Travel 1.1 miles and stay left onto the USFS 364 road. Travel 1 mile on the USFS 364 road, staying left until a gate marks the start of the E392812E road on private land. Unit 2 is approximately 400 feet south of the gate.



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Timber Sale Unit
 Haul Route
 Milepost Markers
 Distance Indicator

DRIVING DIRECTIONS:

Unit 3: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 9.8 miles to a right turn onto the E382816J road in Unit3.
 Unit 4: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 9 miles to a left turn onto the E382816G road. Turn right after about 400 feet and travel 0.5 miles on the E382816L road to Unit 4.
 Unit 5: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 9.7 miles to a hard right turn onto the E382816E road. Travel for 0.5 miles to a left turn onto the E382816F road where Unit 5 will be 800 feet further.
 Unit 6 and 7: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 13.2 miles to a right turn onto North Oberg road. Travel 0.6 miles and turn right onto the E382812A road. Travel 1.4 miles on the E382812A road to Units 6 and 7.

**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

**BILL OF SALE AND CONTRACT FOR
FOREST PRODUCTS**

Export Restricted Lump Sum AGREEMENT NO. 30-0100080

SALE NAME: Q BLACK DIAMOND

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

Section G: General Terms

G-001 Definitions

The following definitions apply throughout this contract;

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

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

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

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

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

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

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

G-011 Right to Remove Forest Products and Contract Area

Purchaser was the successful bidder on May 26, 2020 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All green conifer species (excluding ponderosa pine) 7 inches and greater in diameter at breast height; all green ponderosa pine 10 inches and greater in diameter at breast height not banded with blue paint in Units 1, 2, 3, 4, 5, 6 and 7 bounded by white timber sale boundary tags and all right of way timber within the road clearing limits along E382816L road, located on approximately 334 acres on part(s) of Sections 12, and 16 all in Township 38 North, Range 28 East, Section 12 in Township 39 North, Range 28 East, Sections 25, and 36 all in Township 40 North, Range 27 East W.M. in Okanogan County(s) as designated on the sale area and as shown on the attached timber sale map.

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

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

G-020 Inspection By Purchaser

Purchaser hereby warrants to the State that they have had an opportunity to fully inspect the sale area and the forest products being sold. Purchaser further warrants to the State that they enter this contract based solely upon their own judgment of the value of the forest products, formed after their own examination and inspection of both the timber sale area and the forest products being sold. Purchaser also warrants to the State that they enter this contract without any reliance upon the volume estimates, acreage estimates, appraisals, pre-bid documentation, or any other representations by the State Department of Natural Resources.

G-031 Contract Term

Purchaser shall complete all work required by this contract prior to November 15, 2022.

G-040 Contract Term Adjustment - No Payment

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

- a. Road and bridge failures which deny access.
- b. Access road closures imposed by road owner.
- c. Excessive suspensions as provided in clause G-220.
- d. Regulatory actions not arising from Purchaser's failure to comply with this contract which will prevent timber harvest for a period less than 6 months.

G-051 Contract Term Extension - Payment

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

- a. A written request for extension of the contract term must be received prior to the expiration date of the contract.
- b. Completion of all required roads and compliance with all contract and regulatory requirements.
- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the total contract price.

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

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

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

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

- e. Payment of \$265.00 per acre per annum for the acres on which an operating release has not been issued .
- f. In no event will the extension charge be less than \$200.00.
- g. Extension payments are non-refundable.

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

- a. The MERCHANTABILITY of the forest products. The use of the term "merchantable" in any document is not intended to vary the foregoing.
- b. The CONDITION of the forest products. The forest products will be conveyed "AS IS."
- c. The ACREAGE contained within any sale area. Any acreage descriptions appearing in the timber notice of sale, timber sale contract, or other documents are estimates only, provided solely for administrative and identification purposes.
- d. The VOLUME, QUALITY, OR GRADE of the forest products. The State neither warrants nor limits the amount of timber to be harvested. The descriptions of the forest products to be conveyed are estimates only, made solely for administrative and identification purposes.
- e. The CORRECTNESS OF ANY SOIL OR SURFACE CONDITIONS, PRE-SALE CONSTRUCTION APPRAISALS, INVESTIGATIONS, AND ALL OTHER PRE-BID DOCUMENTS PREPARED BY OR FOR THE STATE. These documents have been prepared for the State's appraisal purposes only.
- f. THAT THE SALE AREA IS FREE FROM THREATENED OR ENDANGERED SPECIES or their habitat. The State is not responsible for any interference with forestry operations that result from the presence of any

threatened or endangered species, or the presence of their habitat, within the sale area.

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

G-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

a. Risk

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

b. Sale Area

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

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

c. Adjustment of Price

The State shall adjust the total contract price by subtracting from the total contract price an amount determined in the following manner: The State shall

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

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-102 Forest Products Not Designated

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

The pricing schedule has not been set for the sale.

G-106 Adding Naturally Damaged Forest Products

Any forest products not designated for removal that are seriously damaged by disease, insects or wind, or that may contribute seriously to the spread of insect or disease damage may be added to this sale by the State's Contract Administrator. Additions must be in unlogged areas of the sale and added volume shall not exceed an amount equal to 10 percent of the original advertised volume. Added forest products become a part of this contract and shall be paid for at the rate set forth in clause G-101, G-102 or G-103.

G-111 Title and Risk of Loss

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

G-116 Sustainable Forestry Initiative® (SFI) Certification

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

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

G-120 Responsibility for Work

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

G-121 Exceptions

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

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

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

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

The repair work identified by the State shall be promptly completed by Purchaser at an agreed price. The State may elect to accomplish repairs by means of State-provided resources. The State will bear the cost to repair damages caused by a third party. In all other cases, the Purchaser shall bear responsibility for the costs as described below.

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

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

G-140 Indemnity

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

G-150 Insurance

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

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

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

1. Insurers subject to Chapter 48.18 RCW (admitted and regulated by the Insurance Commissioner): The insurer shall give the State 45 days advance notice of cancellation or non-renewal. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.
2. Insurers subject to Chapter 48.15 RCW (surplus lines): The State shall be given 20 days advance notice of cancellation. If cancellation is due to non-payment of premium, the State shall be given 10 days advance notice of cancellation.

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

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

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

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. Purchaser

waives all rights against State for recovery of damages to the extent these damages are covered by general liability or umbrella insurance maintained pursuant to this contract.

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

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

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

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

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

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

If Purchaser, subcontractor or sub-subcontractor fails to comply with all State of Washington workers' compensation statutes and regulations and State incurs fines or is required by law to provide benefits to or obtain coverage for such employees, Purchaser

shall indemnify State. Indemnity shall include all fines, payment of benefits to Purchaser or subcontractor employees, or their heirs or legal representatives, and the cost of effecting coverage on behalf of such employees.

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

G-160 Agents

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

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

G-170 Assignment and Delegation

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

G-180 Modifications

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

G-190 Contract Complete

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

G-200 Notice

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

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

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

G-210 Violation of Contract

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

G-220 State Suspends Operation

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

- a. In the event of a dispute, Purchaser must make a written request to the Region Manager for resolution prior to seeking other relief.
- b. The Region Manager will issue a written decision on Purchaser's request within ten business days.
- c. Within ten business days of receipt of the Region Manager's decision, Purchaser may make a written request for resolution to the Deputy Supervisor - Uplands of the Department of Natural Resources.
- d. Unless otherwise agreed, a conference will be held by the Deputy Supervisor - Uplands within 30 calendar days of the receipt of Purchaser's request for review of the Region Manager's written decision. Purchaser and the Region Manager will have an opportunity to present their positions. The Deputy Supervisor - Uplands will issue a decision within a reasonable time of being presented with both Parties' positions.

G-250 Compliance with All Laws

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

G-260 Venue

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

G-270 Equipment Left on State Land

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

G-280 Operating Release

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

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; E382812A, E382816E, E382816F, E382816G, E382816J, E382816K, E382816L, E392812E, E402736B, E402736E, E402736F, USFS3525, USFS300, USFS350, USFS360 and USFS364. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-320 Erosion Control

Purchaser shall deliver 500 pounds of grass seed to a location designated by the Contract Administrator. Seed provided shall meet the following specifications.

30% Bluebunch Wheatgrass, 30% Sherman Big Bluegrass, 40% Idaho Fescue
Seed shall be certified weed free, premixed and delivered to Highlands Fire Camp in 50 pound bags clearly labeled with the timber sale name on each bag.

G-330 Pre-work Conference

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

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

G-340 Preservation of Markers

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

G-360 Road Use Reservation

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

G-370 Blocking Roads

Purchaser shall not block the E382812A, E392812E, E402736B, E402736E, E402736F, USFS 3525, USFS 300, USFS 350, USFS 360 and USFS 364 roads, unless authority is granted in writing by the Contract Administrator.

G-380 Road Easement and Road Use Permit Requirements

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

Easement 2286 with Smith dated December 24, 1996

Road Use Permit 99652 with Havillah Farms LLC dated September 11, 2019

Road Use Permit 99856 with Nadra & Robin LLC dated October 14, 2019

Road Use Permit ***** with USFS*****

G-430 Open Fires

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

G-450 Encumbrances

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

DATA MISSING

Section P: Payments and Securities

P-011 Initial Deposit

Purchaser paid DATA MISSING initial deposit, which will be maintained pursuant to RCW 79.15.100(3). If the operating authority on this contract expires without Purchaser's payment of the full amount specified in Clause P-020, the initial deposit

will be immediately forfeited to the State, and will be offset against Purchaser's remaining balance due. Any excess initial deposit funds not needed to ensure full payment of the contract price, or not needed to complete any remaining obligations of the Purchaser existing after contract expiration, will be refunded to the Purchaser.

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$50,414.00. The total contract price consists of a \$0.00 contract bid price plus \$50,414.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$0.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full

force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

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

H-010 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-012 Leave Tree Damage Definition

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

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

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

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

H-015 Skid Trail Requirements

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

Purchaser shall comply with the following during the yarding operation:

- a. Skid trails will not exceed 16 feet in width, including rub trees.
- b. Skid trails shall not cover more than 15 percent of the total acreage on one unit.
- c. Skid trail location will be pre-approved by the Contract Administrator.
- d. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.
- e. Rub trees shall be left standing until all timber tributary to the skid trail has been removed.
- f. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.
- g. Skid trails will be water barred at the time of completion of yarding, if required by the Contract Administrator.

Purchaser shall not deviate from the requirements set forth in this clause without prior written approval from the Contract Administrator.

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-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-051 Branding and Painting

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

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

H-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-100 Tree Spacing

Trees must be left to provide for a spacing of not more than 400.00 feet between trees.

H-110 Stump Height

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using ground based equipment D6 equivalent or smaller. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the State.

H-130 Hauling Schedule

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

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

- a. Hand felling of trees and retrieval with bull line and chokers may be required in isolated areas within the units.
- b. Roads salts shall not be applied to roads for dust abatement or removing of ice from road surfaces.
- c. All slash shall be piled at landings or hauled back into the units where designated by the Contract Administrator.
- d. Slash piled at landings shall be separated from the road prism at completion of harvest.
- e. Appropriate warning signs shall be posted at locations designated by the Contract Administrator.
- f. If snow plowing occurs, snow berms shall be removed at locations designated by the Contract Administrator to allow surface water to drain from roads.

g. Trees marked with two bands of blue paint are non-tradeable leave trees.

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

H-190 Completion of Settings

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

H-220 Protection of Residual or Adjacent Trees

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

H-230 Tops and Limbs Outside the Sale Boundary

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

H-250 Additional Falling Requirements

Within Units 2, 6 and 7, all non-merchantable live stems excluding ponderosa pine, greater than 2 inches in diameter or 3 feet in height not banded with blue paint, 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 Units 1, 2, 3, 4, 5, 6, and 7 that have been pushed over in falling or skidding operations shall be felled.

Section C: Construction and Maintenance

C-040 Road Plan

Road construction and associated work provisions of the Road Plan for this sale, dated 9/18/2019 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on E382812A, E382816E, E382816F, E382816G, E382816J, E382816K, E382816L, E392812E, E402736B, E402736E, E402736F, USFS3525, USFS300, USFS350, USFS360 and USFS364. All work shall be completed to the specifications detailed in the Road Plan.

C-080 Landing Locations Approved Prior to Construction

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

C-090 Landing Location

Landings shall be built 100 feet off the Havillah County road(s).

C-130 Dust Abatement

Purchaser shall abate dust on the E382812A, E382816E, E382816F, E382816G, E382816J, E382816K, E382816L, E392812E, E402736B, E402736E, E402736F, USFS3525, USFS300, USFS350, USFS360 and USFS364 roads used for hauling from June 1 to October 15.

C-140 Water Bars

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

Section S: Site Preparation and Protection**S-001 Emergency Response Plan**

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-020 Extreme Hazard Abatement

Purchaser 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 Purchaser will accomplish abatement. Purchaser 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 Purchaser's hazard abatement plan shall not be construed as any statement or warranty that the hazard abatement plan is adequate for Purchaser'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 Noxious Weed Control

Purchaser shall notify the Contract Administrator in advance of moving equipment onto State lands. Purchaser 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 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

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

S-110 Resource Protection

No harvesting equipment may operate within Equipment Limitation Zones unless authority is granted in writing by the Contract Administrator.

S-120 Stream Protection

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

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

b. Hazardous Materials Spill Prevention

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

c. Hazardous Materials Spill Containment, Control and Cleanup

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

d. Hazardous Material Release Reporting

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

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

DNR Contract Administrator

ECY - Northwest Region:

1-425-649-7000

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

ECY - Southwest Region:

1-360-407-6300

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

ECY - Central Region:

1-509-575-2490

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

ECY - Eastern Region:

1-509-329-3400

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

S-131 Refuse Disposal

As required by RCW 70.93, All Purchaser generated refuse shall be removed from state lands for proper disposal prior to termination of this contract. No refuse shall be

burned, buried or abandoned on state forest lands. All refuse shall be transported in a manner such that it is in compliance with RCW 70.93 and all loads or loose materials shall be covered/secured such that these waste materials are properly contained during transport.

S-140 Fence Repair

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

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

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

D-040 Leave Tree Excessive Damage

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

DRAFT

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Ken McNamee

Print Name

Northeast Region Manager

Date: _____

Date: _____

Address: _____

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

STATE OF _____)

COUNTY OF _____)

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

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

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

Notary Public in and for the State of

My appointment expires _____



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: Northeast

Timber Sale Name: Q BLACK DIAMOND

Application Number: 30- 30-10080

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 4,475 linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: 0 linear feet
Road to be reconstructed (optional and required) but not abandoned

Abandonment: 0 linear feet
Abandonment of existing roads not reconstructed under the contract

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

Pre-Haul Maintenance: 80,290 linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

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

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

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

(Revised 9/18)

DNR Timber Sale Trust Distribution Form

Sale Name
Q BLACK DIAMOND

Agreement Number
100080

Region
Northeast

District
HIGHLANDS

Unit

Legal Location

Section(s)	12, 16	Township	38	Range	28	E/W	E
Section(s)		Township	39	Range	28	E/W	E
Section(s)	25, 36	Township	40	Range	27	E/W	E

Auction Date
5/26/2020

Contract Expiration Date
11/15/2022

Sale Acres
334

Sale Class
Regional Sale

Sale Method
Lump Sum

Stand Origin Year
1907

FPA Number
3023911

FPA Renewal Date
12/16/2022

Sale Volume Ratio

Conifer		
Ponderosa pine	332	17.10%
Larch	146	7.50%
Douglas fir	1461	75.30%
Totals For Conifer	1939	99.90%
Total	1939	99.90%

Harvest Type

Harvest Type	% of Sale
Variable Density Thinning	31.74%
Variable Retention Harvest	68.26%
Total	100.00%

Trust Distribution Table

County	3	Totals						
24 - Okanoga	100.00%	100.00%						
		100.00%						

DNR Timber Sale Trust Distribution Form

Trust Levy Codes

Instructions:

To ensure proper distribution of funds to the trust beneficiaries of this sale, the State Lands Assistant must review the data in NaturE and sign in the space provided below.

NaturE Data Reviewed by:

X

(Print Name)

(Signature)

Date:

DNR Timber Sale Trust Distribution Form

Trust Distribution Details

24-Okanogan

Trust	Harvest Area	Volume
3	1	886.00
	2	533.00
	3	256.00
	4	11.00
	5	134.00
	6	60.00
	7	59.00
Total for 3		1939.00

Total For 24-Okanogan 1939.00

Total Volume 1939.00

**State of Washington
Department of Natural Resources
Timber Bill of Sale Extension Charges**

Extension Per Acre Charge Worksheet

Agreement No.:

Region:

Sale Method:

Harvest Type:

Geographic Area:

Site Class (westside only):

- 1. Growth Loss
 - 2. Additional Growth
 - 3. Loss thru Disrupt.
- Per Acre Charge**

Westside PC/Thin		Westside Evenage		Eastside PC/Thin		Eastside Evenage	
scale	lump	scale	lump	scale	lump	scale	lump
							2.00
							250.06
							12.50
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$264.56

Total Per Acre Charge:

This figure to be Input into the G-050 or G051 clause.

PRE-CRUISE NARRATIVE

Sale Name: Black Diamond Sorts	Region: Northeast
Agreement #: 30-100080	District: Highlands
Contact Forester: Matt Smith Phone / Location: 509-223-4044	County(s): Choose a county, Okanogan
Alternate Contact: Kevan Roberts Phone / Location: 509-684-7474	Other information:

Type of Sale: Lump Sum	
Harvest System: Ground based	100%
Harvest System: <i>Select harvest system</i>	
Enter % of sale acres	
Harvest System: <i>Select harvest system</i>	

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/ WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	36,25 T40 R27E		153	11	0	2	0	140	GPS (Garmin)
2	S12, T39 R28E		80	0	0	0	0	80	GPS (Garmin)
3	S16, T38 R28E		72	0	0	2	0	70	GPS (Garmin)
4	S16, T38 R28E		3	0	0	0	0	3	GPS (Garmin)
5	S16, T38 R28E		16	0	0	0	0	16	GPS (Garmin)
6	S12, T38 R28E		13	0	0	0	0	13	GPS (Garmin)
7	S12, T38 R28E		10	0	0	0	0	10	GPS (Garmin)
ROW			3	0	0	0	0	3	
TOTAL ACRES			350	11	0	4	0	335	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers & pink flagging. Remove all ponderosa pine greater than 10 inches in DBH, western larch and Douglas-fir greater than 7 inches DBH not banded with blue paint.		Minimum 21 leave trees per acre. Leave all Legacy trees.
2	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers & pink flagging. Remove all ponderosa pine greater than 10 inches in DBH, western larch and Douglas-fir greater than 7 inches DBH not banded with blue paint.		Minimum 6 leave trees per acre. Leave all Legacy trees.
3	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers & pink flagging. Remove all ponderosa pine greater than 10 inches in DBH, western larch and Douglas-fir greater than 7 inches DBH not banded with blue paint.		Minimum 21 leave trees per acre. Leave all Legacy trees.
4	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers & pink flagging. Remove all ponderosa pine greater than 10 inches in DBH, western larch and Douglas-fir greater than 7 inches DBH not banded with blue paint.		Minimum 21 leave trees per acre. Leave all Legacy trees.
5	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers & pink flagging. Remove all ponderosa pine greater than 10 inches in DBH, western larch and Douglas-fir greater than 7 inches DBH not banded with blue paint.		Minimum 21 leave trees per acre. Leave all Legacy trees.
6	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers & pink flagging. Remove all ponderosa pine greater than 10 inches in DBH, western larch and Douglas-fir greater than 7 inches DBH not banded with blue paint.		Minimum 6 leave trees per acre. Leave all Legacy trees.
7	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers & pink flagging. Remove all ponderosa pine greater than 10 inches in DBH, western larch and Douglas-fir greater than 7 inches DBH not banded with blue paint.		Minimum 6 leave trees per acre. Leave all Legacy trees.
ROW	Remove all trees between the orange "Right-of-Way Boundary" tags		

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF,PP/568	By ATV over USFS RUP route or by automobile through Nine Mile Ranch with permission	See vicinity map and driving directions
2	DF,WL/560	By ATV over USFS RUP route AND with permission from Eden Valley Guest Ranch over RUP route. No access through the Ranch	See vicinity map and driving directions
3	PP,DF/210	Off Havillah county road	See vicinity map and driving directions
4	PP,DF/9	Off Havillah county road	See vicinity map and driving directions
5	DF,PP/80	Off Havillah county road	See vicinity map and driving directions
6	DF,WL/45	With permission from Lyle Oberg	See vicinity map and driving directions
7	DF,WL/45	With permission from Lyle Oberg	See vicinity map and driving directions
TOTAL MBF	1522		

REMARKS:

Please make contact with Matt Smith to discuss best access before beginning work. Some private landowners have strict access requirements on the RUP.

Prepared By: Matt Smith Date: 10/17/2019	Title: Unit Forester	CC:
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Cruise Narrative

Sale Name: Black Diamond	Region: Northeast
Agreement Number: 30-100080	District: Highlands
Lead Cruiser: Dylan Worlock	Completion Date: 2/24/2020
Other Cruisers on sale: Michael Rung, Michael Lowry	Legal: Sections 12 & 16, T38N, R28E W.M.; Section 12, T39N, R28E W.M.; Sections 25 & 36, T40N, R27E W.M.

Unit #	Gross Acres	Net Acres	Total Deletions	Existing Roads	Leave Tree Acres	Power Line	RMZ/WMZ
1	152.70	139.70	13.00	2.00			11.00
2	80.10	80.10	0.00				
3	71.50	69.50	2.00	2.00			
4	2.60	2.60	0.00				
5	16.10	16.10	0.00				
6	13.20	13.20	0.00				
7	10.20	10.20	0.00				
ROW7	3.00	3.00	0.00				
Total	349.40	334.40	15.00	4.00	0.00	0.00	11.00

Cruise Sample Design:

This timber sale was cruised using **variable plot** sampling, utilizing a cruise plot – count plot method. State-owned ROW was 100%. Each plot was a full plot. Plot locations were created using a computer generated grid, and found using a hand held GPS unit.

Unit #	Sample Type (VP, FP, ITS, 100%)	Expansion Factor (BAF OR RADIUS)	Sighting height	Grid size (plot spacing in feet)	Plot Ratio Cruise:Count	% Cruise to count Actual	Total number of Plots
1	VP	20	D4H	230' x 230'	1:2 (33%)	32%	114
2	VP	20	D4H	230' x 230'	1:2 (33%)	39%	66
3	VP	20	D4H	230' x 230'	1:2 (33%)	37%	57
4	VP	20	D4H	180' x 180'	Cruise All	100%	4
5	VP	20	D4H	220' x 220'	1:1 (50%)	47%	14
6	VP	20	D4H	208' x 208'	1:1 (50%)	71%	14
7	VP	20	D4H	208' x 208'	1:1 (50%)	100%	12
ROW7	100%	N/A	D4H	N/A	N/A	100%	2
Total						43%	283

Cruise Specifications:

Minor species cruise intensity:	We grade the first tree of all minor species encountered; then cruise as appropriate.
Minimum top dib:	<p>Ponderosa pine: 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>All other species: 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: 10 inches DBH All other species: 7.0 inches DBH
Log lengths:	Saw logs: 32 feet where possible, minimum of 12 feet
Take / Leave tree description:	Harvest all green conifers that meet the minimum cruise specifications and are not banded with blue paint. Remove all trees between orange "Right-of-Way Boundary" tags
Commercial species observed in sale area, but not in cruise:	
Utility wood:	N/A
Status codes used:	N/A
Sort codes used	D – saw log
Species table used:	NE
Grade table used:	NEGRADE
Other tables used (cruise adjustment):	

Field Observations:

Location:	Northern Okanogan county. Units are between 2 and 11 miles east of Oroville, Wa. Sale is based around Havilla county road.
Aspect:	North, East, South, West.
Elevation:	2500' to 4100'
Slope:	Unit 1 – 0% to 55%, Average 10% Unit 2 – 0% to 50%, Average 18% Unit 3 – 0% to 55%, Average 15% Unit 4 – 0% to 40%, Average 20% Unit 5 – 0% to 60%, Average 20% Unit 6 – 0% to 55%, Average 17% Unit 7 – 0% to 55%, Average 30%
Harvest Methods:	100% ground-based
Stand Composition:	The stands are second growth Douglas-fir, ponderosa pine, and western larch, and grand fir. There are larger residual trees including legacy trees within the sale area. Average DBH within the sale is 11.9", with an average bole length of 58'.
Stand Health:	Defect in the stand includes damage from root rot, spike knots, forks, mistletoe, competition mortality, etc. Defoliators and bark beetles have affected trees within the sale area. There are isolated pockets of root rot. Defect amounts to 2.9% of the gross volume.
Timber Quality:	The timber is a mix of domestic quality Douglas-fir (75%), ponderosa pine (17%), and western larch (8%).
Non-board Foot Volume:	N/A
Remarks:	This sale consists of seven units and several pieces of right-of-way, spread out primarily along Havillah county road. The sale volume totals 1,939 Net MBF , averaging 5.8 mbf/acre. The terrain throughout the sale is generally gentle, while some navigation around rock outcroppings and steep slopes will be required.

Trust and Counties:

Entire sale is within Okanogan County within trust 03.

Prepared by: Dylan Worlock

Title: Forest Check Cruiser 1

CC: Timber Sales Document Center & File #30-100080

T38N R28E S12 Ty00U6 THRU T40N R27E S36 Ty00U1	Project: BLCKDMD Acres 334.40	Page 1 Date 2/24/2020 Time 9:57:13AM
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S Spp	So T	Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of 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	21-30	31-35	36-99					
WL	D	2	26	.2	113	113	38			80	20			100	32	14	285	1.78	.4	
WL	D	3	55	5.5	257	243	81		100			0	1	99	32	8	77	0.60	3.2	
WL	D	4	19	6.5	85	79	27	92	8			37	46	17	23	5	25	0.26	3.2	
WL	Totals		8	4.4	456	436	146	17	57	21	5	7	9	84	28	7	65	0.55	6.7	
DF	D	2	11	.9	494	489	164			100				100	32	13	213	1.56	2.3	
DF	D	3	58	2.9	2,616	2,541	850		100			1	2	97	32	8	85	0.63	30.0	
DF	D	4	31	3.6	1,387	1,337	447	87	13			28	26	46	23	5	28	0.29	46.9	
DF	Totals		75	2.9	4,497	4,368	1,461	27	62	11		9	9	82	27	6	55	0.49	79.2	
PP	D	4	20	1.5	209	206	69			94	6	0	5	95	31	13	223	1.47	.9	
PP	D	5	80	2.7	809	788	263		100			14	25	61	26	7	55	0.53	14.3	
PP	Totals		17	2.4	1,018	993	332		79	19	1	12	21	68	27	7	65	0.60	15.2	
Totals				2.9	5,971	5,797	1,939	21	65	13	1	9	11	80	27	7	57	0.51	101.2	

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT		BLCKDMD			DATE		2/24/2020		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
38N 40N	28E 27E	12 36	BLCKDMD BLCKDMD	00U6 00U1	THR	334.40	284	777	S	E	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			284	777	2.7						
CRUISE			96	331	3.4	22,917	1.4				
DBH COUNT REFOREST COUNT			127	445	3.5						
BLANKS			61								
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		210	54.4	11.5	59	11.6	39.4	4,497	4,368	1,030	
P PINE		91	10.1	13.8	47	2.8	10.5	1,018	993	242	
W LARCH		30	4.0	12.5	72	1.0	3.4	456	436	102	
TOTAL		331	68.5	11.9	58	15.4	53.3	5,971	5,797	1,374	
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	10	15		
DOUG FIR		74.0	5.2	114	120	126					
P PINE		89.0	9.7	138	153	168					
W LARCH		113.8	21.5	173	220	267					
TOTAL		92.8	5.2	131	138	145	344	86	38		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		71.0	4.9	28	29	30					
P PINE		72.7	7.9	33	36	39					
W LARCH		95.8	18.1	39	47	56					
TOTAL		79.3	4.4	31	32	34	251	63	28		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		128.0	7.6	50	54	58					
P PINE		255.2	15.1	9	10	12					
W LARCH		336.8	20.0	3	4	5					
TOTAL		105.7	6.3	64	69	73	446	111	50		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		119.5	7.1	37	39	42					
P PINE		244.0	14.5	9	10	12					
W LARCH		300.7	17.8	3	3	4					
TOTAL		95.5	5.7	50	53	56	364	91	40		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		123.3	7.3	4,048	4,368	4,687					
P PINE		243.4	14.4	850	993	1,137					
W LARCH		324.0	19.2	352	436	520					
TOTAL		100.4	6.0	5,452	5,797	6,142	403	101	45		
CL	68.1	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		122.4	7.3	955	1,030	1,105					
P PINE		241.5	14.3	207	242	276					

TC PSTATS		PROJECT STATISTICS							PAGE	2	
		PROJECT			BLCKDMD				DATE	2/24/2020	
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt
38N 40N	28E 27E	12 36	BLCKDMD BLCKDMD	00U6 00U1	THR	334.40		284	777	S	E
CL	68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15		
W LARCH		312.6	18.5	83	102	121					
TOTAL		98.8	5.9	1,293	1,373	1,454	389	97	43		
CL	68.1	COEFF		TONS/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		122.4	7.3	27	29	31					
P PINE		241.5	14.3	5	6	7					
W LARCH		312.6	18.5	2	2	3					
TOTAL		100.1	5.9	35	38	40	400	100	44		
CL	68.1	COEFF		V_BAR/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR				103	111	119					
P PINE		160.8	9.5	81	95	108					
W LARCH		246.5	14.6	102	126	151					
TOTAL		99.6	5.9	102	109	115	396	99	44		

T40N R27E S36 T00U1										T40N R27E S36 T00U1				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
40N	27E	36	BLCKDMD	00U1	139.70	115	103	S	E					

