



TIMBER NOTICE OF SALE

SALE NAME: Q NEON

AGREEMENT NO: 30-99298

AUCTION: February 25, 2020 starting at 10:00 a.m.,
Northeast Region Office, Colville, WA

COUNTY: Okanogan

SALE LOCATION: Sale located approximately 13 miles east of Riverside, WA

**PRODUCTS SOLD
AND SALE AREA:**

All green conifer species (excluding ponderosa pine) 7 inches and greater in diameter at breast height and all green ponderosa pine 8 inches and greater in diameter at breast height not banded with blue paint in Units 1, 2, 3, 8 and 9 bounded by white timber sale boundary tags; all green conifer species (excluding ponderosa pine) 7 inches and greater in diameter at breast height and all green ponderosa pine 8 inches and greater in diameter at breast height not banded with purple paint in Units 4, 5, 6 and 7 bounded by white timber sale boundary tags; on part(s) of Sections 14 and 15 all in Township 35 North, Range 27 East, Sections 32, 33 and 36 all in Township 35 North, Range 28 East, Sections 28 all in Township 36 North, Range 28 East, W.M., containing 500 acres, more or less.

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

ESTIMATED SALE VOLUMES AND QUALITY:

Species	Avg DBH	Ring Count	Total MBF	MBF by Grade								
				P	SM	1S	2S	3S	4S	5S	6S	UT
Ponderosa pine	15.4		1,688						621	1,067		
Douglas fir	14.5		950				288	515	147			
Larch	12.1		385				29	265	91			
Lodgepole	10.8		7					5	2			
Sale Total			3,030									

MINIMUM BID: \$119,000.00

BID METHOD: Sealed Bids

PERFORMANCE

SECURITY: \$23,800.00

SALE TYPE: Lump Sum

EXPIRATION DATE: October 31, 2021

ALLOCATION: Export Restricted

BID DEPOSIT: \$11,900.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

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

ROADS: 7.29 stations of required construction. 1090.15 stations of required prehaul maintenance. 1.40 stations of decommissioning. Road construction will not be permitted from March 1 to May 1 unless authorized in writing by the Contract Administrator due to spring breakup. The hauling of forest products will not be permitted from March 1 to May 1 unless authorized in writing by the Contract Administrator due to spring breakup. The hauling of forest products will not be permitted on the E352819E road from March 1 to June 1 unless authorized in writing by the Contract Administrator due to spring breakup.



TIMBER NOTICE OF SALE

ACREAGE DETERMINATION

CRUISE METHOD: Acreage determined using GPS methods. Acreage shown above is net harvest acres in harvest units. Ponderosa pine: 8.0 - 17.5 inches dbh has a minimum top of 5.6 inch dib. 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.

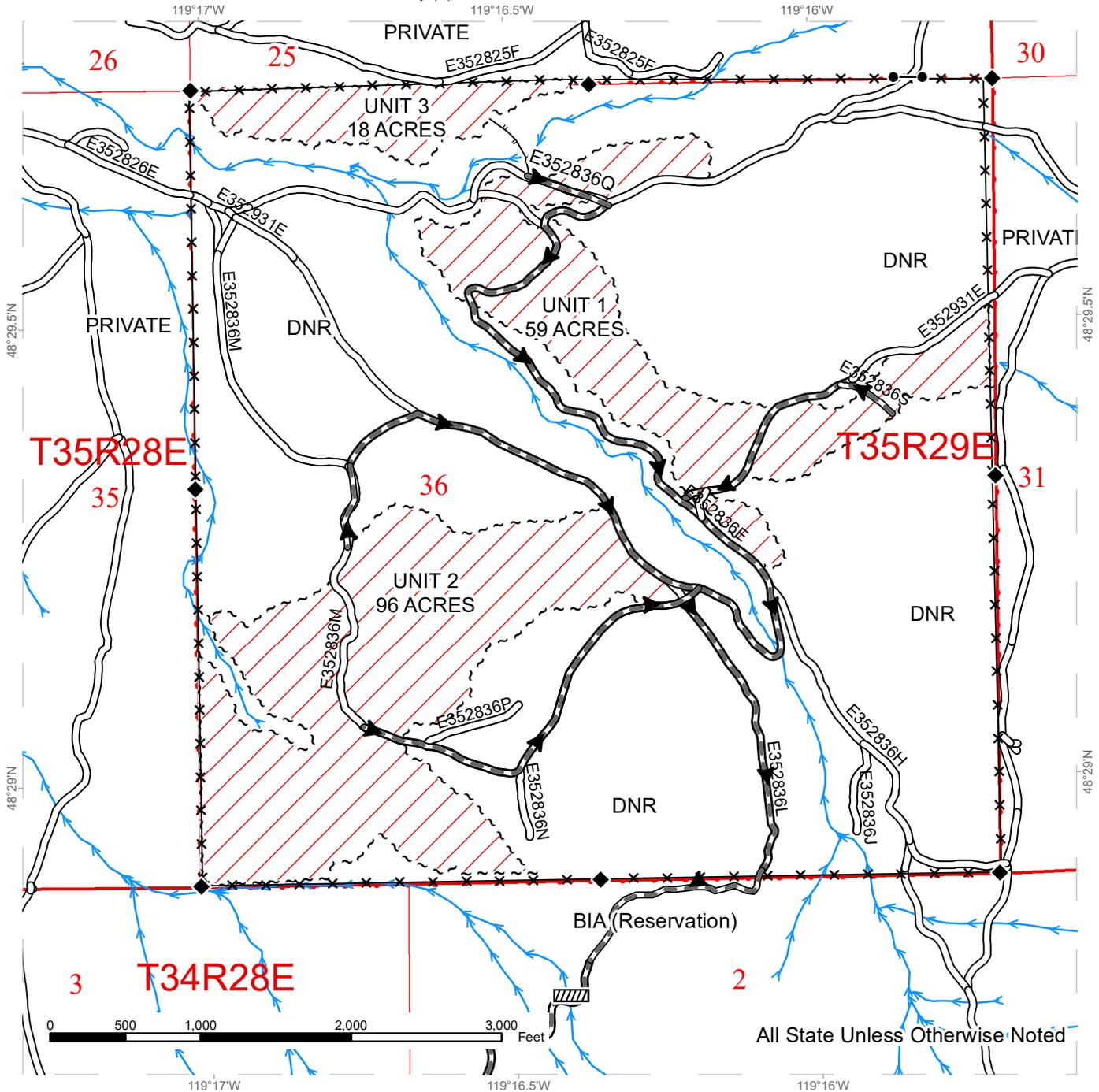
FEES: \$51,510.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Locked gates restricts access to Units 4, 5, 6, 7 and 9. Contact the Northeast Region Office at (509) 684-7474 for access.

TIMBER SALE MAP

SALE NAME: Q NEON TS
AGREEMENT #: 30-099298
TOWNSHIP(S): T35R27E, T35R28E, T36R28E
TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region
COUNTY(S): Okanogan
ELEVATION RGE: 2520-4040

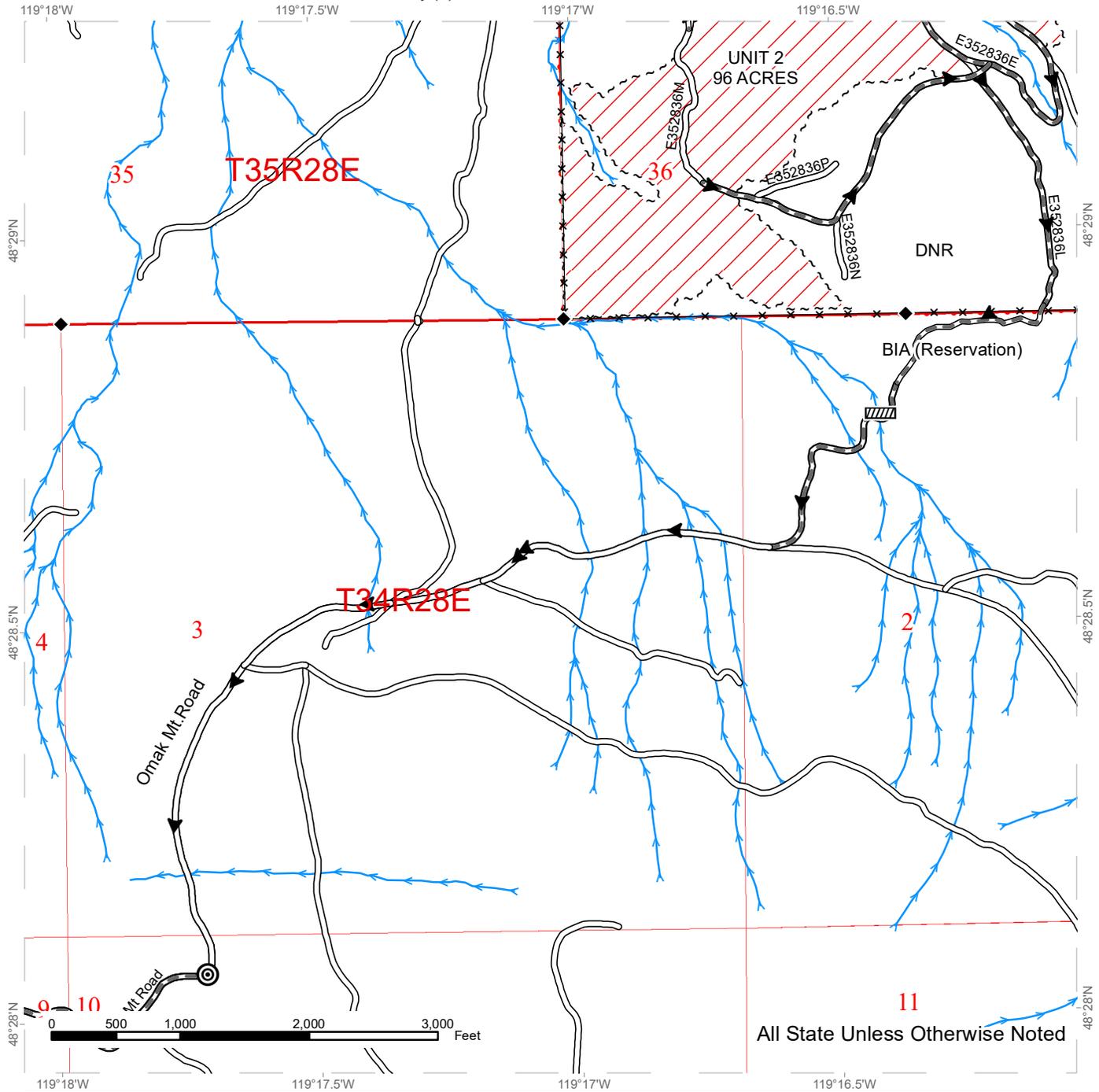


Public Land Survey Townships	Streams
Variable Retention Harvest	Survey Monument
Sale Boundary Tags	Culvert
Existing Roads	Fence
Required Pre-Haul Maintenance	
Designated Skid Trail	
Haul_Route	

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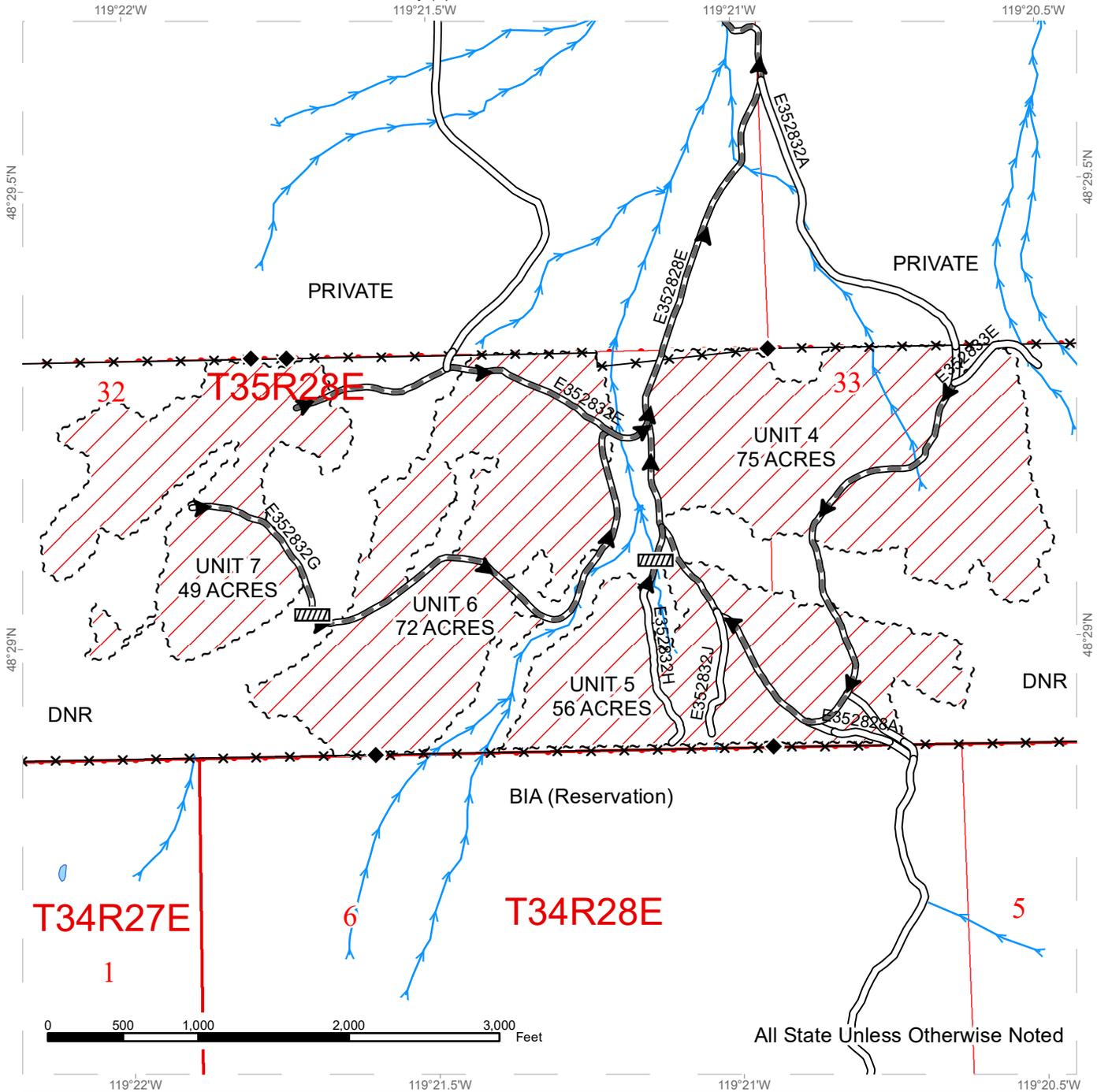
All State Unless Otherwise Noted

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|-------------------------------|-------------------------------|
| Public Land Survey Townships | Streams |
| Variable Retention Harvest | Survey Monument |
| Sale Boundary Tags | Culvert |
| Existing Roads | Log Placement (See Road Plan) |
| Required Pre-Haul Maintenance | Fence |
| Haul_Route | |

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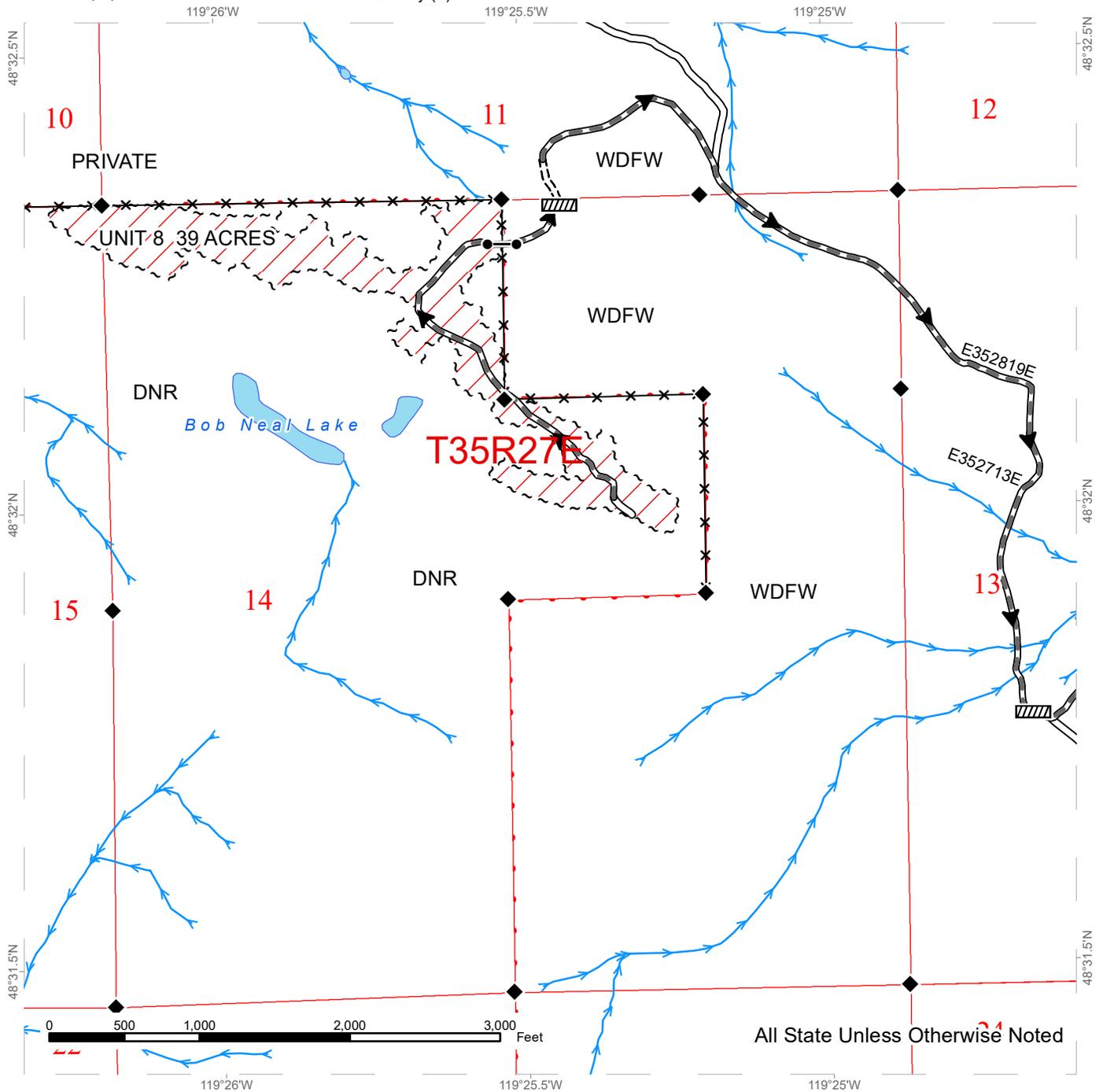
Public Land Survey Townships	Streams
Variable Retention Harvest	Survey Monument
Sale Boundary Tags	Culvert
Existing Roads	Fence
Required Pre-Haul Maintenance	
Haul_Route	



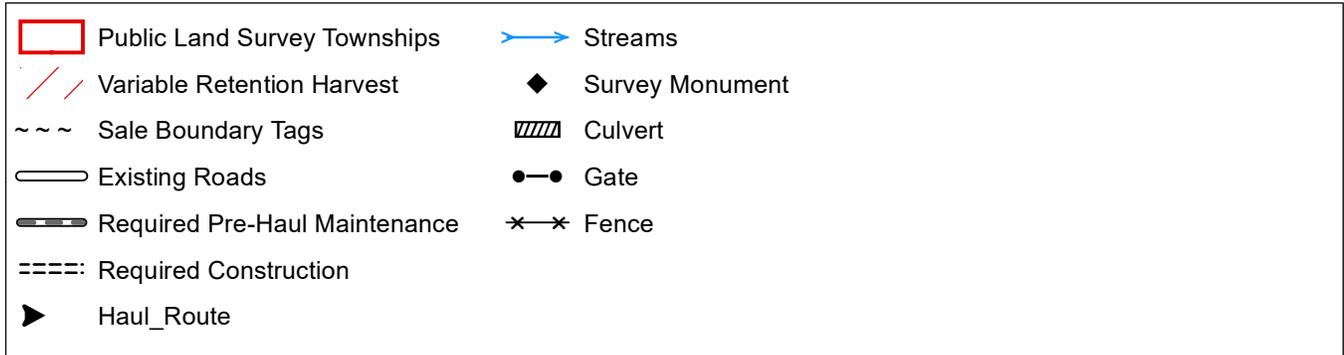
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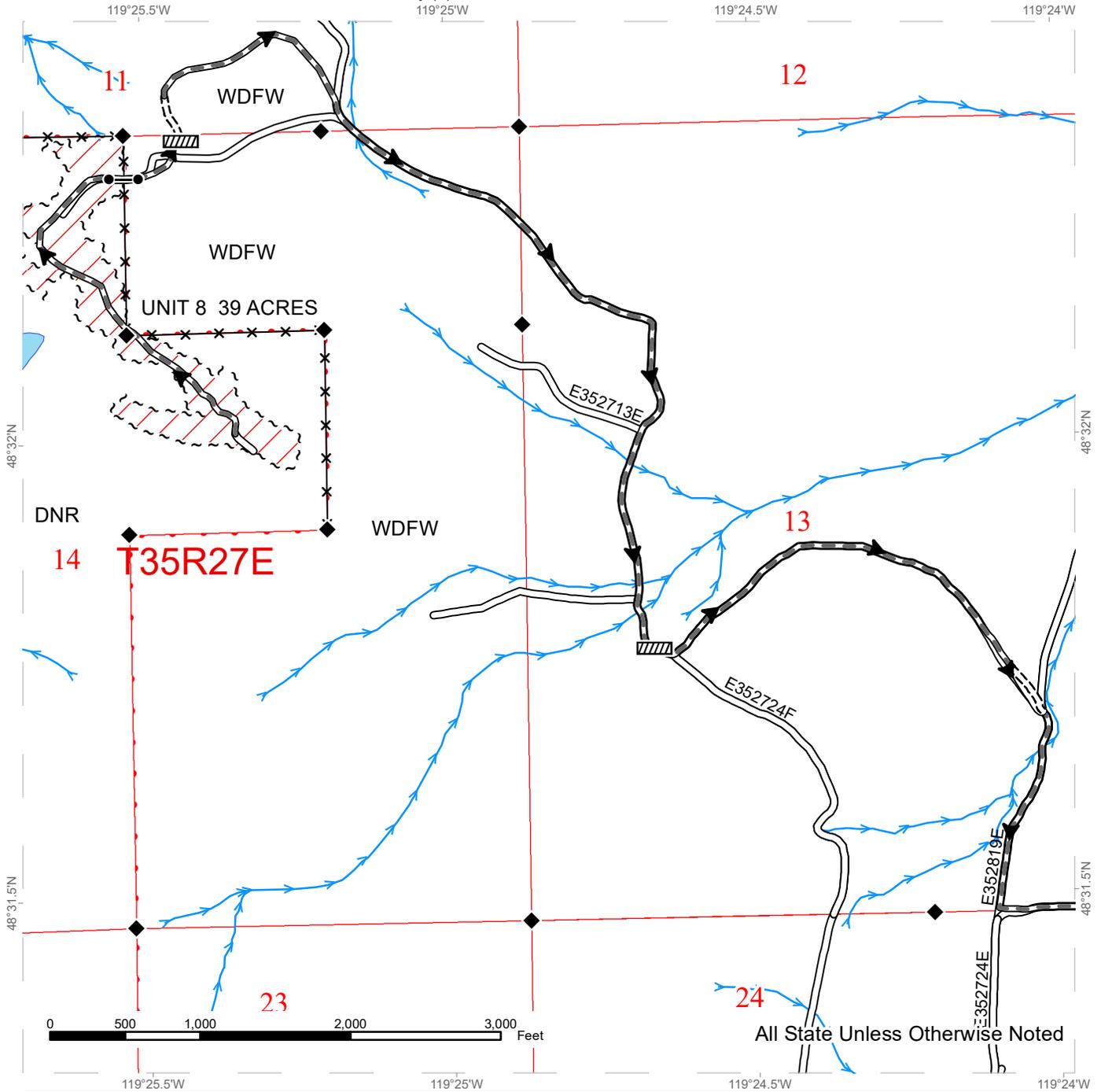
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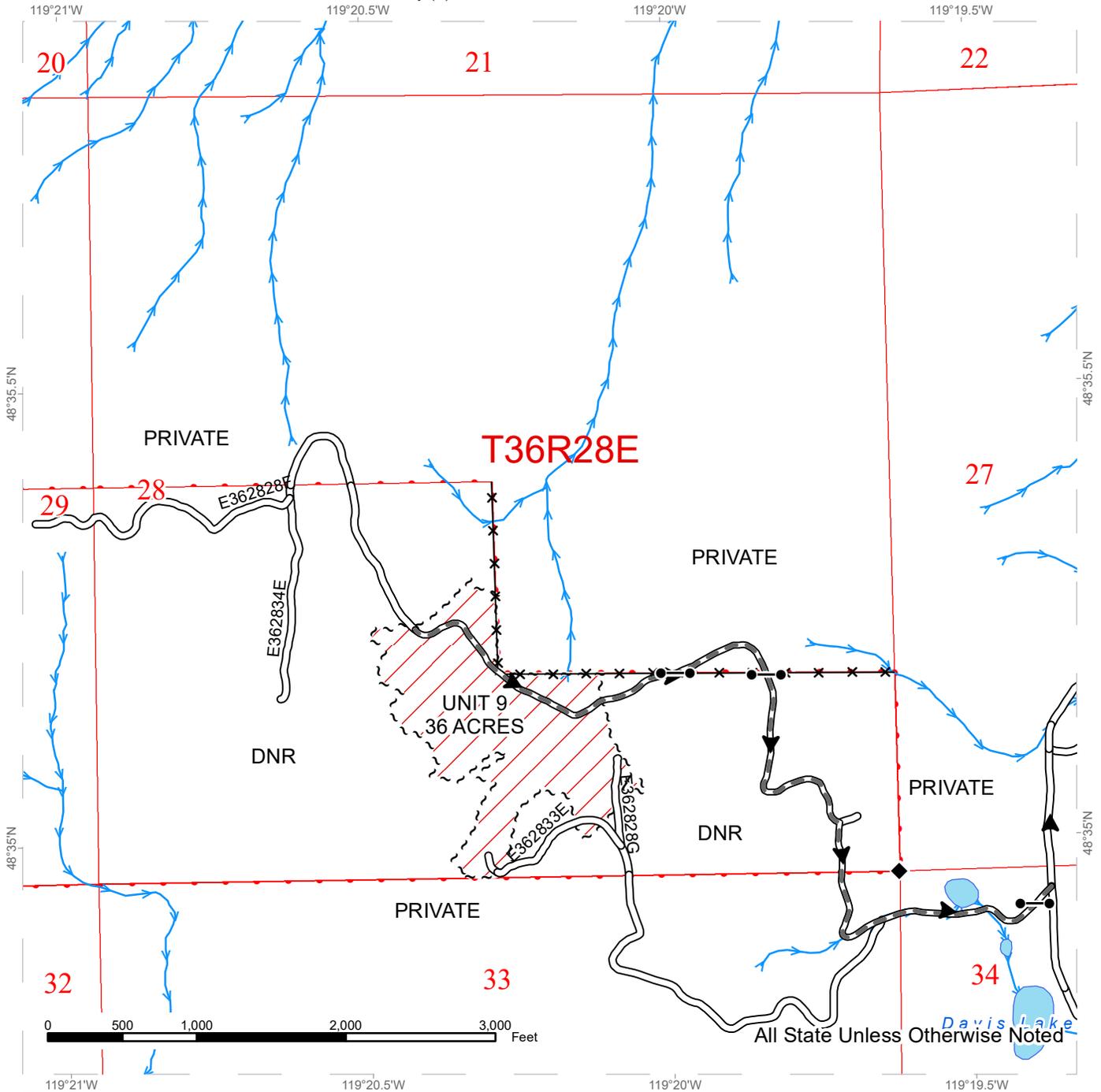
Public Land Survey Townships	Streams
Variable Retention Harvest	Survey Monument
Sale Boundary Tags	Culvert
Existing Roads	Gate
Required Pre-Haul Maintenance	Fence
Required Construction	
Haul_Route	