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				
					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	21-30	31-35	36-99									
DF		D	2	10	1.0	591	586	82	100				100				32	12	205	1.46	2.9				
DF		D	3	56	2.9	3,282	3,188	445	100				1	0	98	32	8	81	0.60	39.6					
DF		D	4	34	5.4	1,976	1,871	261	86	14					22	31	46	24	5	29	0.29	65.5			
DF	Totals			89	3.5	5,850	5,645	789	28	61	10					8	11	81	27	6	52	0.46	107.9		
PP		D	4	19		92	92	13	100				100				32	13	253	1.46	.4				
PP		D	5	81		370	370	52	100				7	35	58	27	7	55	0.48	6.7					
PP	Totals			7		462	462	65	80	20					5	28	67	27	7	66	0.54	7.0			
WL		D	3	79	5.8	202	190	27	100				100				32	8	78	0.59	2.4				
WL		D	4	21		48	48	7	100					100				27	5	35	0.24	1.4			
WL	Totals			4	4.7	250	239	33	20	80					20	80					30	7	63	0.48	3.8
Type Totals					3.3	6,563	6,345	886	26	63	11					8	12	80	27	6	53	0.47	118.7		

T39N R28E S12 T00U2										T39N R28E S12 T00U2				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
39N	28E	12	BLCKDMD	00U2	80.10	66	73	S	E					

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			
					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	21-30	31-35	36-99								
DF		D	2	8	1.2	447	442	35	100				100				32	13	238	1.77	1.9			
DF		D	3	61	2.9	3,331	3,234	259	100				3 97				32	8	86	0.61	37.6			
DF		D	4	31	.3	1,646	1,640	131	95	5					28	19	53	23	5	29	0.27	56.5		
DF	Totals			80	2.0	5,425	5,316	426	29	62	8					9	8	84	26	6	55	0.47	96.0	
WL		D	2	31	.0	371	371	30	82 18				100				32	14	271	1.76	1.4			
WL		D	3	52	5.8	639	602	48	100				100				32	8	76	0.59	7.9			
WL		D	4	17		188	188	15	94	6					48	28	23	23	5	26	0.26	7.3		
WL	Totals			17	3.1	1,197	1,160	93	15	53	26	6					8	5	88	28	7	70	0.58	16.6
PP		D	4	42	4.5	77	73	6	35 65				100				32	15	315	1.80	.2			
PP		D	5	58	9.5	109	98	8	100				8 21 70				26	7	53	0.47	1.9			
PP	Totals			3	7.5	186	172	14	57 15 28				5 12 83				26	8	82	0.65	2.1			
Type Totals					2.3	6,807	6,648	533	26	61	12	2	8 7 84				27	6	58	0.49	114.7			

T38N R28E S16 T00U3										T38N R28E S16 T00U3				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
38N	28E	16	BLCKDMD	00U3	69.50	57	44	S	E					

Spp	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 Ft	Dia In	Bd Ft	CF/Lf	
													4-5	6-11	12-16	17+	12-20	21-30	31-35						36-99
PP	D	4	19	1.6	519	511	35	100				9	91	31	13	201	1.40	2.5							
PP	D	5	81	3.5	2,166	2,091	145	100				18	21	60	26	7	51	0.52	41.1						
PP	Totals		71	3.1	2,685	2,602	181	80	20			15	19	66	27	7	60	0.58	43.6						
DF	D	2	22		244	244	17	100						100	32	12	190	1.48	1.3						
DF	D	3	64	2.0	698	683	47	100						100	32	10	141	1.17	4.9						
DF	D	4	14		149	149	10	28	72			100			20	6	24	0.41	6.1						
DF	Totals		29	1.3	1,090	1,075	75	4	73	23		14		86	26	8	88	0.92	12.3						
Type Totals				2.6	3,774	3,677	256	1	78	21		14	13	72	26	7	66	0.65	55.9						

T38N R28E S16 T00U4										T38N R28E S16 T00U4			
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt				
38N	28E	16	BLCKDMD	00U4	2.60	4	9	S	E				

Spp	T	So	Gr	rt	ad	%	Net	Percent Net Board Foot Volume								Average Log				Logs Per /Acre					
								Bd. Ft. per Acre				Total	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
								Def%	Gross	Net	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35						36-99
PP		D	4			8	370	370		1		100			100			32	12	190	1.71	1.9			
PP		D	5			92	3,861	3,861		10		100			7	31	62	28	7	58	0.49	66.8			
PP	Totals					100	4,231	4,231		11		91	9		7	28	65	28	7	62	0.53	68.7			
Type Totals							4,231	4,231		11		91	9		7	28	65	28	7	62	0.53	68.7			

T38N R28E S16 T00U5										T38N R28E S16 T00U5				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
38N	28E	16	BLCKDMD	00U5	16.10	14	24	S	E					

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	Dia	Bd	CF/	
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	
DF		D	2	28	.8	1,326	1,315	21	100				100				32	13	225	1.75	5.9
DF		D	3	55	1.2	2,593	2,563	41	100				3 97				32	8	95	0.75	27.0
DF		D	4	17	5.6	817	771	12	73	27	66 34				20	5	23	0.29	33.0		
DF	Totals			56	1.8	4,737	4,650	75	12	60	28	13 87				26	7	71	0.68	65.9	
PP		D	4	19	1.9	737	723	12	100				100				32	13	235	1.49	3.1
PP		D	5	81	2.3	3,011	2,942	47	100				13	24	63	26 8 73 0.67				40.4	
PP	Totals			44	2.2	3,747	3,665	59	80 20				11	19	70	26 9 84 0.74				43.5	
Type Totals					2.0	8,484	8,314	134	7	69	25	12 8 80				26	8	76	0.70	109.4	

T39N R28E S12 T00U7										T39N R28E S12 T00U7				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
39N	28E	12	BLCKDMD	00U7	10.20	12	35	S	E					

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	Dia	Bd	CF/			
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf			
DF		D	2	9	439	439	4	100				100				32	12	222	1.67	2.0			
DF		D	3	46	2,080	1,993	20	100				8 92				32	7	75	0.63	26.6			
DF		D	4	45	2,048	1,988	20	78	22					29	16	55	25	5	33	0.31	59.9		
DF		Totals		80	3.2	4,567	4,420	45	35	55	10					13	11	76	27	6	50	0.46	88.5
WL		D	2	53	587	587	6	61 39				100				32	16	356	1.86	1.6			
WL		D	3	35	376	376	4	100				6	25	70	30	8	76	0.68	4.9				
WL		D	4	12	127	127	1	88	12					12	88			25	5	28	0.26	4.5	
WL		Totals		20	1,090	1,090	11	10	36	33	21	3	19	78	29	8	98	0.72	11.1				
Type Totals					2.6	5,657	5,510	56	30	51	14	4	11	13	76	27	6	55	0.49	99.6			

T38N R28E S16 T0RW1										T38N R28E S16 T0RW1			
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt				
38N	28E	16	BLCKDMD	0RW1	3.00	2	20	S	E				

Spp	Sp	T	So	Gr	ad	%	Net	Percent Net Board Foot Volume										Average Log				Logs Per /Acre		
								Bd. Ft. per Acre			Total	Log Scale Dia.				Log Length				Ln	Dia		Bd	CF/
								Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
PP			D		4	63		650	650		2		75	25	15	85		28	14	244	1.82	2.7		
PP			D		5	37	3.4	387	373		1		100		21	29	51	22	7	51	0.63	7.3		
PP	Totals					100	1.3	1,037	1,023		3		36	48	16	72		24	9	102	1.00	10.0		
Type	Totals						1.3	1,037	1,023		3		36	48	16	72		24	9	102	1.00	10.0		

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

T38N R28E S12 Ty00U6	13.2
T38N R28E S16 Ty00U3	69.5
T40N R27E S36 Ty00U	139.7

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Acres 334.40

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Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
DOUG FIR	18,181	26,496	9,817	18.94	13.00	0.50	3,444	3,444	1,504	1,461
P PINE	3,392	5,090	1,940	23.83	15.88	0.58	808	808	340	332
W LARCH	1,344	2,256	818	25.36	15.10	0.55	341	341	152	146
Totals	22,917	33,843	12,574	20.04	13.57	0.51	4,593	4,593	1,997	1,939

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	22,917	33,843	12,574	20.04	13.57	0.51	4,593	4,593	1,997	1,939
Totals	22,917	33,843	12,574	20.04	13.57	0.51	4,593	4,593	1,997	1,939

Log Stock Table - MBF

T38N R28E S12 Ty00U6
 THRU
 T40N R27E S36 Ty00U1

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Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
WL		D 2	32	38		38	26.0					11	11	15				
WL		D 3	20	0		0	.2				0							
WL		D 3	28	1		1	.6					1						
WL		D 3	32	85	5.6	80	55.0			26	35	20						
WL		D 4	12	1		1	.5		1	0								
WL		D 4	14	1		1	.5		1									
WL		D 4	16	0		0	.1				0							
WL		D 4	18	0		0	.3			0								
WL		D 4	20	9	12.5	8	5.4		7	0								
WL		D 4	24	3		3	1.9		3									
WL		D 4	26	1		1	.8		1									
WL		D 4	28	1		1	.8		1									
WL		D 4	30	7		7	4.9		7									
WL		D 4	32	5	13.5	5	3.1		3	1								
WL		Totals		152	4.4	146	7.5		24	28	35	20	11	11	15			
DF		D 2	32	165		164	11.2					130	34					
DF		D 3	20	8		8	.5					8						
DF		D 3	24	4		4	.3											
DF		D 3	26	2		2	.2			2								
DF		D 3	30	9		9	.6			7	1							
DF		D 3	32	852	3.0	827	56.6			300	283	244						
DF		D 4	12	16		16	1.1		16									
DF		D 4	14	10		10	.7		10	1								
DF		D 4	16	26	10.8	24	1.6		18	5								
DF		D 4	18	30		30	2.0		24	6								
DF		D 4	20	44		44	3.0		36	6	1							
DF		D 4	24	37	1.7	36	2.5		25	12								
DF		D 4	26	36		36	2.5		36									
DF		D 4	28	26		26	1.8		26									
DF		D 4	30	18	3.1	18	1.2		18									
DF		D 4	32	220	5.7	208	14.2		179	29								
DF		Totals		1,504	2.9	1,461	75.3		388	368	289	252	130	34				
PP		D 4	20	0		0	.1					0						
PP		D 4	24	4	15.4	3	1.0					3						
PP		D 4	32	66		65	19.7					48	7	10				

Log Stock Table - MBF

T38N R28E S12 Ty00U6
 THRU
 T40N R27E S36 Ty00U1

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Acres 334.40

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Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
PP		D	5	12			2	2	.5				2								
PP		D	5	14			3	3	.8				3								
PP		D	5	16			7	7	2.2				4	1	3						
PP		D	5	18			3	3	.9				3								
PP		D	5	20			24	1.7	23	7.0			8	8	8						
PP		D	5	24			20	1.7	20	6.0			10	2	8						
PP		D	5	26			13		12	3.7			5	7							
PP		D	5	28			13	5.2	12	3.7			12								
PP		D	5	30			21	1.6	21	6.3			21	0							
PP		D	5	32			165	3.2	160	48.2			60	64	36						
PP		Totals					340	2.4	332	17.1			126	82	55	52	7	10			
Total		All Species					1,997	2.9	1,939	100.0			412	522	406	328	193	52	26		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	BLCKDMD		DATE	2/24/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
40N	27E	36	BLCKDMD	00U1	139.70	115	325	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		115	325	2.8						
CRUISE		31	103	3.3	11,211		.9			
DBH COUNT										
REFOREST										
COUNT		55	222	4.0						
BLANKS		29								
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	90	74.1	11.2	59	15.2	50.8	5,850	5,645	1,338	1,338
P PINE	10	4.3	13.1	52	1.1	4.0	462	462	103	103
W LARCH	3	1.9	13.0	87	0.5	1.7	250	239	55	55
TOTAL	103	80.2	11.4	59	16.8	56.5	6,563	6,345	1,496	1,496
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	10	15	
DOUG FIR	69.4	7.4		105	114	122				
P PINE	92.1	30.7		104	150	196				
W LARCH	40.7	28.2		93	130	167				
TOTAL	72.6	7.2		109	118	126	210	53	23	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	66.0	7.0		26	27	29				
P PINE	78.5	26.1		24	33	41				
W LARCH	21.0	14.6		25	29	34				
TOTAL	66.6	6.6		26	28	30	177	44	20	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	105.3	9.8		67	74	81				
P PINE	389.9	36.3		3	4	6				
W LARCH	470.5	43.8		1	2	3				
TOTAL	103.8	9.7		72	80	88	431	108	48	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	101.7	9.5		46	51	56				
P PINE	375.8	35.0		3	4	5				
W LARCH	471.1	43.9		1	2	3				
TOTAL	102.3	9.5		51	57	62	418	104	46	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	104.9	9.8		5,093	5,645	6,197				
P PINE	366.9	34.2		304	462	620				
W LARCH	479.3	44.7		132	239	345				
TOTAL	105.5	9.8		5,722	6,345	6,969	445	111	49	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	103.7	9.7		1,209	1,338	1,467				
P PINE	370.2	34.5		68	103	139				
W LARCH	472.9	44.1		31	55	79				
TOTAL	104.3	9.7		1,350	1,496	1,641	435	109	48	

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	BLCKDMD			DATE	2/24/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
40N	27E	36	BLCKDMD	00U1	139.70		115	325	S	E
CL:	68.1 %	COEFF		TONS/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
CL:	68.1 %	COEFF		TONS/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		103.7	9.7	34	38	42				
P PINE		370.2	34.5	2	2	3				
W LARCH		472.9	44.1	1	1	2				
TOTAL		103.5	9.6	38	42	46	427	107	47	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR				100	111	122				
P PINE		240.6	22.4	76	116	155				
W LARCH		236.0	22.0	76	137	198				
TOTAL		448.2	41.8	101	112	123	8,023	2,006	891	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	BLCKDMD		DATE	2/24/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	28E	12	BLCKDMD	00U2	80.10	66	183	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
		PLOTS	TREES		TREES	TREES				
TOTAL		66	183	2.8						
CRUISE		20	72	3.6	6,244		1.2			
DBH COUNT										
REFOREST										
COUNT		37	110	3.0						
BLANKS		9								
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	52	67.2	11.1	62	13.6	45.2	5,425	5,316	1,184	1,183
W LARCH	17	9.8	13.1	74	2.5	9.1	1,197	1,160	271	271
P PINE	3	1.0	15.0	64	0.3	1.2	186	172	36	36
TOTAL	72	78.0	11.4	63	16.4	55.5	6,807	6,648	1,490	1,490
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	10	15	
DOUG FIR	84.0	11.6		111	126	141				
W LARCH	111.9	27.9		162	225	288				
P PINE	112.6	77.9		66	300	534				
TOTAL	107.2	12.6		137	157	176	459	115	51	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	83.1	11.5		26	29	32				
W LARCH	93.7	23.4		38	50	61				
P PINE	105.4	72.9		16	60	103				
TOTAL	95.1	11.2		31	35	39	361	90	40	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	96.6	11.9		59	67	75				
W LARCH	168.2	20.7		8	10	12				
P PINE	429.0	52.8		0	1	2				
TOTAL	86.3	10.6		70	78	86	297	74	33	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	89.7	11.0		40	45	50				
W LARCH	160.0	19.7		7	9	11				
P PINE	396.7	48.8		1	1	2				
TOTAL	75.3	9.3		50	55	61	227	57	25	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	91.2	11.2		4,720	5,316	5,913				
W LARCH	180.5	22.2		902	1,160	1,417				
P PINE	409.5	50.4		85	172	258				
TOTAL	75.8	9.3		6,029	6,648	7,268	229	57	25	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	90.6	11.1		1,051	1,183	1,315				
W LARCH	171.1	21.0		214	271	328				
P PINE	404.3	49.7		18	36	54				
TOTAL	74.6	9.2		1,353	1,490	1,626	222	56	25	

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	BLCKDMD			DATE	2/24/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
39N	28E	12	BLCKDMD	00U2	80.10		66	183	S	E
CL:	68.1 %	COEFF		TONS/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
CL:	68.1 %	COEFF		TONS/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		90.6	11.1	30	34	37				
W LARCH		171.1	21.0	5	7	8				
P PINE		404.3	49.7	0	1	1				
TOTAL		75.7	9.3	37	41	45	229	57	25	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR				105	118	131				
W LARCH		141.1	17.4	99	128	156				
P PINE		354.7	43.6	70	142	213				
TOTAL		300.9	37.0	109	120	131	3,615	904	402	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	BLCKDMD		DATE	2/24/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	28E	16	BLCKDMD	00U3	69.50	57	120	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		57	120	2.1						
CRUISE		20	44	2.2	2,627		1.7			
DBH COUNT										
REFOREST										
COUNT		23	76	3.3						
BLANKS		14								
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
P PINE	40	31.7	13.5	43	8.6	31.6	2,685	2,602	670	670
DOUG FIR	4	6.1	17.7	56	2.5	10.5	1,090	1,075	291	291
TOTAL	44	37.8	14.3	45	11.1	42.1	3,774	3,677	961	961
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	10	15	
P PINE	84.9	13.6		101	117	133				
DOUG FIR	21.2	12.1		160	183	205				
TOTAL	78.8	12.0		108	123	138	248	62	28	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	67.0	10.7		26	29	32				
DOUG FIR	22.2	12.7		43	50	56				
TOTAL	63.7	9.7		28	31	34	162	40	18	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	127.9	16.9		26	32	37				
DOUG FIR	299.0	39.6		4	6	9				
TOTAL	110.6	14.6		32	38	43	488	122	54	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	123.8	16.4		26	32	37				
DOUG FIR	298.5	39.5		6	11	15				
TOTAL	109.5	14.5		36	42	48	478	120	53	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	129.9	17.2		2,154	2,602	3,049				
DOUG FIR	298.7	39.5		650	1,075	1,500				
TOTAL	116.6	15.4		3,109	3,677	4,245	543	136	60	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	125.5	16.6		558	670	781				
DOUG FIR	298.6	39.5		176	291	407				
TOTAL	115.5	15.3		814	961	1,108	533	133	59	
CL:	68.1 %	COEFF	TONS/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	125.5	16.6		13	16	19				
DOUG FIR	298.6	39.5		5	8	12				
TOTAL	120.6	16.0		20	24	28	581	145	65	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	BLCKDMD			DATE	2/24/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	28E	16	BLCKDMD	00U3	69.50	57	120	S	E	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE				68	82	97				
DOUG FIR				62	102	143				
TOTAL		424.5	56.2	74	87	101	7,196	1,799	800	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	BLCKDMD		DATE	2/24/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	28E	16	BLCKDMD	00U4	2.60	4	9	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		4	9	2.3						
CRUISE		2	9	4.5	130		6.9			
DBH COUNT										
REFOREST										
COUNT										
BLANKS		2								
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
P PINE	9	50.1	12.8	46	12.6	45.0	4,231	4,231	1,019	1,019
TOTAL	9	50.1	12.8	46	12.6	45.0	4,231	4,231	1,019	1,019
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	10	15	
P PINE	68.3	24.1		87	114	142				
TOTAL	68.3	24.1		87	114	142	209	52	23	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	71.1	25.1		21	28	35				
TOTAL	71.1	25.1		21	28	35	226	57	25	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	130.9	74.8		13	50	87				
TOTAL	130.9	74.8		13	50	87	895	224	99	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	127.7	72.9		12	45	78				
TOTAL	127.7	72.9		12	45	78	851	213	95	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	134.9	77.1		970	4,231	7,492				
TOTAL	134.9	77.1		970	4,231	7,492	951	238	106	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	130.0	74.3		262	1,019	1,776				
TOTAL	130.0	74.3		262	1,019	1,776	883	221	98	
CL:	68.1 %	COEFF	TONS/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	130.0	74.3		6	24	43				
TOTAL	130.0	74.3		6	24	43	883	221	98	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	134.9	77.1		22	94	166				
TOTAL	134.9	77.1		22	94	166	951	238	106	

TC TSTATS				STATISTICS						PAGE	1
				PROJECT	BLCKDMD		DATE				2/24/2020
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
38N	28E	16	BLCKDMD	00U5	16.10	14	51	S	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
				TREES	TREES	TREES					
TOTAL		14	51	3.6							
CRUISE		6	24	4.0	1,000		2.4				
DBH COUNT											
REFOREST											
COUNT		6	27	4.5							
BLANKS		2									
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	39.6	13.9	62	11.1	41.4	4,737	4,650	1,165	1,164
P PINE		9	22.5	16.0	58	7.9	31.4	3,747	3,665	847	847
TOTAL		24	62.1	14.7	61	19.0	72.9	8,484	8,314	2,012	2,012
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	10	15		
DOUG FIR		62.6	16.7	152	182	212					
P PINE		53.0	18.7	163	200	237					
TOTAL		57.7	12.0	166	189	211	139	35	15		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		60.4	16.1	38	45	53					
P PINE		46.1	16.3	38	46	53					
TOTAL		54.3	11.3	40	46	51	123	31	14		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		129.6	35.9	25	40	54					
P PINE		109.6	30.4	16	23	29					
TOTAL		73.4	20.3	49	62	75	232	58	26		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		117.4	32.5	28	41	55					
P PINE		105.1	29.1	22	31	41					
TOTAL		57.6	16.0	61	73	84	143	36	16		
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		118.6	32.9	3,122	4,650	6,178					
P PINE		106.5	29.5	2,584	3,665	4,746					
TOTAL		58.3	16.1	6,973	8,314	9,656	146	36	16		
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		118.3	32.8	783	1,164	1,546					
P PINE		106.0	29.4	598	847	1,096					
TOTAL		59.2	16.4	1,682	2,012	2,342	151	38	17		
CL:	68.1 %	COEFF	TONS/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		118.3	32.8	22	33	44					
P PINE		106.0	29.4	14	20	26					
TOTAL		62.7	17.4	44	54	63	169	42	19		
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT		BLCKDMD		DATE	2/24/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	28E	16	BLCKDMD	00U5	16.10	14	51	S	E	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		54.4	15.1	75	112	149				
P PINE				82	117	151				
TOTAL		<i>231.2</i>	<i>64.0</i>	<i>96</i>	<i>114</i>	<i>133</i>	<i>2,297</i>	<i>574</i>	<i>255</i>	

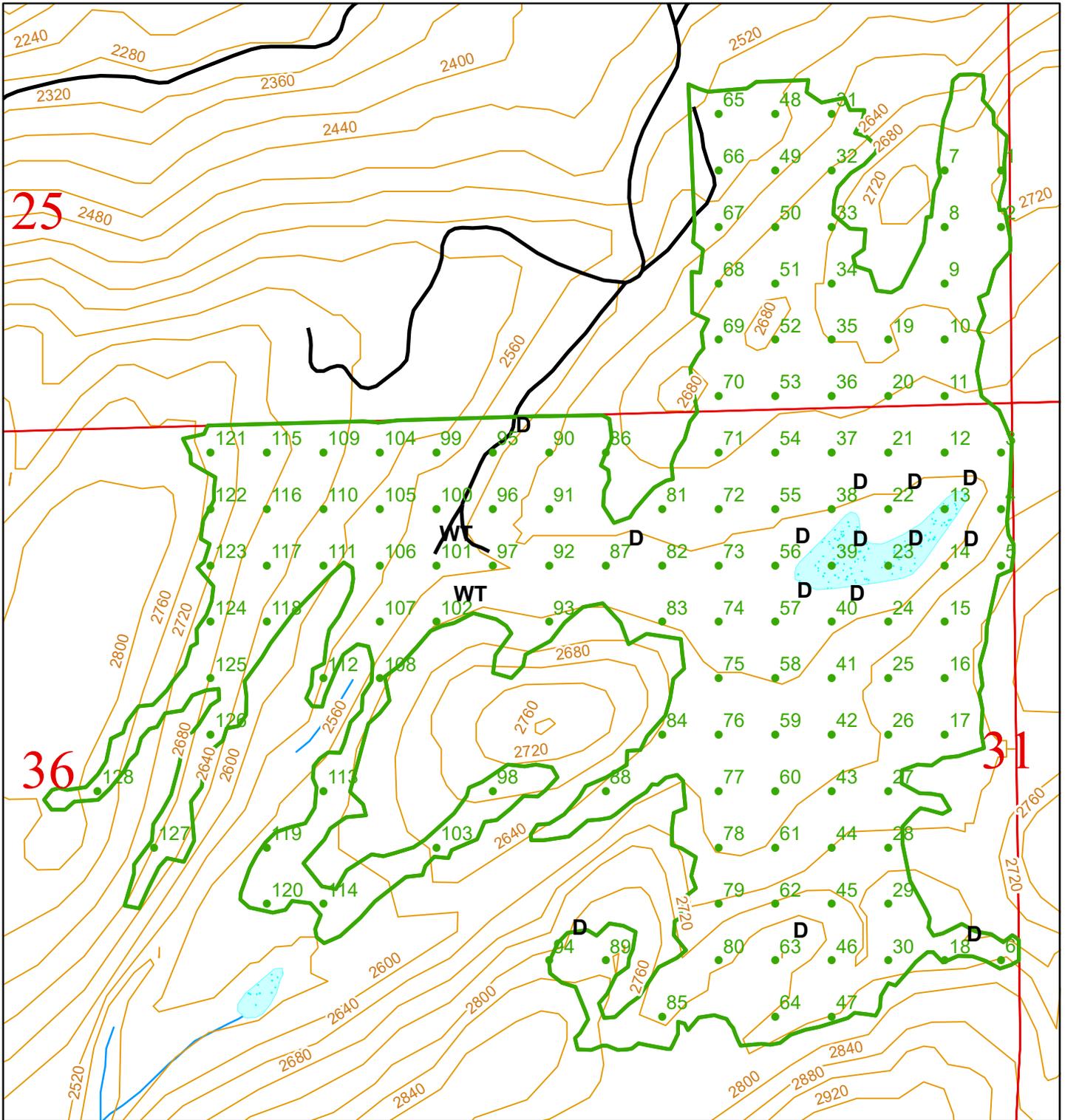
TC TSTATS				STATISTICS						PAGE	1
				PROJECT	BLCKDMD				DATE	2/24/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
38N	28E	12	BLCKDMD	00U6	13.20	14	34	S	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
				PLOTS	TREES	TREES	TREES				
TOTAL		14	34	2.4							
CRUISE		5	24	4.8	860		2.8				
DBH COUNT											
REFOREST											
COUNT		6	10	1.7							
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	18	46.5	12.6	59	11.3	40.0	4,042	3,899	950	950	
W LARCH	6	18.6	9.2	46	2.8	8.6	792	637	181	183	
TOTAL	24	65.1	11.7	55	14.2	48.6	4,834	4,536	1,132	1,132	
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	10	15		
DOUG FIR	66.7	16.6		89	106	124					
W LARCH	181.3	80.7		22	112	202					
TOTAL	105.7	22.5		84	108	132	466	117	52		
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	47.3	11.8		23	26	29					
W LARCH	156.2	69.5		8	26	43					
TOTAL	84.4	18.0		21	26	30	298	74	33		
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	98.4	27.3		34	47	59					
W LARCH	241.3	66.8		6	19	31					
TOTAL	112.2	31.1		45	65	85	541	135	60		
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	100.0	27.7		29	40	51					
W LARCH	218.8	60.6		3	9	14					
TOTAL	100.5	27.8		35	49	62	434	108	48		
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	124.2	34.4		2,557	3,899	5,241					
W LARCH	257.0	71.2		184	637	1,090					
TOTAL	116.6	32.3		3,071	4,536	6,001	584	146	65		
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	117.0	32.4		642	950	1,257					
W LARCH	234.5	65.0		64	183	301					
TOTAL	109.5	30.3		789	1,132	1,476	516	129	57		
CL:	68.1 %	COEFF	TONS/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	116.9	32.4		18	27	36					
W LARCH	234.6	65.0		2	4	7					
TOTAL	109.7	30.4		22	31	41	517	129	57		

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	BLCKDMD			DATE	2/24/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
38N	28E	12	BLCKDMD	00U6	13.20		14	34	S	E
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		104.0	28.8	64	97	131				
W LARCH		257.0	71.2	21	74	127				
TOTAL		<i>199.9</i>	<i>55.4</i>	<i>63</i>	<i>93</i>	<i>124</i>	<i>1,717</i>	<i>429</i>	<i>191</i>	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	BLCKDMD		DATE	2/24/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	28E	12	BLCKDMD	00U7	10.20	12	35	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		12	35	2.9						
CRUISE		10	35	3.5	825		4.2			
DBH COUNT										
REFOREST										
COUNT										
BLANKS		2								
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	31	75.9	11.2	54	15.5	51.7	4,567	4,420	1,095	1,095
W LARCH	4	4.9	15.7	82	1.7	6.7	1,090	1,090	229	229
TOTAL	35	80.9	11.5	55	17.2	58.3	5,657	5,510	1,324	1,324
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	10	15	
DOUG FIR	71.8	13.6		82	95	108				
W LARCH	63.7	44.1		279	500	721				
TOTAL	119.1	21.0		105	133	161	567	142	63	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	71.4	13.5		21	24	28				
W LARCH	46.9	32.4		64	95	126				
TOTAL	93.7	16.5		26	31	36	350	88	39	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	116.9	35.2		49	76	103				
W LARCH	260.7	78.5		1	5	9				
TOTAL	113.7	34.3		53	81	109	563	141	63	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	72.8	21.9		40	52	63				
W LARCH	195.4	58.8		3	7	11				
TOTAL	73.8	22.2		45	58	71	237	59	26	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	69.8	21.0		3,492	4,420	5,349				
W LARCH	181.2	54.6		495	1,090	1,684				
TOTAL	77.4	23.3		4,225	5,510	6,795	261	65	29	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	66.5	20.0		876	1,095	1,314				
W LARCH	187.5	56.4		100	229	358				
TOTAL	74.9	22.5		1,025	1,324	1,622	244	61	27	
CL:	68.1 %	COEFF	TONS/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR	66.5	20.0		25	31	37				
W LARCH	187.5	56.4		2	5	9				
TOTAL	73.1	22.0		29	37	45	233	58	26	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT		BLCKDMD		DATE	2/24/2020	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
39N	28E	12	BLCKDMD	00U7	10.20	12	35	S	E	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUG FIR		69.8	21.0	68	86	104				
W LARCH		181.2	54.6	74	163	253				
TOTAL		<i>77.4</i>	<i>23.3</i>	<i>72</i>	<i>94</i>	<i>116</i>	<i>261</i>	<i>65</i>	<i>29</i>	