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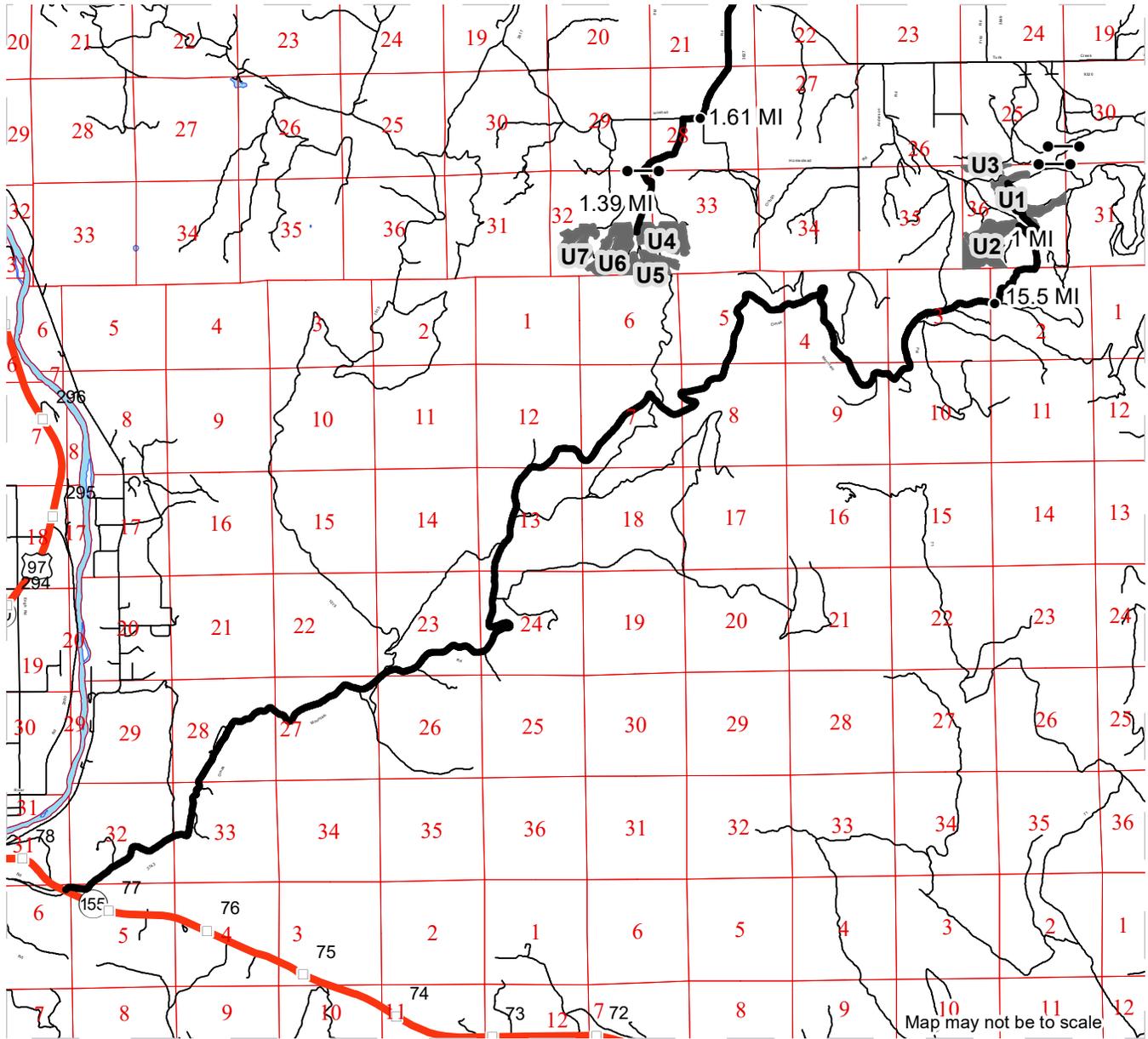


Public Land Survey Townships	Streams
Variable Retention Harvest	Survey Monument
Sale Boundary Tags	Gate
Existing Roads	Fence
Required Pre-Haul Maintenance	
Haul_Route	

DRIVING MAP

SALE NAME: Q NEON TS
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- Timber Sale Unit
- Haul Route
- Other Road
- Milepost Markers
- Distance Indicator

DRIVING DIRECTIONS:

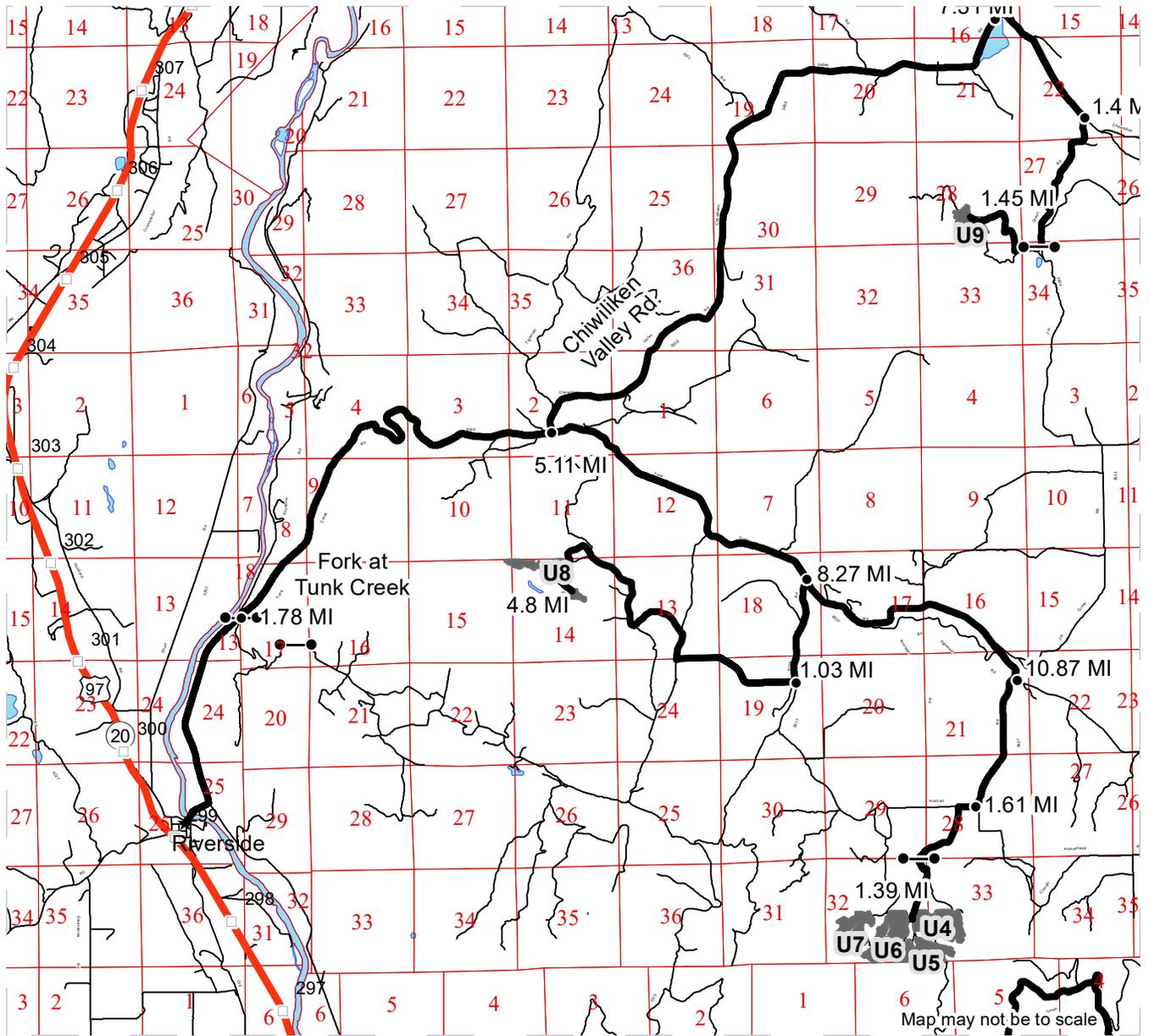
Units 1, 2, and 3 – From Omak go east on Hwy 155 to the Omak Mountain Road. Turn north on the Omak Mountain Rd, and go approximately 15.5 miles to the E352836L road, turn left and go approximately 1 mile to the DNR section 36 and follow the E352836L road to the units.

Units 4-9 - From Riverside, WA Take Tunk Valley Rd. NE out of town 0.28 miles to Tunk Creek Rd. , turn left onto Tunk Creek Rd. and continue for 1.78 miles, keep right at fork then continue on Tunk Creek Rd. Unit 8 is 8.27 miles to Knox Rd., Turn right on Knox Rd. and continue 1.03 miles to E352819E, turn right on E352819E and continue 4.84 miles to Unit 8. From the fork at Tunk creek for Units 4-7 go 10.87 miles to Hosheit Rd., Turn right on Hoshiet Rd. and continue 1.61 miles to E352828E on left, Turn left on E352828E and continue 1.39 miles to State Ownership and access to units 4, 5, 6, and 7. For unit 9 at the Fork on tunk Creek for 5.11 miles, Turn left onto Chewiliken Valley Rd. and continue 7.31 miles, Keep right at fork to continue on Chewiliken Valley Rd. and continue 1.40 miles to JH Green Rd., Turn right onto JH Green Rd. and continue 1.45 miles to E362834E at locked gate on right hand side, Proceed through gate on E362834E and continue 1.12 miles to Unit 9.

DRIVING MAP

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Timber Sale Unit
 Haul Route
 Milepost Markers
 Distance Indicator

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DRIVING DIRECTIONS:

Units 1, 2, and 3 – From Omak go east on Hwy 155 to the Omak Mountain Road. Turn north on the Omak Mountain Rd, and go approximately 15.5 miles to the E352836L road, turn left and go approximately 1 mile to the DNR section 36 and follow the E352836L road to the units.

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**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-099298

SALE NAME: Q NEON

**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 February 25, 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 and all green ponderosa pine 8 inches and greater in diameter at breast height not banded with blue paint in Units 1, 2, 3, 8 and 9 bounded by white timber sale boundary tags; all green conifer species (excluding ponderosa pine) 7 inches and greater in diameter at breast height and all green ponderosa pine 8 inches and greater in diameter at breast height not banded with purple paint in Units 4, 5, 6 and 7 bounded by white timber sale boundary tags; located on approximately 500 acres on part(s) of Sections 14, and 15 all in Township 35 North, Range 27 East, Sections 32, 33, and 36 all in Township 35 North, Range 28 East, Section 28 in Township 36 North, Range 28 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 October 31, 2021.

G-040 Contract Term Adjustment - No Payment

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

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

G-051 Contract Term Extension - Payment

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

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

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

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

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

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

- e. Payment of \$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-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; E352819E, E352825F, E352828E, E352832E, E352832G, E352832H, E352836E, E352836L, E352836M, E352836Q, E352836S, E352931E, E362834E and Omak Mountain road. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

G-320 Erosion Control

Purchaser shall deliver 650 pounds of grass seed to a location designated by the Contract Administrator. Seed provided shall meet the following specifications.

40% Intermediate Wheatgrass, 30% Canby Bluegrass, 30% Sherman Big Bluegrass Seed shall be certified weed free, premixed and delivered to Omak work center 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 E352819E, E352825F, E352828E, E352832E, E352832G, E352832H, E352836E, E352836L, E352836M, E352836Q, E352836S, E352931E, E362834E and Omak Mountain 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 815 with 20 Bar 3 Grazing Association dated January 14, 1972
- Easement 816 with Biles-Coleman Lumber Co. dated December 30, 1971
- Easement 817 with Liglenski dated September 24, 1971
- Easement 1849 with Crown Zellerbach Corp. dated June 1, 1982
- Easement 2542 with Crown Pacific Inland dated April 13, 1994
- Easement 2578 with Smith dated December 15, 1994
- Road Use Permit 99846 with Bureau of Indian Affairs dated September 5, 2019

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:

Lease, including the terms and provisions thereof,
For: Grazing
In Favor of: Robert E. & Barbara Ayers
Disclosed by Application No.: 10-090996
Granted: 9/1/2017
Expires: 8/31/2027

Lease, including the terms and provisions thereof,
For: Grazing
In Favor of: James Soriano
Disclosed by Application No.: 10-B59697
Granted: 6/1/2012
Expires: 5/31/2022

Lease, including the terms and provisions thereof,

For: Permit Range
In Favor of: Riverside Grazing Association
Disclosed by Application No.: 11-D69469
Granted: 1/1/2013
Expires: 12/31/2022

Easement, including the terms and provisions thereof,
For: Pipeline
In Favor of: S. W. Arrington
Disclosed by Application No.: 50-012756
Granted: 12/8/1926
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Omak Wood Products Inc.
Disclosed by Application No.: 50-052607
Granted: 4/23/1992
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Crown Pacific Inland
Disclosed by Application No.: 50-053864
Granted: 4/13/1994
Expires: Indefinite

Lease, including the terms and provisions thereof,
For: Land Use License
In Favor of: Washington Department of Fish & Wildlife
Disclosed by Application No.: 60-094981
Granted: 12/29/2016
Expires: 6/30/2022

Water Right, including the terms and provisions thereof,
For: Stream
In Favor of: Washington State Department of Natural Resources
Disclosed by Application No.: 78-002727
Granted: 11/21/1972
Expires: Indefinite

Water Right, including the terms and provisions thereof,
For: Spring
In Favor of: Washington State Department of Natural Resources
Disclosed by Application No.: 78-003511
Granted: 3/28/1973

Expires: Indefinite

Water Right, including the terms and provisions thereof,

For: Lake

In Favor of: Washington State Department of Natural Resources

Disclosed by Application No.: 78-003512

Granted: 3/28/1973

Expires: Indefinite

Water Right, including the terms and provisions thereof,

For: Spring

In Favor of: Washington State Department of Natural Resources

Disclosed by Application No.: 78-003513

Granted: 3/28/1973

Expires: Indefinite

Water Right, including the terms and provisions thereof,

For: Spring

In Favor of: Washington State Department of Natural Resources

Disclosed by Application No.: 78-003514

Granted: 3/28/1973

Expires: Indefinite

Water Right, including the terms and provisions thereof,

For: Spring

In Favor of: Washington State Department of Natural Resources

Disclosed by Application No.: 78-003526

Granted: 7/23/1973

Expires: Indefinite

Water Right, including the terms and provisions thereof,

For: Spring

In Favor of: Washington State Department of Natural Resources

Disclosed by Application No.: 78-003527

Granted: 7/23/1973

Expires: Indefinite

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 \$78,780.00. The total contract price consists of a \$0.00 contract bid price plus \$78,780.00 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 \$23,800.00. 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-010 Cutting and Yarding Schedule

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

H-013 Reserve Tree Damage Definition

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

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

- a. A reserve tree has one or more scars on its trunk exposing the cambium layer, which in total exceeds 144 square inches.
- b. A reserve tree top is broken or the live crown ratio is reduced below 30 percent.
- c. A reserve tree has more than 1/3 of the circumference of its root system injured such that the cambium layer is exposed.

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

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

H-015 Skid Trail Requirements

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

Purchaser shall comply with the following during the yarding operation:

- a. Skid trails will not exceed 12 feet in width, including rub trees.

- b. Skid trails shall not cover more than 10 percent of the total acreage on one unit.
- c. 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.
- h. The designated skid trail from Unit 3 to E352836Q road shall be used in dry or frozen conditions. See the forest practice application notice of decision for details.

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 6 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-060 Skid Trail Locations

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

H-080 Snags Not to be Felled

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

H-110 Stump Height

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

H-120 Harvesting Equipment

Forest products sold under this contract shall be harvested and removed using ground based equipment no larger than D6 dozer or equivalent. 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 the E352819E road from March 1 to June 1 and on the E352825F, E352828E, E352832E, E352832G, E352832H, E352836E, E352836L, E352836M, E352836Q, E352836S, E352931E, E362834E and Omak Mountain roads from March 1 to May 1 unless authorized 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-210 Log Length Hauling Restrictions

The maximum log length hauled from the sale area shall not exceed 42 feet unless otherwise approved 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-260 Fall Leaners

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

Section C: Construction and Maintenance**C-040 Road Plan**

Road construction and associated work provisions of the Road Plan for this sale, dated 5/28/2019 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on E352819E, E352825F, E352828E, E352832E, E352832G, E352832H, E352836E, E352836L, E352836M, E352836Q, E352836S, E352931E, E362834E and Omak Mountain roads. 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-130 Dust Abatement

Purchaser shall abate dust on the E352819E, E352825F, E352828E, E352832E, E352832G, E352832H, E352836E, E352836L, E352836M, E352836Q, E352836S, E352931E, E362834E and Omak Mountain roads used for hauling from May 1 to October 1.

C-140 Water Bars

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

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

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

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

S-010 Fire Hazardous Conditions

Purchaser acknowledges that operations under this Contract may increase the risk of fire. Purchaser shall conduct all operations under this agreement following the

requirements of WAC 332-24-005 and WAC 332-24-405 and further agrees to use the highest degree of care to prevent uncontrolled fires from starting.

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

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

S-030 Landing Debris Clean Up

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

S-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-070 Water Supply

Purchaser shall provide, during the "closed season", a water supply with a minimum capacity of 1000 gallons for rapid filling of pump trucks or trailers at a location designated by the Contract Administrator.

S-100 Stream Cleanout

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

S-120 Stream Protection

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

S-130 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-041 Reserve Tree Excessive Damage

When Purchaser's operations exceed the damage limits set forth in clause H-013, Reserve Tree Damage Definition, and when the Contract Administrator determines that a suitable replacement for a damaged reserve tree is not possible, the damaged trees result in substantial injury to the State. The value of the damaged reserve trees at the time of the breach is not readily ascertainable. Therefore, the Purchaser agrees to pay

DRAFT

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the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged reserve trees that are not replaced in the units.

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Ken McNamee
Northeast Region Manager

Print Name

Date: _____

Date: _____

Address:

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

STATE OF _____)

COUNTY OF _____)

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

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

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

Notary Public in and for the State of

My appointment expires _____



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region:

Timber Sale Name:

Application Number:

EXCISE TAX APPLICABLE ACTIVITIES

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

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

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

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

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

EXCISE TAX EXEMPT ACTIVITIES

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

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

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale 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)

PRE-CRUISE NARRATIVE

Sale Name: Neon	Region: Northeast
Agreement #: 30-099298	District: South Okanogan
Contact Forester: Eric Dawson Phone / Location: 509-429-8362	County(s): Okanogan, Choose a county
Alternate Contact: Jake Townsend Phone / Location: 509-429-0545	Other information: Click here to enter text.

Type of Sale: Lump Sum	
Harvest System: Ground based Click here to enter text.	100
Harvest System: Select harvest system Click here to enter text. Enter % of sale acres	Click here to enter percent sale acres.
Harvest System: Select harvest system Click here to enter text.	Click here to enter percent sale acres.

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	S36 T 35 R 28	03	59.7	0	.12	0.66	0	58.92	GPS (Garmin)
2	S36 T 35 R 28	03	96.1	0	0	0.44	0	95.66	GPS (Garmin)
3	S36 T 35 R 28	03	18.1	0	0	0	0	18.1	GPS (Garmin)
4	S33, 32, T 35 R 28	03	75.7	0	0	0.87	0	74.83	GPS (Garmin)
5	S32, 33, T 35 R 28	03	57.4	0	0	1.7	0	55.7	GPS (Garmin)

6	S32 T 35 R 28	03	72.7	0	0	0.75	0	71.95	GPS (Garmin)
7	S32 T 35 R 28	03	49.9	0	0	0.51	0	49.39	GPS (Garmin)
8	S14 T35 R27	03	39.4	0	0	0.16	0	39.24	GPS (Garmin)
9	S28 T36 R28	03	36.9	0	0	0.50	0	36.4	GPS (Garmin)
Total acres			505.9	0	0.12	5.59	0	500.19	Net total ac. reflects rounding to tenth.

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Marked leave with blue paint	Includes Leave tree area	6 TPA
2	Marked leave with blue paint		6 TPA
3	Marked leave with blue paint		6TPA
4	Marked leave with purple paint		6TPA
5	Marked leave with purple paint		6 TPA
6	Marked leave with purple paint		6TPA
7	Marked leave with purple paint		6 TPA
8	Marked leave with blue paint		6 TPA
9	Marked leave with blue paint		6 TPA

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	PP, WL / 500 MBF	Locked Gate Herd Lock / Cross Private	
2	PP, WL / 675 MBF	Locked Gate Herd Lock / Cross Private	
3	PP, WL / 135 MBF	Locked Gate Master Lock / Cross Private	
4	PP, DF / 350 MBF	Locked Gate Herd Lock / Cross Private	
5	PP, DF / 499 MBF	Locked Gate Herd Lock / Cross Private	

6	PP, DF / 581 MBF	Locked Gate Herd Lock / Cross Private	
7	DF, PP / 424 MBF	Locked Gate Herd Lock / Cross Private	
8	PP, DF / 157 MBF	No access issues, May want Quad	
9	DF, PP / 400 MBF	Locked Gate Herd Lock (Sticky Locks - Notify Local Foresters Upon Entering) / Cross Private	
TOTAL MBF	3,721 MBF		

REMARKS:

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Prepared By: Eric Dawson Date: 05/30/2019	Title: NRS2	CC:
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Cruise Narrative

Sale Name: Neon	Region: Northeast
Agreement Number: 30-099298	District: South Okanogan
Lead Cruiser: Jim Putnam	Completion Date: 9/4/19
Other Cruisers on sale: Dylan Worlock, Steven Hanson	Legal: Sections 32, 33, & 36, T 35 N, R 28 E WM.; Section 14 & 15, T 35 N, R 27 E WM.; and Section 28, T 36 N, R 28 E WM.

Unit Acreage Specifications:

Unit #	Gross Acres	Net Acres	Total Deletions	Existing Roads	Leave Tree Acres	Power Line	Other
1	59.7	58.9	0.8	0.7	0.1		
2	96.1	95.7	0.4	0.4	0.0		
3	18.1	18.1	0.0	0.0	0.0		
4	75.7	74.8	0.9	0.9	0.0		
5	57.4	55.7	1.7	1.7	0.0		
6	72.7	72.0	0.8	0.8	0.0		
7	49.9	49.4	0.5	0.5	0.0		
8	39.4	39.2	0.2	0.2	0.0		
9	36.9	36.4	0.5	0.5	0.0		
Total	505.9	500.2	5.7	5.6	0.1	0.0	0.0

Cruise Sample Design:

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

Unit #	Small BAF (count)	Large BAF (cruise)	Sighting height	Grid size (plot spacing in feet)	% Cruise to count Target	% Cruise to count Actual	Total number of Plots
1	20	100.28	D4H	250' x 250'	20%	24%	41
2	20	100.28	D4H	250' x 250'	20%	29%	71
3	20	40	D4H	250' x 250'	50%	51%	15
4	20	100.28	D4H	250' x 250'	20%	30%	50
5	20	100.28	D4H	250' x 250'	20%	31%	37
6	20	90	D4H	250' x 250'	22%	24%	22
7	20	90	D4H	250' x 250'	22%	28%	35
8	27.78	134.44	D4H	250' x 250'	20%	28%	27
9	20	80	D4H	250' x 250'	25%	29%	25
Total						29%	356

Cruise Specifications:

Minor species cruise intensity:	We grade the first tree of all minor species encountered with the smaller BAF; then followed through with the small BAF to large BAF ratio.
Minimum top dib:	<p>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: 8.0 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 (units 1-3 and 8-9) or purple paint (units 4-7).
Commercial species observed in sale area, but not in cruise:	
Status codes used:	L – leave tree
Sort codes used	D – saw log
Species table used:	NE
Grade table used:	NEgrad
Other tables used (cruise adjustment):	

Field Observations:

Location:	Eastern Okanogan County, 10-15 miles northeast of Omak, Washington.
Aspect:	North, East, South and West
Elevation:	2500' to 4100'
Slope:	Unit 1 – 0% to 30%, Average 5% Unit 2 – 0% to 35%, Average 10% Unit 3 – 0% to 35%, Average 10% Unit 4 – 0% to 40%, Average 30% Unit 5 – 0% to 40%, Average 25% Unit 6 – 0% to 40%, Average 30% Unit 7 – 0% to 40%, Average 25% Unit 8 – 0% to 40%, Average 15% Unit 9 – 0% to 35%, Average 10
Harvest Methods:	100% Ground base yarding.
Stand Composition:	The stands are second growth ponderosa pine and Douglas-fir with larger residual trees. There is a minor component of western larch and lodgepole pine.
Stand Health:	Isolated areas of this sale have significant fire damage; dead trees were not included in the cruise, and fire damage was deducted in live trees, including blue stain in the Ponderosa Pine.
Timber Quality:	The timber is a mix of domestic quality ponderosa pine (56%) and Douglas-fir (31%). Smaller amounts of western larch (13%) and lodgepole (<1%) occur in the sale.
Non-board Foot Volume:	Not included in cruise
Other Considerations:	

Trust and Counties:

Entire sale is located in Okanogan County within Trust 03.