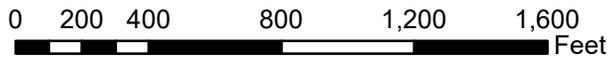
TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	BLCKDMD		DATE	2/24/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
38N	28E	16	BLCKDMD	ORW1	3.00	2	20	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		2	20	10.0						
CRUISE		2	20	10.0	20		100.0			
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
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
P PINE	20	6.7	17.0	41	2.6	10.5	1,037	1,023	237	238
TOTAL	20	6.7	17.0	41	2.6	10.5	1,037	1,023	237	238
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	10	15	
P PINE	81.9	22.7		170	219	269				
TOTAL	81.9	22.7		170	219	269	288	72	32	
CL:	68.1 %	COEFF	SAMPLE TREES - CF				# OF TREES REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	62.4	17.3		42	51	60				
TOTAL	62.4	17.3		42	51	60	167	42	19	
CL:	68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	70.7	66.2		2	7	11				
TOTAL	70.7	66.2		2	7	11	351	88	39	
CL:	68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	47.2	44.2		6	11	15				
TOTAL	47.2	44.2		6	11	15	157	39	17	
CL:	68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	31.8	29.8		719	1,023	1,328				
TOTAL	31.8	29.8		719	1,023	1,328	71	18	8	
CL:	68.1 %	COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	43.5	40.7		141	238	335				
TOTAL	43.5	40.7		141	238	335	132	33	15	
CL:	68.1 %	COEFF	TONS/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	43.3	40.5		3	6	8				
TOTAL	43.3	40.5		3	6	8	131	33	15	
CL:	68.1 %	COEFF	V-BAR/ACRE				# OF PLOTS REQ.	INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
P PINE	63.3	59.3		68	97	126				
TOTAL	63.3	59.3		68	97	126	281	70	31	



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	BLACK DIAMOND U1	Township:	T40R27E
FMA_ID:	267351	DNR Region:	NORTHEAST
Acres:	153	Total Sample Points:	128
County:	OKANOGAN	Spacing Between Points:	Width: 230 Height: 230
		Point Rotation Degrees:	0

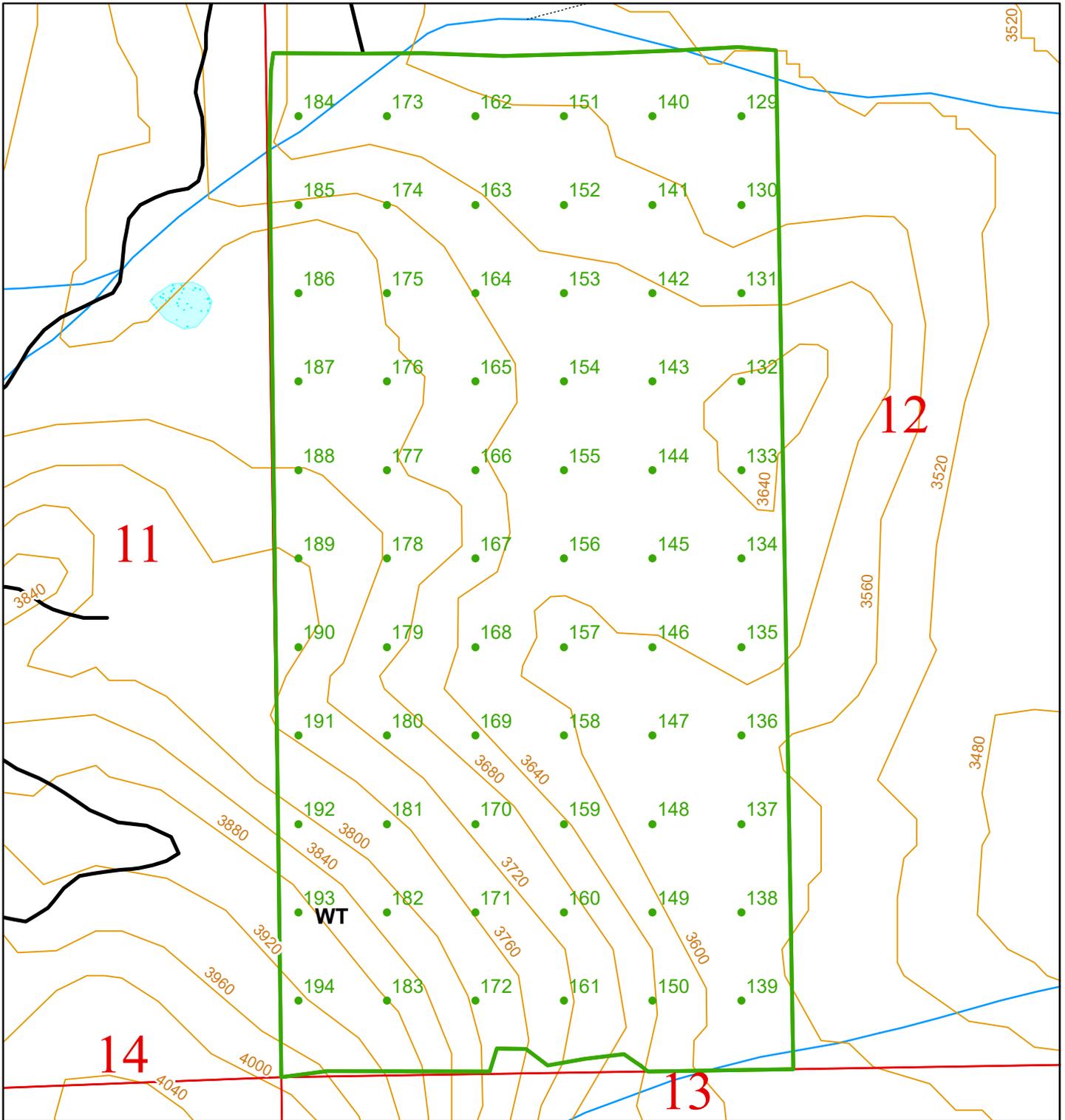
WT: Walkthrough plot
D: Deleted plot



Scale 1:6,900

Legend

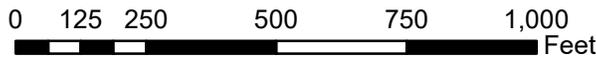
- Sample Points
- FMA polys
- Public Land Survey Sections
- Contours 40-foot



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	BLACK DIAMOND U2	Township:	T39R28E
FMA_ID:	267352	DNR Region:	NORTHEAST
Acres:	80	Total Sample Points:	66
County:	OKANOGAN	Spacing Between Points:	Width: 230 Height: 230
		Point Rotation Degrees:	0

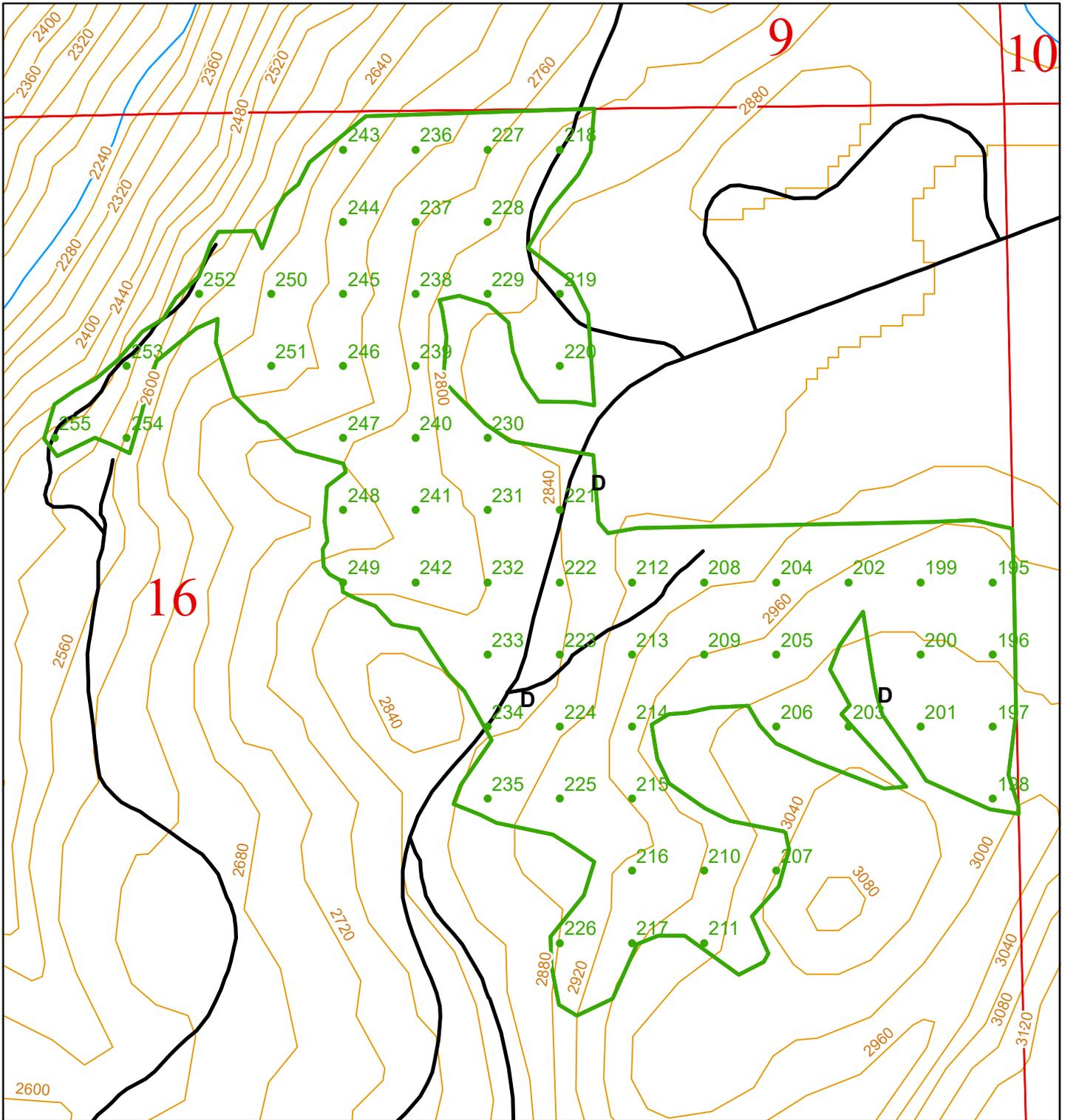
WT: Walkthrough plot
D: Deleted plot



Scale 1:4,400

Legend

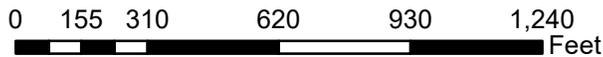
- Sample Points
- FMA polys
- Public Land Survey Sections
- Contours 40-foot



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	BLACK DIAMOND U3	Township:	T38R28E
FMA_ID:	267353	DNR Region:	NORTHEAST
Acres:	72	Total Sample Points:	61
County:	OKANOGAN	Spacing Between Points:	Width: 230 Height: 230
		Point Rotation Degrees:	0

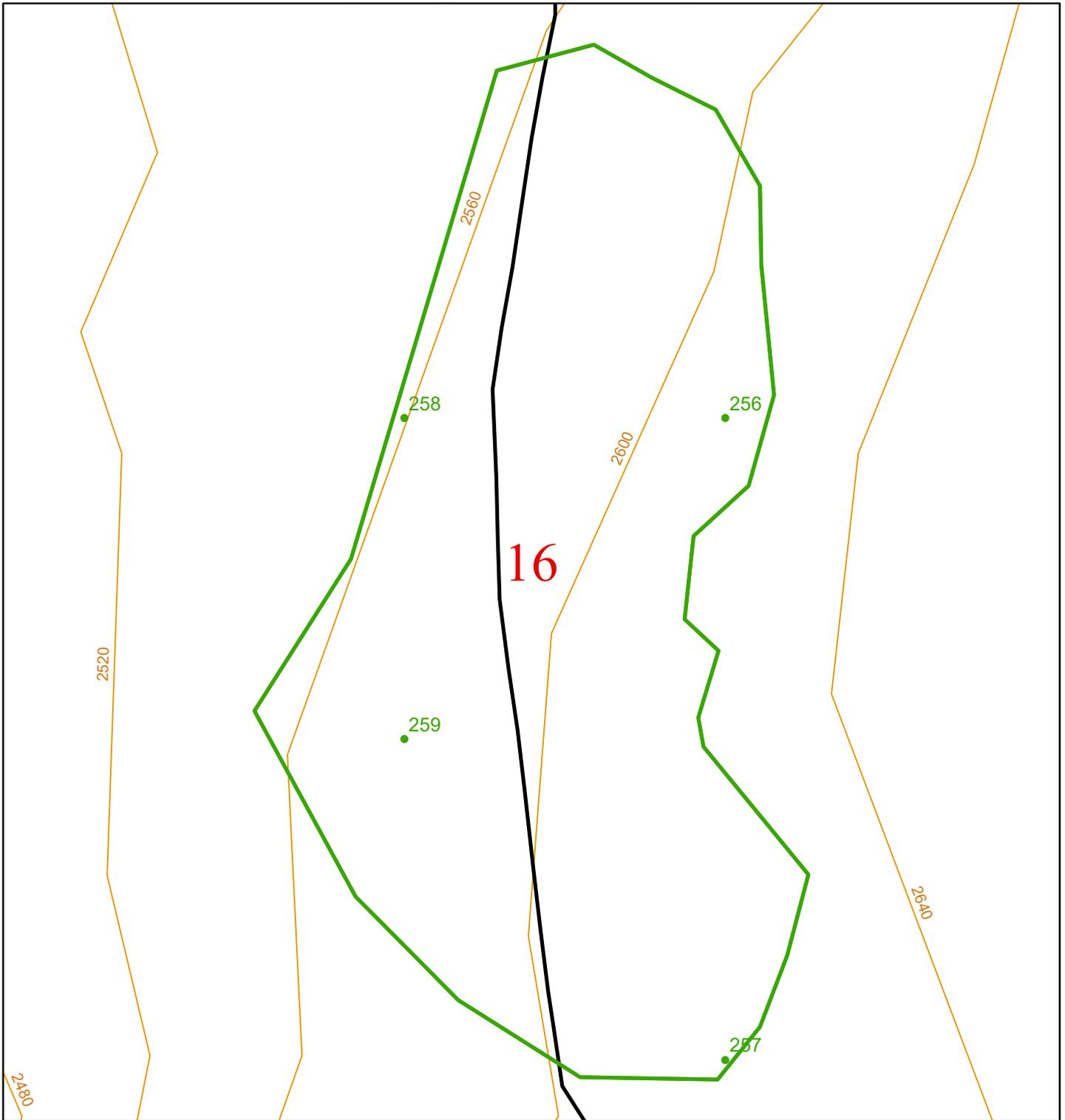
WT: Walkthrough plot
D: Deleted plot



Scale 1:5,400

Legend

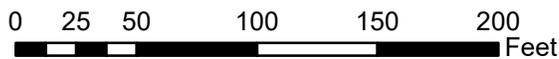
- Sample Points
- FMA polys
- Public Land Survey Sections
- Contours 40-foot



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	BLACK DIAMOND U4	Township:	T38R28E
FMA_ID:	267354	DNR Region:	NORTHEAST
Acres:	3	Total Sample Points:	4
County:	OKANOGAN	Spacing Between Points:	Width: 180 Height: 180
		Point Rotation Degrees:	0

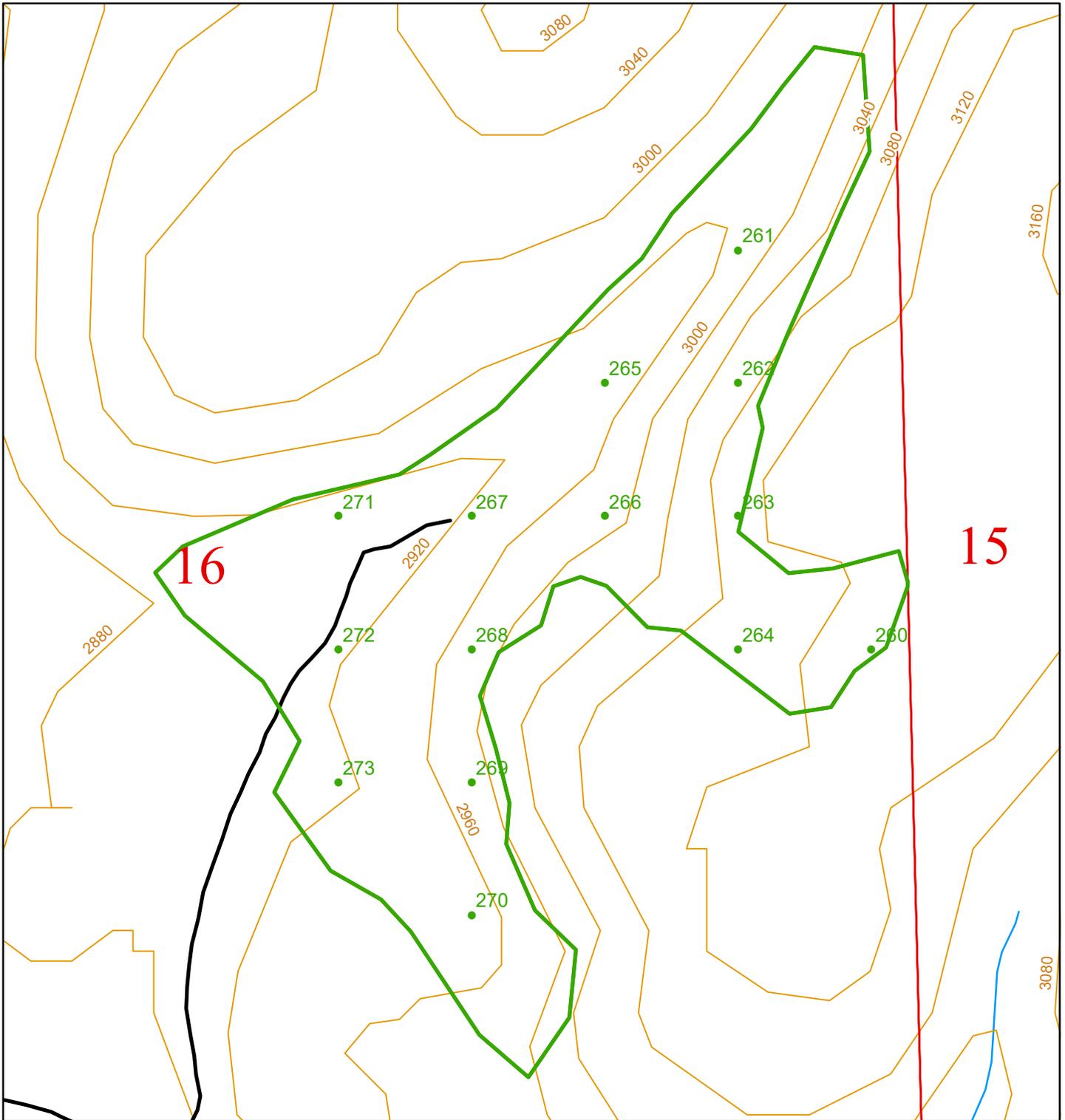
WT: Walkthrough plot
D: Deleted plot



Scale 1:950

Legend

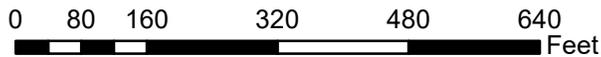
- Sample Points
- FMA polys
- Public Land Survey Sections
- Contours 40-foot



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	BLACK DIAMOND U5	Township:	T38R28E
FMA_ID:	314919	DNR Region:	NORTHEAST
Acres:	16	Total Sample Points:	14
County:	OKANOGAN	Spacing Between Points:	Width: 220 Height: 220
		Point Rotation Degrees:	0

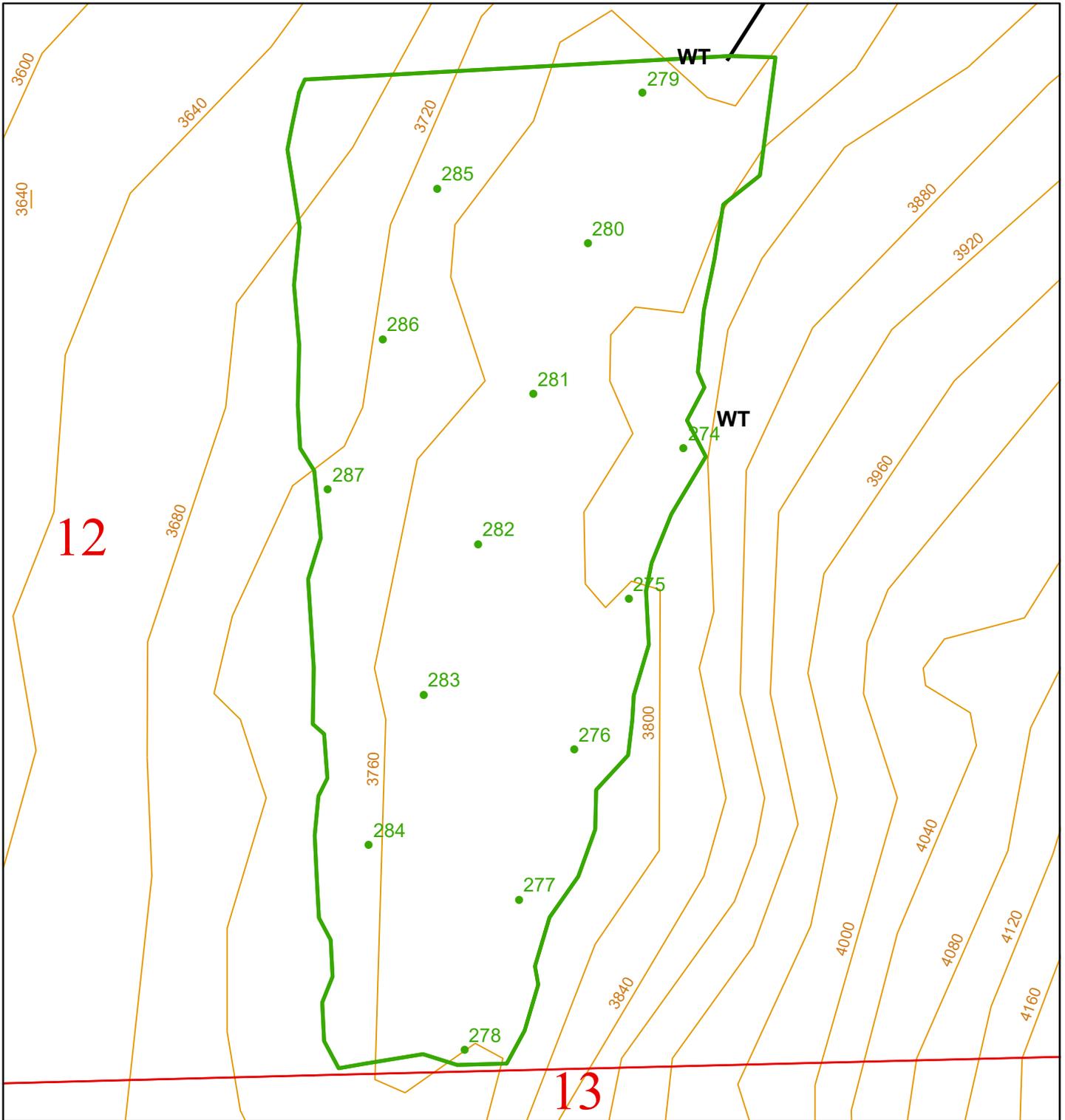
WT: Walkthrough plot
D: Deleted plot



Scale 1:2,800

Legend

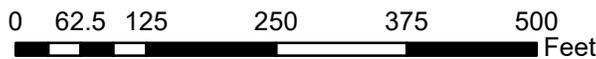
- Sample Points
- FMA polys
- Public Land Survey Sections
- Contours 40-foot



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	BLACK DIAMOND U6	Township:	T38R28E
FMA_ID:	314920	DNR Region:	NORTHEAST
Acres:	13	Total Sample Points:	14
County:	OKANOGAN	Spacing Between Points:	Width: 208 Height: 208
		Point Rotation Degrees:	20

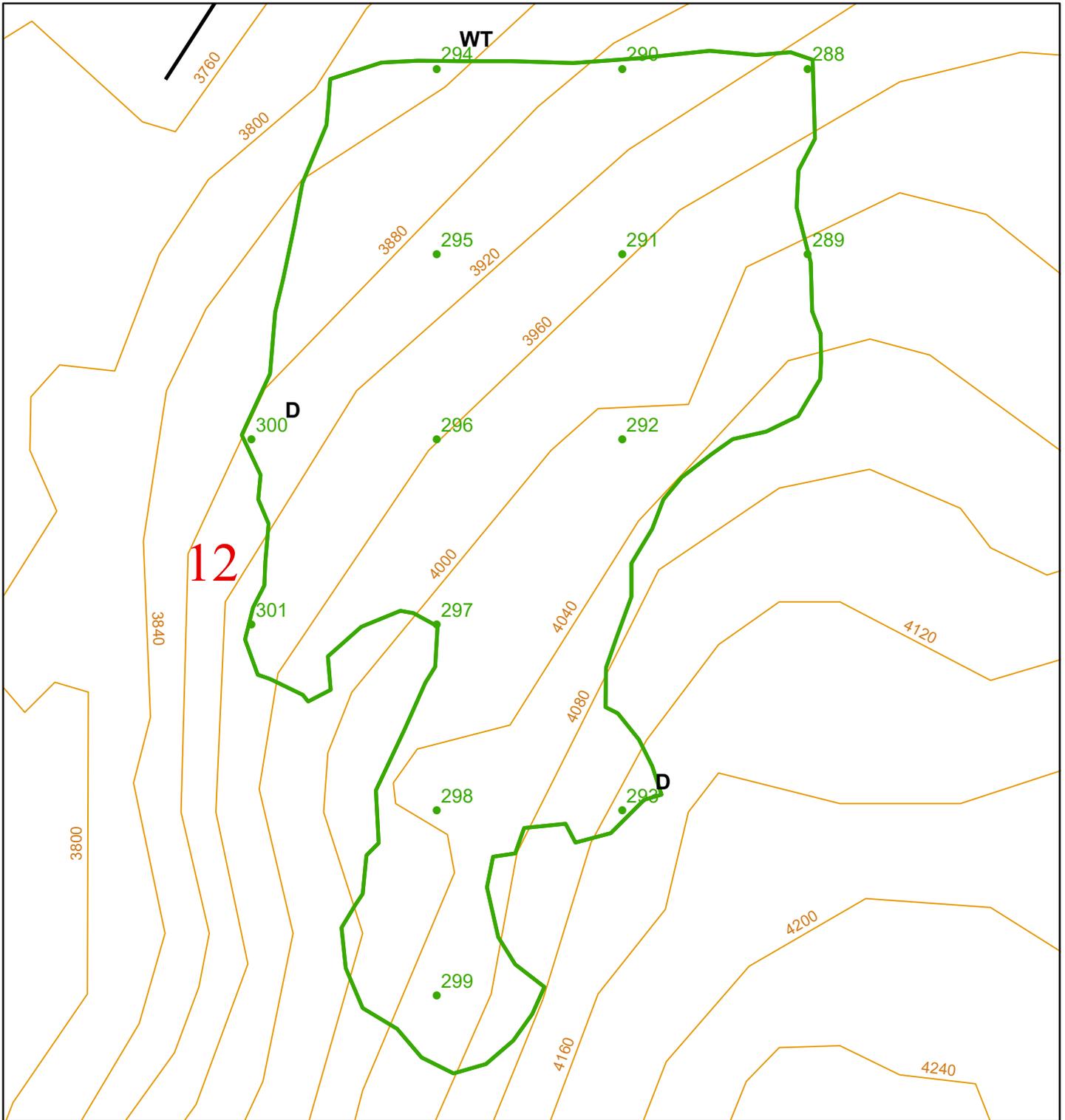
WT: Walkthrough plot
D: Deleted plot



Scale 1:2,200

Legend

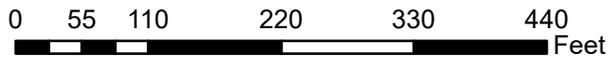
- Sample Points
- FMA polys
- Public Land Survey Sections
- Contours 40-foot



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	BLACK DIAMOND U7	Township:	T38R28E
FMA_ID:	314923	DNR Region:	NORTHEAST
Acres:	10	Total Sample Points:	14
County:	OKANOGAN	Spacing Between Points:	Width: 208 Height: 208
		Point Rotation Degrees:	0

WT: Walkthrough plot
D: Deleted plot



Scale 1:1,900

Legend

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



For DNR Region Office Use Only	
FPAN #:	3023911
Region:	NE
Received Date:	11/20/2019

Forest Practices Application/Notification Eastern Washington

Project Name: Q Black Diamond Sorts

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION.