Prepared by: Dylan Worlock

Title: NRS-1 Timber Cruiser

CC: Timber Sales Document Center & File #30-099298

T35N R27E S14 Ty00U8 THRU T36N R28E S28 Ty00U9	Project: NEON Acres 500.20	Page 1 Date 9/4/2019 Time 2:23:07PM
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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						
PP	D	4	36	4.5	1,301	1,243	621			92	8			100	32	13	240	1.58	5.2		
PP	D	5	64	5.7	2,263	2,133	1,067			96	4		11	13	76	26	7	63	0.58	33.9	
PP Totals			56	5.3	3,564	3,376	1,689		61	36	3		7	8	85	27	8	86	0.74	39.1	
DF	D	2	30	7.0	619	576	288			96	4			100	32	13	238	1.76	2.4		
DF	D	3	54	3.9	1,071	1,028	514			94	6			3	97	32	8	99	0.76	10.3	
DF	D	4	16	5.0	309	294	147		76	24			32	42	26	23	5	27	0.34	11.0	
DF Totals			31	5.1	1,999	1,898	950		12	54	33	1		5	8	87	28	7	80	0.72	23.7
WL	D	2	7	1.0	59	58	29			100				100	32	12	187	1.29	.3		
WL	D	3	69	6.4	566	530	265			95	5			3	97	32	8	75	0.57	7.1	
WL	D	4	24	3.5	189	182	91		72	28			31	23	45	23	5	27	0.25	6.8	
WL Totals			13	5.4	814	770	385		17	72	11			7	7	85	28	7	54	0.46	14.2
LP	D	3	75	14.3	12	10	5			100				100	32	7	60	0.46	.2		
LP	D	4	25		3	3	2		100				100		20	5	20	0.20	.2		
LP Totals			0	11.1	15	14	7		25	75				25		75	26	6	40	0.36	.3
Totals				5.2	6,392	6,058	3,030		6	60	32	2		6	8	86	27	8	78	0.68	77.4

TC PSTATS											PROJECT STATISTICS					PAGE	1	
											PROJECT		NEON			DATE	9/4/2019	
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt							
35N	27E	14	NEON	00U8	THR	500.20		356	1,170	S	E							
36N	28E	28	NEON	00U9														
											ESTIMATED TOTAL		PERCENT SAMPLE					
			PLOTS	TREES	TREES PER PLOT		TREES	TREES										
TOTAL			356	1170	3.3													
CRUISE			188	273	1.5		22,986	1.2										
DBH COUNT REFOREST																		
COUNT			136	350	2.6													
BLANKS			32															
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								
P PINE		158	23.6	15.4	55	7.8	30.4	3,564	3,376	780	780							
DOUG FIR		85	14.5	14.5	64	4.4	16.6	1,999	1,898	472	472							
W LARCH		29	7.7	12.1	80	1.8	6.2	814	770	180	180							
LP PINE		1	.2	10.8	78	0.0	.1	15	14	3	3							
TOTAL		273	46.0	14.6	62	14.0	53.3	6,392	6,058	1,436	1,436							
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		61.2	5.1	230	242	255												
DOUG FIR		67.3	7.4	192	207	222												
W LARCH		64.5	12.2	118	134	150												
LP PINE																		
TOTAL		65.7	4.1	209	218	227	172	43	19									
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		53.8	4.4	52	54	57												
DOUG FIR		59.5	6.5	47	50	53												
W LARCH		57.7	10.9	28	31	35												
LP PINE																		
TOTAL		58.0	3.6	48	50	52	134	34	15									
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		97.5	5.2	22	24	25												
DOUG FIR		133.3	7.1	13	14	15												
W LARCH		262.4	13.9	7	8	9												
LP PINE		1332.3	70.6	0	0	0												
TOTAL		51.2	2.7	45	46	47	105	26	12									
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		81.7	4.3	29	30	32												
DOUG FIR		116.4	6.2	16	17	18												
W LARCH		245.5	13.0	5	6	7												
LP PINE		1332.3	70.6	0	0	0												
TOTAL		27.7	1.5	52	53	54	31	8	3									
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		86.2	4.6	3,222	3,376	3,530												
DOUG FIR		120.3	6.4	1,777	1,898	2,019												
W LARCH		247.6	13.1	669	770	871												
LP PINE		1332.3	70.6	4	14	23												

TC PSTATS		PROJECT STATISTICS							PAGE	2	
		PROJECT		NEON			DATE		9/4/2019		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
35N	27E	14	NEON	00U8	THR	500.20	356	1,170	S	E	
36N	28E	28	NEON	00U9							
CL	68.1		COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.		
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
TOTAL			33.9	1.8	5,949	6,058	6,167	46	11	5	
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			83.6	4.4	746	780	815				
DOUG FIR			117.5	6.2	442	472	501				
W LARCH			243.8	12.9	157	180	204				
LP PINE			1332.3	70.6	1	3	5				
TOTAL			29.5	1.6	1,413	1,436	1,458	35	9	4	
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					106	111	116				
DOUG FIR					107	114	122				
W LARCH			63.6	3.4	109	125	141				
LP PINE			939.4	49.7	37	126	214				
TOTAL			34.3	1.8	112	114	116	47	12	5	

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

T35N R27E S14 Ty00U8	39.2
T35N R28E S32 Ty00U4	74.8
T36N R28E S28 Ty00U	36.4

Project NEON
Acres 500.20

Page No 1
Date: 9/4/2019
Time 2:23:08PM

Species	Total	Total	Total	Net Cubic Ft/		CF/	Total CCF		Total MBF	
	Trees	Logs	Tons	Tree	Log	LF	Gross	Net	Gross	Net
P PINE	11,814	19,557	9,369	33.04	19.96	0.76	3,904	3,903	1,783	1,689
DOUG FIR	7,239	11,862	6,727	32.61	19.90	0.73	2,360	2,360	1,000	950
W LARCH	3,849	7,108	2,164	23.43	12.69	0.46	902	902	407	385
LP PINE	85	169	38	18.87	9.44	0.36	16	16	8	7
Totals	22,986	38,697	18,298	31.24	18.56	0.69	7,182	7,181	3,197	3,030

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	22,986	38,697	18,298	31.24	18.56	0.69	7,182	7,181	3,197	3,030
Totals	22,986	38,697	18,298	31.24	18.56	0.69	7,182	7,181	3,197	3,030

T35N R27E S14 T00U8										T35N R27E S14 T00U8				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
35N	27E	14	NEON	00U8	39.20	27	31	S	E					

Spp	T	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	5	100	11.3	4,426	3,925	154	100				7	9	84	29	7	59	0.55	66.8						
PP	Totals			68	11.3	4,426	3,925	154	100				7	9	84	29	7	59	0.55	66.8						
DF		D	2	16	27.1	408	297	12	100				100				32	12	138	1.32	2.1					
DF		D	3	40	3.4	750	725	28	100				100				32	9	104	0.79	6.9					
DF		D	4	44		799	799	31	82	18			4	96		28	5	31	0.31	25.4						
DF	Totals			32	6.9	1,958	1,822	71	36	48	16		2	42	56	29	6	53	0.49	34.5						
Type Totals					10.0	6,384	5,747	225	11	83	5		5	20	75	29	7	57	0.53	101.3						

T35N R28E S32 T00U4										T35N R28E S32 T00U4				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
35N	28E	32	NEON	00U4	74.80	50	61	S	E					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
								Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf		
PP	D	4	11	8.3	253	232	17	100				100				32	13	220	1.66	1.1	
PP	D	5	89	9.1	2,030	1,846	138	100				20	9	70	23	7	43	0.53	42.7		
PP	Totals		60	9.0	2,283	2,078	155	89	11	18	8	74	23	7	47	0.57	43.8				
DF	D	2	40	4.1	547	525	39	100				100				32	14	251	1.69	2.1	
DF	D	3	33	4.3	442	423	32	100				100				32	8	86	0.74	4.9	
DF	D	4	27	15.2	412	349	26	74	26	47	18	35	24	6	27	0.38	13.0				
DF	Totals		37	7.4	1,401	1,297	97	20	40	40	13	5	82	27	7	65	0.65	20.0			
WL	D	2	50		47	47	4	100				100				32	13	210	1.25	.2	
WL	D	3	41	13.6	45	39	3	100				100				32	7	64	0.65	.6	
WL	D	4	9		8	8	1	100				100					20	6	20	0.27	.4
WL	Totals		3	6.1	100	94	7	50	50	8		92	28	8	76	0.69	1.2				
Type Totals				8.3	3,784	3,469	259	7	69	23	16	7	77	24	7	53	0.60	65.0			

T35N R28E S32 T00U5										T35N R28E S32 T00U5				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
35N	28E	32	NEON	00U5	55.70	37	43	S	E					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
								Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	
PP	D	4	46	6.2	1,158	1,086	61	100				100				32	12	197	1.39	5.5
PP	D	5	54	3.4	1,292	1,248	69	100				11	18	71	25	7	65	0.60	19.3	
PP	Totals		50	4.7	2,449	2,334	130	53	47	6	10	84	26	9	94	0.81	24.8			
DF	D	2	24	18.7	652	530	30	100				100				32	15	251	2.14	2.1
DF	D	3	54	2.8	1,237	1,202	67	100				100				32	9	119	0.89	10.1
DF	D	4	22		474	474	26	88	12	28	45	27	24	5	31	0.33	15.1			
DF	Totals		47	6.6	2,363	2,206	123	19	57	24	6	10	84	28	7	81	0.73	27.3		
WL	D	2	75		111	111	6	100				100				32	12	180	1.28	.6
WL	D	3	25		37	37	2	100				100				30	6	60	0.49	.6
WL	Totals		3		148	148	8	25	75	25	75	31	9	120	0.90	1.2				
Type Totals				5.5	4,961	4,689	261	9	54	37	6	10	84	27	8	88	0.77	53.4		

T35N R28E S32 T00U6										T35N R28E S32 T00U6				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
35N	28E	32	NEON	00U6	72.00	55	51	S	E					

Spp	T	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre		
									Net	Def%	Gross	Net	Log Scale Dia.				Log Length					Ln	Dia
					4-5	6-11	12-16						17+	12-20	21-30	31-35	36-99	Ft	In	Ft			
PP		D	4	45	3.6	836	806	58	100				100				32	13	217	1.40	3.7		
PP		D	5	55	3.9	1,015	975	70	84	16					19	5	76	25	7	61	0.57	16.0	
PP	Totals			54	3.8	1,851	1,781	128	46	54					10	3	87	27	8	90	0.76	19.7	
DF		D	2	10		161	161	12	100				100				32	15	320	2.46	.5		
DF		D	3	75	5.3	1,180	1,118	80	84	16									32	9	111	0.93	10.1
DF		D	4	15	9.5	246	223	16	48	52					19	13	68	24	5	29	0.40	7.6	
DF	Totals			46	5.4	1,587	1,501	108	7	70	23					3	2	95	29	8	82	0.79	18.3
Type Totals					4.5	3,437	3,282	236	3	57	40					7	2	91	28	8	86	0.77	38.0

T35N R28E S32 T00U7										T35N R28E S32 T00U7				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
35N	28E	32	NEON	00U7	49.40	35	42	S	E					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre		
								Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/ Lf			
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf			
DF	D	2	30	10.0	1,118	1,006	50	100				100				32	14	239	1.91	4.2		
DF	D	3	61	2.9	2,089	2,029	100	88 12				3 97				32	9	109	0.78	18.5		
DF	D	4	9		294	294	15	45	55					56	16	28	18	5	20	0.32	14.5	
DF	Totals		67	4.9	3,500	3,329	164	4	59	37					5	4	92	26	8	89	0.81	37.2
PP	D	4	68	2.3	911	890	44	100				100				32	13	234	1.48	3.8		
PP	D	5	32		418	418	21	100				11	18	71	24	7	64	0.57	6.6			
PP	Totals		26	1.6	1,329	1,309	65	32	68					4	6	91	27	10	126	0.97	10.4	
WL	D	2	37	4.8	131	125	6	100				100				32	13	200	1.34	.6		
WL	D	3	48	3.7	168	161	8	100				100				32	10	116	0.89	1.4		
WL	D	4	15		51	51	2	100				25	75			26	6	36	0.35	1.4		
WL	Totals		7	3.6	350	337	17	63	37					4	96			29	9	99	0.79	3.4
Type Totals				3.9	5,179	4,975	246	3	52	45					4	4	92	27	8	98	0.84	51.0

T35N R28E S36 T00U1										T35N R28E S36 T00U1				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
35N	28E	36	NEON	00U1	58.90	41	87	S	E					

Spp	S	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
									Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
					Def%	Gross	Net		Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	
PP	D		4	38	2.4	2,929	2,858	168			91	9			100	32	14	272	1.62	10.5	
PP	D		5	62	3.1	4,636	4,493	265			95	5		4	8	88	28	8	92	0.73	48.8
PP	Totals			67	2.8	7,565	7,352	433			58	38	4	2	5	93	29	9	124	0.90	59.3
DF	D		2	44	3.5	1,095	1,057	62			100				100	32	13	218	1.49	4.9	
DF	D		3	51	3.8	1,254	1,207	71			100				13	87	31	8	96	0.72	12.6
DF	D		4	5	16.2	141	118	7	74	26			45		55	22	5	22	0.29	5.5	
DF	Totals			22	4.4	2,490	2,381	140	4	52	44		2	7	91	29	8	104	0.82	22.9	
WL	D		2	19		226	226	13			100				100	32	12	180	1.28	1.3	
WL	D		3	57	6.2	724	679	40		100					100	32	8	78	0.67	8.7	
WL	D		4	24		272	272	16	100				24	35	41	26	5	31	0.26	8.7	
WL	Totals			11	3.7	1,221	1,177	69	23	58	19		6	8	86	29	7	63	0.55	18.6	
Type Totals					3.3	11,276	10,909	643	3	57	38	2	3	6	92	29	9	108	0.82	100.8	

T35N R28E S36 T00U2	T35N R28E S36 T00U2
Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt	BdFt
35N 28E 36 NEON 00U2 95.70 71 111 S	E

Spp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre	
								Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/Lf		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						Ft
PP	D	4	47	7.1	2,044	1,898	182		87	13			100				32	13	237	1.65	8.0
PP	D	5	53	3.0	2,173	2,107	202		95	5			11	18	70		26	7	62	0.55	33.8
PP	Totals		51	5.0	4,217	4,005	383		50	44	6		6	10	84		27	8	96	0.80	41.9
WL	D	3	74	6.2	2,255	2,116	202		93	7			3	97			32	8	75	0.55	28.3
WL	D	4	26	4.6	742	707	68	67	33				32	20	48		22	5	26	0.25	27.5
WL	Totals		36	5.8	2,996	2,823	270	17	78	5			8	7	85		27	7	51	0.42	55.8
DF	D	2	37	3.2	378	365	35			100				100			32	13	247	1.99	1.5
DF	D	3	58		559	559	54		100					100			32	7	74	0.59	7.6
DF	D	4	5	.0	44	44	4	78	22				100				19	5	22	0.29	2.0
DF	Totals		12	1.2	981	969	93	4	59	38			5		95		30	8	87	0.76	11.1
LP	D	3	75	14.3	62	53	5		100					100			32	7	60	0.46	.9
LP	D	4	25		18	18	2	100					100				20	5	20	0.20	.9
LP	Totals		1	11.1	80	71	7	25	75				25		75		26	6	40	0.36	1.8
Type Totals				4.9	8,274	7,868	753	7	61	29	3		7	7	86		27	7	71	0.60	110.5

T35N R28E S36 T00U3										T35N R28E S36 T00U3				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
35N	28E	36	NEON	00U3	18.10	15	44	S	E					

Spp	So	Gr	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
								Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	
PP	D	4	40	3.2	3,998	3,870	70		87	13			100	32	14	278	1.88	13.9		
PP	D	5	60	3.9	5,963	5,731	104		96	4			14	34	52	25	7	63	0.57	91.5
PP	Totals		89	3.6	9,961	9,601	174		57	38	5		8	20	71	26	8	91	0.78	105.4
WL	D	3	69	13.5	619	535	10		100				100	32	7	56	0.48	9.6		
WL	D	4	31		234	234	4	100					46	54		23	5	24	0.22	9.6
WL	Totals		7	9.8	853	769	14	30	70				14	16	70	27	6	40	0.37	19.2
DF	D	2	48		211	211	4		100				100	32	13	240	1.66	.9		
DF	D	3	18		79	79	1		100				100	32	7	90	0.59	.9		
DF	D	4	34		150	150	3	100					100	16	5	20	0.20	7.5		
DF	Totals		4		440	440	8	34	18	48			34		66	19	6	48	0.50	9.2
Type Totals					3.9	11,254	10,811	196	4	56	35	5	10	19	71	26	8	81	0.71	133.8

T36N R28E S28 T00U9										T36N R28E S28 T00U9				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
36N	28E	28	NEON	00U9	36.40	25	40	S	E					

Spp	S	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs						
									Net	BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
															4-5	6-11	12-16	17+	12-20	21-30		31-35					36-99
DF	D	2		31		1,245	1,245	45			73	27			100			32	14	277	1.68	4.5					
DF	D	3		56	7.4	2,392	2,215	81		89	11			100			32	8	96	0.71	23.1						
DF	D	4		13		517	517	19	97	3			24	59	17		20	5	25	0.33	20.7						
DF	Totals			69	4.3	4,154	3,977	145	13	50	29	8	3	8	89		27	7	82	0.69	48.3						
PP	D	4		32		592	592	22			100			100			32	12	190	1.38	3.1						
PP	D	5		68	13.8	1,428	1,231	45		100			9	91			29	7	54	0.52	22.9						
PP	Totals			31	9.8	2,021	1,823	66		68	32		6	94			29	8	70	0.63	26.0						
Type Totals					6.1	6,175	5,801	211	9	56	30	6	4	5	91		28	8	78	0.67	74.3						

Log Stock Table - MBF

T35N R27E S14 Ty00U8
 THRU
 T36N R28E S28 Ty00U9

Project: NEON
Acres 500.20

Page 1
Date 9/4/2019
Time 2:23:07PM

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
PP		D	4	32	651	4.5	621	36.8				362	185	74				
PP		D	5	12	8		8	.5			7	0						
PP		D	5	14	21	10.5	19	1.1			19							
PP		D	5	16	21	1.0	21	1.2			21							
PP		D	5	18	15		15	.9			15							
PP		D	5	20	53	6.1	50	3.0			33	4	11	2				
PP		D	5	24	67		67	3.9			33	18	11	4				
PP		D	5	26	6		6	.3			5	1						
PP		D	5	28	31	1.4	30	1.8			30							
PP		D	5	30	42	11.6	37	2.2			34		3					
PP		D	5	32	868	6.1	815	48.2			202	315	266	32				
PP		Totals			1,783	5.3	1,689	55.7			400	338	291	401	185	74		
DF		D	2	32	310	7.0	288	30.3					149	109	30			
DF		D	3	26	3		3	.4				3						
DF		D	3	28	3		3	.3			3							
DF		D	3	30	7		7	.7			7							
DF		D	3	32	523	4.0	502	52.8			143	142	183	33				
DF		D	4	12	6		6	.7			5	1	1					
DF		D	4	14	5		5	.5			3	2						
DF		D	4	16	11		11	1.1			10	1						
DF		D	4	18	4		4	.5			3	2						
DF		D	4	20	21	6.3	20	2.1			9	6	5					
DF		D	4	26	14		14	1.5			12	2						
DF		D	4	28	34	7.0	31	3.3			27	5						
DF		D	4	30	17		17	1.8			17							
DF		D	4	32	42	9.4	38	4.0			27	11						
DF		Totals			1,000	5.1	950	31.3			112	182	151	183	182	109	30	
WL		D	2	32	30	1.0	29	7.6					29					
WL		D	3	24	5		5	1.3				5						
WL		D	3	30	2		2	.5			2							
WL		D	3	32	276	6.6	258	66.9			88	101	56	14				
WL		D	4	12	2		2	.5			2							
WL		D	4	14	3		3	.8			3							
WL		D	4	16	9	22.3	7	1.7			7							
WL		D	4	18	4		4	1.0			3	1						

Log Stock Table - MBF

T35N R27E S14 Ty00U8
 THRU
 T36N R28E S28 Ty00U9

Project: NEON
Acres 500.20

Page 2
Date 9/4/2019
Time 2:23:07PM

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+		
WL		D	4	20	13		13	3.4		12	1											
WL		D	4	24	4		4	1.0		4												
WL		D	4	26	8		8	2.0		8												
WL		D	4	28	6		6	1.4		6												
WL		D	4	30	6	25.0	4	1.1		4												
WL		D	4	32	41		41	10.7		17	24											
WL		Totals			407	5.4	385	12.7		66	115	106	56	43								
LP		D	3	32	6	14.3	5	75.0		5												
LP		D	4	20	2		2	25.0		2												
LP		Totals			8	11.1	7	.2		2	5											
Total		All Species			3,197	5.2	3,030	100.0		179	702	595	530	626	294	104						

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	27E	14	NEON	00U8	39.20	27	79	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL		27	79	2.9						
CRUISE		12	19	1.6	2,849		.7			
DBH COUNT										
REFOREST										
COUNT		12	25	2.1						
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
P PINE	11	47.3	13.5	50	12.9	47.3	4,426	3,925	1,059	1,059
DOUG FIR	8	25.4	11.9	60	5.7	19.5	1,958	1,822	486	486
TOTAL	19	72.7	13.0	54	18.6	66.9	6,384	5,747	1,545	1,545
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		57.9	18.3	74	91	108				
DOUG FIR		70.0	26.4	83	113	142				
TOTAL		63.8	15.0	85	100	115	172	43	19	
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		44.4	14.0	21	25	28				
DOUG FIR		68.1	25.7	22	30	38				
TOTAL		57.2	13.5	23	27	30	138	35	15	
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		74.9	14.7	40	47	54				
DOUG FIR		143.9	28.2	18	25	33				
TOTAL		44.1	8.6	66	73	79	81	20	9	
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		70.6	13.8	41	47	54				
DOUG FIR		129.6	25.4	15	20	25				
TOTAL		40.3	7.9	62	67	72	68	17	8	
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		78.9	15.5	3,318	3,925	4,532				
DOUG FIR		135.6	26.6	1,337	1,822	2,306				
TOTAL		49.1	9.6	5,194	5,747	6,299	100	25	11	
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		76.4	15.0	900	1,059	1,218				
DOUG FIR		132.8	26.0	360	486	613				
TOTAL		48.5	9.5	1,398	1,545	1,692	98	24	11	
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				70	83	96				
DOUG FIR		23.1	4.5	68	93	118				
TOTAL		367.2	72.0	78	86	94	5,596	1,399	622	

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	NEON			DATE	9/4/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
35N	28E	32	NEON	00U4	74.80	50	138	S	E		
		PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL		50	138	2.8							
CRUISE		23	33	1.4	3,749	.9					
DBH COUNT											
REFOREST											
COUNT		20	46	2.3							
BLANKS		7									
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	
P PINE	22	33.5	12.5	44	8.0	28.4	2,283	2,078	575	573	
DOUG FIR	9	16.0	12.8	56	4.0	14.4	1,401	1,297	347	347	
W LARCH	2	.6	15.4	73	0.2	.8	100	94	24	24	
TOTAL	33	50.1	12.6	49	12.3	43.6	3,784	3,469	946	945	
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	85.3	19.1		78	97	115					
DOUG FIR	103.9	36.7		99	156	213					
W LARCH	78.6	73.6		48	180	312					
TOTAL	95.3	16.8		98	118	138	363	91	40		
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	71.2	15.9		22	26	30					
DOUG FIR	87.0	30.7		26	38	50					
W LARCH	48.9	45.8		23	43	63					
TOTAL	77.5	13.7		26	31	35	240	60	27		
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	87.3	12.3		29	33	38					
DOUG FIR	132.0	18.6		13	16	19					
W LARCH	513.5	72.6		0	1	1					
TOTAL	46.1	6.5		47	50	53	85	21	9		
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	84.3	11.9		25	28	32					
DOUG FIR	128.7	18.2		12	14	17					
W LARCH	494.9	69.9		0	1	1					
TOTAL	41.1	5.8		41	44	46	68	17	8		
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	90.2	12.7		1,813	2,078	2,342					
DOUG FIR	128.2	18.1		1,062	1,297	1,532					
W LARCH	522.9	73.9		25	94	163					
TOTAL	44.9	6.3		3,249	3,469	3,689	80	20	9		
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	87.0	12.3		503	573	644					
DOUG FIR	127.6	18.0		285	347	410					
W LARCH	496.6	70.2		7	24	41					
TOTAL	41.0	5.8		890	945	999	67	17	7		

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	28E	32	NEON	00U4	74.80	50	138	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	
P PINE				64	73	82				
DOUG FIR				74	90	106				
W LARCH		522.9	73.9	31	117	204				
TOTAL		<i>346.6</i>	<i>49.0</i>	75	80	85	<i>4,797</i>	<i>1,199</i>	<i>533</i>	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	NEON		DATE	9/4/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	28E	32	NEON	00U5	55.70	37	96	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
		PLOTS	TREES	PER PLOT	TREES	TREES				
TOTAL		37	96	2.6						
CRUISE		19	24	1.3	1,593	1.5				
DBH COUNT										
REFOREST										
COUNT		15	33	2.2						
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
P PINE	10	11.5	18.1	66	4.8	20.5	2,449	2,334	533	533
DOUG FIR	13	16.4	14.7	63	5.1	19.5	2,363	2,206	554	554
W LARCH	1	.6	17.9	65	0.3	1.1	148	148	34	34
TOTAL	24	28.6	16.2	64	10.2	41.1	4,961	4,689	1,121	1,121
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	36.2	12.1		194	221	248				
DOUG FIR	66.1	19.1		172	212	253				
W LARCH										
TOTAL	52.2	10.9		193	217	241	114	28	13	
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	36.9	12.3		44	51	57				
DOUG FIR	67.2	19.4		43	54	64				
W LARCH										
TOTAL	54.6	11.4		47	53	59	124	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	
P PINE	88.7	14.6		10	12	13				
DOUG FIR	86.0	14.1		14	16	19				
W LARCH	424.1	69.7		0	1	1				
TOTAL	30.3	5.0		27	29	30	37	9	4	
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	87.4	14.3		18	21	23				
DOUG FIR	74.6	12.3		17	19	22				
W LARCH	424.1	69.7		0	1	2				
TOTAL	22.8	3.7		40	41	43	21	5	2	
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	87.7	14.4		1,998	2,334	2,670				
DOUG FIR	76.2	12.5		1,930	2,206	2,483				
W LARCH	424.1	69.7		45	148	252				
TOTAL	24.7	4.1		4,498	4,689	4,879	24	6	3	
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	87.7	14.4		456	533	610				
DOUG FIR	76.0	12.5		485	554	623				
W LARCH	424.1	69.7		10	34	58				
TOTAL	23.5	3.9		1,078	1,121	1,164	22	6	2	

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
35N	28E	32	NEON	00U5	55.70		37	96	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	
P PINE				97	114	130				
DOUG FIR				99	113	128				
W LARCH		291.2	47.8	42	137	233				
TOTAL		313.5	51.5	109	114	119	3,924	981	436	