1. Landowner, Timber Owner and Operator

Legal Name of LANDOWNER WADNR	Legal Name of TIMBER OWNER <input checked="" type="checkbox"/> Same as Landowner	Legal Name of OPERATOR <input checked="" type="checkbox"/> Same as Landowner
Mailing Address: 225 S. Silke Rd	Mailing Address:	Mailing Address:
City, State, Zip: Colville, WA 99114	City, State, Zip:	City, State, Zip:
Phone:509.684-7474	Phone:	Phone:
Email:robert.hechinger@dnr.wa.gov	Email:	Email:

2. Contact Person

Contact Person: Matt Smith	Phone:509.223.4044
	Email:

3. Are you converting the land to non-forestry use within 3 years of harvest?

No Yes If yes, include your SEPA checklist and SEPA determination (if applicable) and county clearing and grading permit (if applicable).

4. If you are harvesting timber, enter the Forest Tax Number of the Timber Owner:

888 888 888

Eligible for EARR Tax Credit No Yes

Contact the Department of Revenue at 1-800-548-8829 for tax reporting information or to obtain a number.

5. Are you a small forest landowner per RCW 76.09.450? See instructions

No Yes If yes, **Check all that apply.** If no, skip to Question 6.

My entire proposed harvest area is on a single contiguous ownership consisting of one or more parcels.



For DNR Region Office Use Only	
FPAN #:	3023911
Region:	NE
Received Date:	11-20-19

Forest Practices Application/Notification Eastern Washington

Project Name: _____

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION.

1. Landowner, Timber Owner and Operator

Legal Name of LANDOWNER <i>Hartley Farms LLC</i>	Legal Name of TIMBER OWNER <input checked="" type="checkbox"/> Same as Landowner	Legal Name of OPERATOR <input type="checkbox"/> Same as Landowner
Mailing Address: <i>72 N Oberg</i>	Mailing Address:	Mailing Address:
City, State, Zip: <i>Tongue Pt WA 98055</i>	City, State, Zip:	City, State, Zip:
Phone: <i>509 405-3382</i>	Phone:	Phone:
Email: <i>LOBORG@NIVW.COM</i>	Email:	Email:

2. Contact Person

Contact Person: <i>Top Oberg</i>	Phone:
	Email:

3. Are you converting the land to non-forestry use within 3 years of harvest?

No Yes If yes, include your SEPA checklist and SEPA determination (if applicable) and county clearing and grading permit (if applicable).

4. If you are harvesting timber, enter the Forest Tax Number of the Timber Owner:

_____ Eligible for EARR Tax Credit No Yes

Contact the Department of Revenue at 1-800-548-8829 for tax reporting information or to obtain a number.

5. Are you a small forest landowner per RCW 76.09.450? See instructions

No Yes If yes, Check all that apply. If no, skip to Question 6.

My entire proposed harvest area is on a single contiguous ownership consisting of one or more parcels.



For DNR Region Office Use Only	
FPA/N #:	3023911
Region:	NE
Received Date:	11-20-19

Forest Practices Application/Notification Eastern Washington

Project Name: _____

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION.

1. Landowner, Timber Owner and Operator

Legal Name of LANDOWNER <i>Nadru and Robin, LLC</i>	Legal Name of TIMBER OWNER <input checked="" type="checkbox"/> Same as Landowner	Legal Name of OPERATOR <input type="checkbox"/> Same as Landowner
Mailing Address: <i>445 Rd "D" NW WATERVILLE, WA 98858</i>	Mailing Address:	Mailing Address:
City, State, Zip:	City, State, Zip:	City, State, Zip:
Phone: <i>509 485-4002</i>	Phone:	Phone:
Email: <i>info@edenvalleyranch.net</i>	Email:	Email:

2. Contact Person

Contact Person: <i>Robin Betcher Stice</i>	Phone: <i>509-485-4002</i>
	Email: <i>info@edenvalleyranch.net</i>

3. Are you converting the land to non-forestry use within 3 years of harvest?

No Yes If yes, include your SEPA checklist and SEPA determination (if applicable) and county clearing and grading permit (if applicable).

4. If you are harvesting timber, enter the Forest Tax Number of the Timber Owner:

_____ Eligible for EARR Tax Credit No Yes

Contact the Department of Revenue at 1-800-548-8829 for tax reporting information or to obtain a number.

5. Are you a small forest landowner per RCW 76.09.450? See instructions

No Yes If yes, Check all that apply. If no, skip to Question 6.

My entire proposed harvest area is on a single contiguous ownership consisting of one or more parcels.

- My proposed forest practices activities is within an area covered by an approved Forest Stewardship Plan or Forest Management Plan developed in cooperation with DNR.
- I received technical assistance from a DNR small forest landowner Stewardship and Technical Assistance Forester in preparing this FPA/N.
- I have participated in a Washington State University Extension Service and/or DNR-sponsored Forest Stewardship Coached Planning course.
- I have attended a Washington State University Extension Service and/or DNR-sponsored Family Forest Owner Field Day.

6. Are you substituting prescriptions from an approved state or federal conservation agreement or Watershed Analysis?

- No Yes Write 'HCP' or 'Using Prescriptions' in tables that apply. Attach or reference prescriptions and/or crosswalks for approved state or federal conservation agreements or Watershed Analysis on file at the Region office.

7. What is the legal description of your forest practices?

Section	Township	Range	E/W	Tax Parcel Number	County
25,36	40	27	E		Okanogan
12	39	28	E		Okanogan
12,16	38	28	E		Okanogan

8. Have you reviewed this forest practices activity area to determine whether it may involve historic sites and/or Native American cultural resources? Read the instructions before answering this question.

- No Yes If contacts were made, please provide additional information in Question 28.

9. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?

- a. No Yes Enter the RMAP number:2302708&2307234____If yes, continue to b. If no, skip to c.
- b. No Yes Is this Forest Practices Application/Notification for work that is included in this approved RMAP?
- c. No Yes Is a Checklist RMAP required (see instructions)?

10. Are there potentially unstable slopes or landforms in or around the area of your forest practices activity?

- No Yes If yes, attach Appendix D. Slope Stability Informational Form and map of areas reviewed for and locations of unstable slopes and landforms found. If applicable, attach a geotechnical letter, memo, or report, Watershed Analysis prescriptions, and/or a SEPA Environmental Checklist.

11. Is this Forest Practices Application/Notification (answer every question):

- a. No Yes A request for a multi-year permit? If yes, length requested: 4 years or 5 years. Not everyone qualifies for a multi-year permit. See instructions for details.
- b. No Yes An Alternate Plan? If yes, include a template or detailed plan. See instructions for details.

- c. No Yes For a funded Forest Family Fish Passage Program project?
- d. No Yes Within an urban growth area?
If yes, see instructions for additional required documents.
- e. No Yes Within a public park? If yes, include SEPA Environmental Checklist or SEPA Determination, except for harvest/salvage of less than 5,000 board feet within a developed public park. Park name: _____
- f. No Yes Within 500 feet of a public park? Park name: _____
- g. No Yes In an approved Conversion Option Harvest Plan (COHP) from the local government? If yes, include a copy. This only applies to proposals within urban growth areas.
- h. No Yes Within 200 feet of the Ordinary High Water Mark (OHWM) or floodway of Type S Water? If yes, check with the county or city to determine whether a substantial development permit is required under the local shorelines master plan.
- i. No Yes Within 50 miles of saltwater AND do you own more than 500 acres of forest land in Washington State? If yes, include Marbled Murrelet Form or attach/reference HCP prescriptions.
- j. No Yes In or directly adjacent to a potential Channel Migration Zone (CMZ)? If yes, include CMZ Assessment Form. Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

You are required to verify all waters within 130 feet of your proposed forest practices activities prior to submitting a Forest Practices Application / Notification. Use the Water Type Classification Worksheet and/or a Water Type Modification form to explain how you verified water types. See Water Typing Requirements in the instructions.

***** **If not working in or over typed Waters, skip to Question 16** *****

Prior to answering Questions 12-15 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 5.

12. Are you proposing any of the following projects NOT permitted by current HPAs from WDFW?

- a. No Yes Installing, replacing, or repairing a culvert at or below the bankfull width of Type S or F Water(s) that exceeds a five percent gradient?
- b. No Yes Constructing, replacing, or repairing a bridge at or below the bankfull width of unconfined streams in Type S or F Water(s)?
- c. No Yes Placing fill material within the 100-year flood level of unconfined streams in Type S or F Water(s)?

13. Have you consulted with DNR and/or WDFW about the proposed hydraulic project(s) in or over Type S or F Water? No Yes

14. If installing, replacing, removing, or maintaining structures in or over any typed Water, complete the table below. Provide crossing locations and identifiers on your Activity Map. Provide plan details in Question 28 or attach plan to the FPA/N. Type S and F Waters require detailed plan information. Complex hydraulic projects in Type N Waters may also be required per WAC 222-24-042(2). See instructions for detailed plan requirements.

Crossing Identifier (letter, number)	Water Type (S, F, Np, Ns)	*Existing HPA Number (if applicable)	HPA Expiration Date (if applicable)	Planned Activity (install, replace, remove, temporary, structure maintenance)	Structure (bridge, ford/equipment crossing** punchion/fill, arch, pipe arch, round culvert, other)	Proposed Size (width x length) (inches x feet)	Culvert Design Method (no-slope, stream-sim, hydraulic, other) (F and S only)	Channel Bed Width (ft) (F and S only)	Stream Gradient (%) (F and S only)	Is this an RMAP Project?

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

** Fords and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain threatened or endangered fish species. For more information, see 'Background for the state's Incidental Take Permits for certain threatened and endangered fish species' following Question 22 of the FPA/N Instructions.

15. If conducting any of the following activities in or over typed Water(s), complete the table below. Some activities will require identifiers on the Activity Map and/or more information in Question 28. See instructions.

*Activity	Type S Water	Type F Water	Type Np Water	Type Ns Water
Equipment Crossing**	PROVIDE DETAILS IN QUESTION 14			
Suspending Cables				
Cable Yarding				
LWD Placement/Removal				
Beaver Dam Removal				
Felling and Bucking				
Other (describe in Question 28)				

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

** Fords and/or equipment crossings on Type S and F Waters must be identified in Question 14.

16. If constructing or abandoning forest roads, complete the table below. Show the road locations and identifiers on the Activity Map. Include abandonment plans for all temporary roads and abandonment projects.

Road Identifier (name, number)	Road Construction		Road Abandonment	
	Length (feet)	Steepest Side-slope (%)	Length (feet)	Abandonment Date (MM/YYYY)
E382812A	1,906	40%		
E382816L	757	10%		
E392812E	1,236	45%		
E402736B	436	45%		
E402736B	140	10%		

17. If depositing spoils and/or expanding or developing a rock pit for forestry use, complete the table below. Show locations and identifiers on the Activity Map.

Spoil Area Identifier (letter, number)	Amount of Spoils Deposited (cubic yards)	Rock Pit Identifier (name, number or letter)	Acres of New Rock Pit Developed	Acres of Existing Rock Pit Expanded

18. If operating within 200 feet of a wetland not associated Type F Water, complete the table below. Wetlands associated with Type S or F water should be listed in Question 25. Show the boundaries of each wetland, along with its identifier, and Wetland Management Zones on the Activity Map. See instructions for information.

Wetland Identifier (letter, number)	Wetland Type (A, B, Forested)	Planned Activities in Wetland	Planned Activities in Maximum Width WMZ	Total Wetland Acres	How many Acres will be drained?	How many Acres will be filled?
Z	B	none	Felling, yarding, rd. const.	5.5	0	0
Y	B	none	NA	0.26	0	0
X	B	none	none	0.5	0	0
U	forested	felling, yarding	NA	1.25	0	0
T	forested	none	NA	.08	0	0

***** **If not harvesting or salvaging timber, skip to Question 27** *****

19. If harvesting or salvaging timber, complete the table below. Show all harvest areas and unit numbers on your Activity Map. For even-aged harvest units, also show surrounding stand information on the Activity Map.

Unit Number	Harvest Type (Even-aged, Uneven-aged, Salvage, Right-of-Way)	Biomass Harvest (Y or N)	Harvest Method (rubber tired skidder, tracked skidder, dozer, shovel, full suspension cable, leading end suspension cable, helicopter, cable assist/tethered logging, animal, chipper, forwarder, slash bundler)	Acres to be Harvested	Volume to be Harvested (mbf)	Volume to be Harvested (biomass tonnage)	Volume to be Harvested (salvage only) (%)	Estimated Number of Trees per acre Remaining after Harvest		Steepest Slope in Harvest Unit (%)
								Less than 10" dbh	Greater than or equal to 10" dbh	
1	Uneven-aged	N	rubber tired and tracked skidder	142	568				21	55%
2	Even-aged	N	rubber tired and tracked skidder	80	560				6	50%
3	Uneven-aged	N	rubber tired and tracked skidder	72	210				21	55%
4	Uneven-aged	N	rubber tired and tracked skidder	3	9				21	40%
5	Uneven-aged	N	rubber tired and tracked skidder	16	80				21	60%
6	Even-aged	N	rubber tired and tracked skidder	13	52				6	55%
7	Even-aged	N	rubber tired and tracked skidder	10	40				6	55%
ROW	Right-of-Way	N	rubber tired and tracked skidder	3	5				0	45%

20. Reforestation. Check all that apply:

- Planting. Tree Species: PP WL_____
- Natural. Include a Natural Regeneration Plan
- Not required because of one or more of the following:
 - I am converting some or all of this land to non-forest land in the next 3 years or lands are exempted under WAC 222-34-050.
 - Individual dead, dying, down, or wind-thrown trees will be salvaged.
 - Trees are removed under a thinning program reasonably expected to maximize the long-term productivity of commercial timber.
 - I am leaving at least 100 vigorous, undamaged, and well-distributed saplings or merchantable trees per acre.
 - An average of 150 tree seedlings per acre are established on the harvest area and my harvest will not damage them.
 - Road right-of-way or rock pit development harvest only.

**** Do you own MORE than 80 acres of forest land in Washington? If yes, skip to Question 25 ****

21. Are you using the exempt 20-acre parcel riparian management zone (RMZ) rule (WAC 222-30-023) on type S, F, or Np Waters?

- No Skip to Question 25.
- Yes Continue to Question 22. See instructions for qualifications and information.

22. Choose the answer below that best fits your situation. Show all RMZs on the Activity Map.

- a. ALL of the following apply to me and my land: (If no, answer b.)
 - Between June 5, 2006 and today's date I have always owned less than 80 acres of forest land in Washington.
 - Between June 5, 2006 and today's date this parcel has always been 20 acres or less of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
 - Between June 5, 2006 and today's date this parcel has always been owned by me or someone else that has owned less than 80 acres of forest land in Washington.
- b. ONE OR MORE of the following apply to me and/or my land (check all that apply):**
If any of the statements below apply AND you use the exempt 20-acre parcel RMZ rule, you are NOT authorized under the State's Incidental Take Permits (see explanation in FPA instructions under Question 22).
 - Between June 5, 2006 and today's date I have owned more than 80 acres of forest land in Washington.
 - Between June 5, 2006 and today's date this parcel has been a part of more than 20 acres of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
 - Between June 5, 2006 and today's date this parcel has been owned by someone that has owned more than 80 forested acres in Washington.

23. If harvesting within 345 feet of a Type S or F Water on an exempt 20-acre parcel, complete the table below. Show RMZs and stream segment identifiers on the Activity Map. If you are harvesting within 75 feet or within the maximum RMZ (whichever is less), stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met or use the 'Appendix F. Stream Shade Assessment Worksheet' if necessary.

Stream Segment Identifier (letter)	Segment Length (feet)	Adjacent Harvest Type (partial cut or other)	RMZ Maximum Width (feet)	Are you harvesting within the maximum RMZ? (Y or N)

24. Are you harvesting within 29 feet of a Type Np Water on an exempt 20-acre parcel?

No Skip to Question 27.

Yes See instructions and describe leave tree strategy in Question 28. Then skip to Question 27.

25. If harvesting within 130 feet of any Type S or F Water or periodically inundated areas of their associated wetlands, complete the table below. Include stand information for all inner zone harvests unless you have an HCP prescription. Show RMZs, CMZs, and stream segment identifiers on the Activity Map. If you are harvesting within 75 feet or within the maximum RMZ, whichever is less, stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met or use the 'Stream Shade Assessment Worksheet' if necessary.

Stream Segment Identifier (letter)	Water Type (S, F)	Site Class (I-V)	Stream Width (feet)	Is there a CMZ? (Y or N)	RMZ Harvest Code(s) (see instructions)	DFC Run Number	Total width of RMZ (feet)

26. If harvesting within 50 feet of Type Np Water, complete the table(s) below. Show RMZs and stream segment identifiers on the Activity Map.

Stream Segment Identifier (letter)	Selected Strategy (partial cut or clearcut)

Stream Segment Identifier (letter)	Selected Strategy (partial cut or clearcut)

27. How are the following currently marked on the ground? (Flagging color, paint color, road, fence, etc.)

Harvest/Salvage Boundaries: All units are identified with, white "timber sale boundary" tags, orange flashers and pink ribbon.

Clumped Wildlife Reserve Trees/Green Recruitment Trees: leave trees are banded with blue paint

Right-of-Way Limits/Road Centerlines: Centerlines marked with orange ribbon, ROW limits marked w/ "ROW Boundary" tags

Stream Crossing Work: none

Riparian Management Zone Boundaries and Leave/Take Trees: N/A

Channel Migration Zone: N/A

Wetland Management Zone Boundaries and Leave/Take Trees: WMZ boundaries are marked with white "Timber Sale Boundary" tags, orange flasher and pink ribbon. No trees cut in average width WMZ's Equipment Limitation Zones are marked with pink ELZ ribbon

28. Additional Information (attach additional pages if necessary): For hydraulic projects in or over Type S, F, or complex N Water(s) see instructions for required plan information. If applicable, document the mitigation measures you will be implementing from a geotechnical memo, letter, or report.

-External landings and skid trails will be utilized. These are identified on the FPA maps.

-In addition to what is described in question 16; there may be up to 599 feet of new road construction outside of WMZs, RMZs, or RILs to accommodate landings.

-WTM # NE-49-12-0841 and NE-49-19-0025 are associated with this proposal and have been approved by Forest Practices.

-NE-ICN-19-16821 addresses the typing of "Fertilizer Lake" as a Type B wetland.

29. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
 - The Forest Practices Act and Rules AND
 - All other federal, state or local regulations.
- Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws.
- If we said that we would not convert the land to non-forestry use, the county or city may deny development permits on this parcel for the next 6 years.
- The following may result in an unauthorized incidental take of certain endangered or threatened fish species:
 - Conversion of land to non-forestry use.
 - Harvesting within the maximum RMZ on a 20-acre exempt parcel that was acquired after June 5, 2006.
 - Equipment Crossings/Fords in or over Type S and F Waters.
- Inadvertent Discovery – Chapters 27.44, 27.53, 68.50 and 68.60 RCW
 - If you find or suspect you have found an archaeological object or Native American cairn, grave, or glyptic record, immediately cease disturbance activity, protect the area and promptly contact the Department of Archaeology and Historic Preservation at 360 586-3077.
 - If you find or suspect you have found human skeletal remains, immediately cease disturbance activity, protect the area, and contact the County Coroner or Medical Examiner and local law enforcement as soon as possible. Failure to report human remains is a misdemeanor.

The landowner understands that by signing and submitting this FPA, he/she is authorizing the Department of Natural Resources to enter the property in order to review the proposal, inspect harvest operations, and monitor compliance for up to three years after its expiration date. RCW 76.09.150

Signature of legal LANDOWNER	Signature of legal TIMBER OWNER* <i>(If different than landowner)</i>	Signature of legal OPERATOR <i>(If different than landowner)</i>
 Print Name: Robert Hechinger Date: 11/20/19	Print Name: Date:	Print Name: Date:

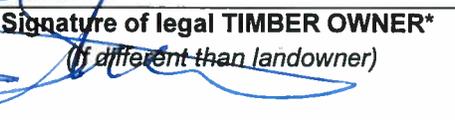
** NOTE: If you are a "Perpetual Timber Rights Owner," and are submitting this without the Landowner's Signature, provide written evidence the landowner has been notified.*

Please make a copy of this FPA/N for your records. If this FPA/N contains a hydraulic project requiring WDFW concurrence review, it will not be available online for public review until after the WDFW concurrence review period.

29. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
 - The Forest Practices Act and Rules AND
 - All other federal, state or local regulations.
- Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws.
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The landowner understands that by signing and submitting this FPA, he/she is authorizing the Department of Natural Resources to enter the property in order to review the proposal, inspect harvest operations, and monitor compliance for up to three years after its expiration date. RCW 76.09.150

Signature of legal LANDOWNER	Signature of legal TIMBER OWNER* (If different than landowner)	Signature of legal OPERATOR (If different than landowner)
		
Print Name: ROBIN DETCHER STICE	Print Name:	Print Name:
Date: Nov 13, 2019	Date:	Date:

* NOTE: If you are a "Perpetual Timber Rights Owner," and are submitting this without the Landowner's Signature, provide written evidence the landowner has been notified.

Please make a copy of this FPA/N for your records. If this FPA/N contains a hydraulic project requiring WDFW concurrence review, it will not be available online for public review until after the WDFW concurrence review period.

29. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
 - The Forest Practices Act and Rules AND
 - All other federal, state or local regulations.
- Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws.
- If we said that we would not convert the land to non-forestry use, the county or city may deny development permits on this parcel for the next 6 years.
- The following may result in an unauthorized incidental take of certain endangered or threatened fish species:
 - Conversion of land to non-forestry use.
 - Harvesting within the maximum RMZ on a 20-acre exempt parcel that was acquired after June 5, 2006.
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 - If you find or suspect you have found human skeletal remains, immediately cease disturbance activity, protect the area, and contact the County Coroner or Medical Examiner and local law enforcement as soon as possible. Failure to report human remains is a misdemeanor.

The landowner understands that by signing and submitting this FPA, he/she is authorizing the Department of Natural Resources to enter the property in order to review the proposal, inspect harvest operations, and monitor compliance for up to three years after its expiration date. RCW 76.09.150

Signature of legal LANDOWNER	Signature of legal TIMBER OWNER*	Signature of legal OPERATOR
 Print Name: Date: <i>11-8-19</i>	(If different than landowner) Print Name: Date:	(If different than landowner) Print Name: Date:

* NOTE: If you are a "Perpetual Timber Rights Owner," and are submitting this without the Landowner's Signature, provide written evidence the landowner has been notified.

Please make a copy of this FPA/N for your records. If this FPA/N contains a hydraulic project requiring WDFW concurrence review, it will not be available online for public review until after the WDFW concurrence review period.

Appendix D. Slope Stability Informational Form

Complete and attach this form to your FPA/N if you answered 'Yes' to FPA Question 10. Refer to WAC 222-16-050(1) (d) and Forest Practices Board Manual Section 16—*Guidelines for Evaluating Potentially Unstable Slopes* for definitions and descriptions of potentially unstable slopes or landforms. Instructions for Appendix D. is located in the Forest Practices Application/Notification Instruction document.

1. a. What preliminary screening tools were used to identify unstable slopes or landform features in and/or around your proposal?

- Aerial Photo, LiDAR, Landslide Inventory, Landslide Hazard Zones, GIS,
 Other, describe:

b. Did any of the features identified during the preliminary screening (1.a.) not exist when you performed a field review? If yes, describe:

No

2. a. Are you conducting forest practices activities **in or over** potentially unstable slopes or landforms? Check all that apply:

- Inner Gorge Groundwater recharge areas for glacial deep-seated landslides
 Bedrock Hollow Convergent Headwall Toe of deep-seated landslide
 Outer edges of meander bends
 Other (Deep-seated landslides or other features of potentially unstable slopes). Describe:

No

b. What activities may occur **in or over** potentially unstable slopes or landforms? Check all that apply:

- Timber harvest Road construction Suspending cables Yarding Tailholds

3. a. Are you conducting forest practices activities **around** potentially unstable slopes or landforms? Check all that apply:

- Inner Gorge Groundwater recharge areas for glacial deep-seated landslides
 Bedrock Hollow Convergent Headwall Toe of deep-seated landslide
 Outer edges of meander bends
 Other (Deep-seated landslides or other features of potentially unstable slopes). Describe:

b. What activities may occur **around** potentially unstable slopes or landforms? Check all that apply:

- Timber harvest Road construction Suspending cables Yarding Tailholds

4. a. Were any features identified in question 3.a. excluded from your forest practices activity?

No, skip to question 5. Yes, continue to question 4.b.

b. Describe the field indicators you used to exclude potentially unstable slopes or landforms from your forest practices activity (i.e.: flagging was placed a crown width away from the break in slope of the inner gorge.):

Potentially unstable slopes were bound out of the activity area using white timber sale boundary tags placed a crown width or more away from the break in slope.

5. Are there areas of public use (which may include, but are not limited to: public roads, utilities, designated recreation areas, occupied structures, etc.) located in or around the area of your proposed forest practices activity?

No Yes, Show these locations on the map in question 7.

There is a private residence (shown on map) on adjacent private land upslope of Unit 3 however, there are no areas of public use downslope of Unit 3

6. Date(s) of field review(s): May 21, 2019

Person(s) that conducted field review(s):	<u>Matt Smith</u>	<u>Unit Forester</u>
	Name	Title/position
	<u>Greg Morrow</u>	<u>SL Geologist-in-Training</u>
	Name	Title/position

7. Attach a map that shows the following:

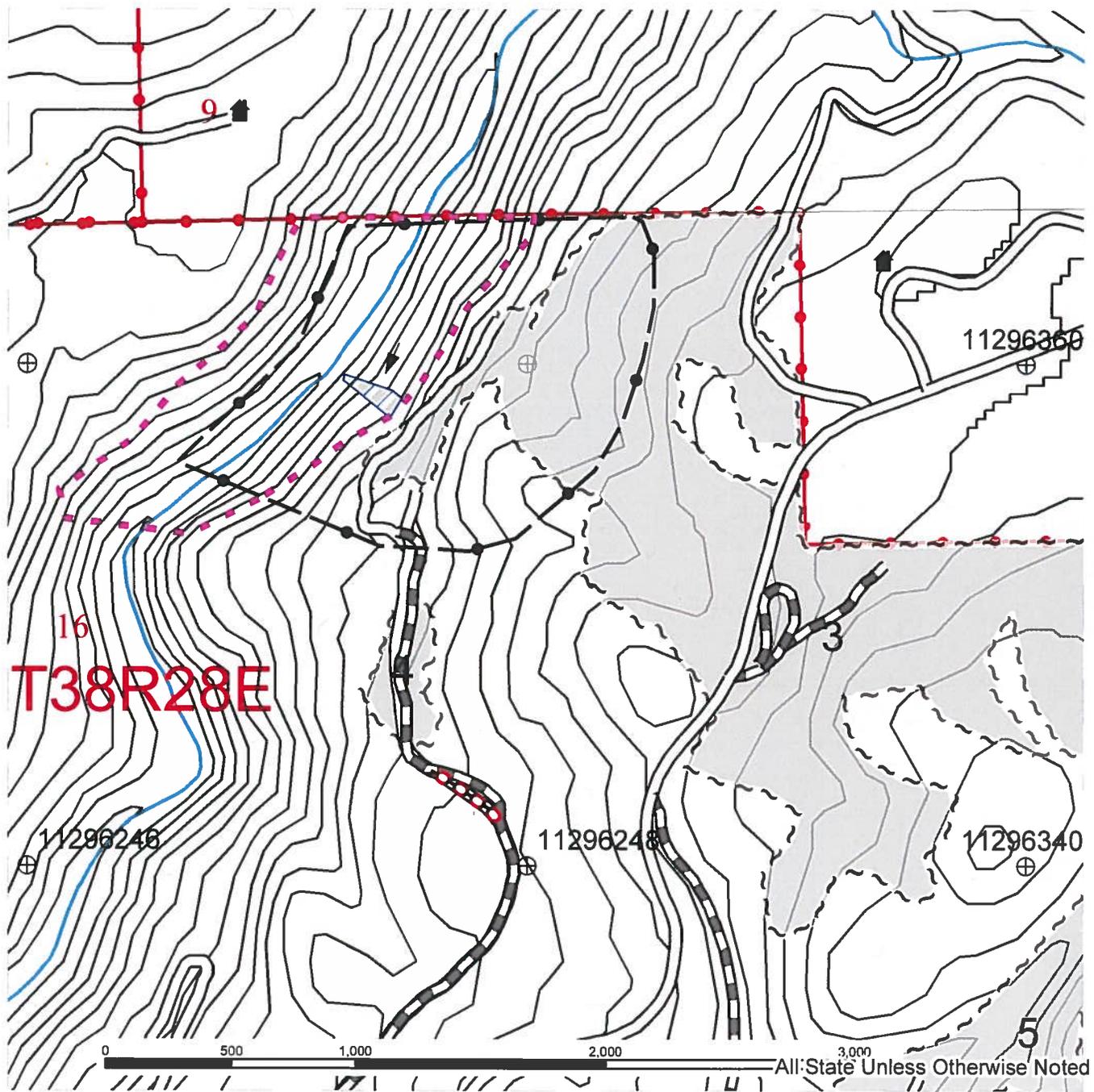
- All areas reviewed.
- Locations of unstable slopes and landforms that were identified as described in question 2.a. and 3.a. above.
- Locations where areas of public use exist as described in question 5 above.

This map is intended to be developed by the field practitioner. This can be a forest practices activity map, harvest map, or GIS map – See attached example.

Slope Stability Map

SALE NAME: Black Diamond Sorts
APPLICATION #:

COUNTY(S): Okanogan
TOWNSHIP(S): T38 R28



Legend

	Field Verified Area		Pre-haul Maintenance
	Inner Gorge		Existing Road
	Unit Boundary		Private Residence
	New Construction		

N

Appendix H. Natural Regeneration Plan Eastern Washington

If you use this form, include a map showing the locations of your seed source.

Landowner Name: Department of Natural Resources
The landowner is responsible for meeting Forest Practices reforestation requirements per WAC 222-34-020.