TC TSTATS				STATISTICS						PAGE	1
				PROJECT	NEON		DATE 9/4/2019				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
35N	28E	32	NEON	00U6	72.00	55	116	S	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
				PLOTS	TREES	TREES	TREES				
TOTAL		55	116	2.1							
CRUISE		18	21	1.2	1,745		1.2				
DBH COUNT											
REFOREST											
COUNT		28	58	2.1							
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	
P PINE	12	13.7	14.6	50	4.2	16.0	1,851	1,781	398	398	
DOUG FIR	9	10.5	15.7	67	3.6	14.2	1,587	1,501	414	414	
TOTAL	21	24.2	15.1	58	7.8	30.2	3,437	3,282	812	813	
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		62.6	18.8	168	207	246					
DOUG FIR		68.6	24.2	138	182	226					
TOTAL		63.7	14.2	168	196	224	170	43	19		
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		61.4	18.5	37	46	54					
DOUG FIR		54.4	19.2	40	49	59					
TOTAL		57.0	12.7	41	47	53	136	34	15		
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		112.2	15.1	12	14	16					
DOUG FIR		130.4	17.6	9	11	12					
TOTAL		67.7	9.1	22	24	26	183	46	20		
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		106.0	14.3	14	16	18					
DOUG FIR		129.2	17.4	12	14	17					
TOTAL		63.6	8.6	28	30	33	162	40	18		
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		109.7	14.8	1,518	1,781	2,044					
DOUG FIR		133.6	18.0	1,231	1,501	1,771					
TOTAL		66.4	8.9	2,988	3,282	3,575	176	44	20		
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		108.3	14.6	340	398	456					
DOUG FIR		130.5	17.6	342	414	487					
TOTAL		66.2	8.9	740	813	885	175	44	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		
P PINE				95	111	128					
DOUG FIR				87	106	125					
TOTAL		465.6	62.7	99	109	118	8,655	2,164	962		

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	28E	32	NEON	00U7	49.40	35	88	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		35	88	2.5						
CRUISE		14	18	1.3	1,110		1.6			
DBH COUNT										
REFOREST										
COUNT		16	36	2.3						
BLANKS		5								
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	12	17.3	16.5	72	6.3	25.7	3,500	3,329	800	800
P PINE	4	3.8	20.3	76	1.9	8.6	1,329	1,309	269	269
W LARCH	2	1.4	17.4	87	0.5	2.3	350	337	79	79
TOTAL	18	22.5	17.3	73	8.8	36.6	5,179	4,975	1,148	1,148
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	49.1	14.8		206	242	277				
P PINE	19.9	11.4		310	350	390				
W LARCH	39.6	37.1		157	250	343				
TOTAL	42.2	10.2		239	267	294	75	19	8	
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	47.9	14.4		50	58	67				
P PINE	17.5	10.0		65	72	79				
W LARCH	30.1	28.2		42	58	75				
TOTAL	39.5	9.6		56	61	67	66	16	7	
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	83.9	14.2		15	17	20				
P PINE	198.6	33.5		3	4	5				
W LARCH	283.2	47.8		1	1	2				
TOTAL	48.5	8.2		21	22	24	94	23	10	
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	79.1	13.4		22	26	29				
P PINE	198.4	33.5		6	9	11				
W LARCH	282.5	47.7		1	2	3				
TOTAL	40.9	6.9		34	37	39	67	17	7	
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	79.5	13.4		2,883	3,329	3,776				
P PINE	199.7	33.7		867	1,309	1,750				
W LARCH	285.3	48.2		175	337	499				
TOTAL	42.2	7.1		4,620	4,975	5,330	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	
DOUG FIR	78.9	13.3		693	800	907				
P PINE	198.9	33.6		179	269	360				
W LARCH	283.6	47.9		41	79	117				
TOTAL	41.1	6.9		1,069	1,148	1,228	67	17	7	

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
35N	28E	32	NEON	00U7	49.40		35	88	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				112	129	147				
P PINE				101	153	204				
W LARCH		190.6	32.2	76	147	219				
TOTAL		375.6	63.4	126	136	146	5,633	1,408	626	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	NEON		DATE	9/4/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	28E	36	NEON	00U1	58.90	41	212	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		41	212	5.2						
CRUISE		29	40	1.4	2,871		1.4			
DBH COUNT										
REFOREST										
COUNT		12	58	4.8						
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	25	28.6	18.5	66	12.4	53.2	7,565	7,352	1,548	1,548
DOUG FIR	11	11.5	17.0	73	4.4	18.0	2,490	2,381	552	552
W LARCH	4	8.7	14.0	84	2.5	9.3	1,221	1,177	297	298
TOTAL	40	48.8	17.4	71	19.3	80.5	11,276	10,909	2,397	2,397
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	46.4	9.5		267	295	323				
DOUG FIR	38.2	12.1		206	235	263				
W LARCH	65.4	37.4		99	158	216				
TOTAL	48.4	7.6		244	265	285	94	23	10	
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	38.4	7.8		56	61	66				
DOUG FIR	31.4	9.9		48	54	59				
W LARCH	48.3	27.6		28	39	49				
TOTAL	38.8	6.1		53	57	60	60	15	7	
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	9.4	1.5		28	29	29				
DOUG FIR	117.3	18.3		9	11	14				
W LARCH	162.2	25.3		6	9	11				
TOTAL				49	49	49				
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	6.6	1.0		53	53	54				
DOUG FIR	115.7	18.1		15	18	21				
W LARCH	160.7	25.1		7	9	12				
TOTAL				80	80	80				
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	13.4	2.1		7,197	7,352	7,506				
DOUG FIR	116.8	18.2		1,947	2,381	2,815				
W LARCH	161.7	25.2		880	1,177	1,473				
TOTAL				10,909	10,909	10,909				
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	10.2	1.6		1,523	1,548	1,572				
DOUG FIR	116.4	18.2		452	552	652				
W LARCH	160.9	25.1		223	298	372				
TOTAL				2,397	2,397	2,397				

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
35N	28E	36	NEON	00U1	58.90		41	212	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	
P PINE				135	138	141				
DOUG FIR				108	132	156				
W LARCH				95	127	159				
TOTAL		355.7	55.5	136	136	136	5,053	1,263	561	

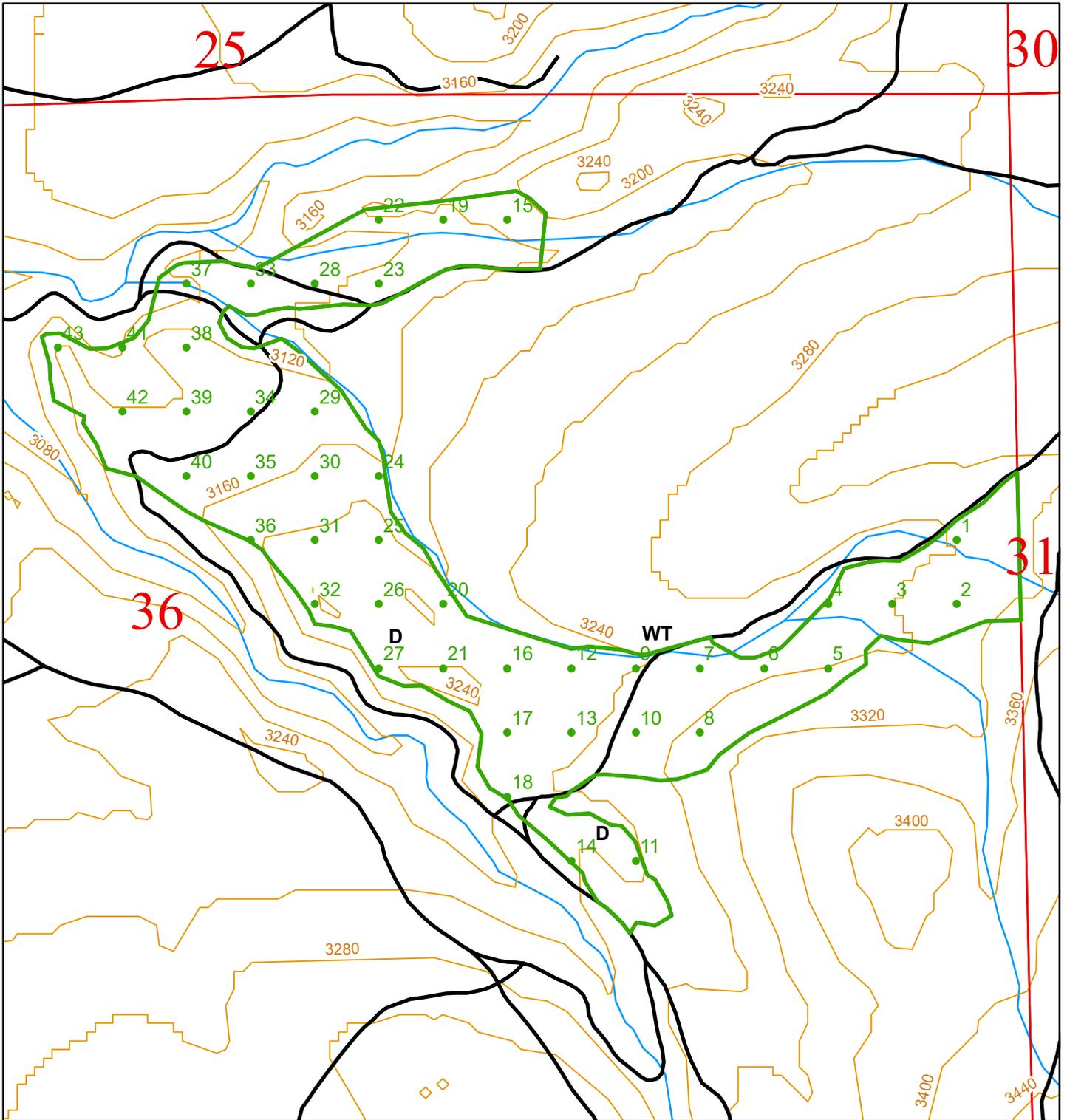
TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	NEON		DATE	9/4/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
35N	28E	36	NEON	00U2	95.70	71	276	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		71	276	3.9						
CRUISE		46	68	1.5	6.036		1.1			
DBH COUNT										
REFOREST										
COUNT		22	63	2.9						
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
P PINE	40	23.1	16.3	57	8.3	33.5	4,217	4,005	905	905
W LARCH	18	31.5	11.5	80	6.7	22.8	2,996	2,823	643	643
DOUG FIR	9	7.6	14.5	67	2.3	8.7	981	969	249	249
LP PINE	1	.9	10.8	78	0.2	.6	80	71	17	17
TOTAL	68	63.1	13.8	70	17.7	65.6	8,274	7,868	1,814	1,814
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		43.4	7.5	289	313	336				
W LARCH		64.7	15.7	94	111	129				
DOUG FIR		85.6	30.2	147	211	275				
LP PINE										
TOTAL		66.2	8.5	215	234	254	175	44	19	
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		37.9	6.6	66	70	75				
W LARCH		60.0	14.5	22	25	29				
DOUG FIR		74.8	26.4	38	52	66				
LP PINE										
TOTAL		61.0	7.8	49	53	58	149	37	17	
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		75.6	9.0	21	23	25				
W LARCH		115.2	13.7	27	32	36				
DOUG FIR		156.7	18.6	6	8	9				
LP PINE		591.5	70.1	0	1	2				
TOTAL		35.1	4.2	60	63	66	49	12	5	
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		62.8	7.4	31	34	36				
W LARCH		113.1	13.4	20	23	26				
DOUG FIR		153.6	18.2	7	9	10				
LP PINE		591.5	70.1	0	1	1				
TOTAL				66	66	66				
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		63.6	7.5	3,703	4,005	4,307				
W LARCH		115.5	13.7	2,437	2,823	3,210				
DOUG FIR		155.8	18.5	790	969	1,148				
LP PINE		591.5	70.1	21	71	121				
TOTAL				7,868	7,868	7,868				

TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
35N	28E	36	NEON	00U2	95.70		71	276	S	E
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	
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		62.3	7.4	839	905	972				
W LARCH		114.4	13.6	556	643	730				
DOUG FIR		155.3	18.4	203	249	294				
LP PINE		591.5	70.1	5	17	28				
TOTAL				<i>1,814</i>	<i>1,814</i>	<i>1,814</i>				
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				110	119	128				
W LARCH				107	124	141				
DOUG FIR				90	111	131				
LP PINE		412.2	48.9	38	126	214				
TOTAL		<i>323.1</i>	<i>38.3</i>	<i>120</i>	<i>120</i>	<i>120</i>	<i>4,168</i>	<i>1,042</i>	<i>463</i>	

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	NEON			DATE	9/4/2019		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
35N	28E	36	NEON	00U3	18.10	15	78	S	E		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
				TREES	TREES	TREES					
TOTAL		15	78	5.2							
CRUISE		15	35	2.3	1,431		2.4				
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	31	61.1	15.6	52	20.6	81.3	9,961	9,601	2,157	2,157	
W LARCH	2	9.6	11.3	79	2.0	6.7	853	769	195	195	
DOUG FIR	2	8.4	9.4	39	1.3	4.0	440	440	88	88	
TOTAL	35	79.1	14.6	54	24.1	92.0	11,254	10,811	2,439	2,439	
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	49.5	9.7	272	301	331						
W LARCH			80	80	80						
DOUG FIR	125.3	117.3		175	380						
TOTAL	56.4	10.1	251	279	307	127	32	14			
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	43.9	8.6	61	66	72						
W LARCH	25.3	23.7	16	21	26						
DOUG FIR	129.3	121.1		38	83						
TOTAL	51.0	9.1	56	62	67	104	26	12			
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			61	61	61						
W LARCH	147.1	39.3	6	10	13						
DOUG FIR	280.3	74.9	2	8	15						
TOTAL			79	79	79						
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			81	81	81						
W LARCH	146.4	39.1	4	7	9						
DOUG FIR	280.3	74.9	1	4	7						
TOTAL			92	92	92						
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			9,601	9,601	9,601						
W LARCH	147.1	39.3	467	769	1,071						
DOUG FIR	280.3	74.9	111	440	770						
TOTAL			10,811	10,811	10,811						
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			2,157	2,157	2,157						
W LARCH	146.5	39.1	119	195	271						
DOUG FIR	280.3	74.9	22	88	154						
TOTAL			2,439	2,439	2,439						

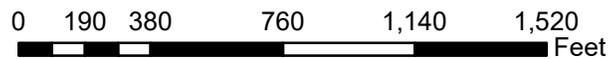
TC TSTATS				STATISTICS				PAGE	2	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
35N	28E	36	NEON	00U3	18.10		15	78	S	E
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15	
CL:	68.1 %	COEFF		V-BAR/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5	10	15	
P PINE				118	118	118				
W LARCH		48.6	13.0	70	115	161				
DOUG FIR		246.4	65.8	28	110	193				
TOTAL		141.7	37.8	118	118	118	859	215	95	

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	NEON			DATE	9/4/2019	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
36N	28E	28	NEON	00U9	36.40	25	87	S	E	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		25	87	3.5						
CRUISE		12	15	1.3	1,603		.9			
DBH COUNT										
REFOREST										
COUNT		11	31	2.8						
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	12	26.5	14.5	68	8.0	30.4	4,154	3,977	903	903
P PINE	3	17.5	14.2	63	5.1	19.2	2,021	1,823	478	478
TOTAL	15	44.0	14.4	66	13.1	49.6	6,175	5,801	1,381	1,381
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	61.6	20.5		219	275	331				
P PINE	86.1	59.6		58	143	229				
TOTAL	67.7	19.5		197	245	292	198	49	22	
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	46.0	15.3		51	60	69				
P PINE	70.0	48.4		18	35	52				
TOTAL	51.8	14.9		46	54	62	116	29	13	
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	68.1	13.9		23	27	30				
P PINE	130.2	26.5		13	18	22				
TOTAL	41.9	8.6		40	44	48	73	18	8	
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	57.4	11.7		27	30	34				
P PINE	129.3	26.4		14	19	24				
TOTAL	35.2	7.2		46	50	53	51	13	6	
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	61.1	12.5		3,482	3,977	4,473				
P PINE	129.9	26.5		1,340	1,823	2,306				
TOTAL	34.6	7.1		5,391	5,801	6,210	50	12	6	
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	58.6	12.0		795	903	1,011				
P PINE	129.4	26.4		352	478	604				
TOTAL	33.8	6.9		1,286	1,381	1,476	47	12	5	
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				115	131	147				
P PINE				70	95	120				
TOTAL	408.7	83.4		109	117	125	6,947	1,737	772	



FMA POLYGON AND SAMPLE POINT INFORMATION

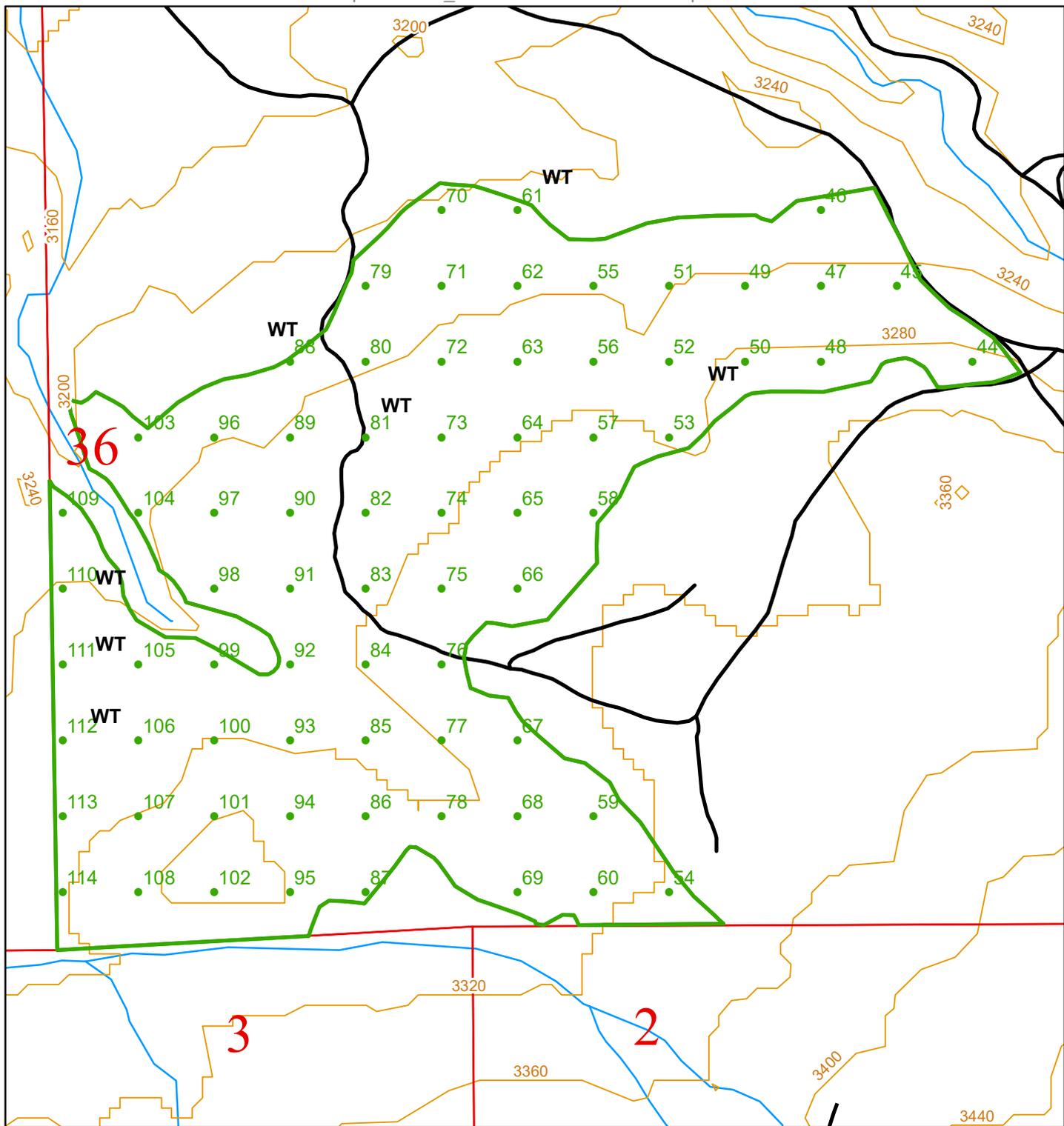
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FMA_ID:	247970	DNR Region:	NORTHEAST
Acres:	60	Total Sample Points:	43
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



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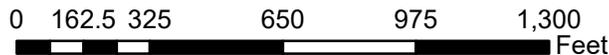
Legend

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



FMA POLYGON AND SAMPLE POINT INFORMATION

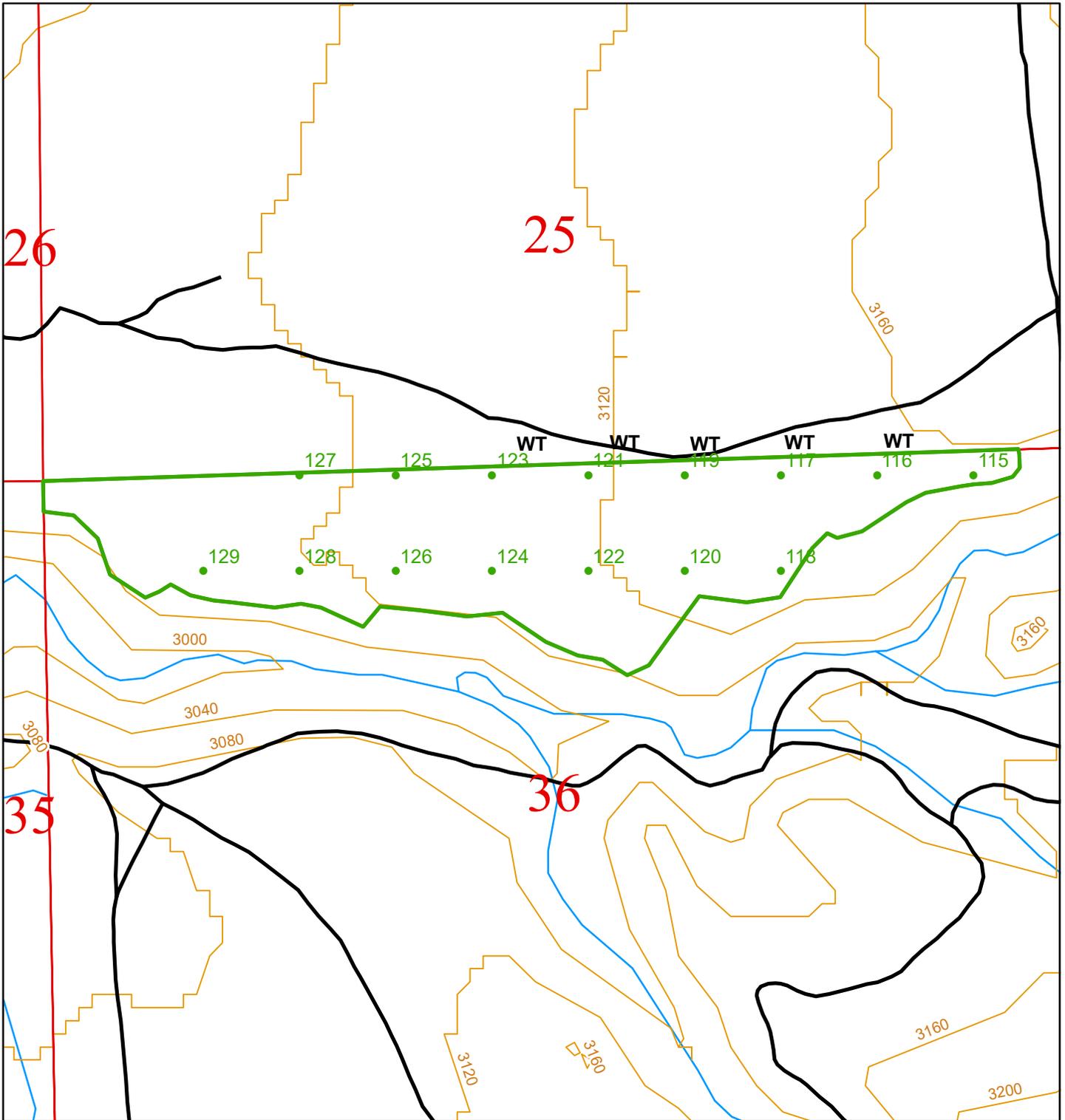
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Acres:	96	Total Sample Points:	71
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



Scale 1:5,600

Legend

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



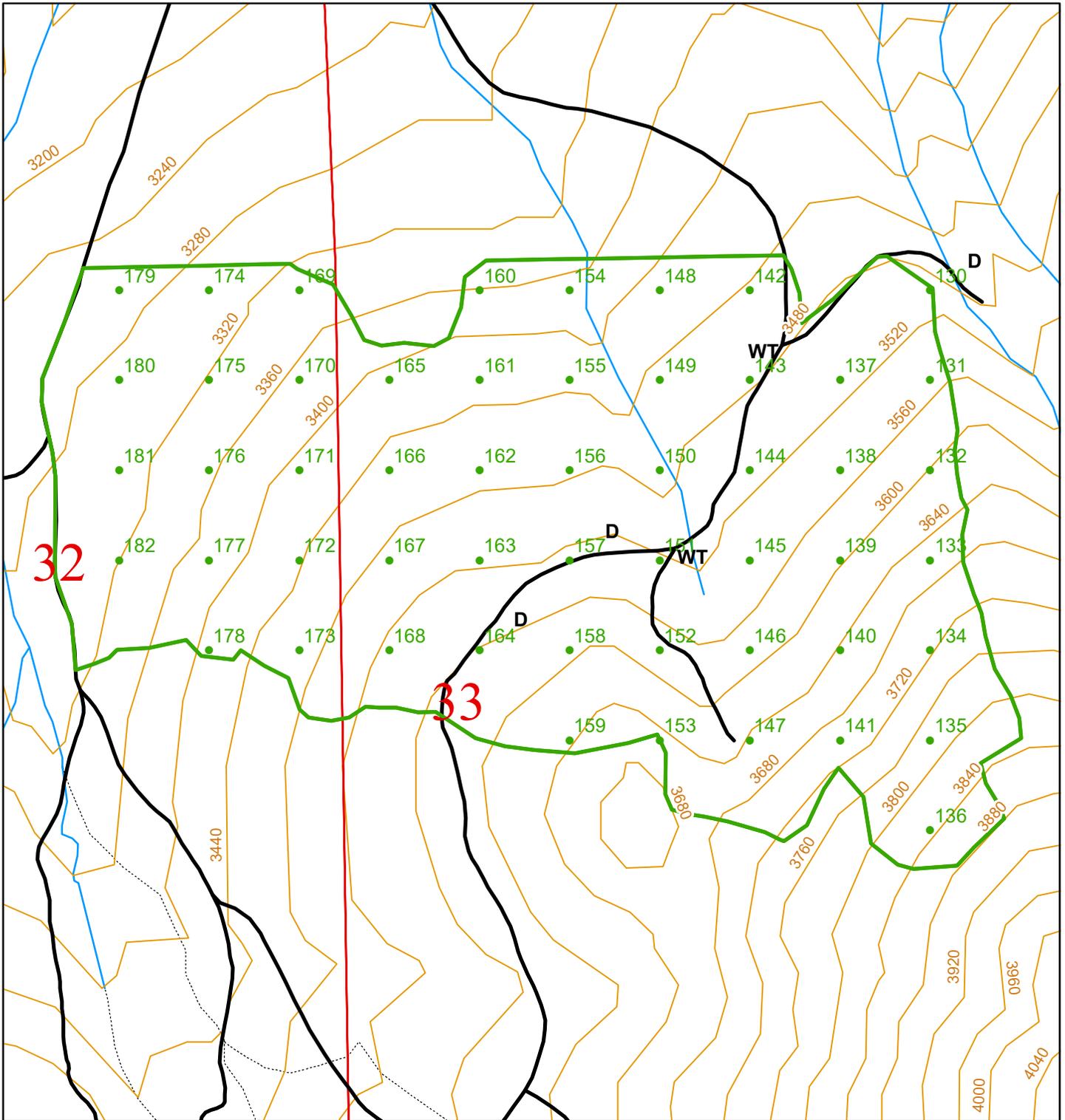
FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	NEON TS U3	Township:	T35R28E
FMA_ID:	313129	DNR Region:	NORTHEAST
Acres:	18	Total Sample Points:	15
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