Legal Description: T40, R27, Sect25, 36; T38 R28 Sect16

Harvest is scheduled to occur (month/year): 6/20

Check one of the following:

The landowner proposes an alternate plan (WAC 222-34-020(6)) for natural reforestation as attached.

OR

The landowner agrees to follow the requirements in WAC 222-34-020(5)

■ There is a seed source available that is capable of producing well-formed trees of a commercial tree species

■ The landowner will not harvest this seed source until 2030, or earlier if DNR issues a reforestation inspection report.

■ The seed source consists of one of the following: **Check all that apply:**

Seed blocks of _____ acres each will be retained as shown on the attached map and marked on the ground by (describe): _____

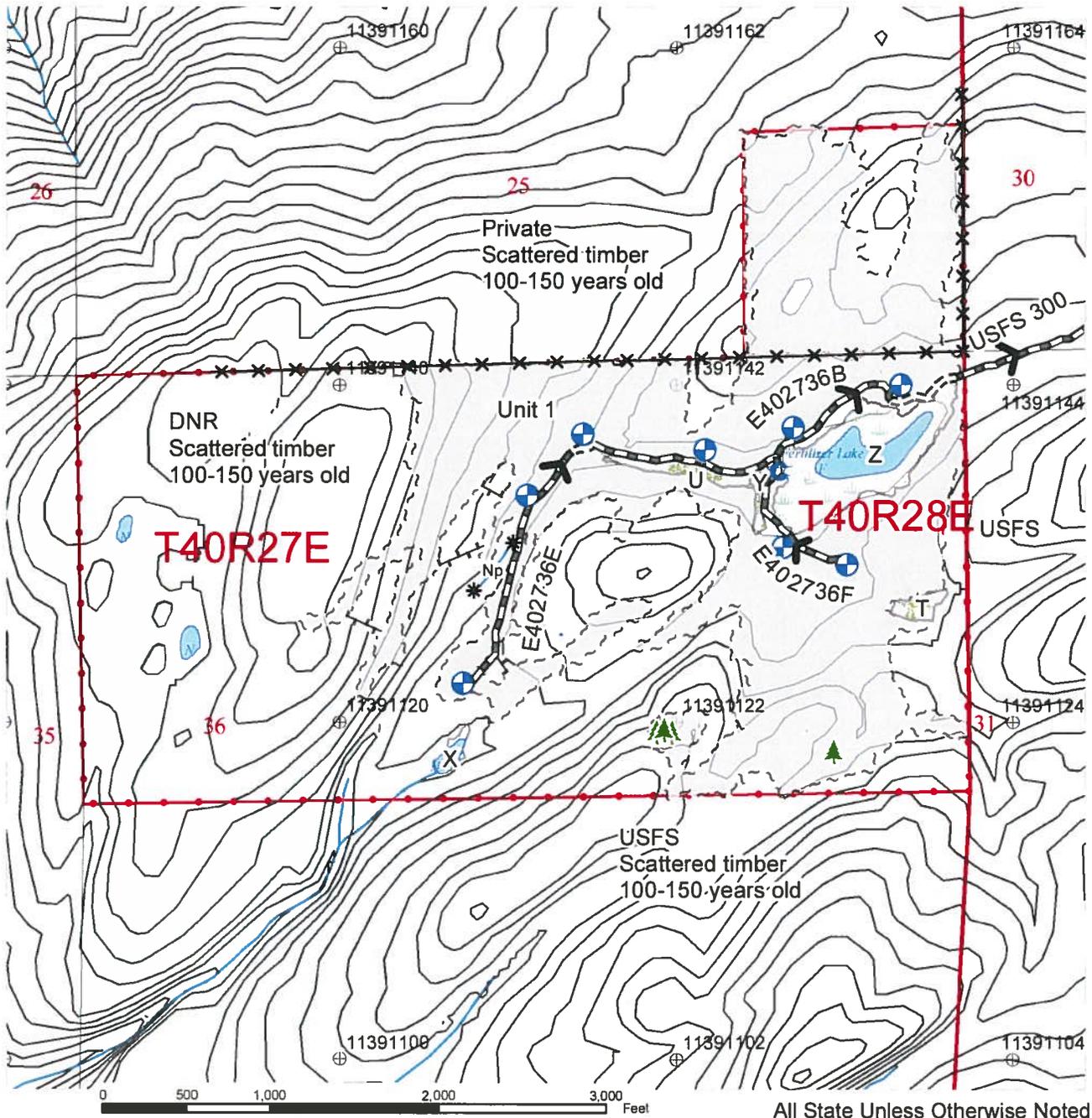
21 seed trees per acre will be left.
Seed trees will be ponderosa pine, 50, and 60
(species) (age) (height)

■ The regeneration will be protected from competing vegetation and allowed to establish, grow, and survive.

Forest Practice Activity Map

SALE NAME: Black Diamond Sorts
 APPLICATION #:

COUNTY(S): Okanogan
 TOWNSHIP(S): T40 R27



All State Unless Otherwise Noted

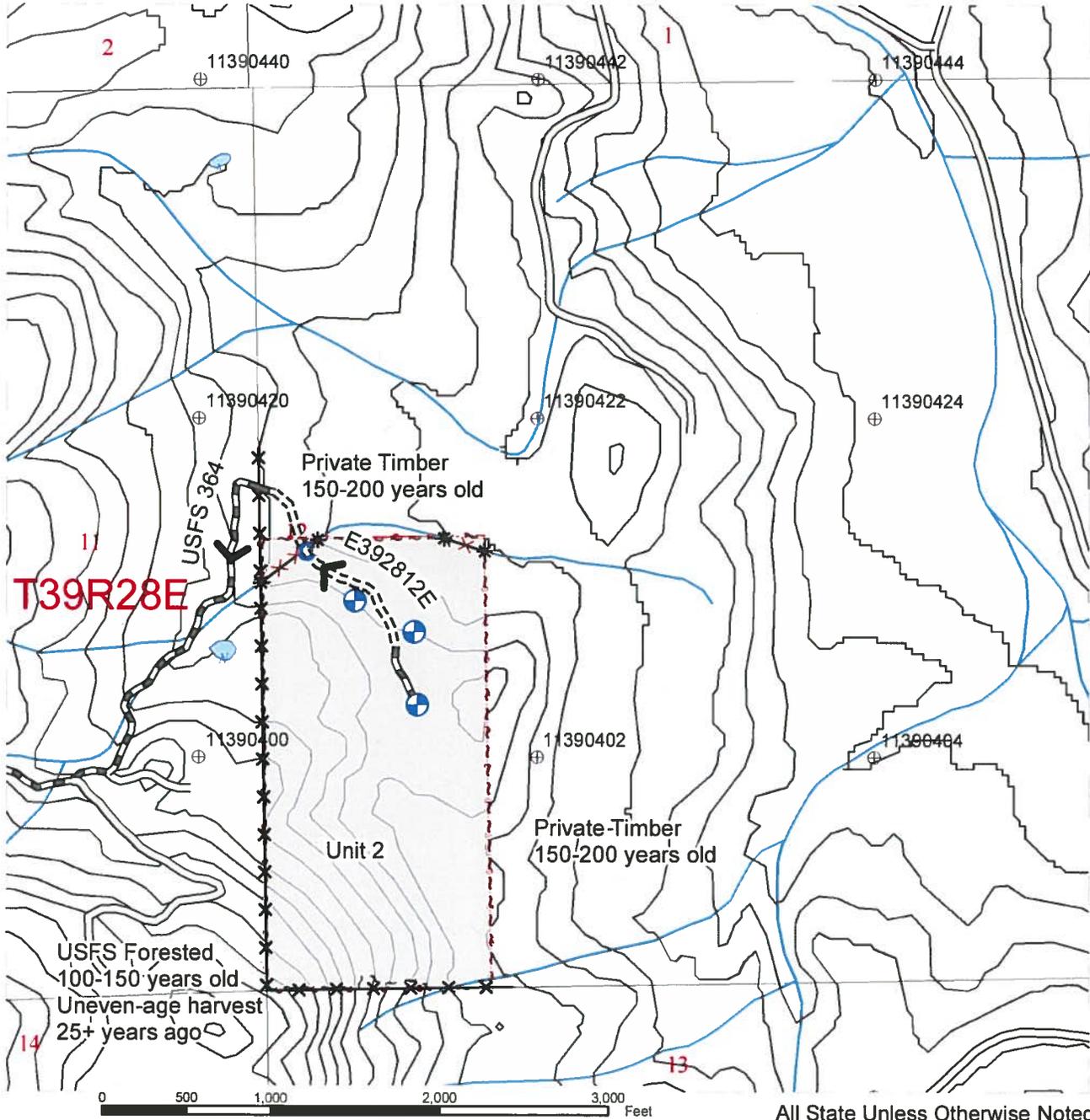
Legend	
Unit Boundary	Stream_break
Wetland	Borrow_site
Forested wetland	culvert
landing	Non_tradeable_LTA
Remove_stream	Existing
External_skid_trail	Contours 40-foot
BD_Fences	Construction
Watercourse	Stream type
F; N; S typed water	PreHaulMaint
	DNR-Managed Lands



Forest Practice Activity Map

SALE NAME: Black Diamond Sorts
 APPLICATION #:

COUNTY(S): Okanogan
 TOWNSHIP(S): T39 R28



All State Unless Otherwise Noted

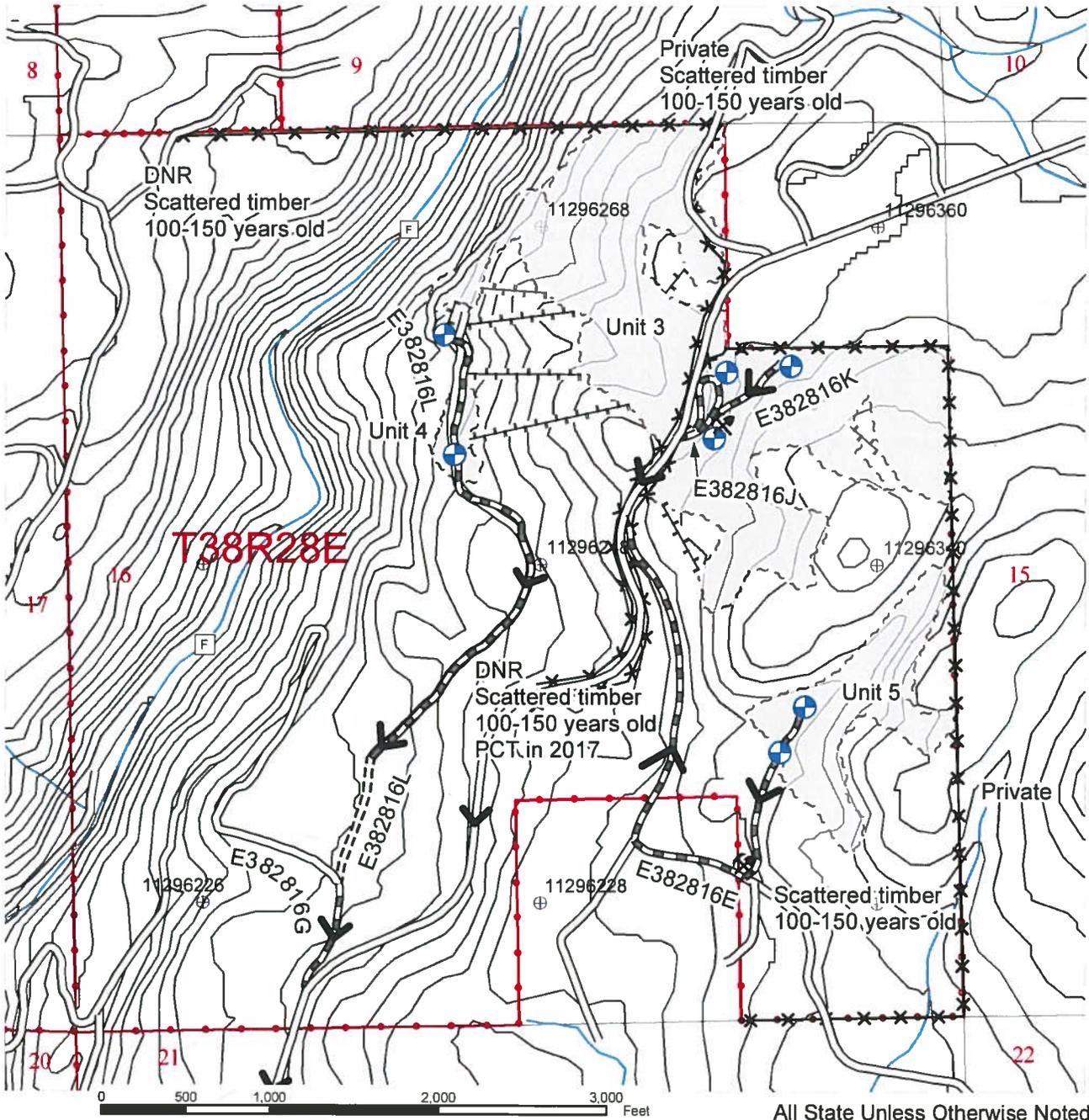
Legend		
Unit Boundary	Stream_break	X, non-typed water
Wetland	Borrow_site	Non_tradeable_LTA
Forested wetland	culvert	Existing
	landing	Contours 40-foot
	Remove_stream	Construction
	External_skid_trail	PreHaulMaint
	BD_Fences	Stream type
	Watercourse	DNR-Managed Lands
	F; N; S typed water	



Forest Practice Activity Map

SALE NAME: Black Diamond Sorts
 APPLICATION #:

COUNTY(S): Okanogan
 TOWNSHIP(S): T38 R28



All State Unless Otherwise Noted

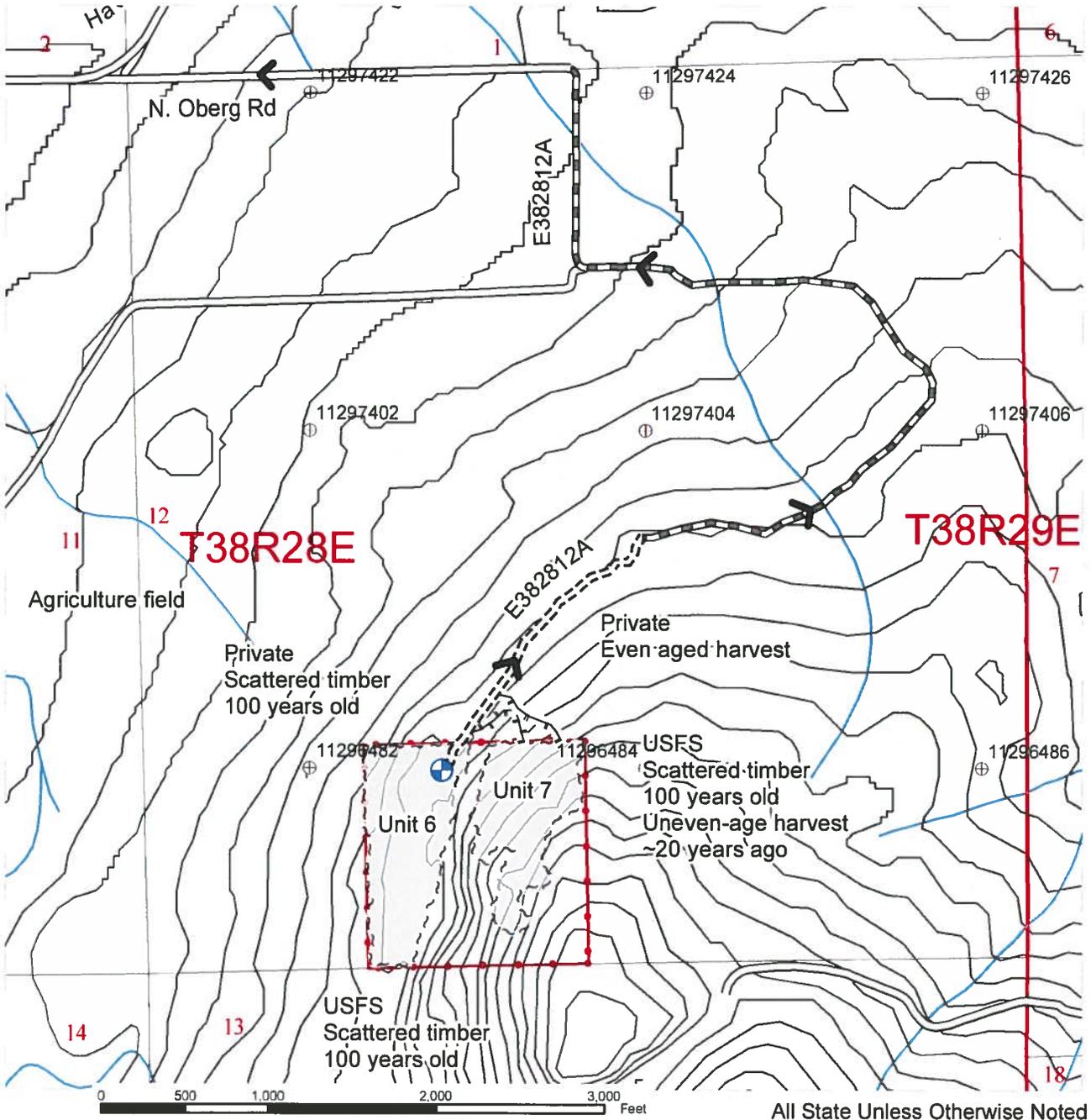
Legend		
Unit Boundary	Stream_break	X, non-typed water
Wetland	Borrow_site	Non_tradeable_LTA
Forested wetland	culvert	Existing
	landing	Construction
	Remove_stream	PreHaulMaint
	External_skid_trail	Stream type
	XBD_Fences	DNR-Managed Lands
	Watercourse	
	F; N; S typed water	



Forest Practice Activity Map

SALE NAME: Black Diamond Sorts
 APPLICATION #:

COUNTY(S): Okanogan
 TOWNSHIP(S): T38 R28



All State Unless Otherwise Noted

Legend

Unit Boundary	Stream_break	X, non-typed water	Road_Type
Wetland	Borrow_site	Non_tradeable_LTA	Existing
Forested wetland	culvert	Contours 40-foot	Construction
landing	Remove_stream	Stream type	PreHaulMaint
External_skid_trail	XBD_Fences	DNR-Managed Lands	
Watercourse			
F; N; S typed water			

DRIVING MAP

SALE NAME: Q BLACK DIAMOND SORTS
 AGREEMENT#: 30-100080
 TOWNSHIP(S): T38R28E, T39R28E, T40R27E
 TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region
 COUNTY(S): Okanogan
 ELEVATION RGE: 2440-4120



Map may not be to scale

- Timber Sale Unit
- Haul Route
- Milepost Markers
- Distance Indicator

DRIVING DIRECTIONS:

From Hwy 97 in Oroville, WA turn east on Central Avenue and travel 0.3 miles. Turn left on Cherry Street which turns in to Chesaw road after 0.2 miles. Continue on Chesaw road for 0.4 miles and turn right to stay on Chesaw road. Travel 7.3 miles on Chesaw road and take a right turn on US Forest Service road 3525. Travel on USFS 3525 for 0.5 miles and stay right. Take a right turn on the USFS 300 road and travel 4.8 miles to unit 1.

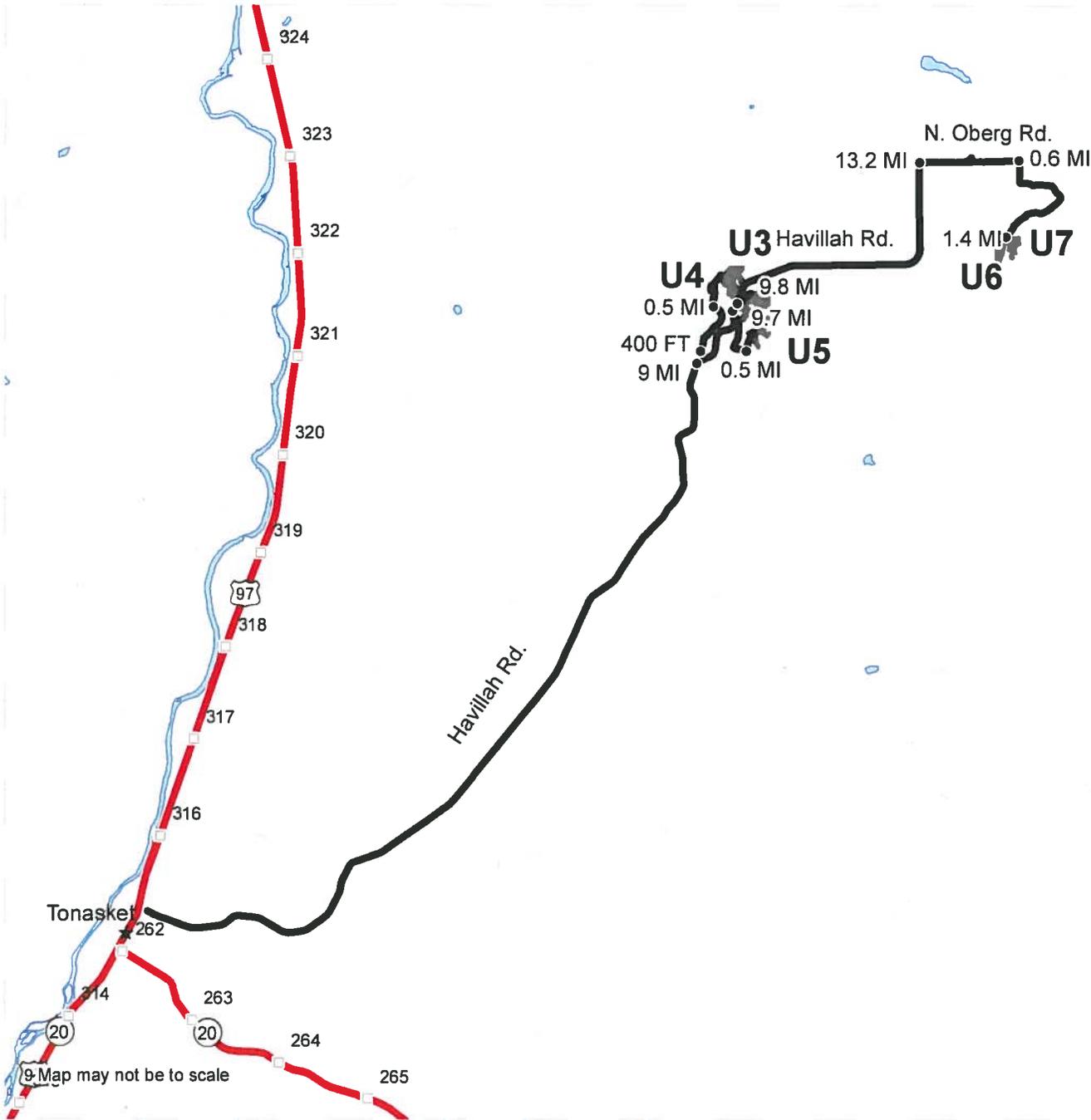
Unit 2: Follow the same directions as those from Oroville to Unit 1 except once on the USFS 3525 road only travel 1.1 miles before turning left on the USFS 350 road. Travel 2 miles on the USFS 350 road and take a left on the USFS 360 road. Travel 1.1 miles and stay left on the USFS 364 road. Travel 1 mile on the USFS 364 road, staying left until a gate marks the start of the E392812E road on private land. Unit 2 is approximately 400 feet south of the gate.



DRIVING MAP

SALE NAME: Q BLACK DIAMOND SORTS
AGREEMENT#: 30-100080
TOWNSHIP(S): T38R28E, T39R28E, T40R27E
TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region
COUNTY(S): Okanogan
ELEVATION RGE: 2440-4120



- Timber Sale Unit
- Haul Route
- Milepost Markers
- Distance Indicator

DRIVING DIRECTIONS:

Unit 3: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 9.8 miles to a right turn onto the E382816J road in Unit3.

Unit 4: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 9 miles to a left turn onto the E382816G road. Turn right after about 400 feet and travel 0.5 miles on the E382816L road to Unit 4.

Unit 5: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 9.7 miles to a hard right turn onto the E382816E road. Travel for 0.5 miles to a left turn onto the E382816F road where Unit 5 will be 800 feet further.

Unit 6 and 7: From Hwy 97 in Tonasket, WA turn east on Havillah road and travel 13.2 miles to a right turn onto North Oberg road. Travel 0.6 miles and turn right onto the E382812A road. Travel 1.4 miles on the E382812A road to Units 6 and 7.





Forest Practices Application/Notification Notice of Decision

FPA/N No: 3023911
 Effective Date: 12/16/2019
 Expiration Date: 12/16/2022
 Shut Down Zone: 684
 EARR Tax Credit: Eligible [] Non-eligible
 Reference: DNR/"Q Black Diamond Sorts"
25,36-40-27 & 12-39-28 & 12,16-

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

Class II Class III Class IVG Class IVS

Number of Years Granted on Multi-Year Request

4 years 5 years

Conditions on Approval / Reasons for Disapproval

Conditions:

- 1) Any skid trails or roads that have the potential to adversely impact public resources or safety, will have adequate drainage constructed when skidding has been completed.
- 2) Road construction, as described in question 28 of the FPA, may ONLY be constructed if it fully meets the definition of a class II activity. Otherwise this work will require a new FPA. Compliance forester will GPS constructed segments and provide maps to FP forester.
- 3) Drainage/excess water from roads or skid trails will not be directed into the potentially unstable area(s).

Issued By: Craig Dibble Region: Northeast

Title: Forest Practices Forester Date: 12/16/2019

Copies to: Landowner, Timber Owner and Operator.