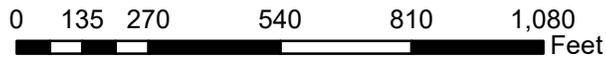
Legend

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



FMA POLYGON AND SAMPLE POINT INFORMATION

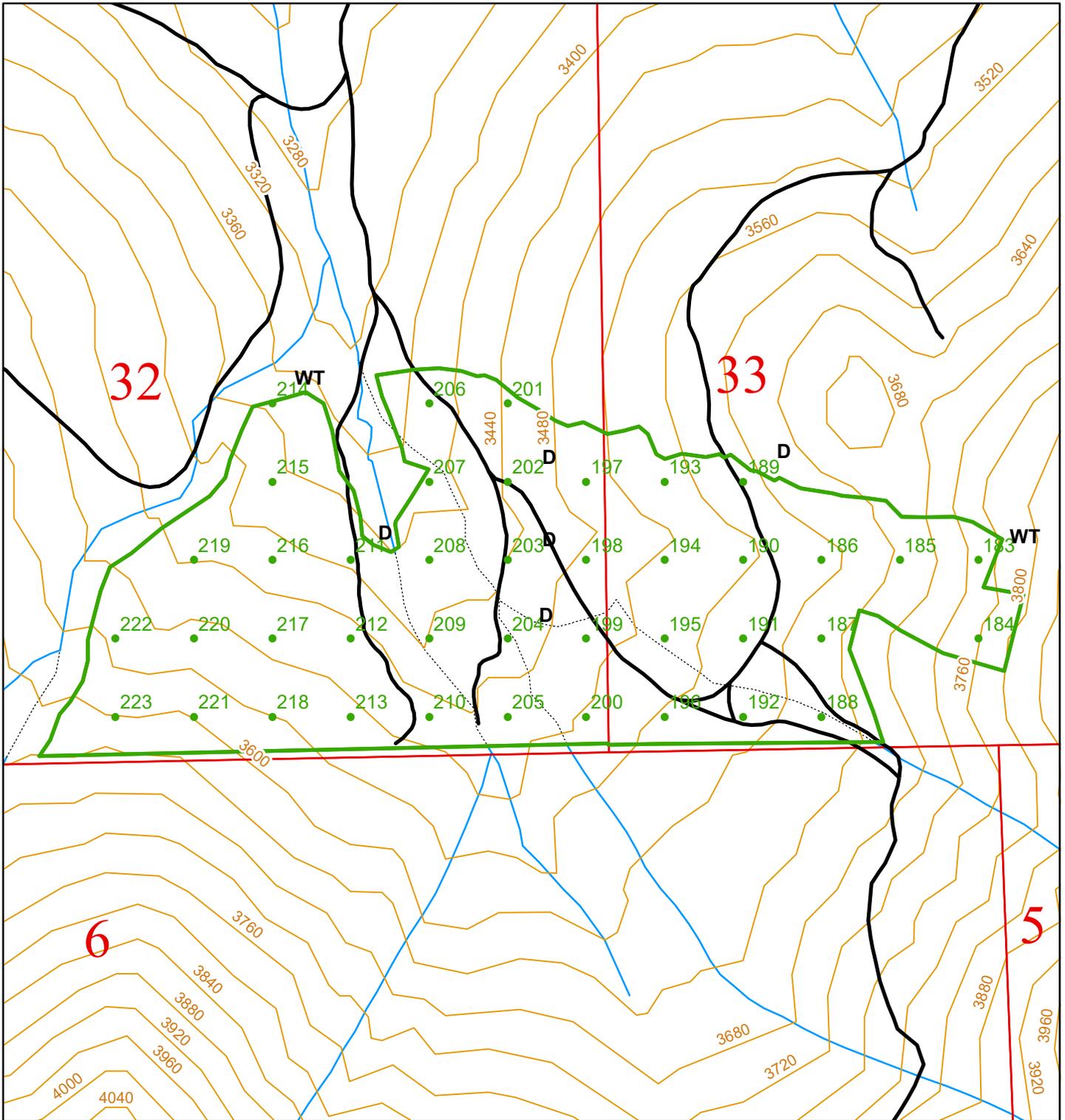
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FMA_ID:	313130	DNR Region:	NORTHEAST
Acres:	76	Total Sample Points:	53
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



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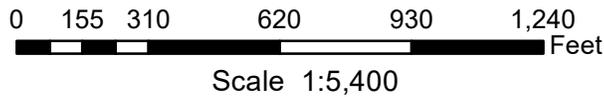
Legend

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



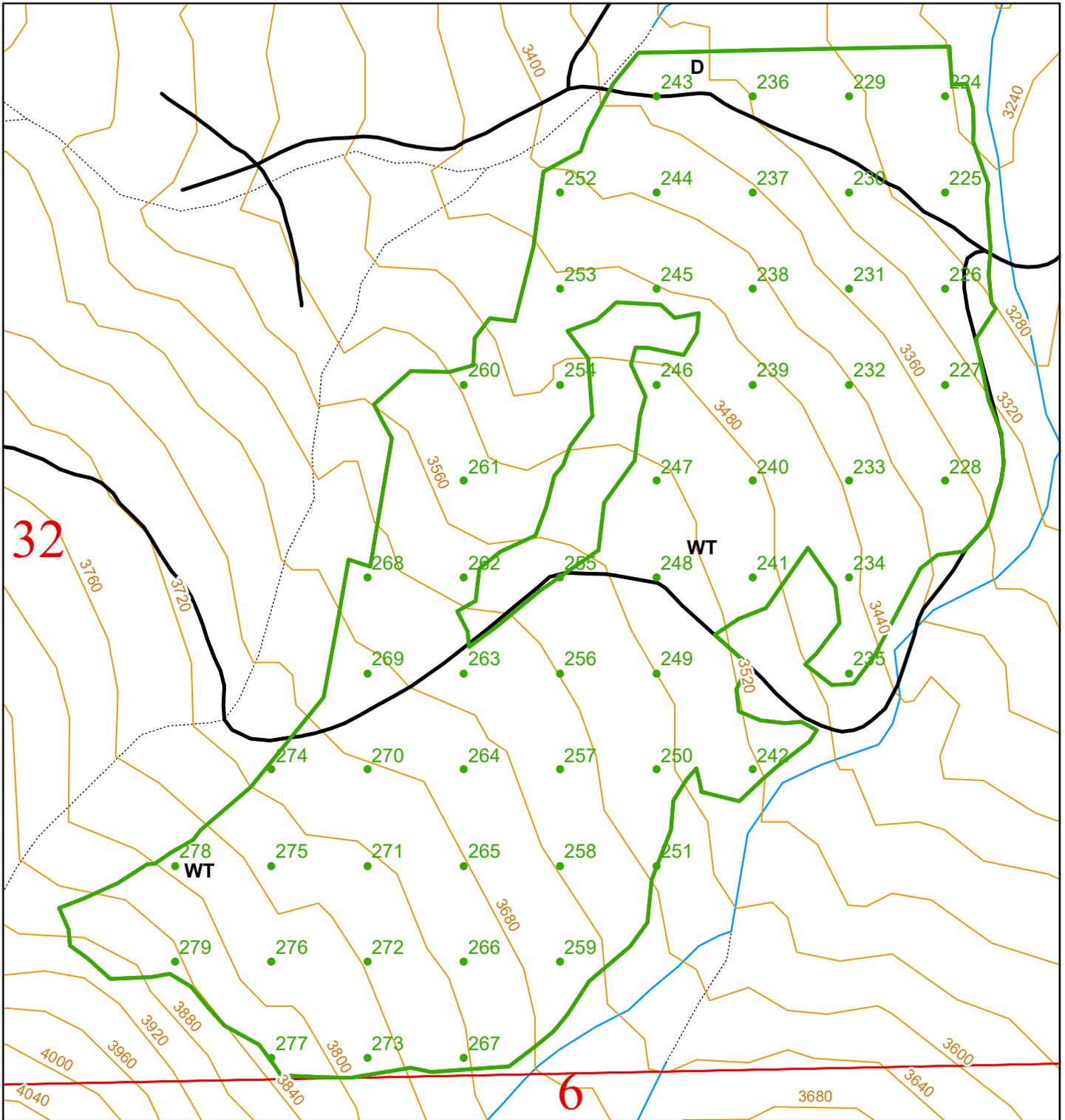
FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	NEON TS U5	Township:	T35R28E
FMA_ID:	313131	DNR Region:	NORTHEAST
Acres:	57	Total Sample Points:	41
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



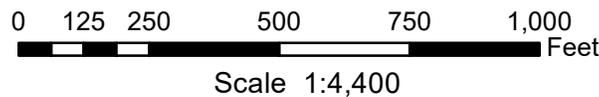
Legend

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



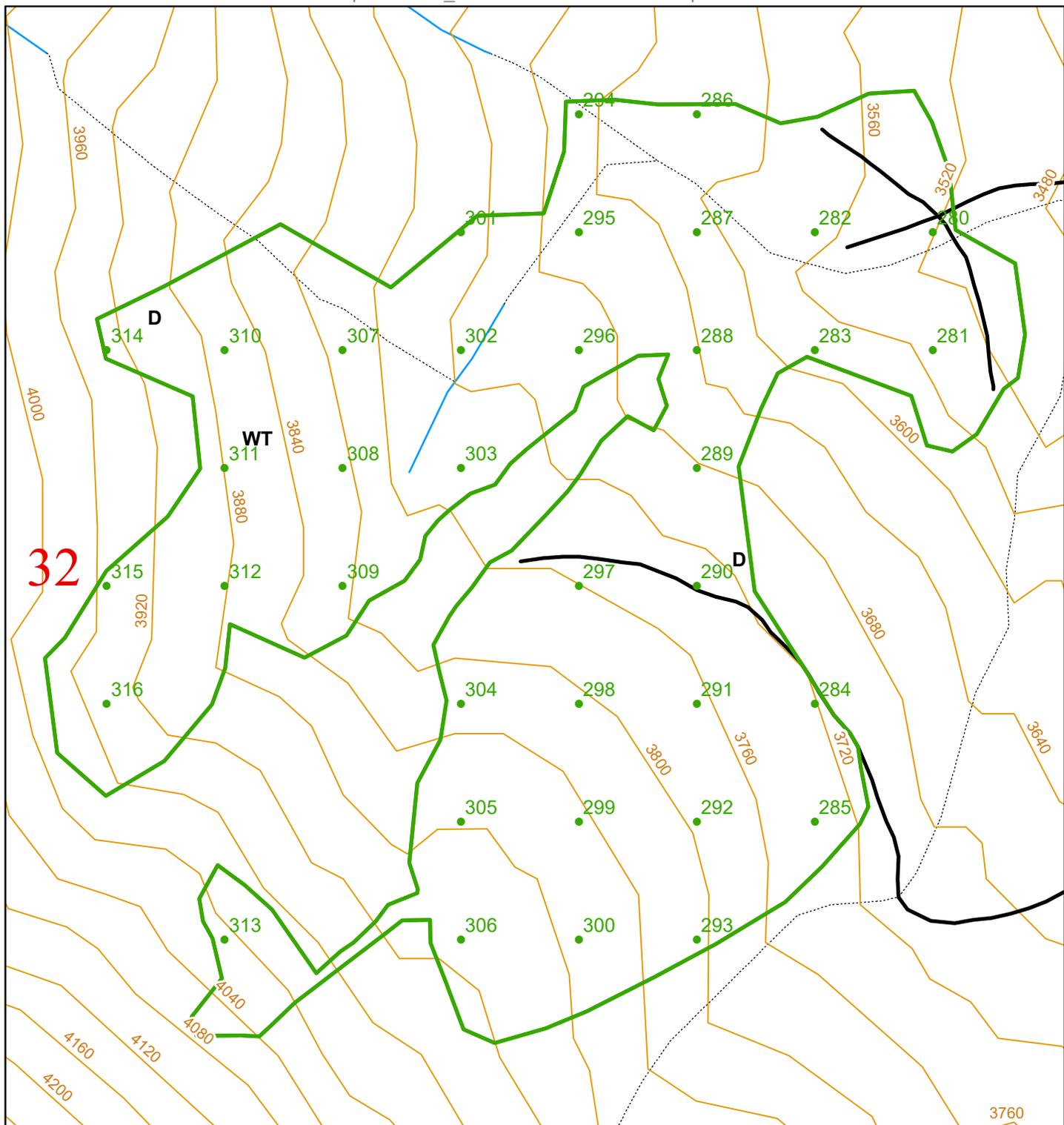
FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	NEON TS U6	Township:	T35R28E
FMA_ID:	313132	DNR Region:	NORTHEAST
Acres:	73	Total Sample Points:	56
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



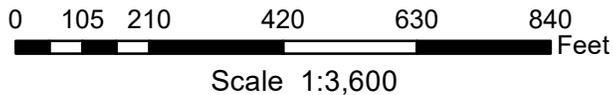
Legend

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



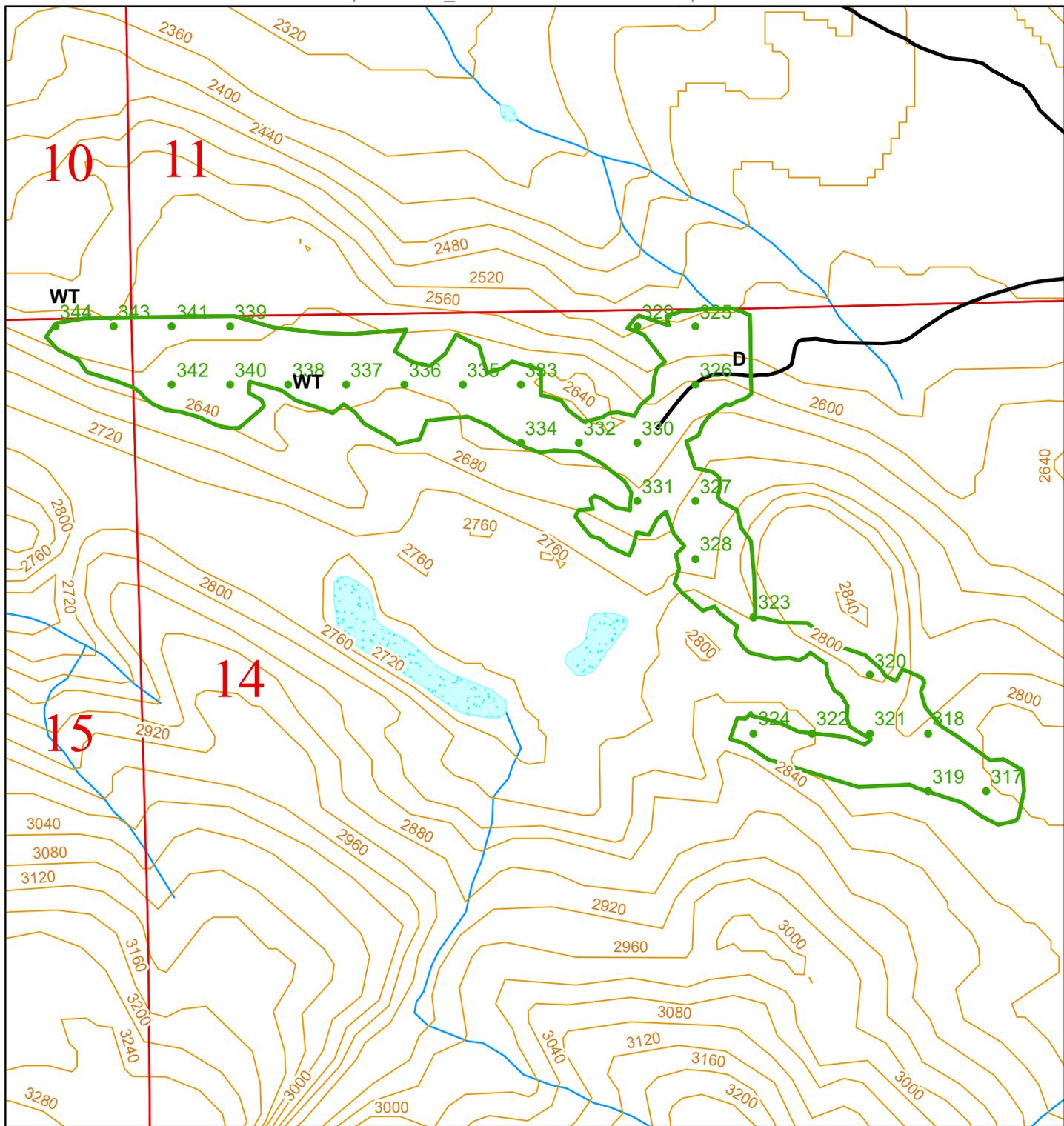
FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	NEON TS U7	Township:	T35R28E
FMA_ID:	313133	DNR Region:	NORTHEAST
Acres:	50	Total Sample Points:	37
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



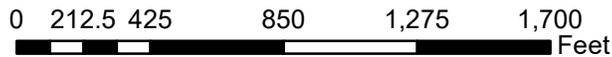
Legend

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



FMA POLYGON AND SAMPLE POINT INFORMATION

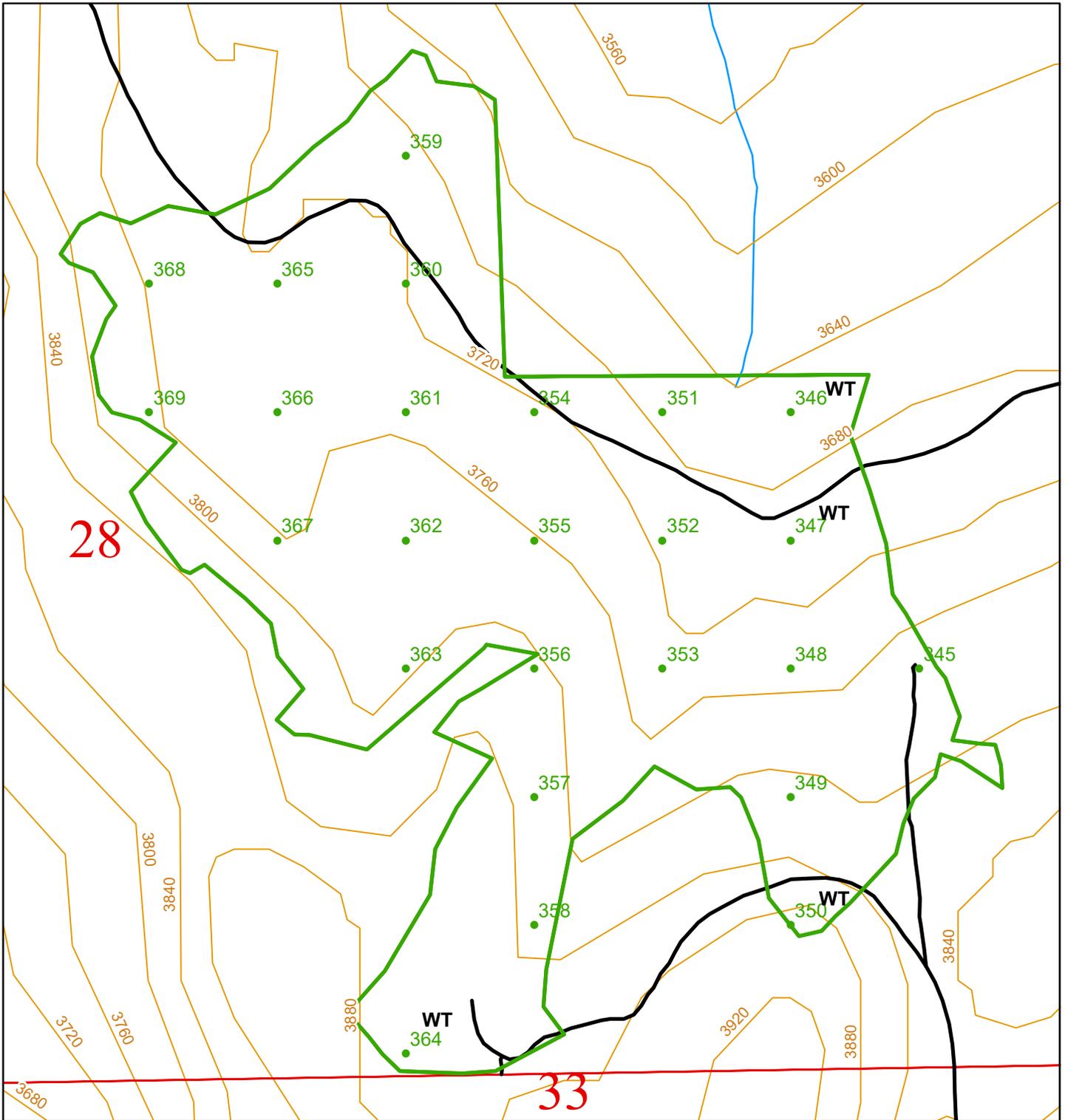
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FMA_ID:	313134	DNR Region:	NORTHEAST
Acres:	39	Total Sample Points:	28
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



Scale 1:7,300

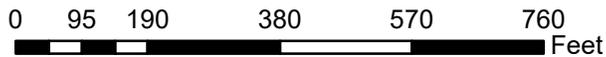
Legend

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



FMA POLYGON AND SAMPLE POINT INFORMATION

FMA_NM:	NEON TS U9	Township:	T36R28E
FMA_ID:	313135	DNR Region:	NORTHEAST
Acres:	37	Total Sample Points:	25
County:	OKANOGAN	Spacing Between Points:	Width: 250 Height: 250
		Point Rotation Degrees:	0



Scale 1:3,300

Legend

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



Forest Practices Application/Notification Notice of Decision

FPA/N No: 3023780
 Effective Date: 10/16/2019
 Expiration Date: 10/16/2022
 Shut Down Zone: 678
 EARR Tax Credit: Eligible [] Non-eligible
 Reference: DNR/WDFW/CCT - Neon
 Multiple T/R/S

Decision

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

FPA/N Classification

Number of Years Granted on Multi-Year Request

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

Conditions on Approval / Reasons for Disapproval

Conditions:

- 1) Operator will notify FP Forester 2 business days prior to constructing Temporary crossing on B, which may only be used in Dry or Frozen conditions. Crossing will be armored to minimize sediment delivery potential, and to protect adjacent RMZ vegetation. Entrance and exit to the crossing will be perpendicular to the stream course.
- 2) Temp crossing will be removed at completion of harvest activities, skid trail will be covered with slash, on each side of stream, and area adjacent to stream will be have straw scattered and will be grass seeded after removal..
- 3) Operator will monitor weather conditions and adjust or suspend operations as needed to minimize impacts to typed waters.

Issued By: Craig Dibble Region: Northeast

Title: Forest Practices Forester Date: 10/16/2019

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.

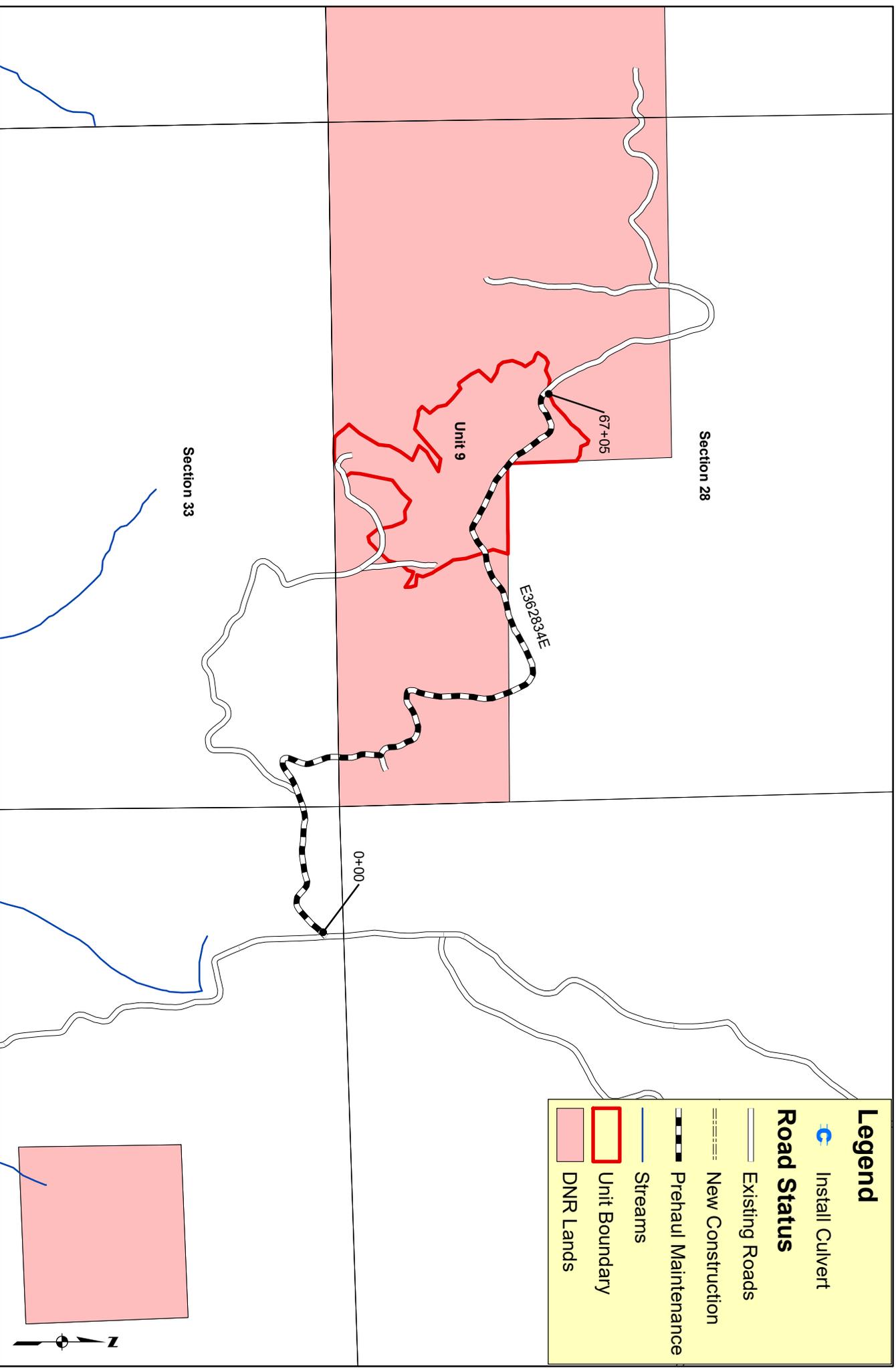
Before the sale or transfer of land or perpetual timber rights subject to continuing forest land obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land 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.

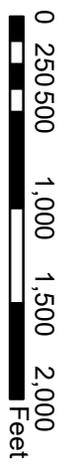
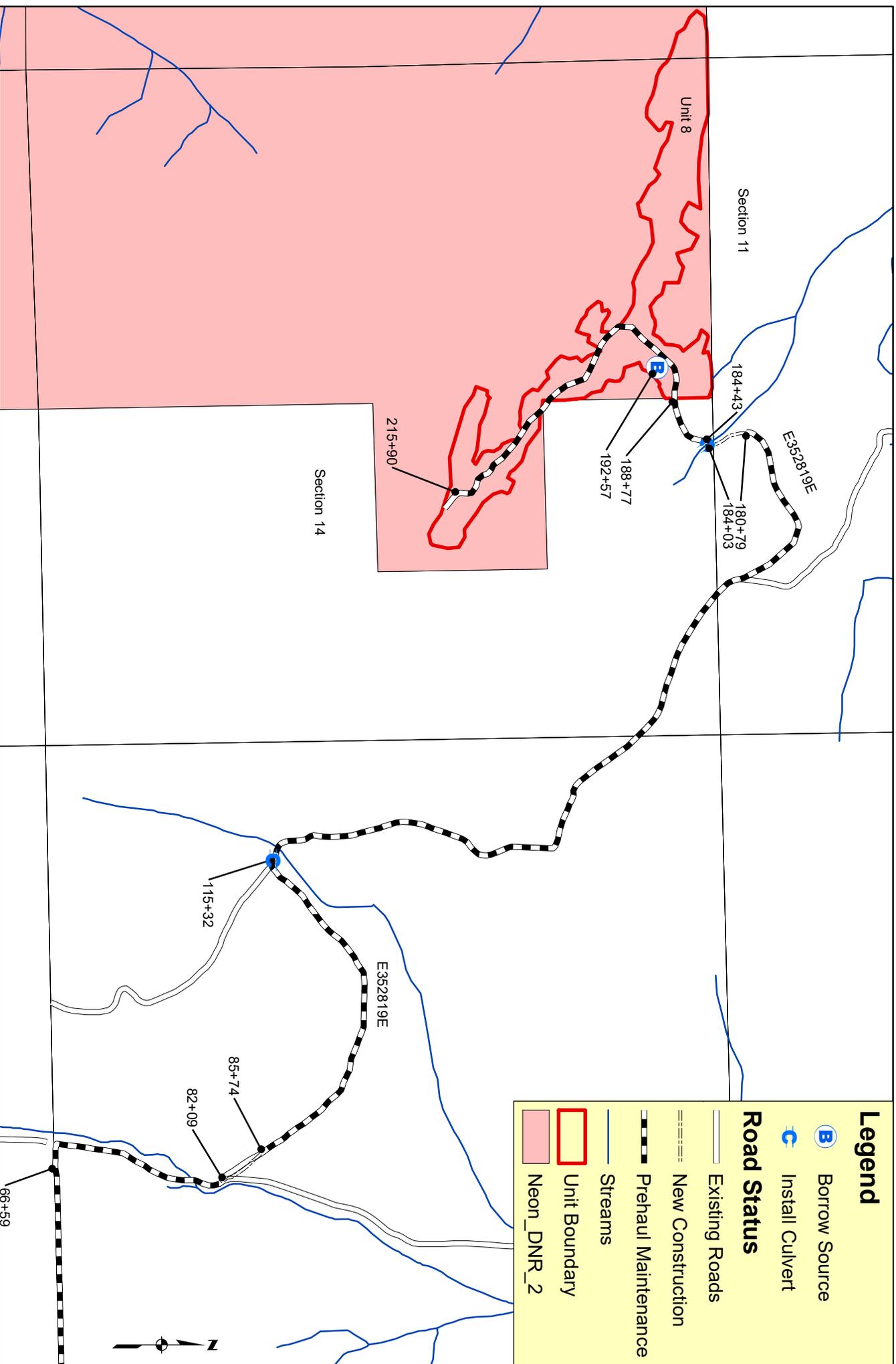
DNR affidavit of mailing:

On this day <u>10-17-19</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>3023780</u>		
<u>Galadriel Hook</u>	<u>Galadriel Hook</u>	
(Printed name)	(Signature)	



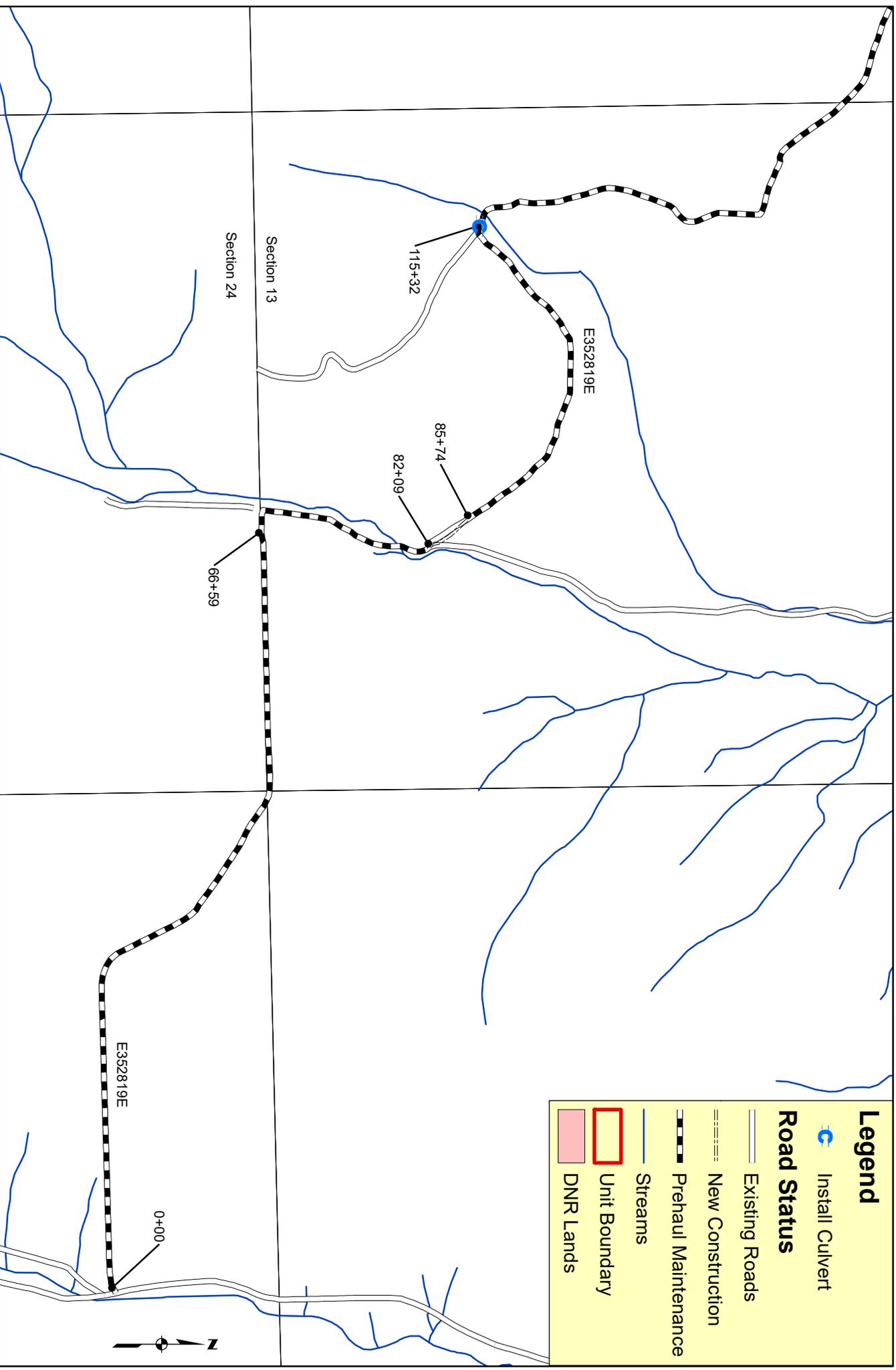
0 250 500 1,000 1,500 2,000
Feet

1 Inch: 1000 Feet 05/28/19



1 Inch: 1000 Feet

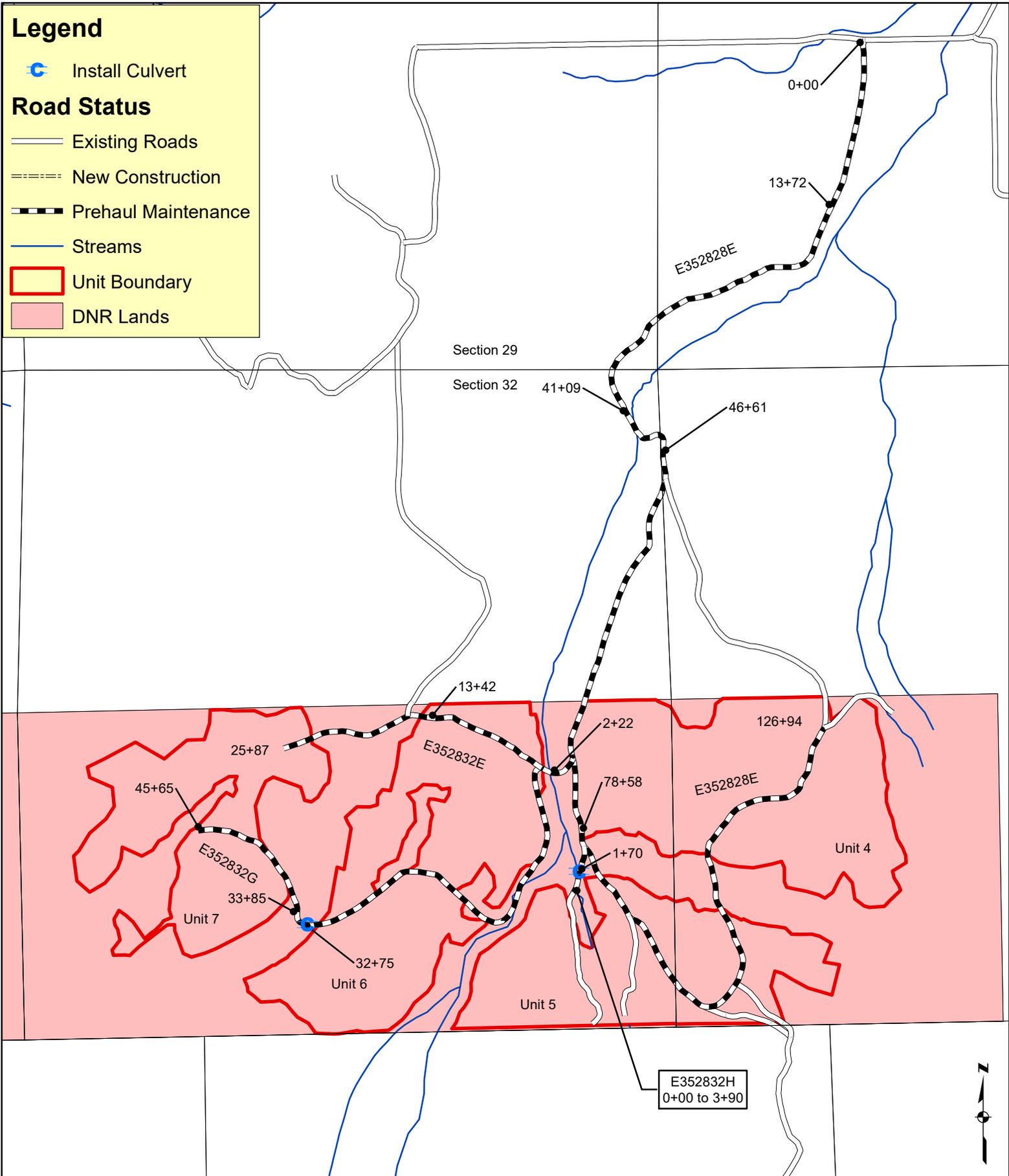
05/28/19



0 250 500 1,000 1,500 2,000
Feet

1 Inch: 1000 Feet

05/28/19

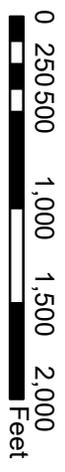
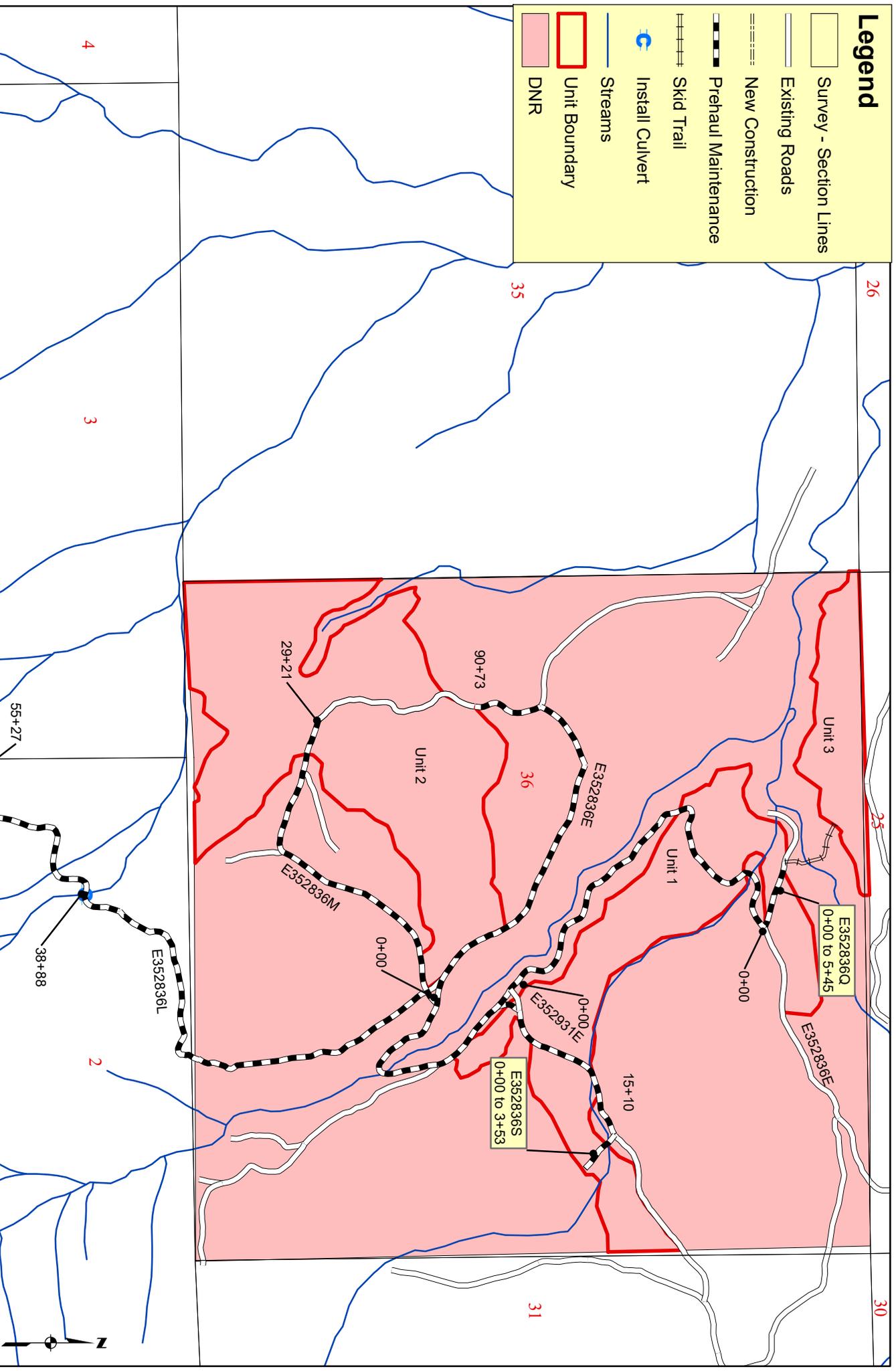


1 Inch: 1000 Feet

05/28/19

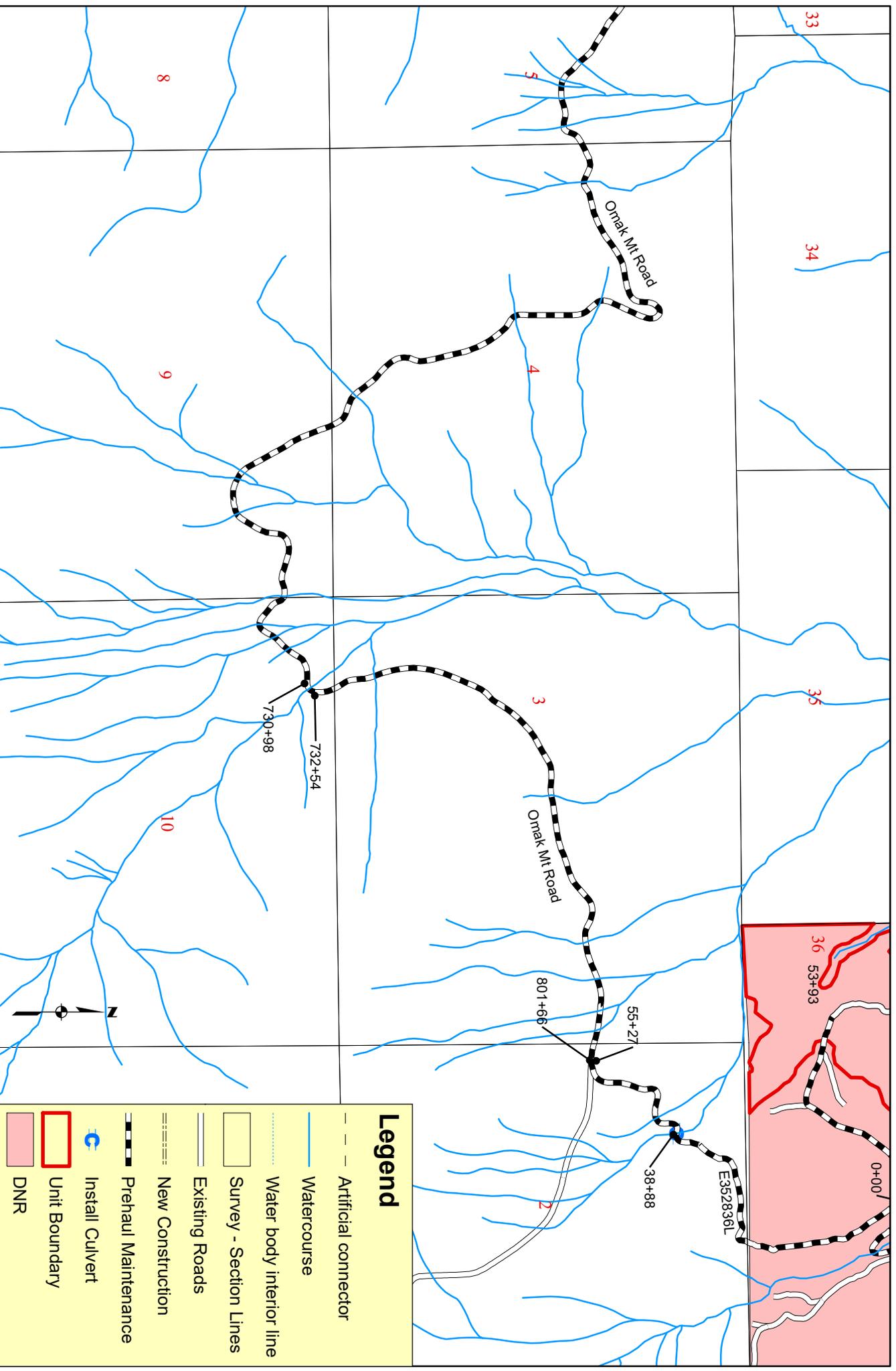
Legend

- Survey - Section Lines
- Existing Roads
- New Construction
- Prehaul Maintenance
- Skid Trail
- Install Culvert
- Streams
- Unit Boundary
- DNR



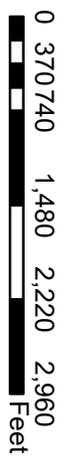
1 Inch: 1000 Feet

05/28/19



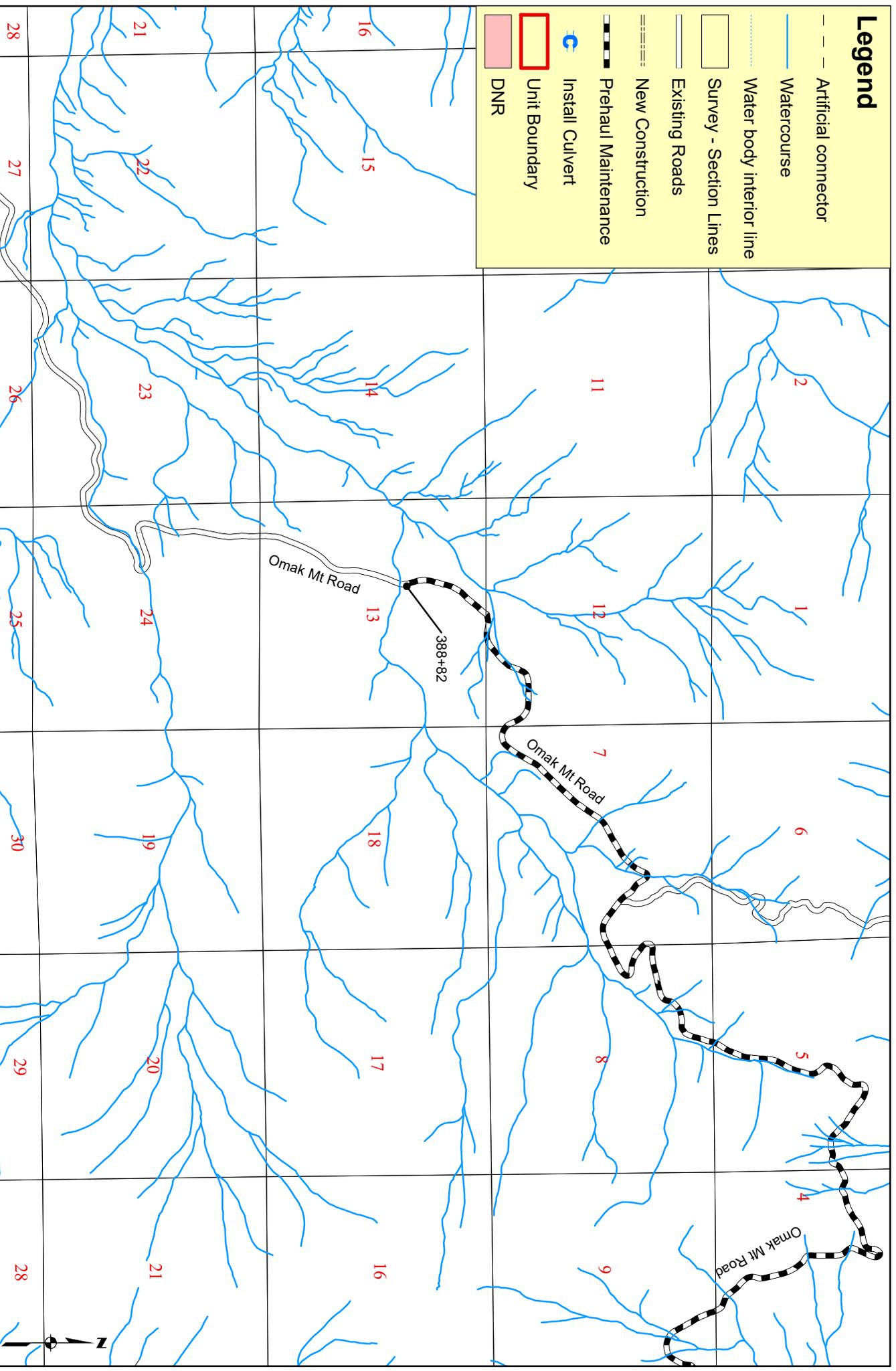
Legend

- Artificial connector
- Watercourse
- Water body interior line
- Survey - Section Lines
- Existing Roads
- New Construction
- Prehaul Maintenance
- ⊕ Install Culvert
- Unit Boundary
- DNR



Legend

- Artificial connector
- Watercourse
- Water body interior line
- Survey - Section Lines
- Existing Roads
- == New Construction
- ▬ Prehaul Maintenance
- ⊕ Install Culvert
- Unit Boundary
- DNR

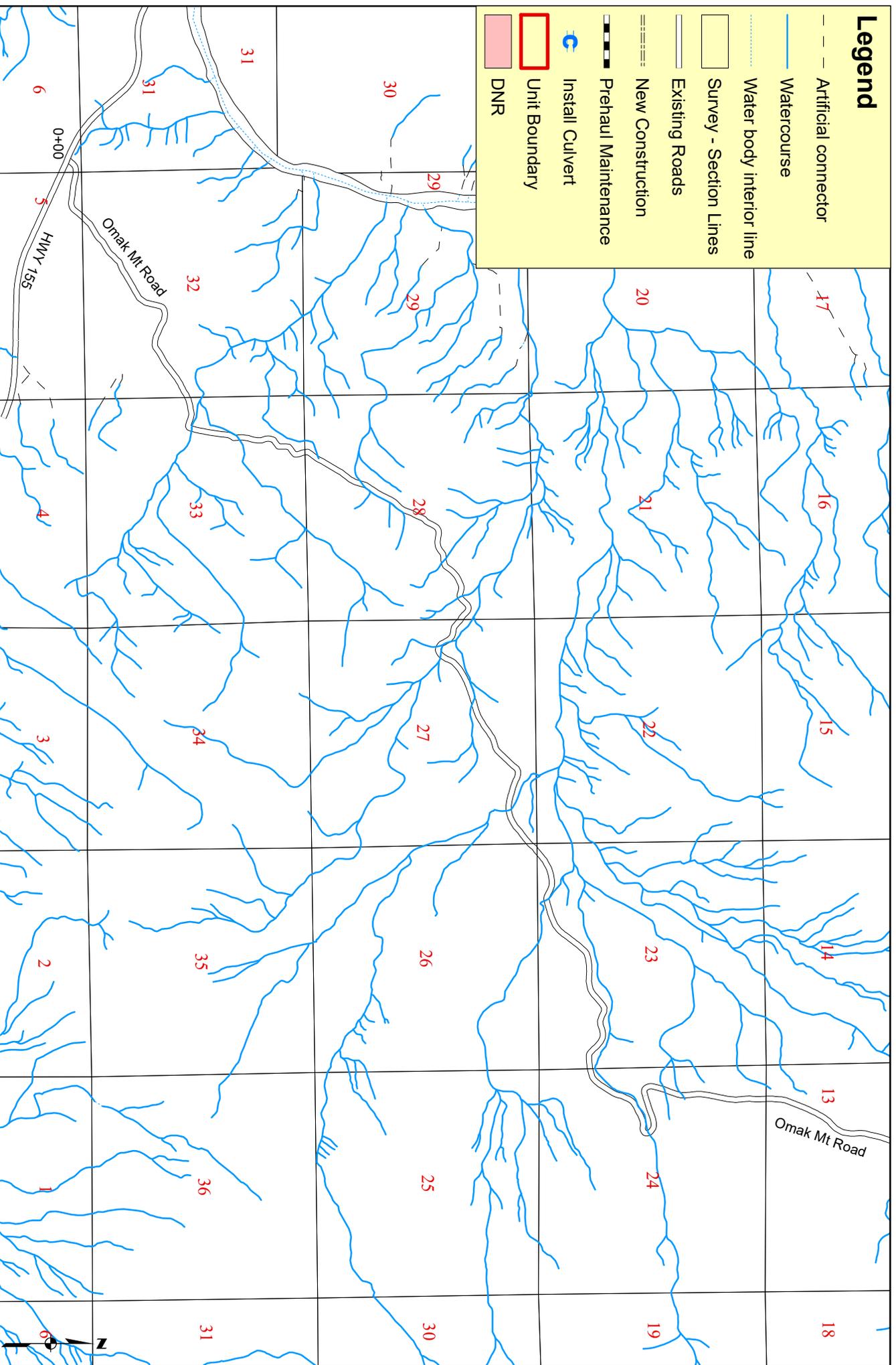


0 700 1,400 2,800 4,200 5,600 Feet

1 Inch: 3000 Feet 05/28/19

Legend

- Artificial connector
- Watercourse
- Water body interior line
- Survey - Section Lines
- Existing Roads
- New Construction
- ▬ Prehaul Maintenance
- ⊕ Install Culvert
- Unit Boundary
- DNR



0 700 1,400 2,800 4,200 5,600
Feet

1 Inch: 3000 Feet

05/28/19

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

NEON TIMBER SALE ROAD PLAN
OKANOGAN COUNTY
SOUTH OKANOGAN DISTRICT
NORTHEAST REGION

AGREEMENT NO.: 30-099298

STAFF ENGINEER: JASON BAUER

DATE: 5/28/19

DRAWN & COMPILED BY: JASON BAUER

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>
E352819E	208.61	Pre-haul Maintenance
E352819E	7.29	Construction
E352828E	126.94	Pre-haul Maintenance
E352832E	25.87	Pre-haul Maintenance
E352832G	45.65	Pre-haul Maintenance
E352832H	3.90	Pre-haul Maintenance
E352836E	90.73	Pre-haul Maintenance
E352836L	55.27	Pre-haul Maintenance
E352836M	29.21	Pre-haul Maintenance
E352836Q	5.45	Pre-haul Maintenance
E352836S	3.53	Pre-haul Maintenance
E352931E	15.10	Pre-haul Maintenance
E362834E	67.05	Pre-haul Maintenance
Omak Mt Road	412.84	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>
-------------	-----------------	---------------------

E352819E	82+09 to 85+74	Full bench and end haul spoils. Use spoils to build up adjacent road to the West.
E352819E	180+79 to 184+43	Install temporary culvert, install fill, remove culvert and fill at end of sale.