Issued in person: Landowner Timber Owner Operator By: _____

Appeal Information

You have thirty (30) days to appeal this Decision and any related State Environmental Policy Act determinations to the Pollution Control Hearings Board in writing at the following addresses:

Physical address: 1111 Israel Rd. SW, Ste 301, Tumwater, WA 98501

Mailing address: P.O. BOX 40903, OLYMPIA, WA 98504-0903

Information regarding the Pollution Control Hearings Board can be found at: <http://www.eluho.wa.gov/>

At the same time you file an appeal with the Pollution Control Hearings Board, also send a copy of the appeal to the Department of Natural Resources' region office and the Office of the Attorney General at the following addresses:

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

And

Department Of Natural Resources
Northeast Region
225 S Silke Rd
Colville, WA 99114

Other Applicable Laws

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

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

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

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

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

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

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

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

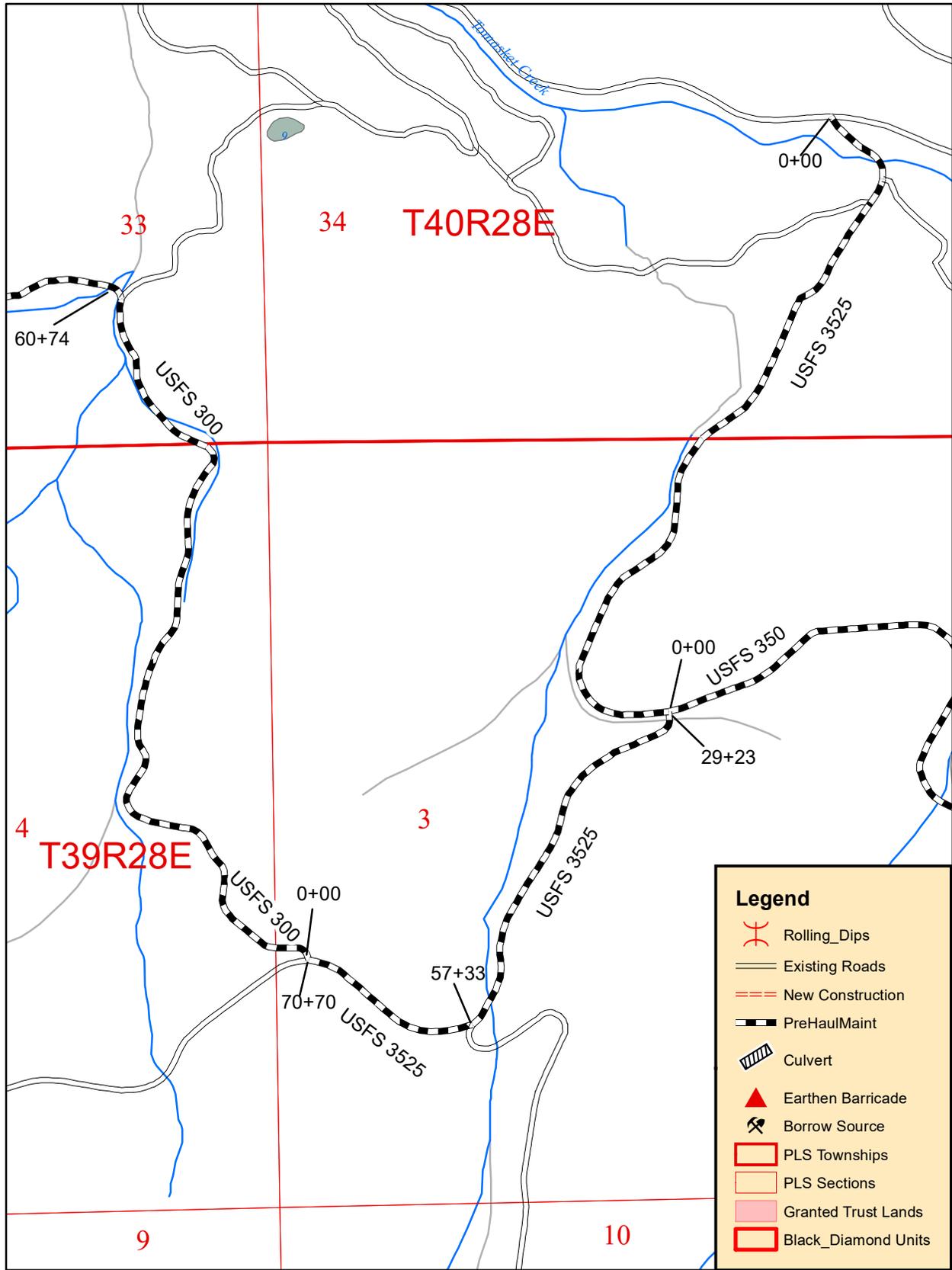
DNR affidavit of mailing:

On this day <u>12-17-19</u> , I placed in the United States mail at <u>Colville</u> , WA,
(date) (post office location)
postage paid, a true and accurate copy of this document. Notice of Decision FPA # <u>3023911</u>
<u>Galadriel Hook</u> (Printed name) <u>Galadriel Hook</u> (Signature)

Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #1
Trust:03 Agreement No. 30-100080

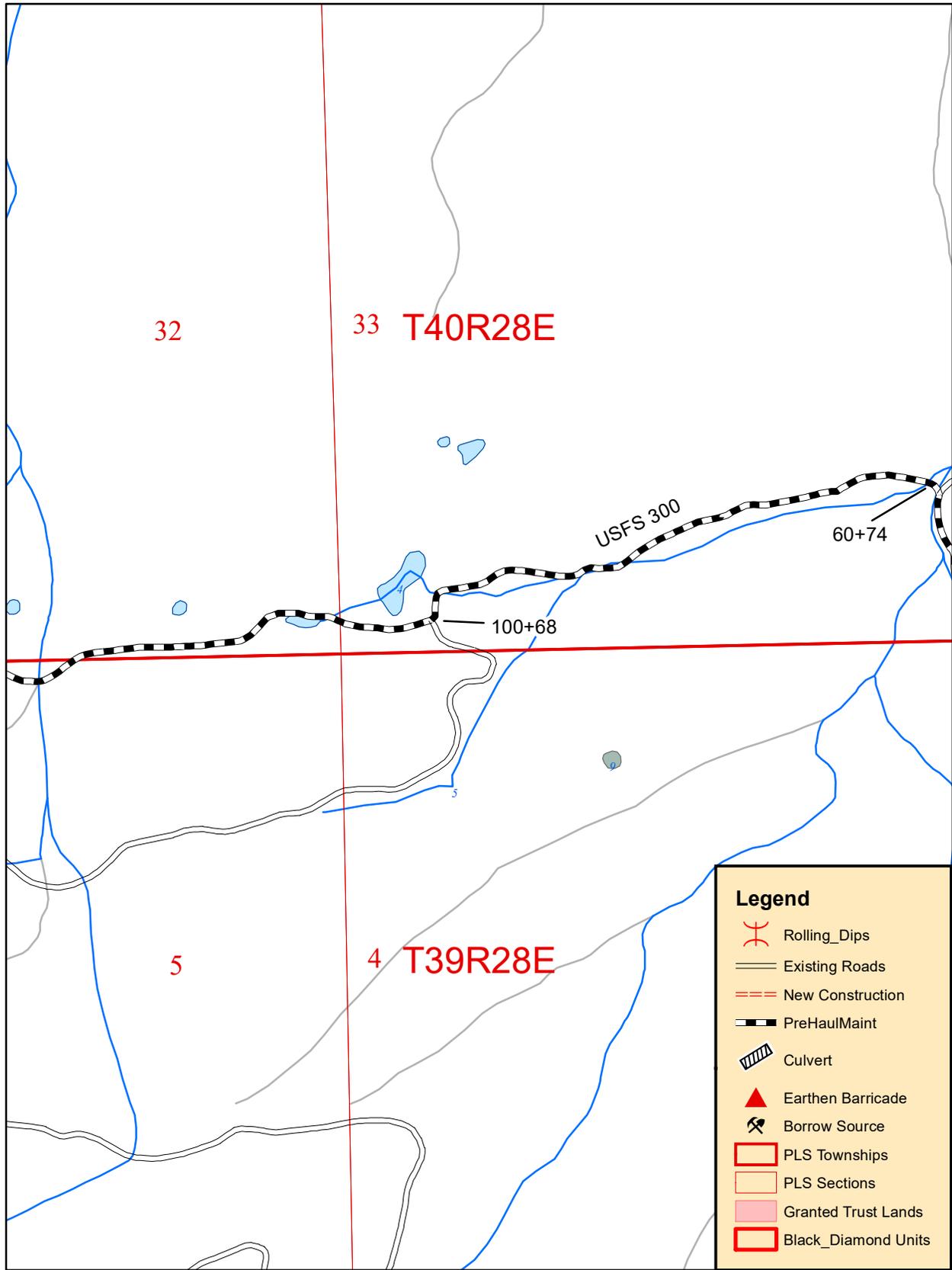
Region: Northeast
County: Okanogan



Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #2
Trust:03 Agreement No. 30-100080

Region: Northeast
County: Okanogan

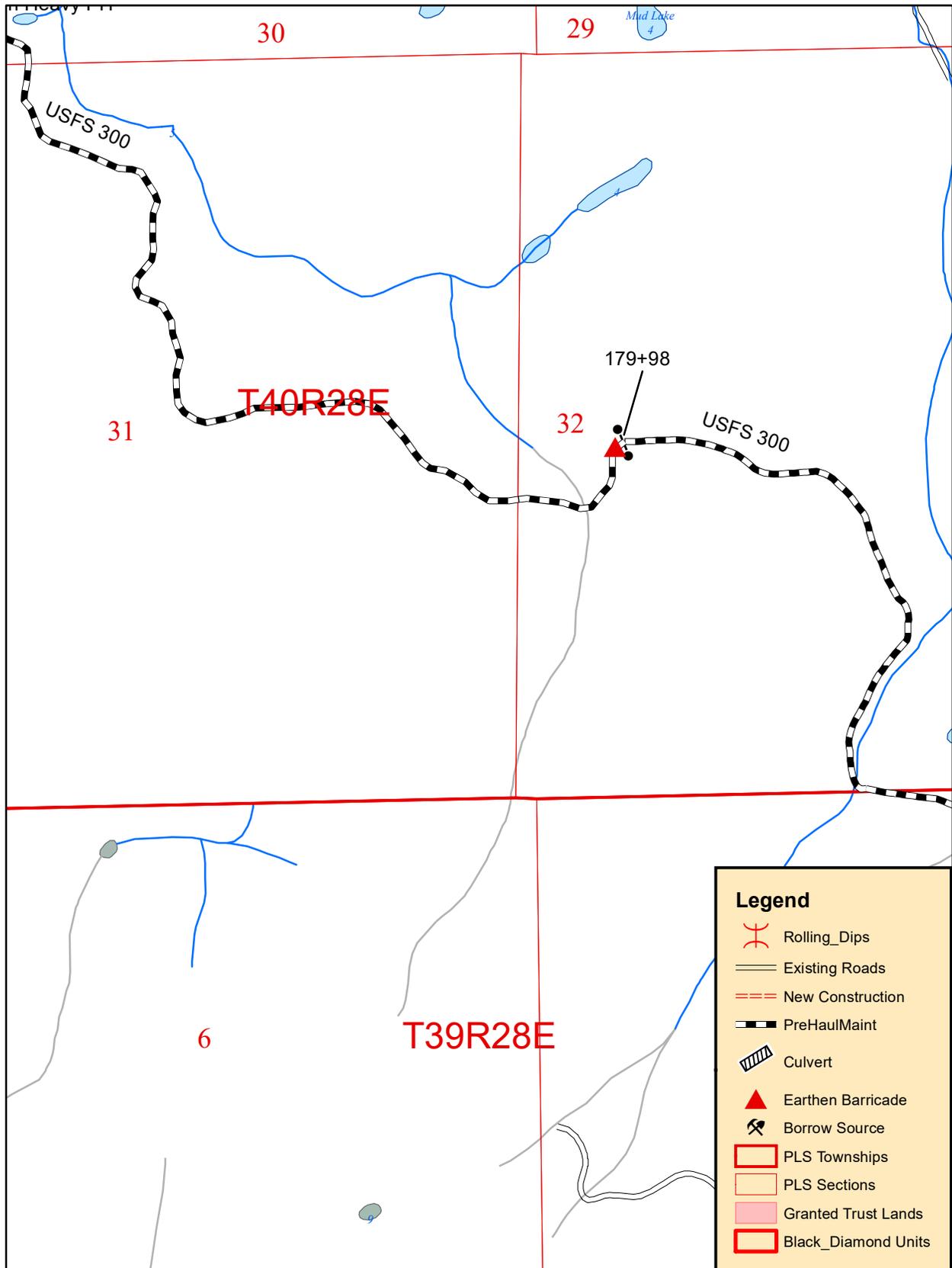


1,000 500 0 1,000
Feet

Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #3
Trust:03 Agreement No. 30-100080

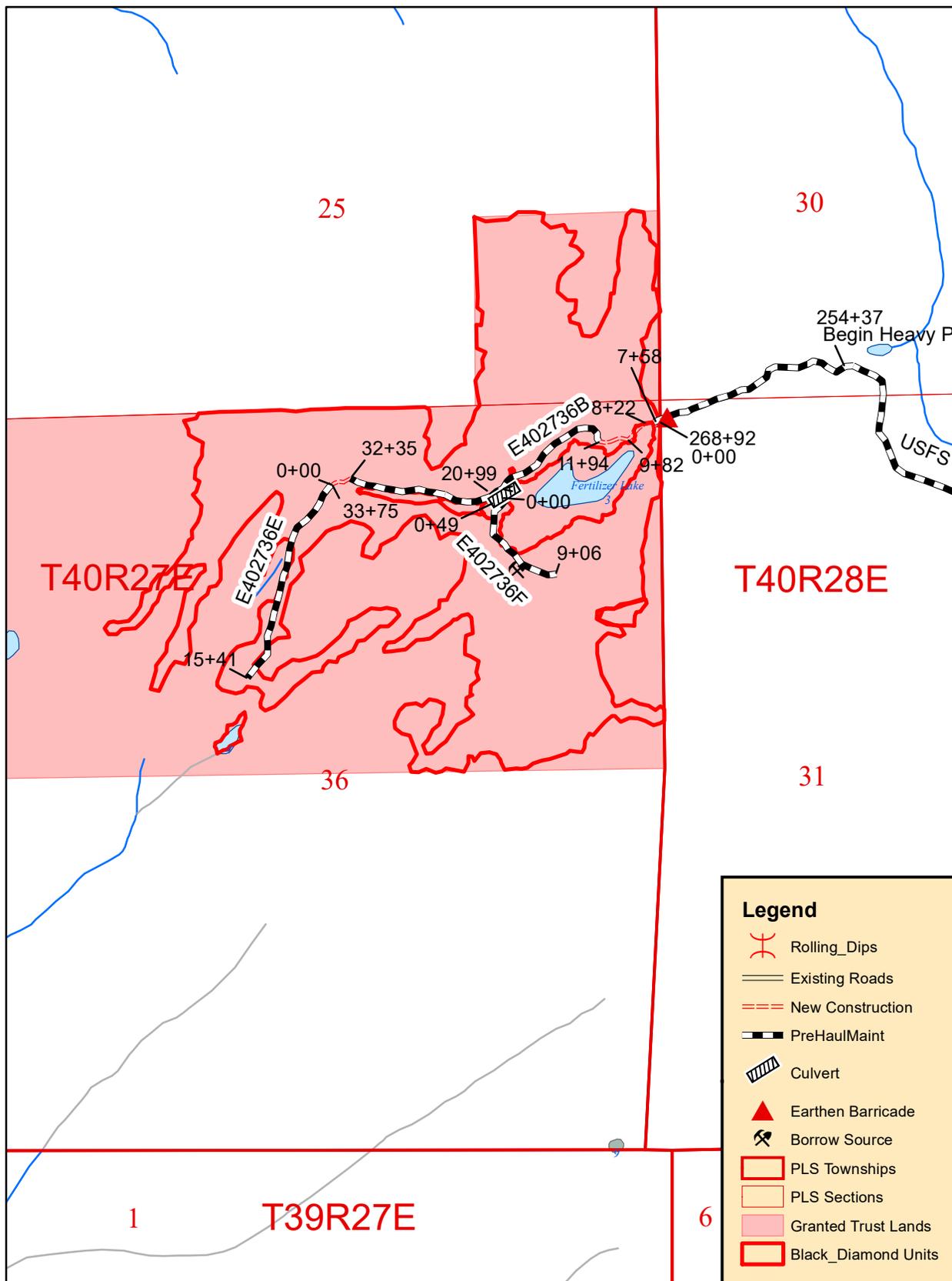
Region: Northeast
County: Okanogan



Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #4
Trust:03 Agreement No. 30-100080

Region: Northeast
County: Okanogan

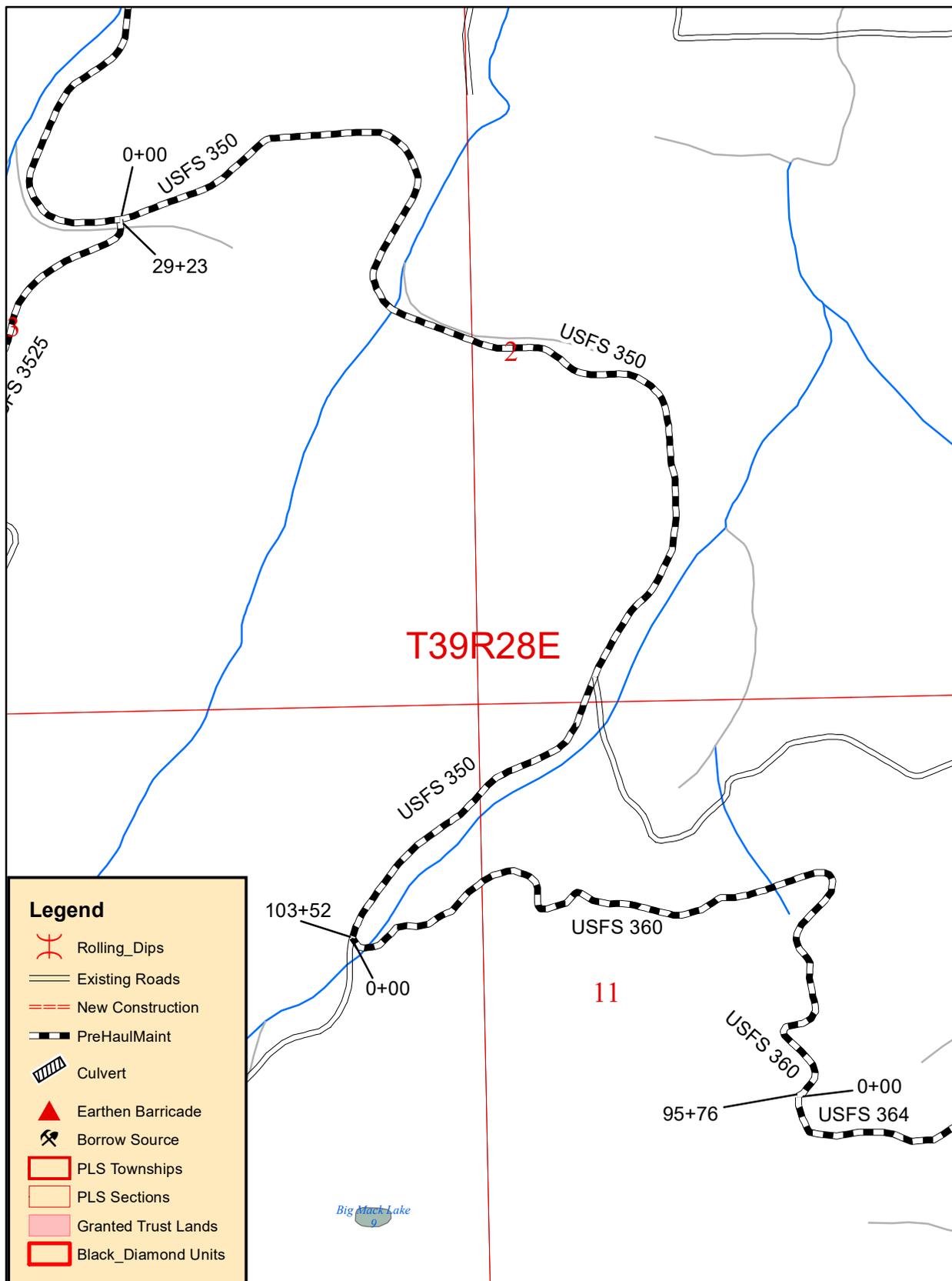


1,000 500 0 1,000
Feet

Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #5
Trust:03 Agreement No. 30-100080

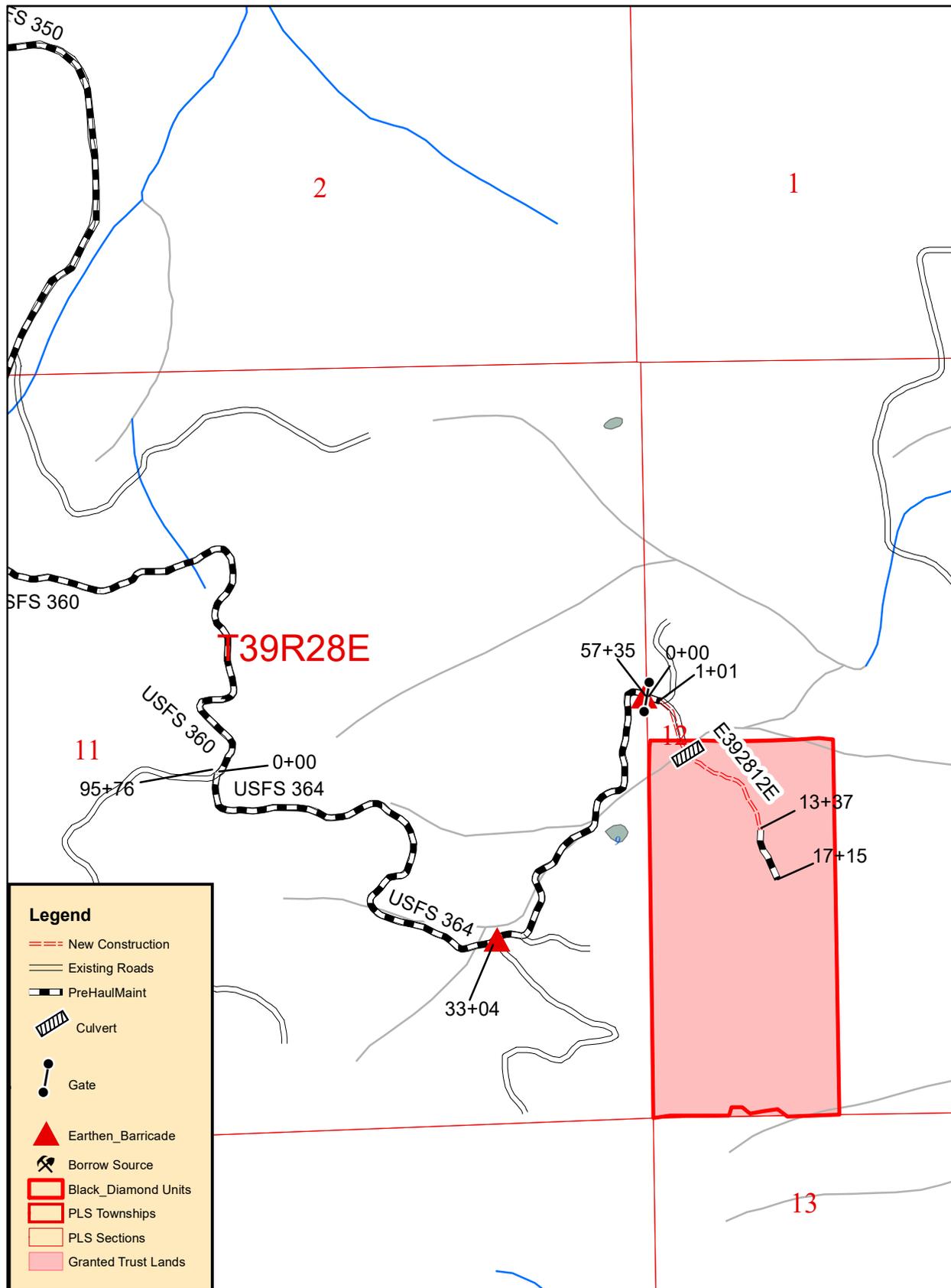
Region: Northeast
County: Okanogan



Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #6
Trust:03 Agreement No. 30-100080

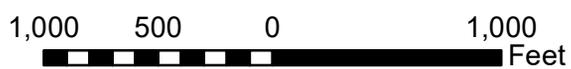
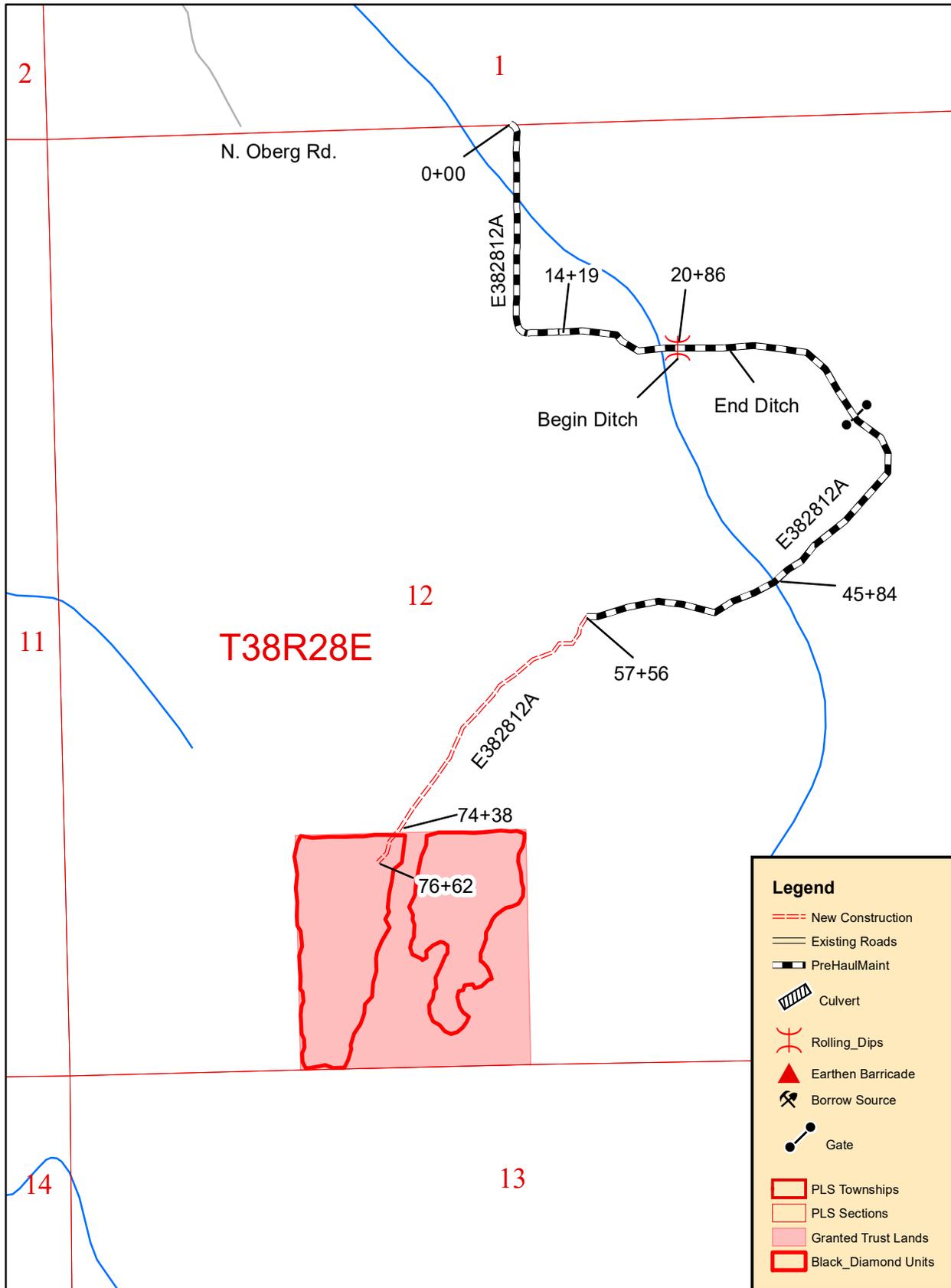
Region: Northeast
County: Okanogan



Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #7
Trust:03 Agreement No. 30-100080

Region: Northeast
County: Okanogan



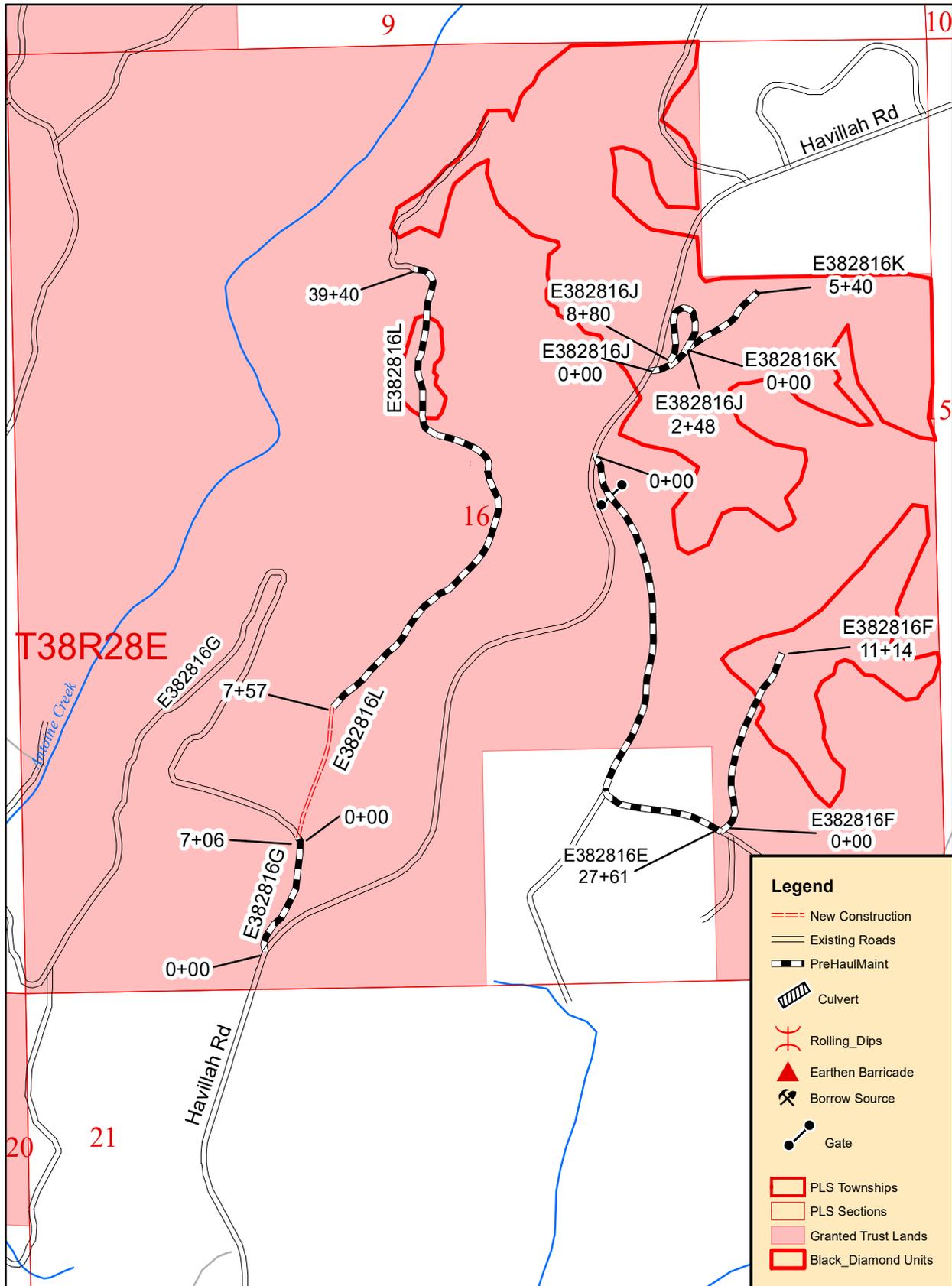
Legend

- New Construction
- Existing Roads
- PreHaulMaint
- Culvert
- () Rolling_Dips
- ▲ Earthen Barricade
- ⚡ Borrow Source
- Gate
- PLS Townships
- PLS Sections
- Granted Trust Lands
- Black_Diamond Units

Washington State Department of Natural Resources Q Black Diamond Timber Sale

Map #8
Trust:03 Agreement No. 30-100080

Region: Northeast
County: Okanogan



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Q BLACK DIAMOND TIMBER SALE ROAD PLAN
OKANOGAN COUNTY
HIGHLANDS UNIT
NORTHEAST REGION

AGREEMENT NO.: 30-100080

STAFF ENGINEER: ERIC ANDERSON

DATE: 09-18-2019

DRAWN & COMPILED BY: ERIC ANDERSON

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>
E382812A	57.56	Pre Haul Maintenance
E382812A	19.06	Construction
E382816E	27.61	Pre Haul Maintenance
E382816F	11.14	Pre Haul Maintenance
E382816G	7.06	Pre Haul Maintenance
E382816J	8.80	Pre Haul Maintenance
E382816K	5.40	Pre Haul Maintenance
E382816L	7.57	Construction
E382816L	31.83	Pre Haul Maintenance
E392812E	4.79	Pre Haul Maintenance
E392812E	12.36	Construction
E402736B	27.99	Pre Haul Maintenance
E402736B	5.76	Construction
E402736E	15.41	Pre Haul Maintenance
E402736F	9.06	Pre Haul Maintenance
USFS 3525	70.70	Pre Haul Maintenance
USFS 300	268.92	Pre Haul Maintenance
USFS 350	103.52	Pre Haul Maintenance
USFS 360	95.76	Pre Haul Maintenance
USFS 364	57.35	Pre Haul 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>
E382812A	57+56 to 76+62	Grub, excavate and grade new road as marked in field.
E382816L	0+00 to 7+57	Grub, excavate and grade new road as marked in field.
E392812E	1+01 to 13+37	Grub, excavate and grade new road as marked in field. Incorporate designated drainage structures into road.
E402736B	7+58 to 11+94	Grub, excavate and grade new road as marked in field. Rip or Drill and Shoot as needed.
E402736B	32+35 to 33+75	Grub, excavate and grade new road as marked in field. Incorporate designated drainage structures into road.