Construction includes, but is not limited to Sections 3, 4, and 5.

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>
E352819E	0+00 to 82+09	Cover culvert during haul and uncover after haul, move fence 80' of fence for haul and move back at end of haul
E352819E	85+74 to 180+79	Install rock, install culvert
E352819E	184+43 to 215+90	Blade, shape, add and improve drainage
E352825F	0+00 to 25+78	Blade, shape, add and improve drainage
E352828E	0+00 to 126+94	Install rock, remove culvert, add dips
E352832E	0+00 to 25+87	Remove barricade, fill hole, ditch
E352832G	0+00 to 45+65	Install culvert and ditch
E352832H	0+00 to 3+90	Install culvert and rock
E352836E	0+00 to 90+73	Blade, shape, add and improve drainage
E352836L	0+00 to 55+27	Install culvert, shape, improve drainage
E352836M	0+00 to 29+21	Blade, shape, add and improve drainage
E352836S	0+00 to 3+53	Blade, shape, add and improve drainage
E352931E	0+00 to 15+10	Blade, shape, add and improve drainage
E362834E	0+00 to 67+05	Blade, shape, add and improve drainage
Omak Mt Road	388+82 to 801+66	Blade, shape, improve drainage, Lay down logs, cover with woven geotextile, and cover with crushed rock

Pre-haul maintenance includes, but is not limited to brushing, shaping prism, and improving and adding drainage.

0-7 POST-HAUL MAINTENANCE

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

0-9 DECOMMISSIONING

This project includes decommissioning listed in Clause 9-20 ROAD DECOMMISSIONING.

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.

1-4 ROAD TOLERANCES

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

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

1-6 ORDER OF PRECEDENCE

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

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

1-7 TEMPORARY ROAD CLOSURE

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

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

1-9 DAMAGED METALLIC COATING

Any 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).

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

1-18 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 other than timber cut on the right-of-way, timber cut for this contract, and supplies directed for this contract, without written approval from the Contract Administrator.

1-23 ROAD WORK PHASE APPROVAL

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

- Subgrade construction
- Drainage installation
- Subgrade compaction

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 4 inches on crushed rock roads.
- Wheel track rutting exceeds 8 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 available from the Contract Administrator upon request. Purchaser shall request a SNOW PLOWING AGREEMENT each time plowing occurs. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

1-43 ROAD WORK AROUND UTILITIES

Road work is in close proximity to a utility. It is the Purchaser’s responsibility to identify any utilities. Purchaser shall work in accordance with all applicable laws or rules concerning utilities. Purchaser is responsible for all notification, including “call before you dig”, and liabilities associated with the utilities and their rights-of-way.

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 road(s) in a condition that will allow the passage of light administrative vehicles.

2-5 MAINTENANCE GRADING – EXISTING ROAD

Purchaser shall use a motor grader to shape the existing surfaces before haul.

2-6 CLEANING CULVERTS

Purchaser shall clean the inlets and outlets of all culverts.

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

Purchaser shall clean ditches, headwalls, and catchbasins. Work must be completed before timber haul and must be done in accordance with the CULVERT AND DRAINAGE SPECIFICATIONS DETAIL D-1. Pulling ditch material across rock surface roads or mixing in with the road surface 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. 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 45%.
- 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 outside of the clearing limits or as directed by the Contract Administrator and in compliance with all other clauses in this road plan. Stumps must be positioned upright, with root wads in contact with the forest floor on stable locations.

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

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 grubbing, clearing, waste area, brushing area limits as shown on the TYPICAL SECTION SHEET and BRUSHING DETAIL.

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 sale closeout.

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

Waste areas for organic debris are located within the cleared right-of-way or in natural openings as designated 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 45%.
- Within the operational area for cable landings where debris may shift or roll.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-25 SCATTERING ORGANIC DEBRIS

Purchaser shall scatter organic debris in natural openings on the downhill side of the road unless otherwise directed by the Contract Administrator. Where natural openings are unavailable or restrictive, alternate debris disposal methods are subject to the written approval of the Contract Administrator.

3-30 EXCLUSION OF DOZER BLADES

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

3-31 PILING

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

SECTION 4 – EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

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

4-2 PIONEERING

Pioneering may not extend 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:

- 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% of the curve radius.
- Maximum favorable grades for switchbacks is 12%.
- Maximum transition grades entering and leaving switchbacks is a 6% 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:

<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 :

<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.

4-12 FULL BENCH CONSTRUCTION

On the following road Purchaser shall use full bench construction for the entire subgrade width. Purchaser shall end haul waste material to the location specified in Clause 4-37 WASTE AREA LOCATION.

<u>Road</u>	<u>Full Bench Location</u>	<u>Comments</u>
E352819E	Station 82+09 to 85+74	Haul material up the road to the West and lift road.

4-14 ONE-FOOT EXCAVATION LIMIT

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

4-20 SUBGRADE DIMENSIONS FOR INTERSECTIONS

On the following road(s), Purchaser shall construct the subgrade to the dimensions shown on the INTERSECTION DETAIL.

<u>Road</u>	<u>Stations</u>
E352819E	82+09 to 83+09

4-21 TURNOUTS

Purchaser shall construct turnouts intervisible with a maximum distance of 1,000 feet between turnouts unless otherwise shown on drawings. Locations may be adjusted to fit the final subgrade alignment and sight distances. 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. Ditches must be constructed concurrently with construction of the subgrade.

<u>Road</u>	<u>Stations</u>
E352832E	13+42 to 14+22

E352832G	32+75 to 33+85
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4-26 DITCH WORK – USE MATERIAL IN EXISTING SUBGRADE

On the following road(s), Purchaser shall use the excavated ditch material to build up the subgrade.

<u>Road</u>	<u>Stations</u>
E352832E	13+42 to 14+22
E352832G	32+75 to 33+85

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts 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 45%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.

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 the listed borrow. Development of the borrow source must be in accordance with Section 4-5 CUT SLOPE RATIO.

<u>Source</u>	<u>Location</u>	<u>Yards</u>
WA DNR	Road E352819E Sta 192+57	75

4-55 ROAD SHAPING

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

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.

4-63 EXISTING SURFACE COMPACTION

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

SECTION 5 – DRAINAGE

5-1 REMOVAL OF SHOULDER BERMS

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

5-5 CULVERTS

Purchaser shall install culverts as part of this contract. Culverts must be installed concurrently with subgrade work and must be installed before subgrade compaction and rock application. Culvert locations and the minimum requirements for culvert length and diameter are designated on the CULVERT AND DRAINAGE SPECIFICATIONS DETAIL – D1. Culverts must be new material and meet the specifications in Clauses 10-15 through 10-24.

5-6 CULVERT TYPE

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

5-7 USED CULVERT MATERIAL

On temporary crossings, Purchaser may install used culverts. All other roads must have new culverts installed. Purchaser shall obtain approval from the Contract Administrator for the quality of the used culverts before installation. Culverts must meet the specifications in Clauses 10-15 through 10-24.

<u>Road</u>	<u>Stations</u>
E352819E	184+03

5-8 TEMPORARY STREAM CULVERT INSTALLATION

Purchaser shall install a temporary culvert as shown in the table below. Temporary stream culverts must be located in the natural channel of the stream. Temporary culverts must be removed upon completion of road use and as indicated in Clause 9-20 ROAD DECOMMISSIONING and as directed by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
E352819E	184+03

5-9 CULVERT INSTALLATION IN LIVE STREAM

On the following road(s), Purchaser shall install culvert(s) in live streams. The water must be diverted in a manner to reduce sediment from the construction site. The contract administrator shall approve the diversion plan before construction commences.

<u>Road</u>	<u>Stations</u>	<u>Culvert Size</u>	<u>Comments</u>
E352832H	1+70	24"X38	Culvert must be installed according to the Culvert and Drainage Detail and the Culvert List.

E352836L	38+88	24"X36'	Culvert must be installed according to the Culvert and Drainage Detail and the Culvert List.
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5-12 UNUSED MATERIALS STATE PROPERTY

On required roads, any materials listed on the CULVERT AND DRAINAGE SPECIFICATIONS DETAIL – D1 that are not installed will become the property of the state. Purchaser shall stockpile materials as directed by the Contract Administrator.

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures". Culverts 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.

5-17 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

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts, except for temporary culverts.

5-25 CATCH BASINS

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

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

Purchaser shall construct headwalls in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts, except for temporary culverts. Rock used for headwalls must 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. Rock type must meet the specifications in Clause 6-50 LIGHT LOOSE RIP RAP.

5-27 ARMORING FOR STREAM CROSSING CULVERTS

At the following culvert, Purchaser shall place Light Loose Rip Rap in conjunction with construction of the embankment. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the CULVERT AND DRAINAGE SPECIFICATIONS AND DETAIL – D1. Rock may not restrict the flow of water into culvert inlets or catch basins. Rock must be set in place by machine. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed. Rock type must meet the specifications in Clause 6-50 LIGHT LOOSE RIP RAP.

5-30 DRIVABLE WATERBAR CONSTRUCTION

Purchaser shall construct drivable waterbars in accordance with the DRIVABLE WATERBAR DETAIL.

5-31 ROLLING DIP CONSTRUCTION

Purchaser shall construct rolling dips in accordance with the ROLLING DIP DETAIL. Rolling dips must be maintained in an operable condition.

5-33 NATIVE SURFACE ROADS

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

SECTION 6 – ROCK AND SURFACING

6-5 ROCK FROM COMMERCIAL SOURCE

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

<u>Possible Source</u>	<u>Location</u>
Freel Sand and Gravel	Omak, Washington
Cates and Erb	Omak, Washington

6-23 ROCK GRADATION TYPES

Purchaser shall provide rock in accordance with the types and amounts listed in Sections 6-28 or 6-29. Rock must meet the following specifications for gradation and uniform quality. The exact point of evaluation for conformance to specifications will be determined by the Contract Administrator.

6-28 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.

% Passing 1 ¼" square sieve	100%
% Passing 5/8" square sieve	50 - 80%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	3 - 18%
% Passing U.S. #200 sieve	5%

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.

6-29 1 ½-INCH MINUS CRUSHED ROCK

% Passing 1 ½" square sieve	100%
% Passing 1" square sieve	50 - 85%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	16% maximum
% Passing U.S. #200 sieve	5% maximum

% Passing 1 ½" square sieve	100%
% Passing 1" square sieve	70 - 90%
% Passing 5/8" square sieve	50 - 80%
% Passing U.S. #4 sieve	30 - 50%
% Passing U.S. #40 sieve	3 - 18%
% Passing U.S. #200 sieve	7.5% maximum

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.

6-50 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 by routing equipment over the entire width.

6-72 ROCK APPLICATION AFTER HAULING

On the following road(s), upon completion of all hauling operations, Purchaser shall apply 1 ¼-INCH MINUS rock in accordance with the quantities shown on the ROCK LIST.

<u>Road</u>	<u>Stations</u>	<u>Rock Type</u>
E352828E	0+00 to 13+72	1 ¼-INCH MINUS

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.

7-15 PRE-DESIGN WORK MEETING

Prior to any design work occurring, a pre-work conference call shall occur to review the Road Plan requirements for the design and manufacture of the structure.

7-71 GATE CLOSURE DURING HAUL

Purchaser shall keep gates closed and locked except for passing vehicles. If Purchaser elects to use an alternate plan for gate security, Purchaser shall submit a detailed plan to the Contract Administrator for written approval. For all gates required to be closed and locked during haul, Purchaser may install temporary cattle guards. At the completion of hauling Purchaser shall remove temporary cattle guards, refill holes, and replace, gates.

7-75 GATE MAINTENANCE

Purchaser shall maintenance fences and gates they come in contact with. Any damaged fence or gate must be repaired. The repair shall be according to the 4-wire fence detail and the 4-wire gate detail

7-76 CORDUROY FILL

Purchaser shall construct a corduroy fill at the following location:

Omak Mt Road – Station 730+98 – Start Rock
 Station 731+42 – Start Logs and woven geotextile
 Station 732+04 – End Logs and woven geotextile
 Station 732+54 – End Rock

- Rock shall be crushed 1 ½ minus.
- Logs shall be placed perpendicular to the road center line.
- Logs shall be 32 feet long and centered at the center line of the road.
- See attached “Neon Corduroy Road” Detail.
- The Rock, woven geotextile, and logs will be removed at the end of use and the road will be left smooth and rut free.

SECTION 9 – POST-HAUL ROAD WORK

9-3 CULVERT MATERIAL REMOVED FROM STATE LAND

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

9-5 POST-HAUL MAINTENANCE

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

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface.

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

9-20 ROAD DECOMMISSIONING

Purchaser shall decommission the following roads at the termination of use.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
E352819E	183+43 to 184+83	Light

9-22 LIGHT DECOMMISSIONING

- Remove Culvert (Contractor must remove from site and dispose at own cost).
- Remove all fill and use as road surface no closer than 300' from culvert location.
- Insure end hauled material is bladed and shaped for a smooth drivable surface.

SECTION 10 MATERIALS

10-15 CORRUGATED STEEL CULVERT

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

10-21 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 or approved, culverts must conform to the following specifications for gage and corrugation as a function of diameter.

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

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Cuts and Fills

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

Surface

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

Drainage

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

Structures

- Repair culverts, bridges, gates, fences, cattle guards, signs, and other road structures as required because of purchaser use. Repairs shall be subject to Contract Administrator's approval.

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

Preventative Maintenance

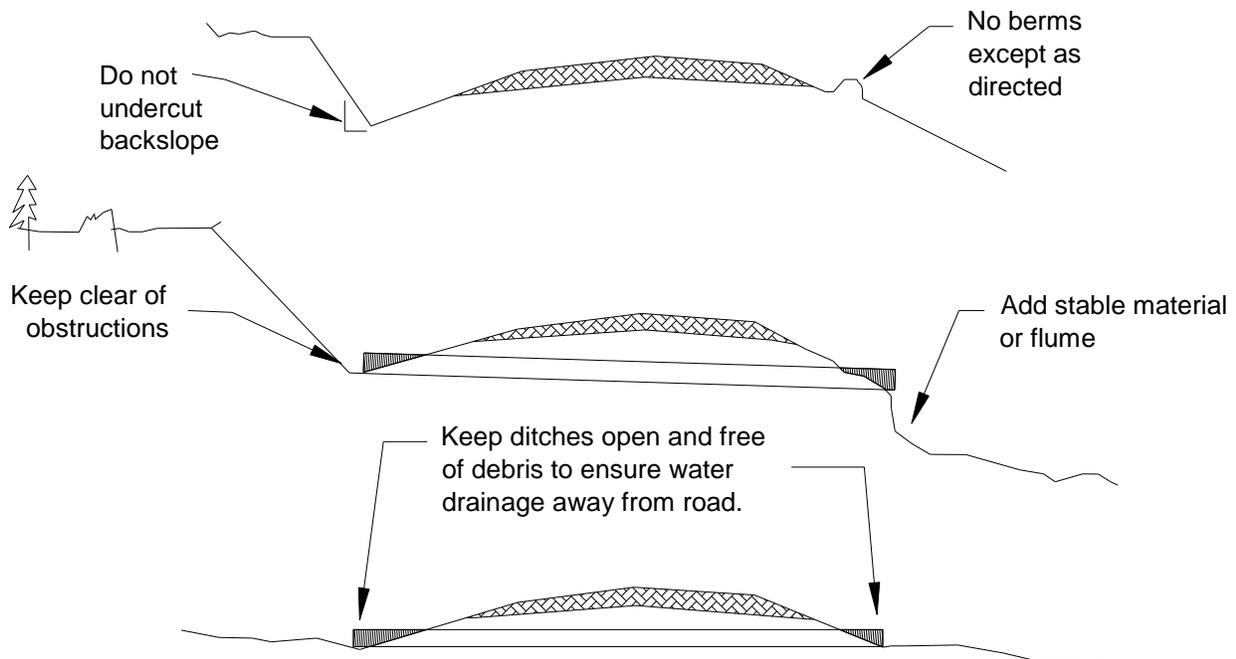
- Perform preventative maintenance work to safeguard against storm damage, such as blading to ensure correct runoff, ditch and culvert cleaning, and waterbar maintenance.

Termination of Use or End of Season

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

Debris

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

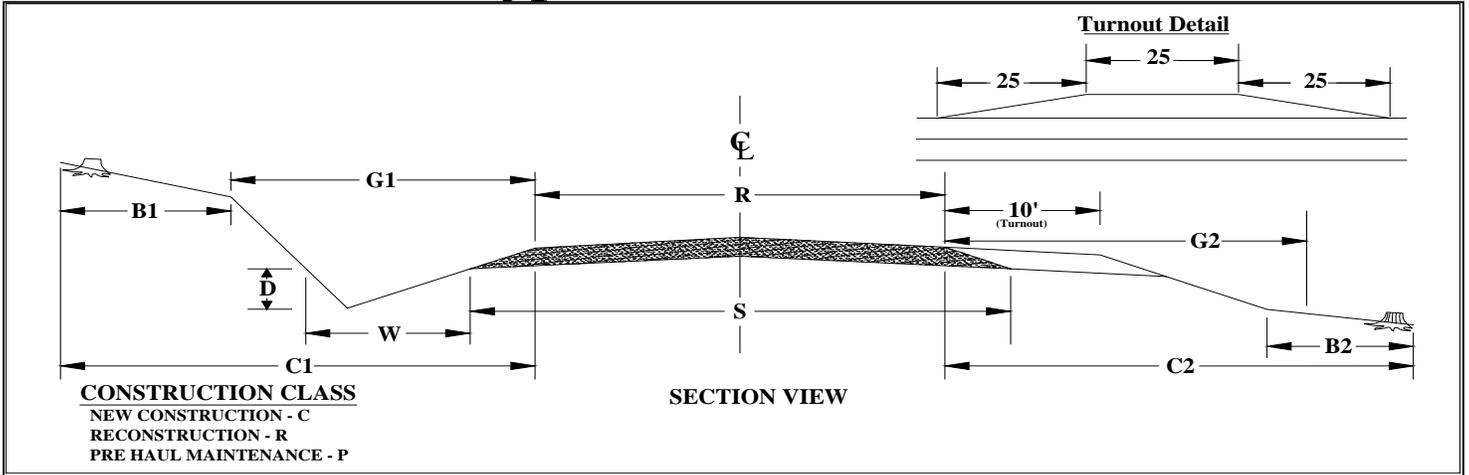


State of Washington
Department of Natural Resources

Application No. : 30-099298

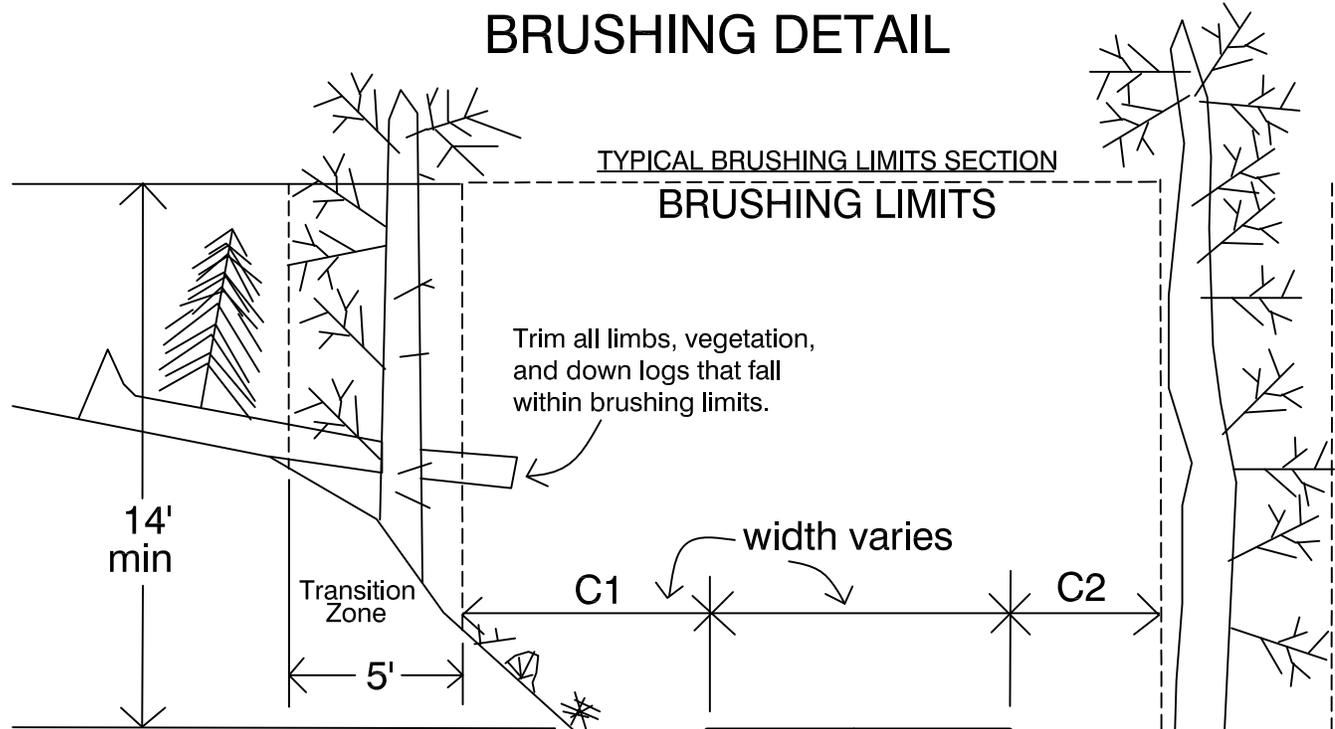
Name of Sale: Neon

Typical Section Sheet



ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	INSLOPE "/>10'	OUTSLOPE "/>10'	CROWN " AT CL	DITCH WIDTH (W)	DITCH DEPTH (D)	DITCH 2 SIDES	DITCH LENGTH (FT)	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)
E352819E	0+00	82+09	P		12		3										6	6
E352819E	82+09	85+74	C	14			3								5	5		
E352819E	85+74	180+79	P		12		3										6	6
E352819E	180+79	184+43	C	14			3								5	5		
E352819E	184+43	215+90	P		12		3										6	6
E352828E	0+00	126+94	P		12		3										6	6
E352832E	0+00	25+87	P		12		3	4	2		80						6	6
E352832G	0+00	45+65	P		12		3	3	1		110						6	6
E322832H	0+00	3+90	P		12		3										6	6
E352836E	0+00	90+73	P		12		3										6	6
E352836L	0+00	55+27	P		12		3										6	6
E352836M	0+00	29+21	P		12		3										6	6
E352836Q	0+00	5+45	P		12		3										6	6
E352836S	0+00	3+53	P		12		3										6	6
E352931E	0+00	15+10	P		12		3										6	6
E362834E	0+00	67+05	P		12		3										6	6
Omak Mt Road	388+82	801+66	P		14		3										3	3

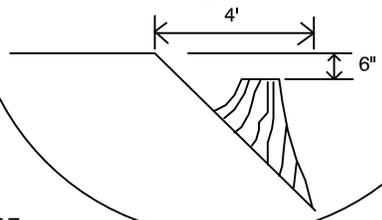
BRUSHING DETAIL



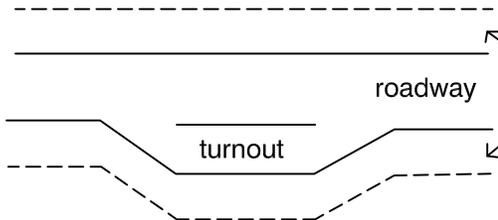
All limbs on standing trees that extend into the brushing limits shall be trimmed within 6" of the stem

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.