0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
E382812A	0+00 to 20+86	Blade, shape, improve and maintain drainage.
E382812A	20+86 to 22+36	Install armored rolling dip and ditch right side of road. End haul ditch material to a spot designated by CA.
E382812A	22+36 to 57+56	Blade, shape, improve and maintain drainage. Add 1 sta. of rock beginning at sta. 45+34. Refer to Rock List.
E382816E	0+00 to 27+61	Blade, shape, improve and maintain drainage.
E382816F	0+00 to 11+14	Blade, shape, improve and maintain drainage.

E382816G	0+00 to 7+06	Blade, shape, improve and maintain drainage.
E382816J	0+00 to 8+80	Blade, shape, improve and maintain drainage.
E382816K	0+00 to 5+40	Blade, shape, improve and maintain drainage.
E382816L	7+57 to 39+40	Blade, shape, improve and maintain drainage.
E392812E	0+00 to 1+01	Blade, shape, improve and maintain drainage.
E392812E	13+37 to 17+15	Blade, shape, improve and maintain drainage.
E402736B	0+00 to 7+58	Blade, shape, improve and maintain drainage.
E402736B	11+94 to 32+35	Blade, shape, improve and maintain drainage.
E402736E	0+00 to 15+41	Blade, shape, improve and maintain drainage.
E402736F	0+00 to 9+06	Blade, shape, install XDP, improve and maintain drainage.
USFS 3525	0+00 to 70+70	Blade, shape, improve and maintain drainage.
USFS 300	0+00 to 268+92	Blade, shape, improve and maintain drainage. At sta. 60+74 repair road over culvert with rip rap support on both sides of road, remove and reinstall two earthen barricades post-haul.
USFS 350	0+00 to 103+52	Blade, shape, improve and maintain drainage.
USFS 360	0+00 to 95+76	Blade, shape, improve and maintain drainage.
USFS 364	0+00 to 57+35	Blade, shape, improve and maintain drainage. Install two earthen barricades post-haul.

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 post-Haul Maintenance.

0-12 DEVELOP ROCK SOURCE

Purchaser may develop a new rock source on DNR Land. Rock source development will involve utilizing rock created from excavation and/or blasting bedrock within and adjacent to new road construction.

0-13 STRUCTURES

Purchaser shall install a log and gravel pad. Requirements for these structures are listed in Section 7 STRUCTURES.

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

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

1-2 UNFORESEEN CONDITIONS

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

1-3 ROAD DIMENSIONS

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

1-4 ROAD TOLERANCES

Purchaser shall perform roadwork 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

1-5 DESIGN DATA

Design data is available upon request at the Department of Natural Resources Northeast Region Office in Colville, WA.

1-6 ORDER OF PRECEDENCE

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

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

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

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

1-9 DAMAGED METALLIC COATING

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

1-10 WSDOT STANDARD SPECIFICATION REFERENCE

References in this road plan to "WSDOT Standard Specifications" mean the Washington State Department of Transportation's Standard Specifications for Road, Bridge, and Municipal Construction 2012 (M41-10).

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

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

- Orange Flagging.
- Construction Stakes.

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.

Reconstruction of existing road grades must conform to the original location except where construction staked or designed.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
<u>E392812E</u>	<u>1+01 to 13+37</u>	Construction

1-18 REFERENCE POINT DAMAGE

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

1-21 HAUL APPROVAL

Purchaser shall not use roads under this road plan for 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.

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

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

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25

ACTIVITY TIMING RESTRICTION, Purchase 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 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, which is established by the Contract Administrator upon request. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

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 all 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 final approval. Purchaser shall accomplish all grading using a motor grader.

2-6 CLEANING CULVERTS

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

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

Purchaser shall clean ditches, headwalls, and catchbasins within this road plan. Work must be completed before timber haul. Pulling ditch material across crushed rock surface roads or mixing in with the crushed surfacing is not allowed.

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. 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, except on USFS Roads where clearing of material larger than 4 inches DBH must have written approval from the contract administrator. 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.

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. 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 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 pile stumps no greater than 10 feet high.

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 and waste area 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 haul may commence.

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
- 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.

3-32 END HAULING ORGANIC DEBRIS

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

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

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

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

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

4-12 FULL BENCH CONSTRUCTION

Where side slopes exceed 45%, Purchaser shall use full bench construction for the entire subgrade width except as construction staked or designed.

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. Locations may be adjusted to fit the final subgrade alignment and sight distances. Locations changes are subject to written approval by the Contract Administrator. Minimum dimensions are shown on the TYPICAL SECTION SHEET.

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 ditches into the subgrade as specified on the TYPICAL SECTION SHEET.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as identified, 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. Locations may not be changed without written approval from the Contract Administrator.

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 55%, 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. Additional waste areas may also be identified or approved by the Contract Administrator. The amount of material allowed in a waste area is at the discretion of the Contract Administrator.

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.
- Within a wetland management zone.
- On side slopes steeper than 35%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.
- Outside the clearing limits

4-47 BORROW MATERIAL

Borrow material may not contain more than 5% clay, organic debris, or trash by volume. Borrow material must be free of rocks greater than 6 inches in any dimension.

4-48 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.

4-49 BORROW SOURCE

Purchaser shall obtain borrow material from borrow sources identified or approved by the Contract Administrator. Development of the borrow source must be in accordance with 0-12 DEVELOP ROCK AND BORROW SOURCES.

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.

4-56 DRY WEATHER SHAPING

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. 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 subgrades deeper than 5 feet at the road shoulder by routing equipment over the entire width. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction before final approval.

4-62 DRY WEATHER COMPACTION

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

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 10-24.

5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT AND DRAINAGE LIST that are not installed will become the property of the state. Purchaser shall stockpile materials at Highlands Camp.

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" Culverts over 18 inches diameter shall be banded using lengths of no less than 10 feet, and no more than one length less than 16 feet. Shorter section of banded culvert shall be installed at the inlet end.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

Purchaser shall obtain written approval from the Area Engineer listed in this plan for the installation of culverts 30 inches in diameter and over before backfilling.

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

All culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point. Stream crossing culverts must be installed with a depth of cover 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 cross drain culverts. Energy dissipater installation is subject to approval by the Contract Administrator.

5-21 DOWNSPOUTS AND FLUMES

Downspouts and flumes longer than 20 feet must be staked on both sides at a maximum interval of 10 feet with 6-foot heavy-duty steel posts, and fastened securely to the posts with No. 10 galvanized smooth wire 1/2-inch bolts in accordance with 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 2 feet wide and 4 feet long unless specified otherwise on within the Road Plan.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts on the CULVERT AND DRAINAGE LIST THAT specify the placement of rock. Rock used for headwalls must be 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. Rock must be set in place by machine. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed. Light Loose Rip Rap shall meet the specifications in Clause 6-50 LIGHT LOOSE RIP RAP.

5-30 DRIVABLE WATERBAR CONSTRUCTION

Purchaser shall construct drivable waterbars in accordance with the DRIVABLE WATERBAR DETAIL 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. Purchaser shall install drivable waterbars using a crawler tractor. Use of any other equipment is not allowed without written approval from the Contract Administrator.

5-31 ROLLING DIP CONSTRUCTION

Purchaser shall construct rolling dips in accordance with the ROLLING DIP DETAIL 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. Purchaser shall install rolling dips using a crawler tractor. Use of other equipment is not allowed without written approval of the Contract Administrator.

5-33 NATIVE SURFACE ROADS

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

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

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

6-5 ROCK FROM COMMERCIAL SOURCE

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

6-21 IN-PLACE PROCESSING

Purchaser shall use in-place processing, such as a grid roller, mobile linear crusher, or other method of in-place processing to produce 4-inch in-place rock. Rock must meet the surfacing size specified in Clause 6-38 40-INCH IN-PLACE ROCK, purchaser shall remove any existing organic debris before the start of in-place crushing operations. The use of in-place processing methods is subject to written approval by the Contract Administrator.

6-28 1 ¼-INCH MINUS CRUSHED ROCK

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

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

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

6-38 4-INCH IN-PLACE ROCK

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

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

6-50 LIGHT LOOSE RIP RAP

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

<u>Quantity</u>	<u>Approximate Size Range</u>
20% to 90%	500 lbs. to 1 ton (18" - 28")
15% to 80%	50 lbs. to 500 lbs. (8" - 18")
10% to 20%	3 inch to 50 lbs. (3" - 8")

6-51 HEAVY LOOSE RIP RAP

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

<u>Quantity</u>	<u>Size Range</u>
30% to 90%	1 ton to 2 ton (28" - 36")
30% to 70%	500 lbs. to 1 ton (18" - 28")
20% to 50%	50 lbs. to 500 lbs. (8" - 18")
10% to 20%	3 inch to 50 lbs. (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 before rock application.

6-71 ROCK APPLICATION

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

6-76 DRY WEATHER ROCK COMPACTION

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

6-80 WATERING FOR DUST ABATEMENT

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

SECTION 7 – STRUCTURES

7-6 STREAM CROSSING INSTALLATION

Purchaser shall install stream crossing structures in accordance with the manufacturer's requirements, Permits, Designs, Specifications and/or DETAILS.

CATTLE GUARDS

7-66 TEMPORARY CATTLE GUARDS

On the following road, Contract Administrator may direct the Contractor to install a temporary cattle guard supplied by the state in lieu of a 4-wire gate specified in clause **7-82**. The cattle guards are stored at Highlands Fire Camp. Temporary cattle guards shall be set flush with the ground so that vehicles may smoothly drive over them, as directed by the Contract Administrator. Installations shall be incorporated in and connected to existing fences with arms and/or wire. Contractor is liable for any damages to the temporary cattle guards and they must be returned to Highlands Fire Camp within 10 days after timber haul is completed. Gates shall be installed concurrent with the removal of the temporary cattle guards.

<u>Road</u>	<u>Stations</u>
E392812E	0+00

7-71 GATE CLOSURE DURING HAUL

On the following road(s), Contractor shall keep gates closed except for passing vehicles.

<u>Road</u>	<u>Station</u>	<u>Gate No.</u>	<u>Closure Period</u>	<u>Comment</u>
E382812A	33+10	1		Stretch Gate
E382816E	2+20	1		Tubular gate
E392812E	0+00	1		Stretch Gate

7-82 4-WIRE GATE INSTALLATION

On the following road(s), Contract Administrator may direct Contractor to provide and install 4-wire gates in accordance with the 4-WIRE GATE DETAIL. Gates must be installed to connect into the existing fencing.

<u>Road</u>	<u>Stations</u>
E392812E	0+00

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>Station</u>	<u>Requirement</u>
USFS 300	179+98	Remove earthen barricade pre-haul, reinstall post-haul
USFS 300	268+92	Remove earthen barricade pre-haul, reinstall post-haul
USFS 360	0+00	Remove earthen barricade pre- haul
USFS 364	0+00	Remove earthen barricade pre- haul
USFS 364	33+04	Install earthen barricade post-haul
USFS 364	57+35	Install earthen barricade post-haul

9-5 POST-HAUL MAINTENANCE

Contractor 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 at all landings.

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).

10-20 FLUME AND DOWNSPOUT

Downspouts and flumes must meet the AASHTO specification designated for the culvert.

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.

10-23 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 GAUGE AND CORRUGATION

Unless otherwise stated by the manufacturer, metal culverts must conform to the following specifications for gauge and corrugation as a function of diameter.

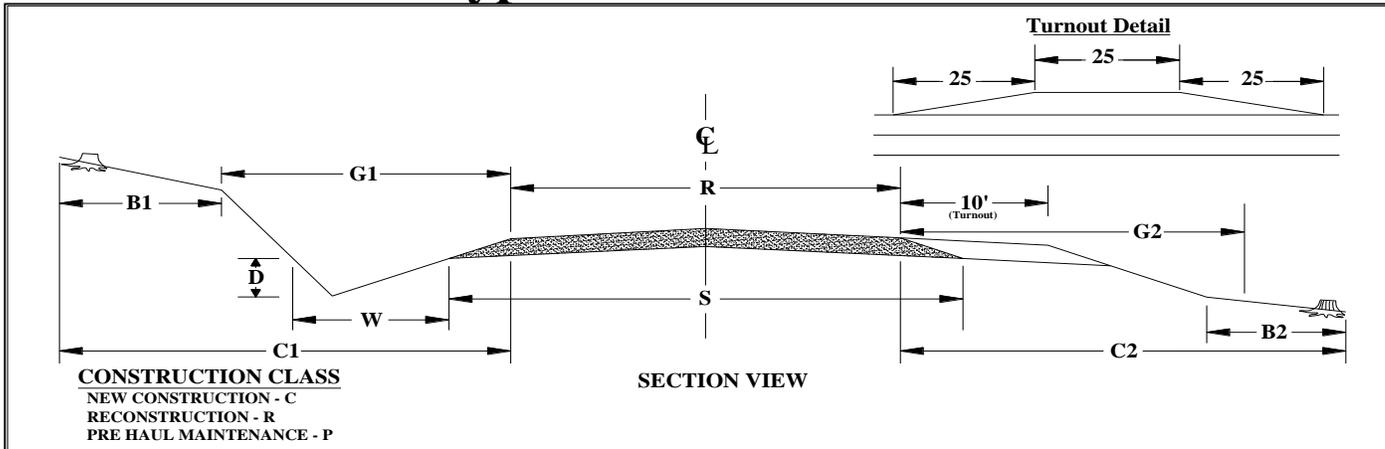
<u>Diameter</u>	<u>Gauge</u>	<u>Corrugation</u>
18"	16 (0.064")	2 ² / ₃ " X 1 ¹ / ₂ "
24" to 48"	14 (0.079")	2 ² / ₃ " X 1 ¹ / ₂ "
54" to 96"	12 (0.109")	3" X 1"

State of Washington
Department of Natural Resources

Application No. : 30-100080

Name of Sale: Q Black Diamond TS

Typical Section Sheet

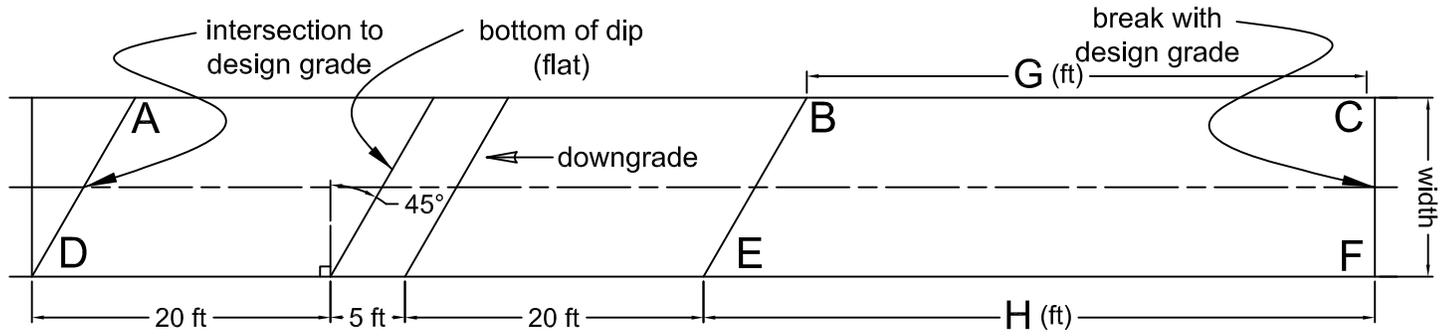


ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	INSLOPE "/10'	OUTSLOPE "/10'	CROWN " AT CL	DITCH WIDTH (W)	DITCH DEPTH (D)	DITCH RIGHT SIDE	Tolerance Class	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (B1)	ROAD FILL CLEARING (B2)	R/W CUT CLEARING (C1)	R/W FILL CLEARING (C2)
E382812A	0+00	20+86	P		14		4					C	5	5			6	6
E382812A	20+86	22+36	P		14		4		3	1	1+50							
E382812A	22+36	57+56	P		14		4					C						
E382812A	57+56	76+62	C		14		4					C	5	5			6	6
E382816E	0+00	27+61	P		14		4					C	5	5			6	6
E382816F	0+00	11+14	P		14		4					C	5	5			6	6
E382816G	0+00	7+06	P		14		4					C	5	5			6	6
E382816J	0+00	8+80	P		14		4					C	5	5			6	6
E382816K	0+00	5+40	P		14		4					C	5	5			6	6
E382816L	0+00	7+57	C		14		4					C	5	5			6	6
E382816L	7+57	39+40	P		14		4					C	5	5			6	6
E392812E	0+00	1+01	P		14		4					C	5	5			6	6
E392812E	1+01	13+37	C		14		4					C	5	5			6	6
E392812E	13+37	17+15	P		14		4					C	5	5			6	6
E402736B	0+00	7+58	P		14		4					C	5	5			6	6
E402736B	7+58	11+94	C		14		4					C	5	5			6	6
E402736B	11+94	32+35	P		14		4					C	5	5			6	6
E402736B	32+35	33+75	C		14		4					C	5	5			6	6
E402736E	0+00	15+41	P		14		4					C	5	5			6	6
E402736F	0+00	9+06	P		14		4					C	5	5			6	6
USFS 3525	0+00	70+70	P		14		4					C					4	4
USFS 300	0+00	268+92	P		14		4					C					4	4
USFS 350	0+00	103+52	P		14		4					C					4	4
USFS 360	0+00	95+76	P		14		4					C					4	4
USFS 364	0+00	57+35	P		14		4					C					4	4

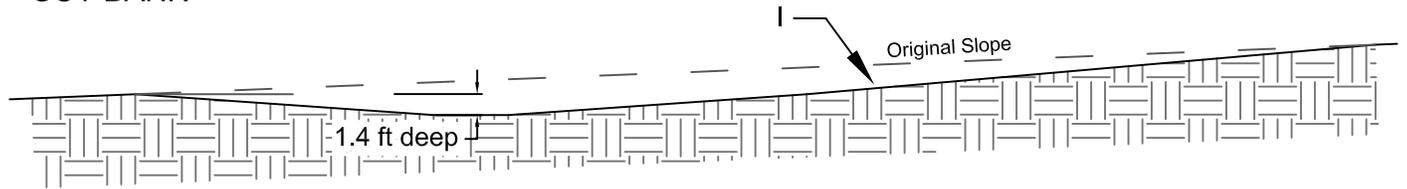
Date: 09-18-2019

STANDARD 45° ROLLING DIP

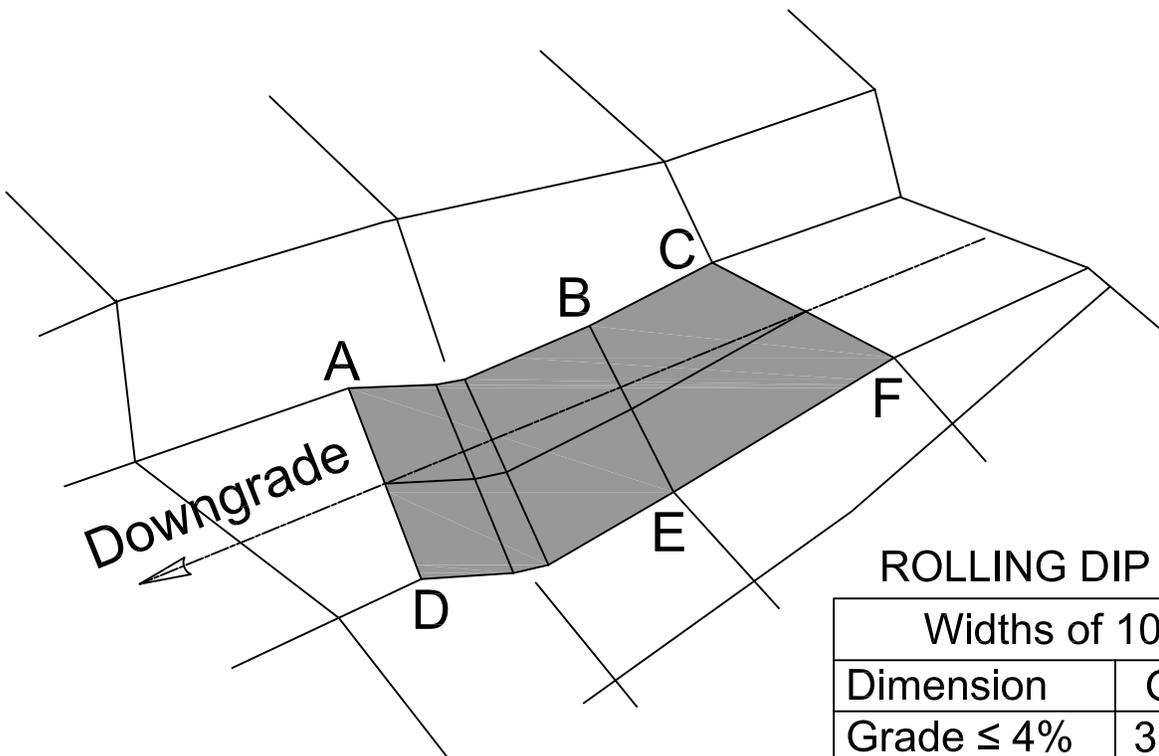
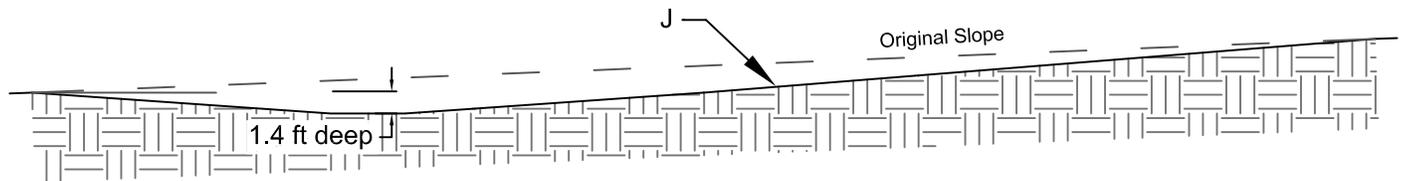
PLAN OF ROLLING DIP



CUT BANK



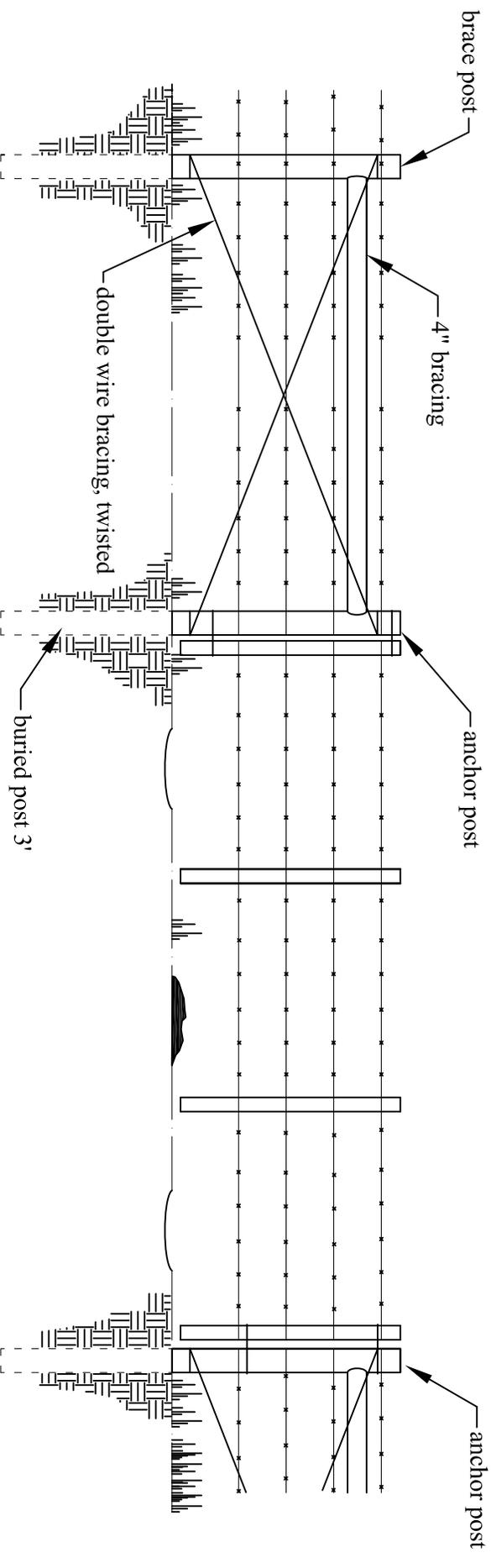
FILL SLOPE



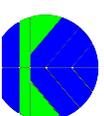
ROLLING DIP DEMENSIONS

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%

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.



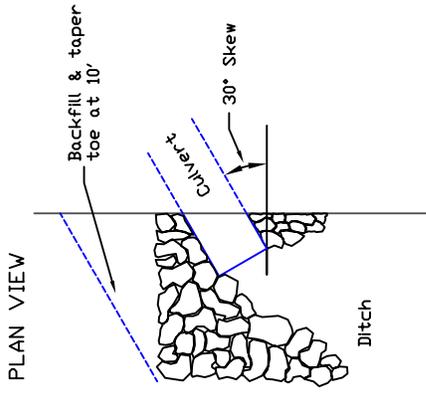
Washington State Department of
Natural Resources

Northeast Region
Colville, Washington

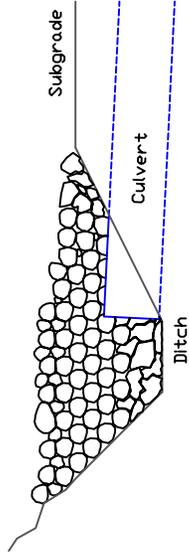
Drawn by: Jason Bauer

Revised: 10/06/2009

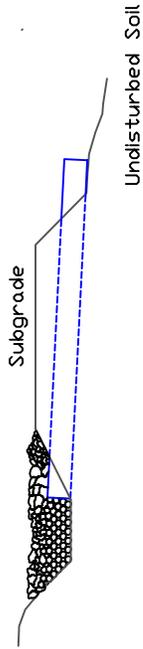
CULVERT AND DRAINAGE SPECIFICATIONS DETAIL - D1



HEADWALLS

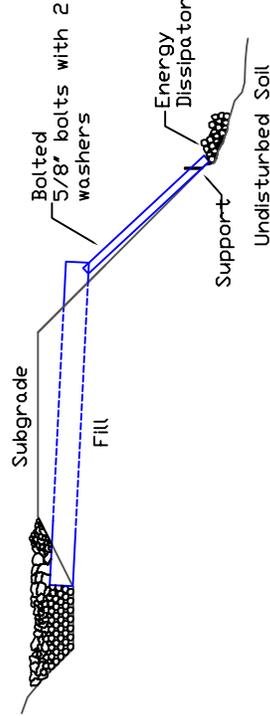


Headwall to be constructed of material that will resist erosion



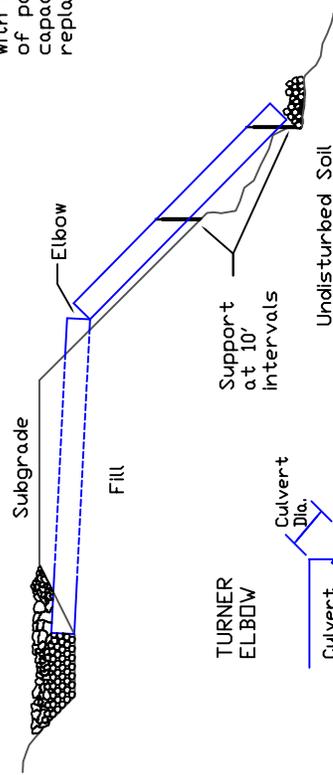
FLUME

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



DOWNSPOUT

Use where ground conditions are irregular.

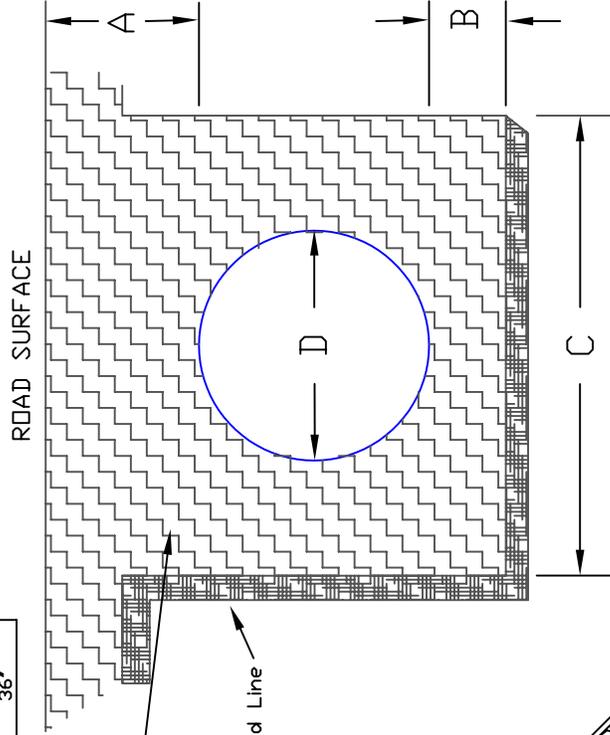


TURNER ELBOW

Bolted 5/8" bolts with bridge washers on both sides

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')

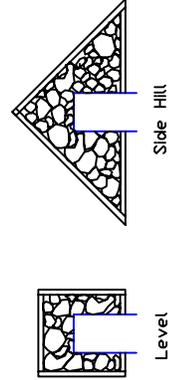


BEDDING MATERIAL:

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.

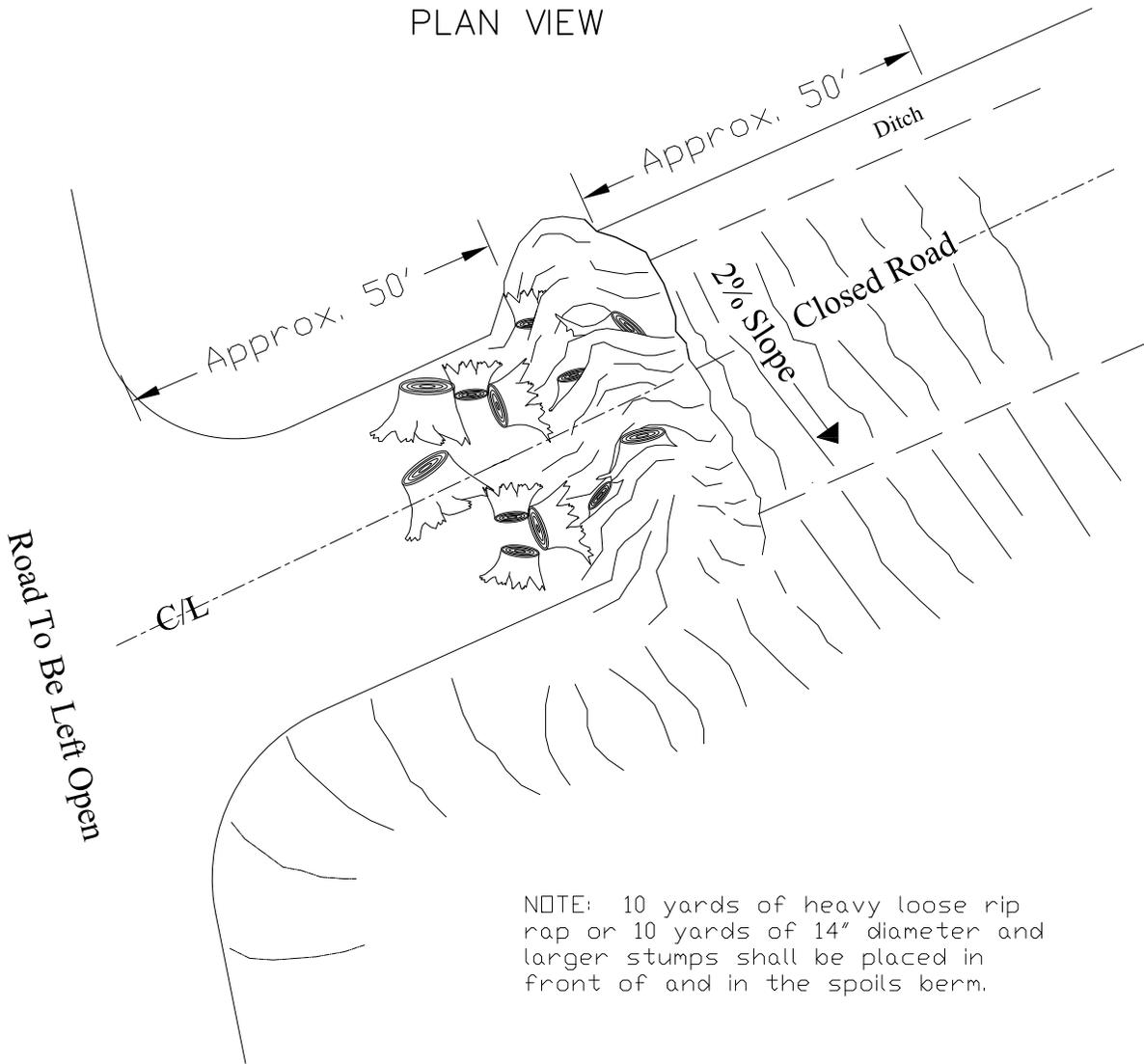
DISSIPATOR SPEC'S

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

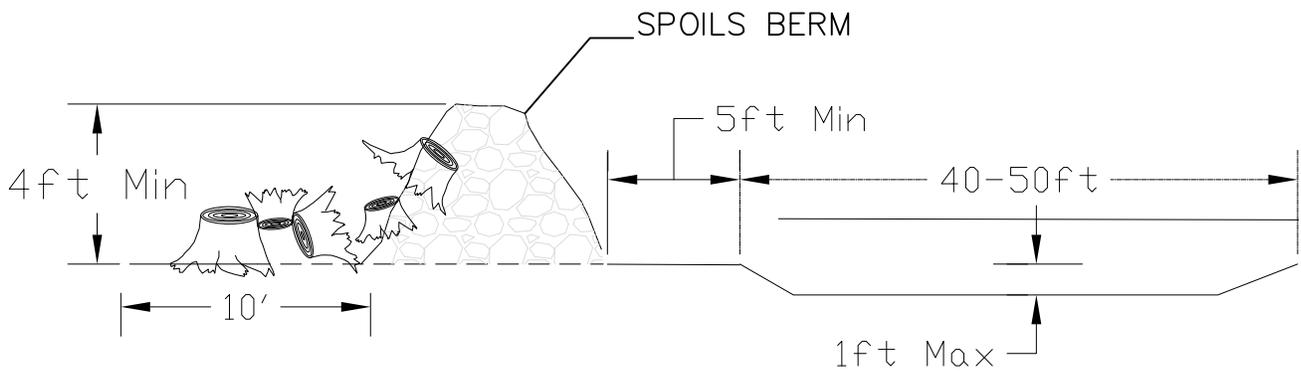


SPOILS BERM DETAIL

PLAN VIEW



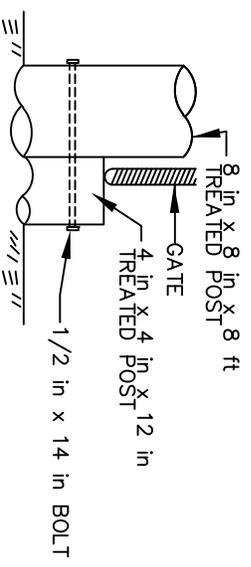
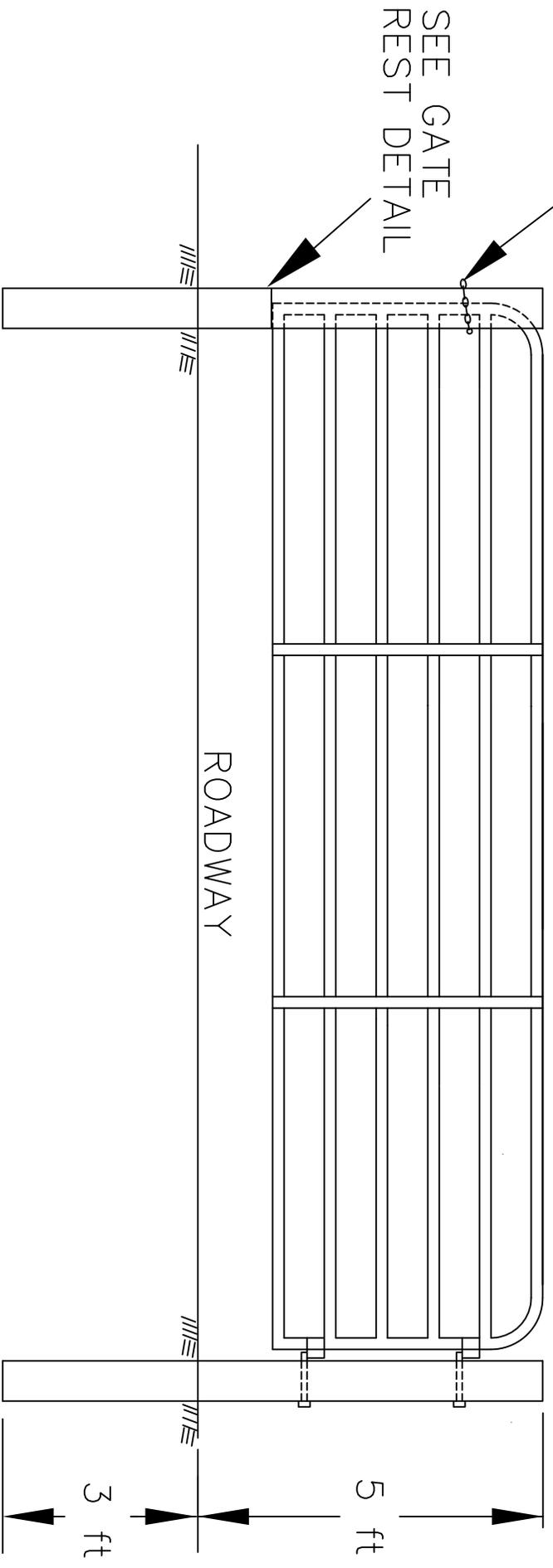
NOTE: 10 yards of heavy loose rip rap or 10 yards of 14" diameter and larger stumps shall be placed in front of and in the spoils berm.



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

METAL GATE DETAIL

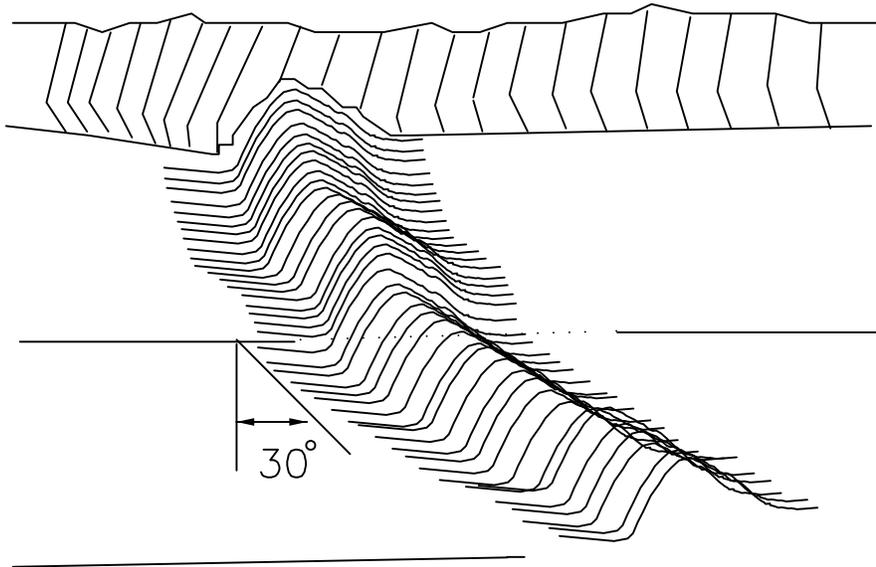
STOCKYARD GATE SIZE 16 FEET



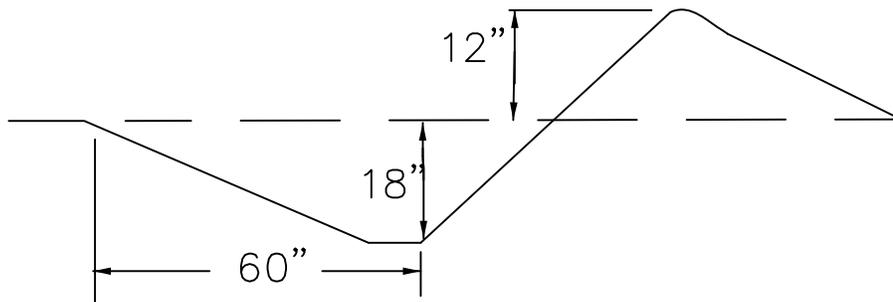
GATE REST DETAIL

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

Top View

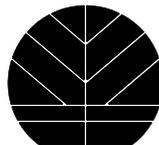


Side View



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

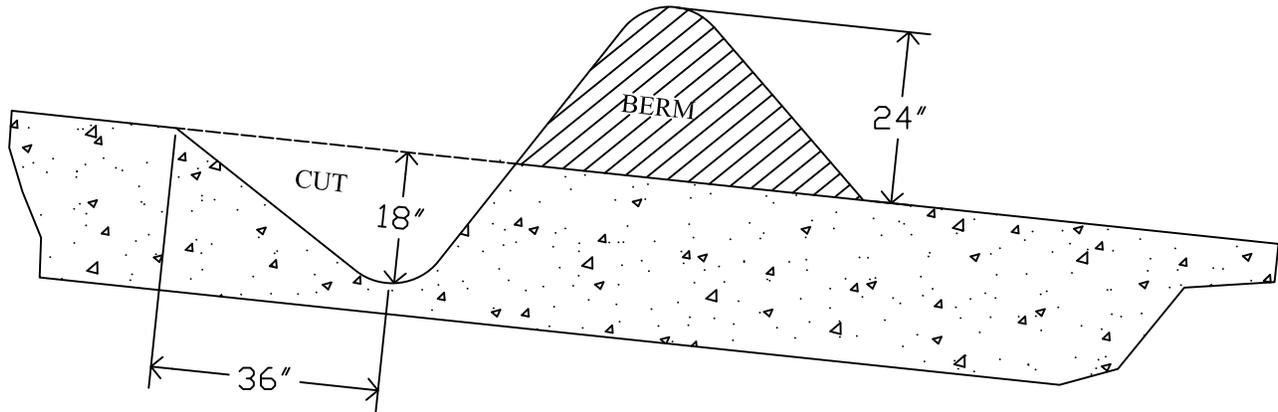
Designed By: Stash Slabinski 9/06/05

Drawn By: Stash Slabinski 9/06/05

Revised:

1 OF 1

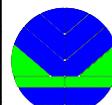
Non-Driveable Water Bar Detail



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 30 DEGREES DOWNGRADE WITH ROAD CENTERLINE.

Non-Driveable Waterbar
Detail

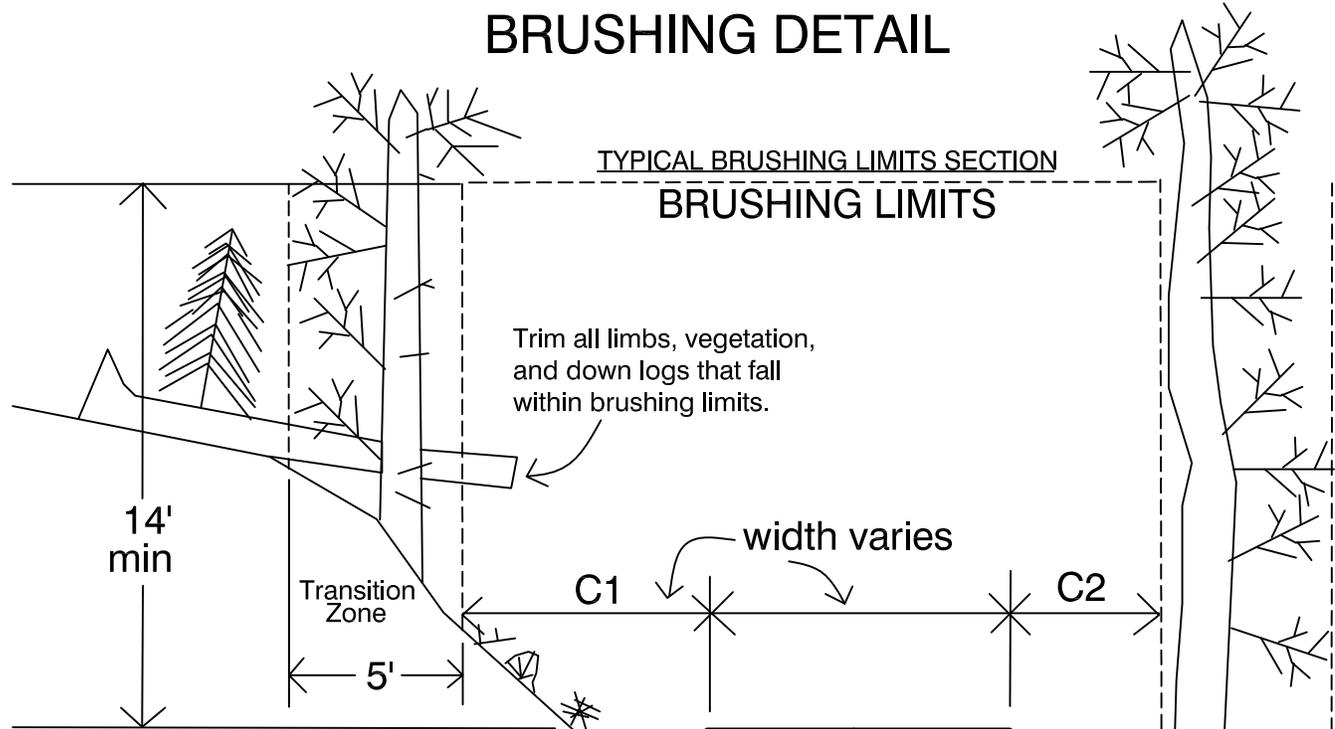


WASHINGTON STATE DEPARTMENT OF
Natural Resources

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

Revised:

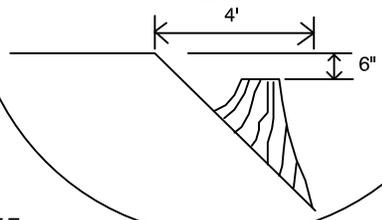
BRUSHING DETAIL



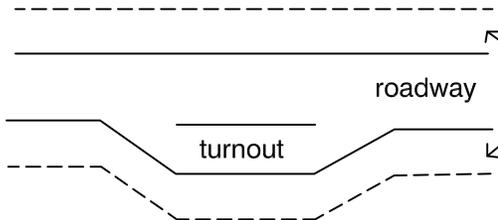
All limbs on standing trees that extend into the brushing limits shall be trimmed within 6" of the stem

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.

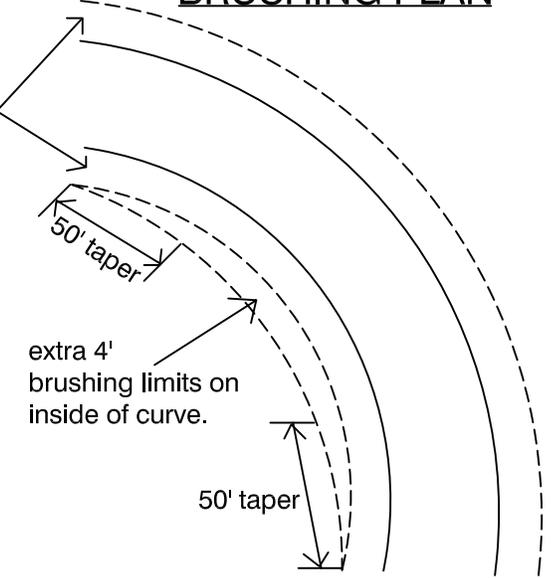


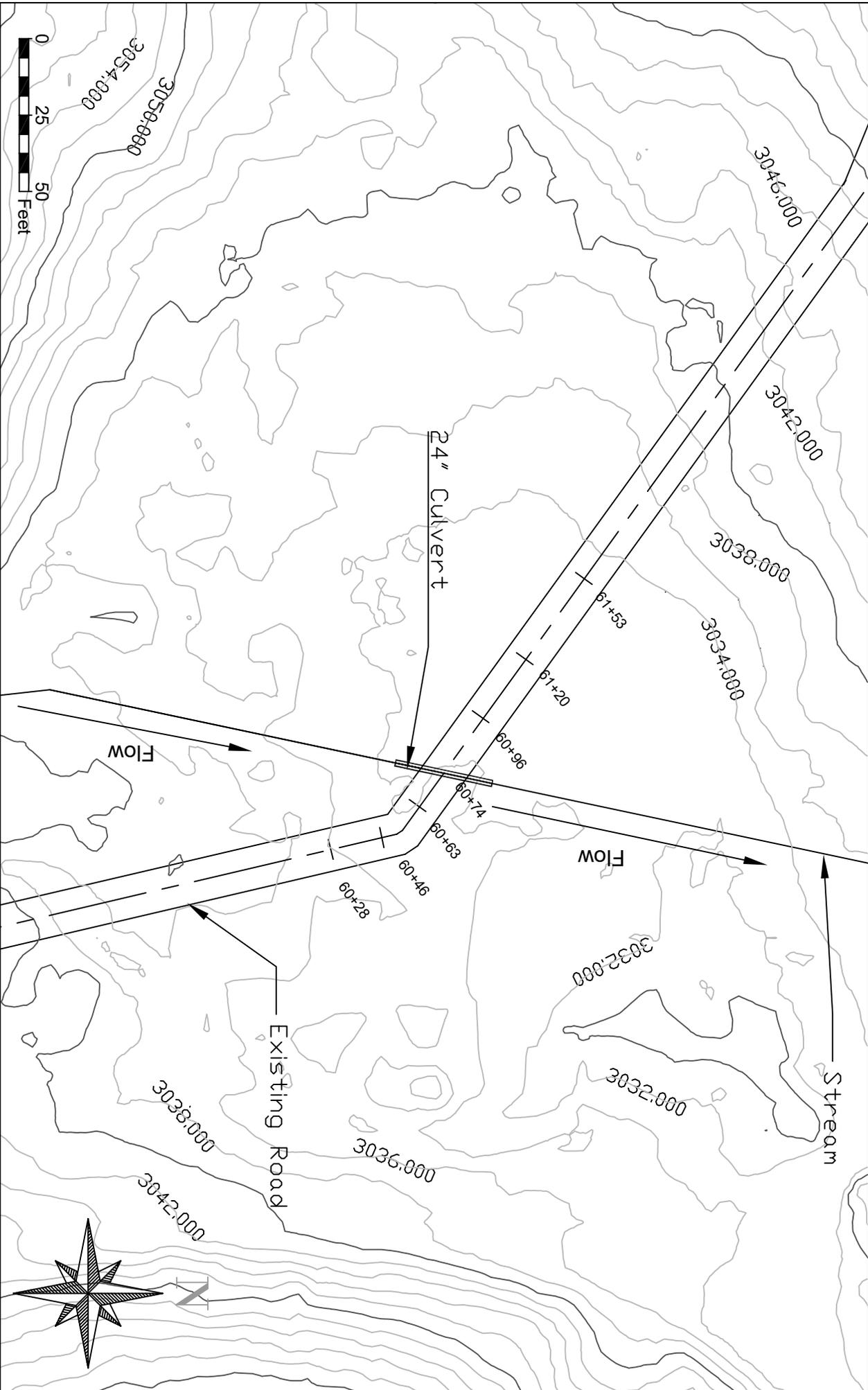
CURVE BRUSHING PLAN



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.





County: *Kanegan*

District: Highlands
 Contract Administrator:
 Eric Anderson

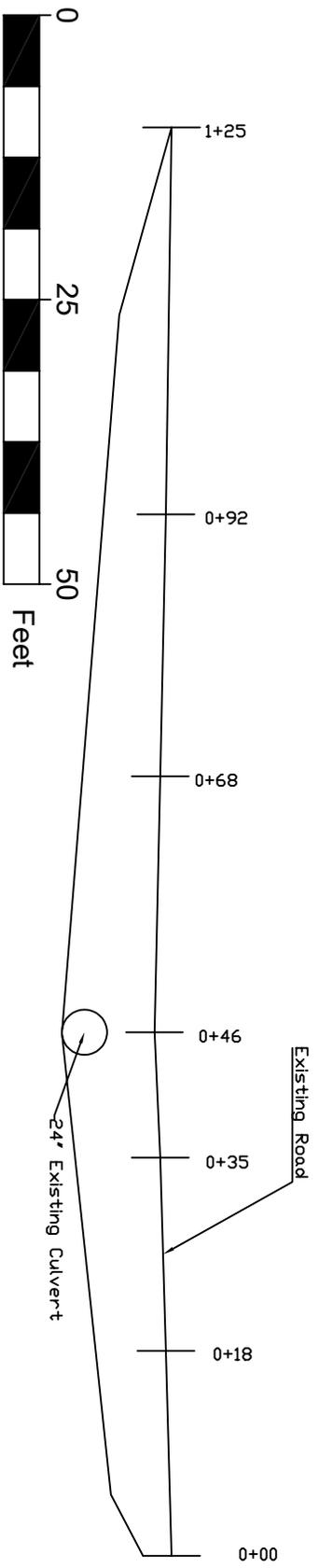
Black Diamond Fill Repair

Revisions	By	Date
2/11/20		

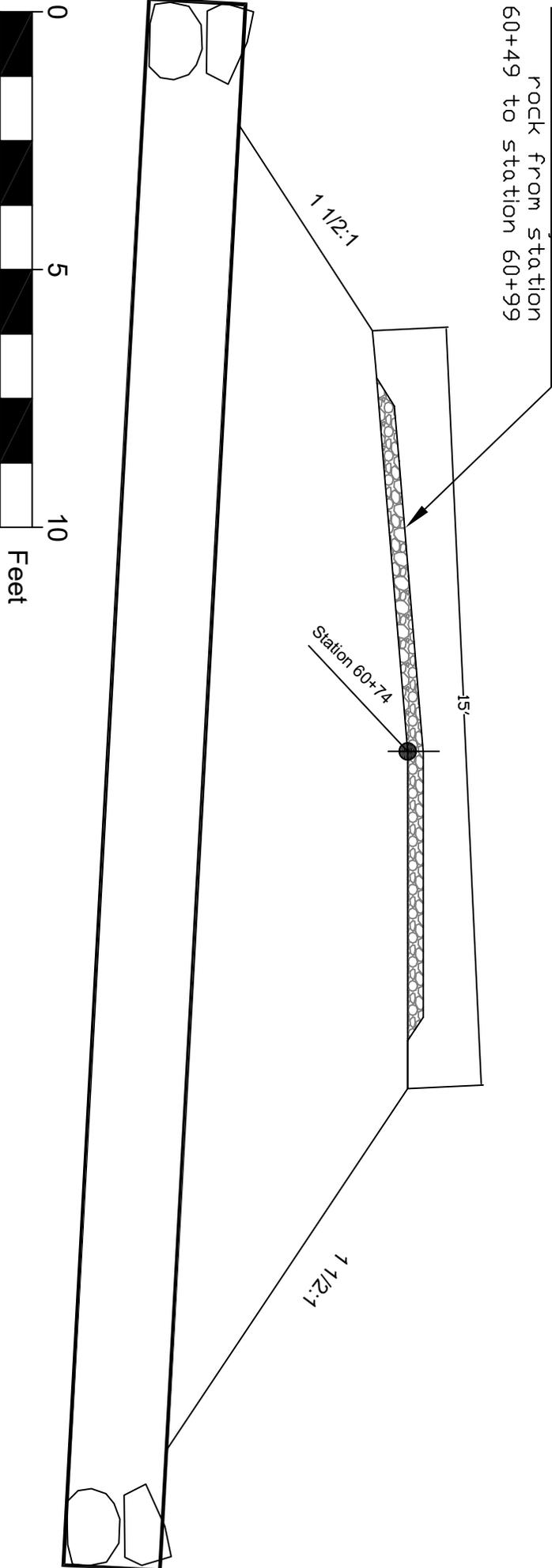
Legal Description:
SE 1/4 Sec 33 T40N R28E

Drawn: CR	Project: Fill repair
Designed: CR	View: Plan View
Checked:	Date: 10/8/19
Sheet: 2/2	

Road Profile



Cross Section View



County: *Osage*

District: highlands
Contract Administrator:
Eric Anderson

Black Diamond Fill Repair

Revisions	By	Date
10/11/20		

Legal Description:

SE 1/4 Sec 33 T40N R28E

Drawn: CR	Project: Fill Slope Repair
Designed: CR	View: profile and cross section
Checked:	Date: 10/8/19
Sheet: 1/2	

Q BLACK DIAMOND TIMBER SALE

REGION: Northeast CONTRACT #: 30-100080 ENGINEER: Eric Anderson
 DISTRICT: Highlands DATE:09/17/2019

	Construction	Reconstruction	Maintenance	Abandonment
ROAD NUMBERS:	E382812A		E382812A	
Comments:	E382816L		E382816E	
	E392812E		E382816F	
	E402736B		E382816G	
			E382816J	
			E382816K	
			E382816L	
			E392812E	
			E402736B	
			E402736E	
			E402736F	
			USFS3525	
			USFS300	
			USFS350	
			USFS360	
			USFS364	
ROAD STANDARD:	Construction	Reconstruction	Maintenance	Abandonment
NUMBER OF STATIONS:	44.75		802.90	
CLEARING & GRUBBING:			\$0	0
EXCAVATION AND FILL:	\$21,685			\$0
MISC. MAINTENANCE:	\$200		\$15,038	\$0
ROAD ROCK:	\$1,600		\$3,600	\$0
ADDITIONAL ROCK:			\$0	\$0
CULVERTS AND FLUMES:				\$0
STRUCTURES/MATERIALS:				\$0

TOTAL COSTS:	\$23,485	\$0	\$18,638	\$0
<i>COST PER STATION:</i>	\$525	\$0	\$23	\$0

	\$/per move	# of moves	Total
MOBILIZATION:	\$500	4	\$2,000
MOBILIZATION:	\$1,000	3	\$3,000

Excavation

Extra Rock

Total for Extras	100cyds. Rock delivered/\$40 per yd	\$4,000	extras are not in total
	3 18"x30' culverts purchased/ \$20per lineal ft.	\$1,800	
	3 culverts installed/\$120 per culvert	\$360	
	3 rolling dips/100 per dip	\$300	
	3 temp cattle guard install/\$250 per cattle guard	\$750	
	Additional Post Haul Maintenance	\$1,200	\$8,410

TOTAL (All Roads) = \$47,123.00
SALE VOLUME mbf = 1,939
TOTAL \$/MBF = \$24.30