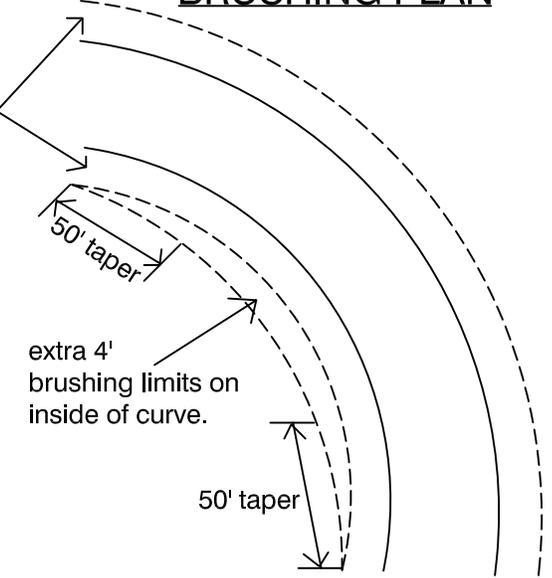


CURVE BRUSHING PLAN



TURNOUT BRUSHING PLAN

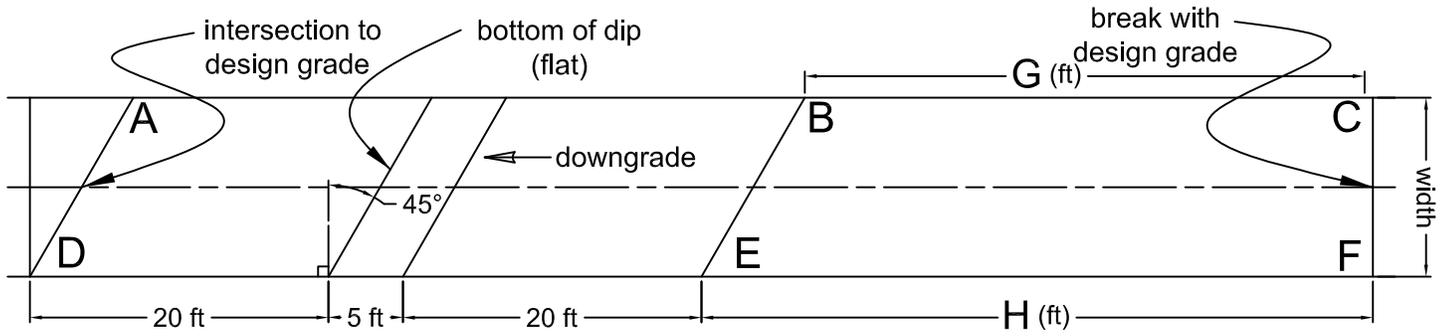
1. All vegetation within the brushing limits shall be cut to within 8" of the ground unless otherwise directed by the contract administrator.
2. All brush, trees limbs, etc. shall be removed from the road surface and ditchline.
3. All debris that may roll or migrate into the ditchline shall be removed.



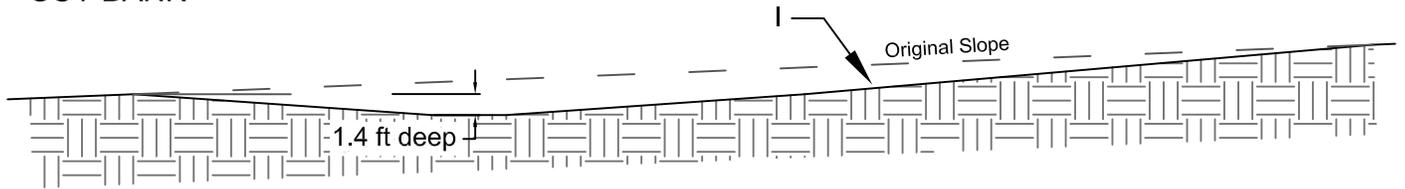
Brushing limits as shown on typical section

STANDARD 45° ROLLING DIP

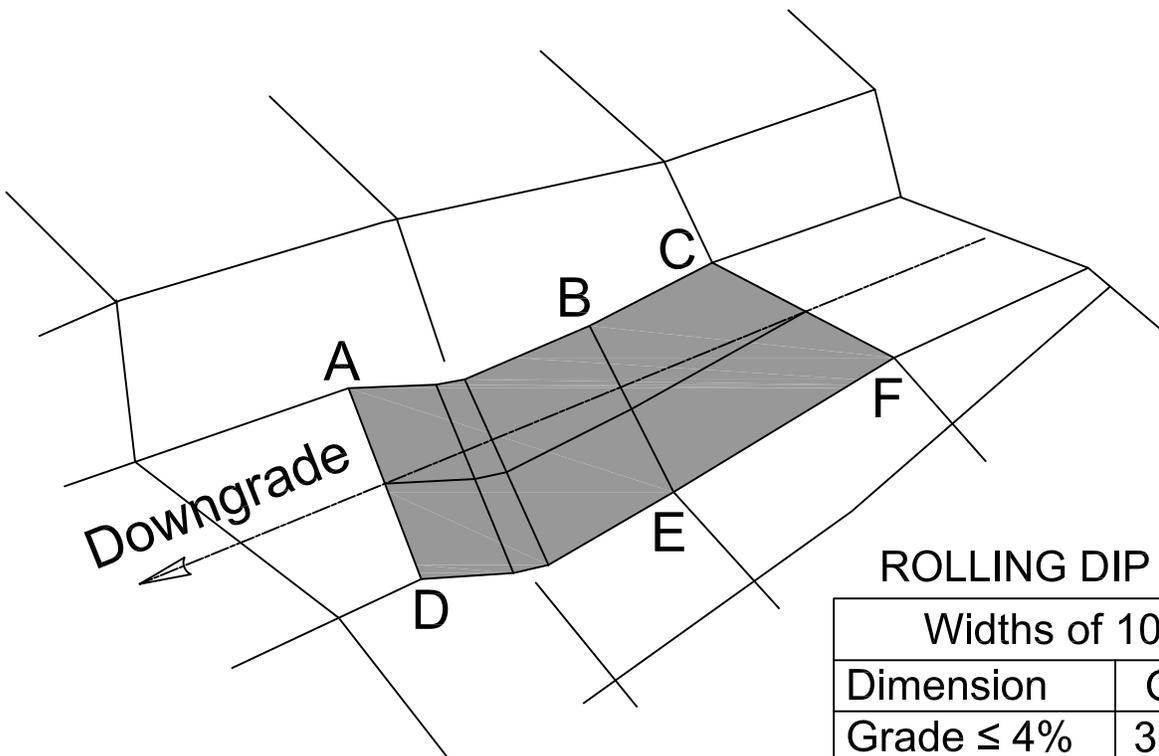
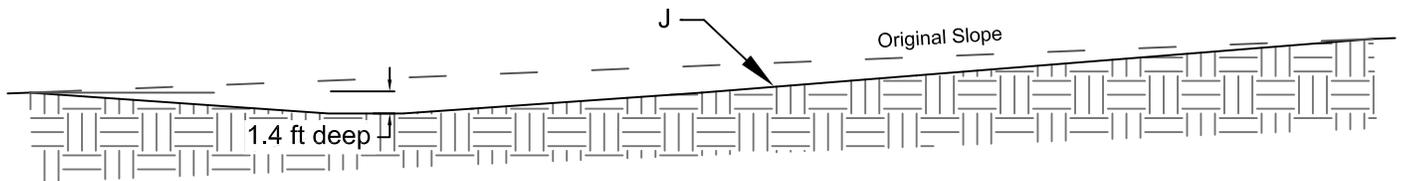
PLAN OF ROLLING DIP



CUT BANK



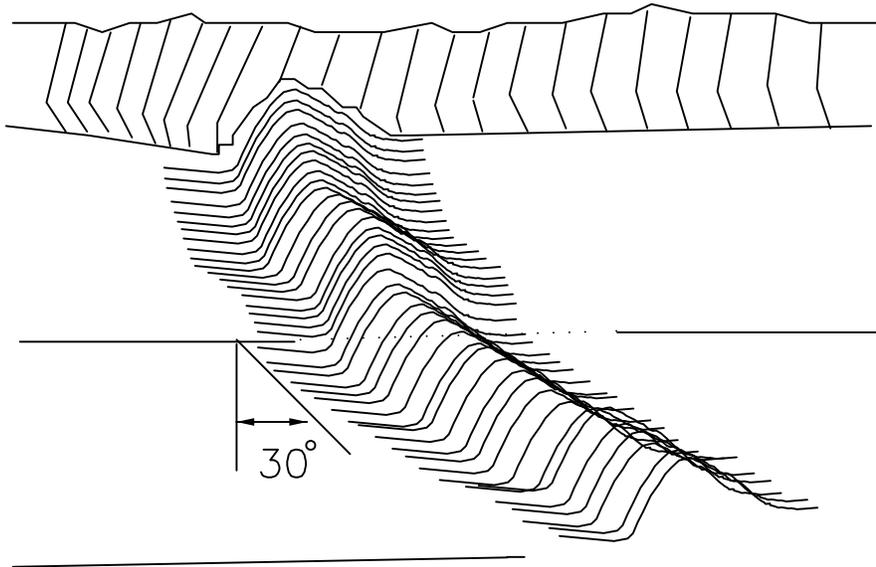
FILL SLOPE



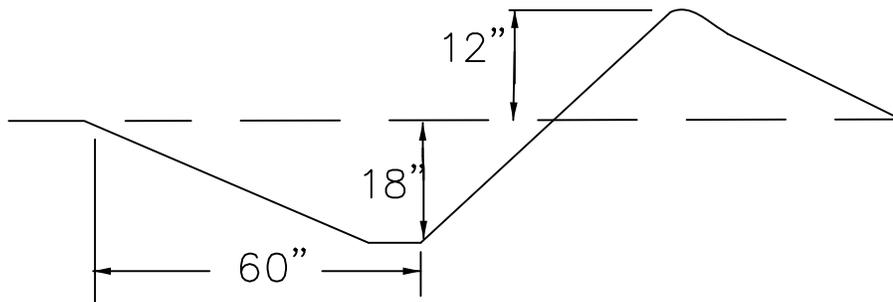
ROLLING DIP DEMENSIONS

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

Top View

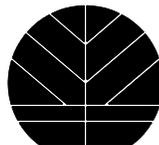


Side View



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

Driveable Waterbar Detail



WASHINGTON STATE DEPARTMENT OF
Natural Resources

Northeast Region
Colville, Washington

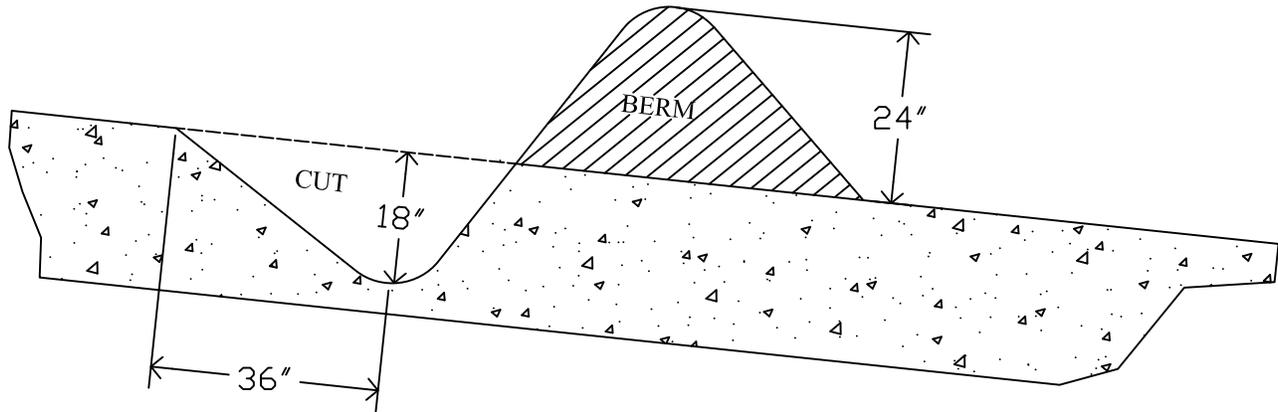
Designed By: Stash Slabinski 9/06/05

Drawn By: Stash Slabinski 9/06/05

Revised:

1 OF 1

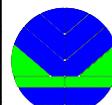
Non-Driveable Water Bar Detail



Notes:

1. WATERBAR CONSTRUCTION FOR FOREST ROADS WITH NO TRAFFIC. SPECIFICATIONS ARE AVERAGE AND MAY BE ADJUSTED TO CONDITIONS.
2. TIE BERM INTO BANK. IF DITCH EXISTS, TIE CUT INTO DITCH.
3. CONSTRUCT CROSS DRAIN BERM APPROXIMATELY 24 IN. HIGH.
4. CUT WATERBAR A MINIMUM OF 18 IN.
5. ENSURE PROPER DRAINAGE AT OUTLET.
6. SKEW WATERBAR 30 DEGREES DOWNGRADE WITH ROAD CENTERLINE.

Non-Driveable Waterbar Detail



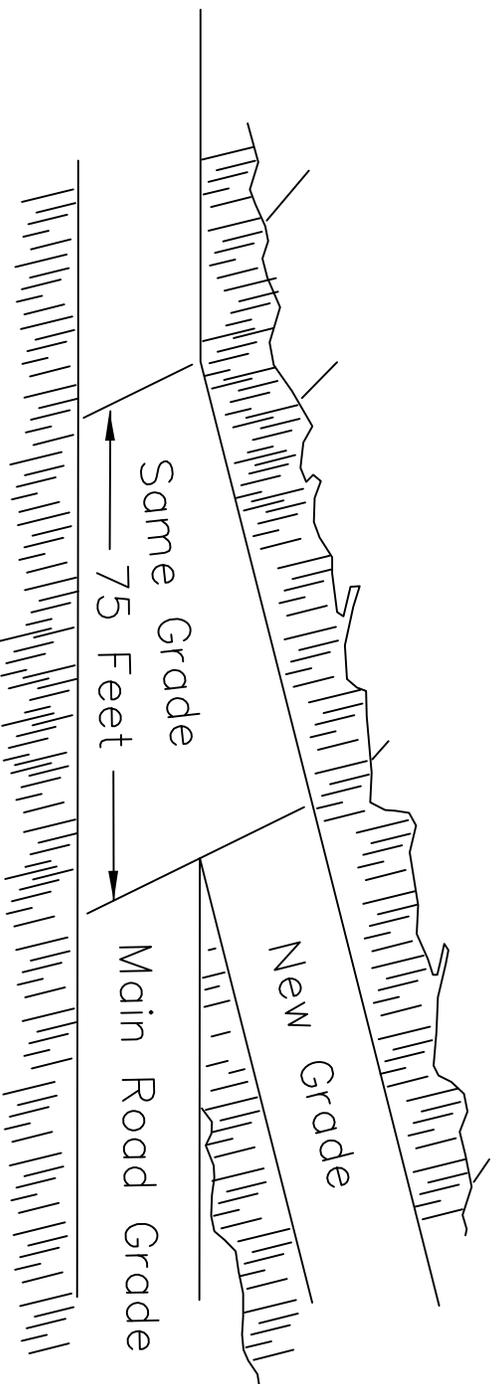
WASHINGTON STATE DEPARTMENT OF
Natural Resources

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

Revised:

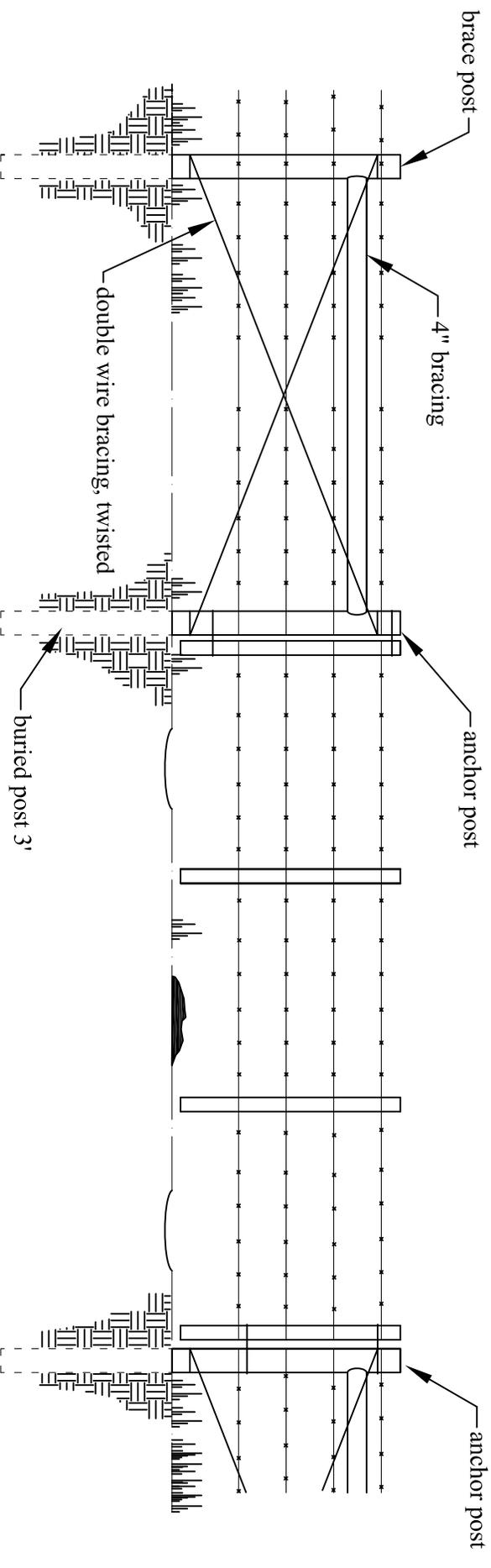
1 OF 1

Intersection Detail

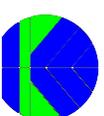


Main road and spur must have the same grade until there is horizontal separation from each other.

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 1/2" in diameter.
9. Barbed wire must be 12 1/2 gauge conventional or 15 1/2 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

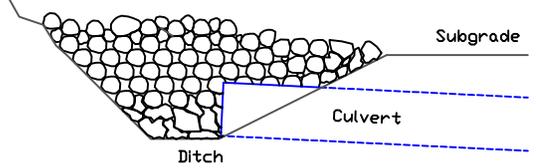
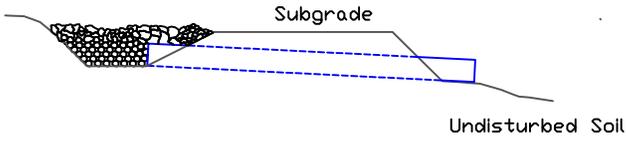
Northeast Region
Colville, Washington

Drawn by: Jason Bauer

Revised: 10/06/2009

CULVERT AND DRAINAGE SPECIFICATIONS DETAIL - D1

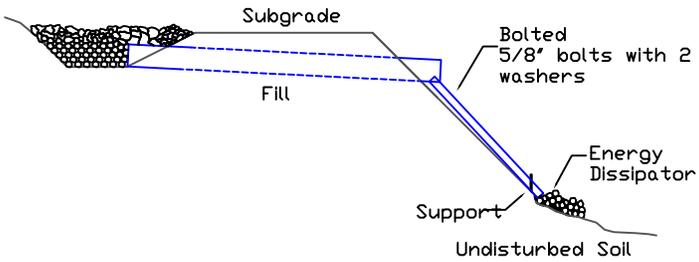
HEADWALLS



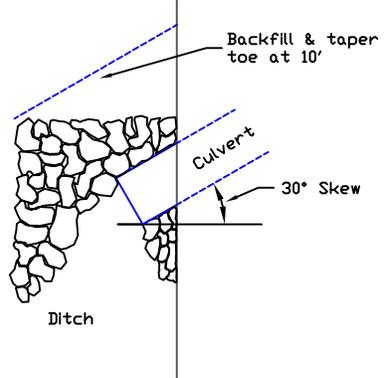
Headwall to be constructed of material that will resist erosion

FLUME

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

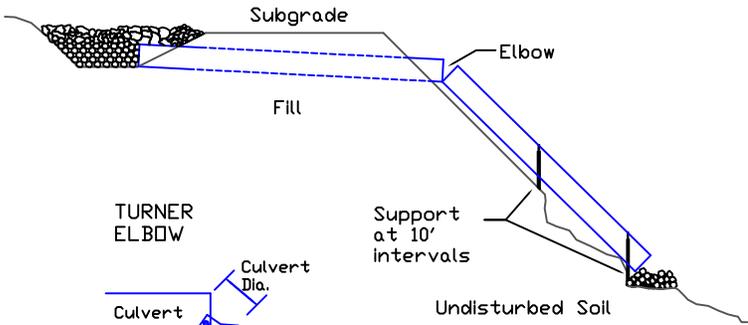


PLAN VIEW

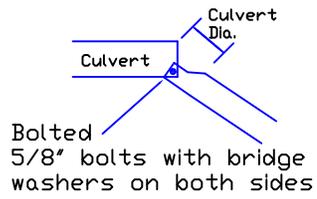


DOWNSPOUT

Use where ground conditions are irregular.



TURNER ELBOW

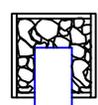


CULVERT BACKFILL & BASE PREPARATION (For Culverts Less Than 36")

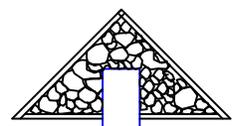
Minimum Cover	Minimum Bed Depth	Min. Trench Width	Nominal Diameter
A	B	C	D
12"	6"	36"	18"
12"	6"	42"	24"
12"	6"	48"	30"
12"	6"	54"	36"

DISSIPATOR SPEC'S
Size In Culvert Diameters

Area	2 X 2
Depth	1
Aggregate	1/3

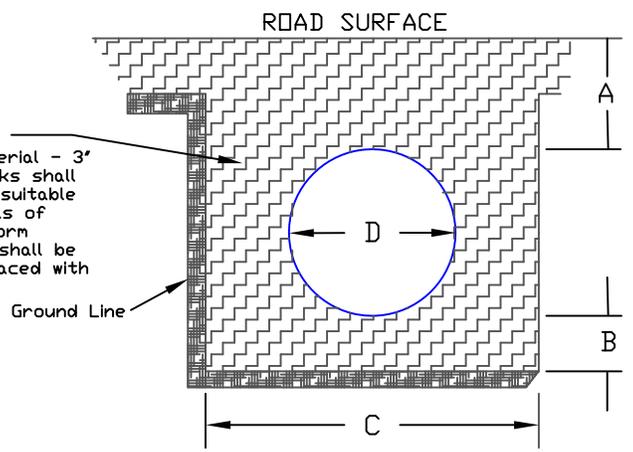


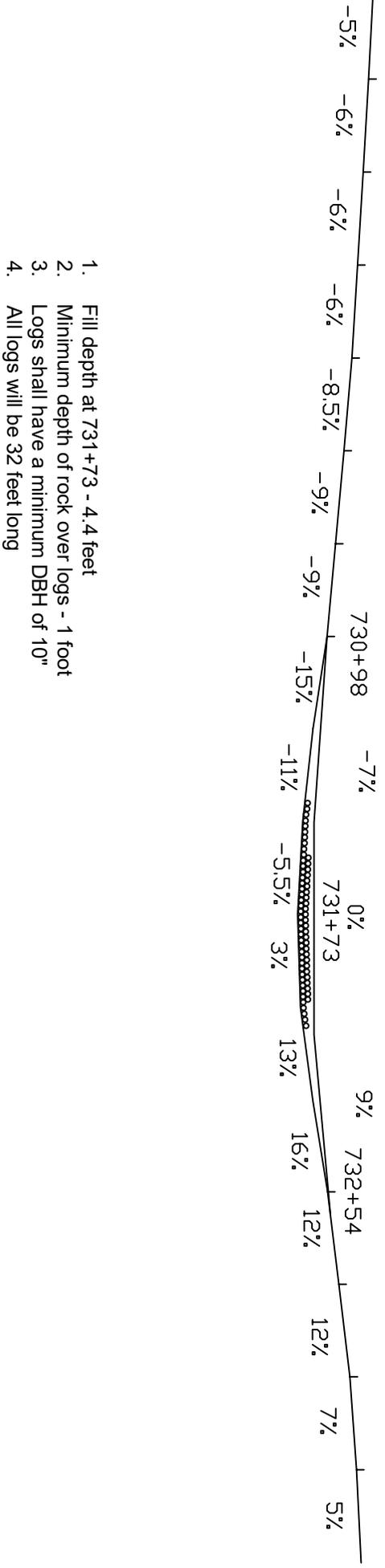
Level



Side Hill

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.





1. Fill depth at 731+73 - 4.4 feet
2. Minimum depth of rock over logs - 1 foot
3. Logs shall have a minimum DBH of 10"
4. All logs will be 32 feet long



<i>County of Kanegan</i>		Neon Corduroy Road		Drawn: JB	Project: Road Corduroy
District: South Okanogan Contract Administrator: Eric Dawson		Revisions		Designed: JB	View: Cross Section
		By	Date	Checked:	Date:
		Legal Description:		Sheet 1/1	

Sale Name -

REGION: Northeast

CONTRACT #: 30-099298 ENGINEER: Jason Bauer

DISTRICT: South Okanogan

DATE: 5/28/19

	<i>Construction</i>	<i>Reconstruction</i>	<i>Maintenance</i>	<i>Deactivation</i>	<i>Abandonment</i>
ROAD NUMBERS:	E352819E		E352819E	E352819E	
Comments:			E352825F E352828E E352832E E352832G E352832H E352836E E352836L E352836M E352836Q E352836S E352931E E362834E Omak Mt Rd		
ROAD STANDARD:	<i>Construction</i>	<i>Reconstruction</i>	<i>Maintenance</i>	<i>Deactivation</i>	<i>Abandonment</i>
NUMBER OF STATIONS:	7.29	0.00	1090.15	1.40	0.00
CLEARING & GRUBBING:	\$124		\$16,096		0
EXCAVATION AND FILL:	\$1,641	\$0	\$39,488	\$700	\$0
MISC. MAINTENANCE:	\$47	\$0	\$7,086		\$0
ROAD ROCK:	\$0	\$0	\$8,070		\$0
ADDITIONAL ROCK:			\$0		\$0
CULVERTS AND FLUMES:	\$781	\$0	\$11,724		\$0
STRUCTURES/MATERIALS:					\$0

TOTAL COSTS:	\$2,593	\$0	\$82,463	\$700	\$0
<i>COST PER STATION:</i>	\$356	\$0	\$76	\$500	\$0

	\$/per move	# of moves	Total
MOBILIZATION:	\$300	6	\$1,800

Extra Grading \$2,059
 Extra Rock \$2,200
 Extra 18X34 culvert \$782
 Total for Extras \$5,041

TOTAL (All Roads) = \$87,556 Extras are not in

SALE VOLUME mbf =

3,030

TOTAL \$/MBF =

\$29

Engineer's Notes: