WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES

TIMBER NOTICE OF SALE

***SALE NAME**: Q COOK* ***AGREEMENT NO**: 30-103037*

AUCTION: September 27, 2022 starting at 10:00 a.m., Northeast Region Office, Colville, WA **COUNTY:** Okanogan

SALE LOCATION: Sale located approximately 8 miles west of Okanogan, WA.

PRODUCTS SOLD AND SALE AREA: All green conifer species except for leave trees banded with blue paint and all standing snags excluding ponderosa pine, except for two standing snags per acre in Units 1, 2, 3, 4, 5, 6 and 7 bounded with white timber sale boundary tags.

All forest products above located on part(s) of Sections 11, 12, 13, 14, 23 and 24 all in Township 33 North, Range 24 East, W.M., containing 280 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	14.7		1,152						314	838		
Douglas fir	14		1,018				247	610	161			
Larch	11.9		69				15	35	19			
Lodgepole	9.3		13					13				
Sale Total			2,252									

MINIMUM BID: $189,000.00 **BID METHOD:** Sealed Bids

PERFORMANCE SECURITY: $37,800.00 **SALE TYPE:** Lump Sum

EXPIRATION DATE: October 31, 2024 **ALLOCATION:** Export Restricted

BID DEPOSIT: $18,900.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: 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: 12.80 stations of required reconstruction. 593.41 stations of required prehaul maintenance. Road construction will not be permitted from November 15 to May 1 unless authorized in writing by the Contract Administrator due to frozen conditions and 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.

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.

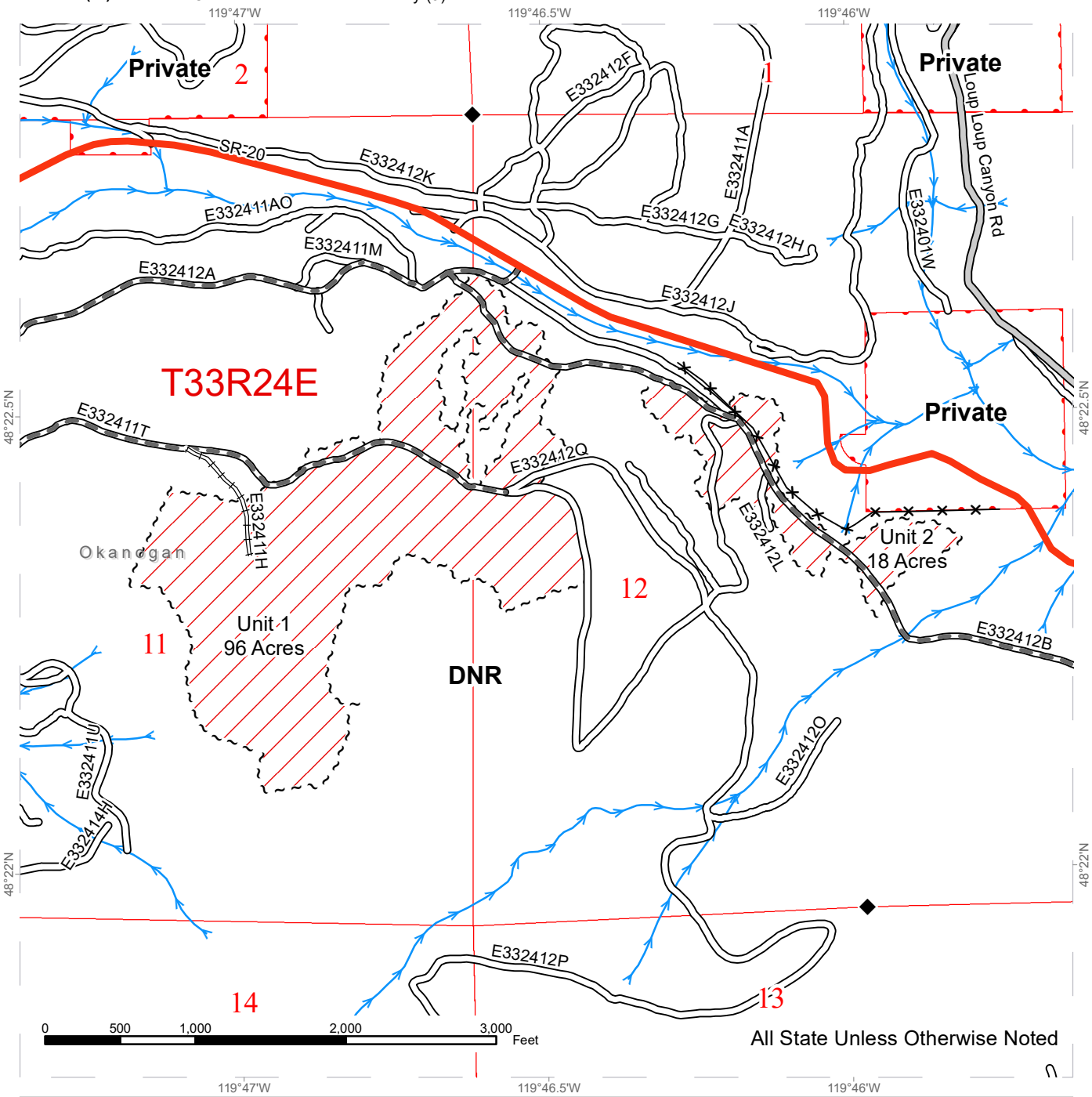
FEES: $38,284.00 is due on day of sale. $9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Locked gates restricts access to Units 3, 4, 5, 6, and 7. Contact the Northeast Region Office at (509) 684-7474 for access.

TIMBER SALE MAP

SALE NAME: Q COOK
AGREEMENT #: 30-103037
TOWNSHIP(S): T33R24E
TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region
COUNTY(S): Okanogan
ELEVATION RGE: 2320-3440



Public Land Survey Sections	County Road	Streams
DNR Managed Lands	Existing Roads	Survey Monument
Variable Retention Harvest	Required Pre-Haul Maintenance	Fence
Sale Boundary Tags	Required Reconstruction	
	Highway	

N

Prepared By: mlou490

Modification Date: rmil490 12/17/2021

TIMBER SALE MAP

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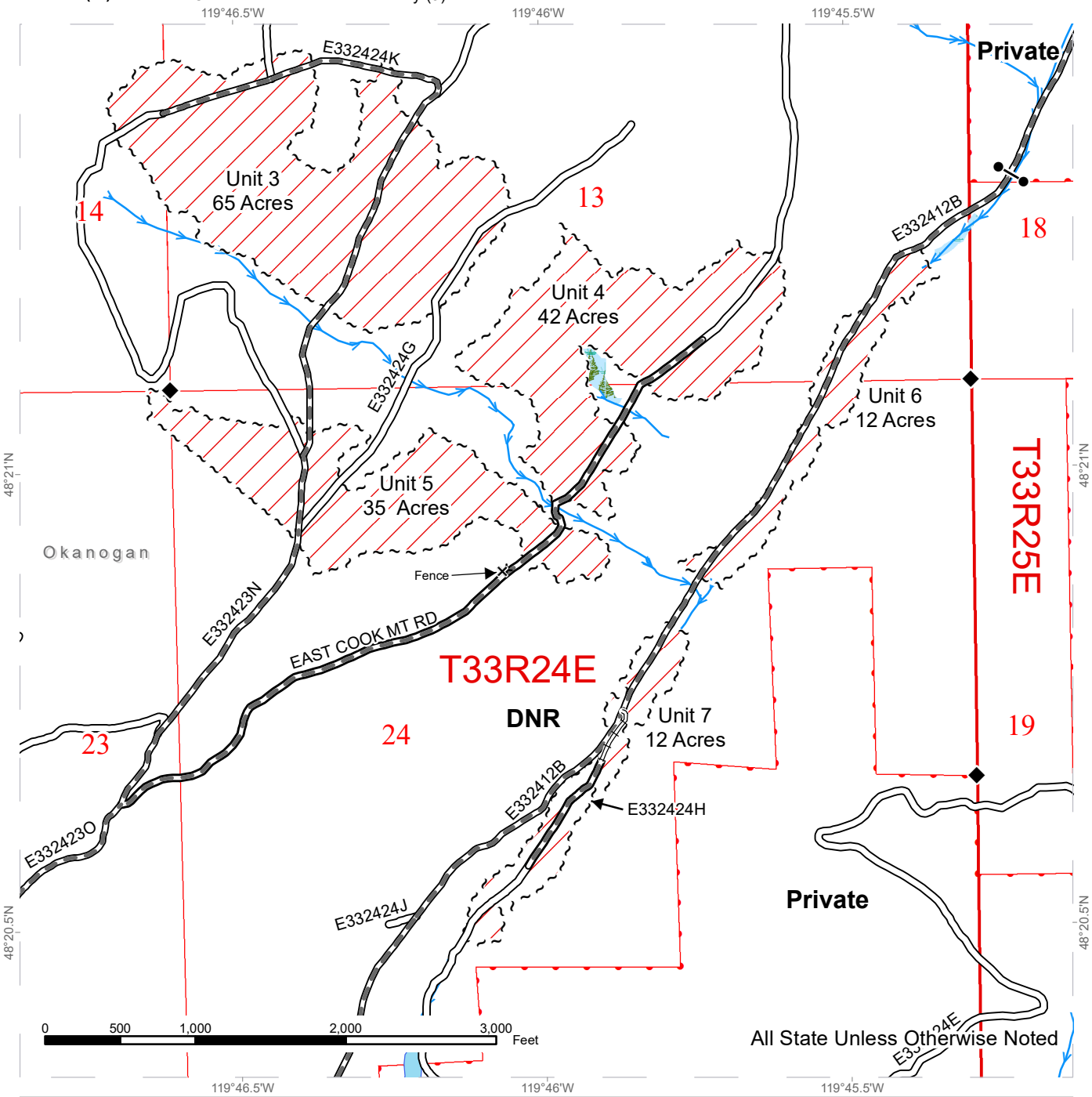

Public Land Survey Sections
DNR Managed Lands
Variable Retention Harvest
Wetlands - Non-forested
Forested Wetland
Sale Boundary Tags
Existing Roads
Required Pre-Haul Maintenance
Required Reconstruction
Streams
Survey Monument
Gate
Fence

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Prepared By: mlou490

Modification Date: rmil490 3/22/2022

DRIVING MAP

SALE NAME: Q COOK TS
AGREEMENT#: 30-103037
TOWNSHIP(S): T33R24E
TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region
COUNTY(S): Okanogan
ELEVATION RGE: 2320-3440

Timber Sale Unit
Haul Route
Highway
Distance Indicator
Gate
Town

DRIVING DIRECTIONS:

From the south end of Okanogan, travel 12.1 miles southwest on State Highway 20 to the Junction of North Cook Mtn Road. Unit 1: Turn left onto North Cook Mtn Road off of State Highway 20, cross the cattle guard and take a right and travel 250 feet and turn left arriving at the north end of Unit 1. Unit 2: Continue on North Cook Mtn Road heading east past Unit 1 for approximately 0.25 miles to arrive at Unit 2. Units 3, 4, and 5: Continue past Unit 1 on North Cook Mtn Road heading south for 4.6 miles, then turn right on the E3322426E road. Travel north on the E332426E road for 1 mile, then turn right on the E332423O road. Travel 0.6 miles to the E332423N and stay straight for 0.6 miles to Unit 3. For Unit 4, travel north 0.6 miles on the East Cook Mtn Road off of the E332423O road. For Unit 5 travel 0.4 miles north on the E332423N road off of the E332423O road. Units 6 and 7: From Unit 1, travel south on the North Cook Mtn Road for 2.7 miles to arrive at Unit 6. Travel 3 miles south from Unit 1 on the North Cook Mtn Road to arrive at Unit 7.

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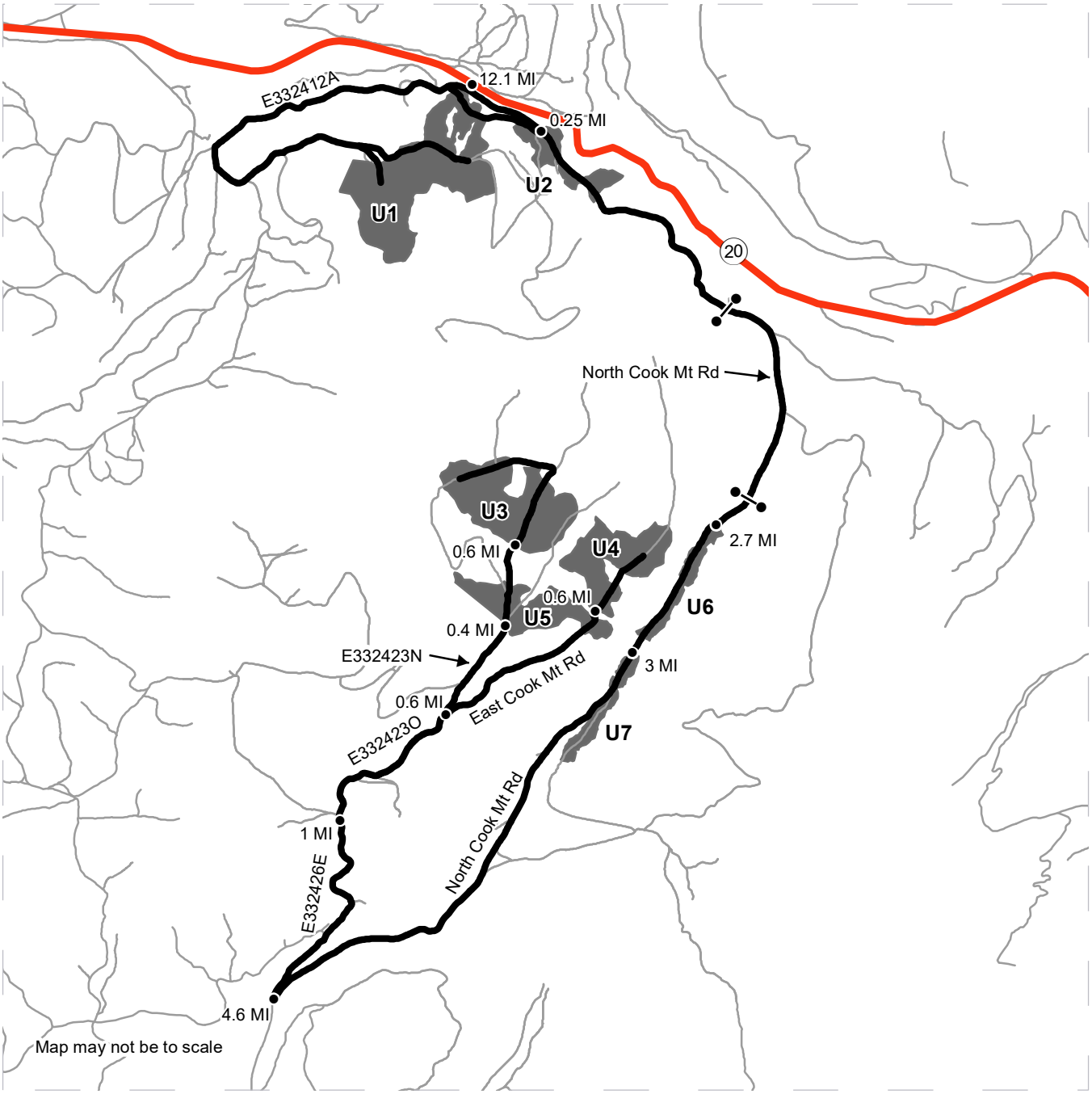
Prepared By: mlou490

Modification Date: rmil490 12/14/2021

DRIVING MAP

SALE NAME: Q COOK TS
AGREEMENT#: 30-103037
TOWNSHIP(S): T33R24E
TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region
COUNTY(S): Okanogan
ELEVATION RGE: 2320-3440



Timber Sale Unit
Haul Route
Other Route
Highway
Distance Indicator
Gate

DRIVING DIRECTIONS:

From the south end of Okanogan, travel 12.1 miles southwest on State Highway 20 to the Junction of North Cook Mtn Road. Unit 1: Turn left onto North Cook Mtn Road off of State Highway 20, cross the cattle guard and take a right and travel 250 feet and turn left arriving at the north end of Unit 1. Unit 2: Continue on North Cook Mtn Road heading east past Unit 1 for approximately 0.25 miles to arrive at Unit 2. Units 3, 4, and 5: Continue past Unit 1 on North Cook Mtn Road heading south for 4.6 miles, then turn right on the E3322426E road. Travel north on the E332426E road for 1 mile, then turn right on the E332423O road. Travel 0.6 miles to the E332423N and stay straight for 0.6 miles to Unit 3. For Unit 4, travel north 0.6 miles on the East Cook Mtn Road off of the E332423O road. For Unit 5 travel 0.4 miles north on the E332423N road off of the E332423O road. Units 6 and 7: From Unit 1, travel south on the North Cook Mtn Road for 2.7 miles to arrive at Unit 6. Travel 3 miles south from Unit 1 on the North Cook Mtn Road to arrive at Unit 7.

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Prepared By: mlou490

Modification Date: rmil490 12/16/2021

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

BILL OF SALE AND CONTRACT FOR FOREST PRODUCTS

Export Restricted Lump Sum AGREEMENT NO. 30-0103037

SALE NAME: Q COOK

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 September 27, 2022 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 except for leave trees banded with blue paint and all standing snags excluding ponderosa pine, except for two standing snags per acre in Units 1, 2, 3, 4, 5, 6 and 7 bounded with white timber sale boundary tags.

All forest products above located on approximately 280 acres on part(s) of Sections 11, 12, 13, 14, 23, and 24 all in Township 33 North, Range 24 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, 2024.

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 $261.00 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: PwC-SFIFM-513.

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.

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.

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

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 Operations

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; E332411B, E332411H, E332411T, E332412A, E332412B, E332423N, E332423O, E332424H, E332424K, E332426E and East Cook Mtn. 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 300 pounds of grass seed to a location designated by the Contract Administrator. Seed provided shall meet the following specifications.

40% Hard Fescue, 40% Streambank Wheatgrass, 20% Intermediate Wheatgrass
Seed shall be certified weed free, premixed and delivered to the 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 E332411B, E332411H, E332411T, E332412A, E332412B, E332423N, E332423O, E332424H, E332424K, E332426E and East Cook Mtn 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 285 with Larsen dated June 7, 1965

G-430 Open Fires

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

G-450 Encumbrances

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

DATA MISSING

Section P: Payments and Securities

P-011 Initial Deposit

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

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of DATA MISSING: No Bid Price Set. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

THE PURCHASE PRICE SHALL NOT BE AFFECTED BY ANY FACTORS, INCLUDING: the amount of forest products actually present within the contract area,

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of $0.00. The Security provided shall guarantee performance of all provisions of this contract and payment of any damages caused by operations under this contract or resulting from Purchaser's noncompliance with any rule or law. Acceptable performance security may be in the form of a performance bond, irrevocable letter of credit, cash, savings or certificate of deposit account assignments, and must name the State as the obligee or beneficiary. A letter of credit must comply with Title 62A RCW, Article 5. Performance security must remain in full force over the duration of the contract length. Surety bonds issued shall conform to the issuance and rating requirements in clause G-150. The State shall retain the performance security pursuant to RCW 79.15.100. Purchaser shall not operate unless the performance security has been accepted by the State. If at any time the State decides that the security document or amount has become unsatisfactory, Purchaser agrees to suspend operations and, within 30 days of notification, to replace the security with one acceptable to the State or to supplement the amount of the existing security.

P-100 Performance Security Reduction

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

Section H: Harvesting Operations

H-001 Operations Outside the Sale Boundaries

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

H-010 Cutting and Yarding Schedule

Falling and Yarding will not be permitted from March 1 to May 1 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 100 square inches.

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

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

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

Removal of designated reserve trees from the sale area is unauthorized, and may invoke the use of the G-230 '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 16 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.

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

H-017 Preventing Excessive Soil Disturbance

Operations may be suspended when soil rutting exceeds 10 inches as measured from the natural ground line. To reduce soil damage, the Contract Administrator may require water bars to be constructed, grass seed to be placed on exposed soils, or other mitigation measures. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-035 Fall Trees Into Sale Area

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

H-050 Rub Trees

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

H-051 Branding and Painting

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

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

H-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-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 D6 equivalent or smaller ground skidding equipment and ground based harvesting equipment. 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 from March 1 to May 1 unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

a. Whole tree yarding is required in Units 1, 2, 3, 4, 5, 6 and 7.

b. Hand felling of trees may be necessary in some units.

c. Slash piles at landings shall be separated from the road prism.

d. If snow plowing occurs, berms shall be removed as designated by the Contract Administrator.

e. No operations associated with timber harvest, hauling, or road work will be permitted within 1/2 mile of an active northern goshawk nest from March 1 to August 1 or later if young are still on the nest.

f. If the utility and standing dead are removed, Purchaser shall leave two standing snags per acre from the larger diameter classes when safe to do so.

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

H-190 Completion of Settings

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

H-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 8/12/2021 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on E332411B, E332411H, E332411T, E332412A, E332412B, E332423N, E332423O, E332424H, E332424K, E332426E and East Cook Mtn 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-090 Landing Location

Landings shall be built 50 feet off the E332411B, E332411H, E332411T, E332412A, E332412B, E332423N, E332423O, E332424H, E332424K, E332426E and East Cook Mtn road(s).

C-130 Dust Abatement

Purchaser shall abate dust on the E332411B, E332411H, E332411T, E332412A, E332412B, E332423N, E332423O, E332424H, E332424K, E332426E and East Cook Mtn roads used for hauling from May 1 to November 15.

C-140 Water Bars

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

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-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 or other releases of hazardous material/waste during operations conducted under this contract.

b. Hazardous Materials Spill Prevention

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

c. Hazardous 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 covered in part a., the Purchaser is responsible for immediately notifying all the following:

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

S-131 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 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 unit in which the tree was damaged.

SIGNATURES

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

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

	STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES
_____ Purchaser	_____ Ken McNamee Northeast Region Manager
_____ Print Name	
Date: _____ Address:	Date: _____

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

STATE OF _____)
)
COUNTY OF _____)

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

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

_____
Notary Public in and for the State of

_____

My appointment expires _____

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: Northeast

Timber Sale Name: Q COOK

Application Number: 30- 103037

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 0 **linear feet**
Road to be constructed (optional and required) but not abandoned

Reconstruction: 1,280 **linear feet**
Road to be reconstructed (optional and required) but not abandoned

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

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

Pre-Haul Maintenance: 59,341 **linear feet**
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

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

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

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

PRE-CRUISE NARRATIVE

Sale Name: **Q Cook**	Region: **Northeast**
Agreement #: **30-103037**	District: South Okanogan
Contact Forester: Steven Hanson Phone / Location: 509-322-8437	County(s): Choose a county, Okanogan
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.	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	T33 R24 S11,12	03	97.5			1.1		96.4	GPS (Garmin)
2	T33 R24 S12	03	18.9			0.6		18.3	GPS (Garmin)
3	T33 R24 S13,14	03	65.4			1.0		64.4	GPS (Garmin)
4	T33 R24 S13,24	03	42.8			0.7		42.1	GPS (Garmin)
5	T33 R24 S24,23,14	03	35.2			0.6		34.6	GPS (Garmin)
6	T33 R24 S13,24	03	12.7			0.7		12.0	GPS (Garmin)
7	T33 R24 S24	03	13.0			1.0		12.0	GPS (Garmin)
TOTAL ACRES			285.5			5.7		279.8	

Revised 03/15/2010 (FRCD)

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1-7	Marked leave with blue paint.		

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	1,247		
2	100		
3	327	Locked gates on North Cook Mt Rd, contact foresters for code, access also possible using Olema rd. off of Chiliwist Rd. South of Malott. The southern route should be easier to launch from in the winter.	
4	213	Locked gates on North Cook Mt Rd, contact foresters for code, access also possible using Olema rd. off of Chiliwist Rd. South of Malott. The southern route should be easier to launch from in the winter.	
5	175	Locked gates on North Cook Mt Rd, contact foresters for code, access also possible using Olema rd. off of Chiliwist Rd. South of Malott. The southern route should be easier to launch from in the winter.	
6	110	Locked gates on North Cook Mt Rd, contact foresters for code, access also possible using Olema rd. off of Chiliwist Rd. South of Malott. The southern route should be easier to launch from in the winter.	
7	110	Locked gates on North Cook Mt Rd, contact foresters for code, access also possible using Olema rd. off of Chiliwist Rd. South of Malott. The southern route should be easier to launch from in the winter.	
TOTAL MBF	2,282		

REMARKS:

For road acreage deductions, 15 feet was used for management standard roads and 10 feet was used for secondary/tertiary roads.

Prepared By: Steven Hanson **Date: 10/26/2021**	**Title:** NRS2	**CC:**

Timber Sale Cruise Report
Cook

Sale Name: Q COOK TS

Sale Type: LUMP SUM

Region: NORTHEAST

District: SO OKANOGAN

Lead Cruiser: Kevin Parkinson

Other Cruisers: Jake Culp, Jake Townsend, Steve Hanson

Cruise Narrative:
Location:
Legal – Sections 11, 12, 13, 14, 23, and 24 of T33N R24E.
General – Approximately 12 miles SW of Omak, WA in Okanogan County.
Access – All units can be accessed from North Cook Mt. Rd. via Hwy. 20

Cruise Design:
-This sale was cruised using variable radius plots, utilizing the cruise-count method. The walk-through method was used on plots near boundaries.
-Minor species cruise intensity: We grade the first tree of all minor species encountered; then follow the set cruise design.
-Min. DBH: 8” DBH for Ponderosa pine, 7" DBH for all other species
-Log Length: 32' logs where possible, minimum of 12' lengths
-Top DIB: Trees less than 17.5" DBH have a minimum top of 4.6" DIB for all species; Trees 17.6" and greater DBH have a minimum top DOB of 40% of DOB at 16' or a 6" top, whichever is greater.

Take/Leave Prescription:
Cut all trees not marked with blue paint within the Timber Sale Area boundary.

Cruise Acres determination:
FMA unit acreages with existing road acreages removed.

Stand composition:
The stands are second growth, even aged ponderosa pine and Douglas fir with minor components of western larch and lodgepole pine. Stocking in the sale is generally low, around 90 sqft. BA/acre. Large residual trees and legacy trees are found within the sale area.

Timber quality:
Timber to be harvested is comprised of domestic quality ponderosa pine (51%), Douglas fir (45%), western larch (3%), and lodgepole pine (<1%).

Stand health/defect:
Defect is low throughout the sale area, around 3.5%. Most defect is in the form of physical damage (sweeps, crooks, forks, etc.). Some fire scars and frost cracks were also seen. Mistletoe can be found affecting some of the western larch.

Aspect:
Northeast, Southeast

Elevation:
2400’-3400’

Harvesting methods:
100% ground based

Slope:
Unit 1- Max 45%, Avg. 13%
Unit 2- Max 30%, Avg. 10%
Unit 3- Max 26%, Avg. 15%
Unit 4- Max 35%, Avg. 14%
Unit 5- Max 35%, Avg. 15%
Unit 6- Max 60%, Avg. 20%
Unit 7 Max 55%, Avg. 18%

Other considerations/remarks:
Units 6 and 7 are in a steep draw. Two areas were removed from the interior of Unit 1 for unstable slopes.

Trust:
This sale is 100% Trust #3.

Timber Sale Notice Volume (MBF)

				MBF Volume by Grade				
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	5 Saw
PP	14.7			1,151			314	838
DF	14.0			1,018	247	610	161	
WL	11.9			69	15	35	19	
LP	9.3			13		13		
ALL	14.0			2,252	261	659	494	838

Timber Sale Notice Weight (tons)

	Tons by Grade				
Sp	All	2 Saw	3 Saw	4 Saw	5 Saw
DF	6,721	1,389	4,156	1,176	
PP	6,521			1,478	5,043
WL	411	76	204	131	
LP	69		69		
ALL	13,722	1,465	4,429	2,785	5,043

Timber Sale Overall Cruise Statistics (Cut + Leave Trees)

BA (sq ft/acre)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR SE (%)	Net Vol (bf/acre)	Vol SE (%)
88.5	4.4	104.5	2.8	9,506	5.3

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
Q COOK U1	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	96.4	97.5	47	11	0
Q COOK U2	B1C: VR, 1 BAF (25.15) Measure/Count Plots, Sighting Ht = 4.5 ft	18.3	18.9	9	5	0
Q COOK U3	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	64.4	65.4	34	11	3
Q COOK U4	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	42.1	42.9	19	7	1
Q COOK U5	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	34.6	35.3	16	6	2
Q COOK U6	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	12.0	12.7	6	4	0
Q COOK U7	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	12.0	13.1	6	3	0
All		279.8	285.8	137	47	6

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Gross	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.0	32	898	882	1.9	1,389.2	246.7
DF	LIVE	3 SAW	Domestic	8.3	32	2,284	2,181	4.5	4,155.7	610.3
DF	LIVE	4 SAW	Domestic	5.3	22	606	577	4.9	1,176.4	161.3
LP	LIVE	3 SAW	Domestic	5.9	32	47	47	0.0	68.9	13.0
PP	LIVE	4 SAW	Domestic	13.6	32	1,130	1,122	0.7	1,478.4	313.9
PP	LIVE	5 SAW	Domestic	7.2	27	3,083	2,994	2.9	5,042.7	837.7
WL	LIVE	2 SAW	Domestic	13.6	32	52	52	0.0	75.6	14.6
WL	LIVE	3 SAW	Domestic	8.9	32	127	127	0.0	204.4	35.4
WL	LIVE	4 SAW	Domestic	5.2	29	72	67	5.8	130.5	18.8

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.0	26	1,409	4.3	2,775.6	394.3
DF	9 - 11	LIVE	Domestic	9.6	32	1,349	4.9	2,556.5	377.3
DF	12 - 14	LIVE	Domestic	12.7	32	638	2.1	999.6	178.5
DF	15 - 19	LIVE	Domestic	16.1	32	218	1.3	345.7	61.0
DF	20+	LIVE	Domestic	19.9	32	25	0.0	44.0	7.1
LP	5 - 8	LIVE	Domestic	5.9	32	47	0.0	68.9	13.0

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
PP	5 - 8	LIVE	Domestic	6.7	26	2,113	2.5	3,703.6	591.1
PP	9 - 11	LIVE	Domestic	9.7	32	978	3.4	1,464.7	273.5
PP	12 - 14	LIVE	Domestic	12.7	32	601	0.0	826.2	168.1
PP	15 - 19	LIVE	Domestic	15.3	32	425	1.9	526.7	118.8
WL	5 - 8	LIVE	Domestic	6.2	28	126	3.2	225.7	35.2
WL	9 - 11	LIVE	Domestic	9.8	32	68	0.0	109.3	19.1
WL	12 - 14	LIVE	Domestic	13.6	32	52	0.0	75.6	14.6

Cruise Unit Report
Q COOK U1

Unit Sale Notice Volume (MBF): Q COOK U1

				MBF Volume by Grade				
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	5 Saw
DF	13.2			713	144	445	125	
PP	13.9			199			26	173
WL	12.4			46	15	19	13	
LP	9.3			13		13		
ALL	13.1			972	159	477	163	173

Unit Cruise Design: Q COOK U1

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	96.4	97.5	47	11	0

Unit Cruise Summary: Q COOK U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	28	136	2.9	0
PP	9	84	1.8	0
WL	3	11	0.2	0
LP	1	3	0.1	0
ALL	41	234	5.0	0

Unit Cruise Statistics (Cut + Leave Trees): Q COOK U1

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	57.9	81.0	11.8	132.8	28.9	5.5	7,683	86.0	13.0
PP	35.7	89.6	13.1	95.1	30.2	10.1	3,401	94.5	16.5
WL	4.7	255.3	37.2	125.6	40.6	23.4	588	258.5	44.0
LP	1.3	685.6	100.0	106.0	0.0	0.0	135	685.6	100.0
ALL	99.6	51.2	7.5	118.6	33.0	5.2	11,807	60.9	9.1

Unit Summary: Q COOK U1

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	28	ALL	13.2	62	77	7,617	7,401	2.8	58.7	55.7	15.3	713.4
LP	LIVE	CUT	1	ALL	9.3	50	62	135	135	0.0	2.7	1.3	0.4	13.0
PP	LIVE	CUT	9	ALL	13.9	59	76	2,155	2,065	4.2	20.6	21.7	5.8	199.0
WL	LIVE	CUT	3	ALL	12.4	55	67	493	481	2.5	4.6	3.8	1.1	46.4
ALL	LIVE	CUT	41	ALL	13.2	60	76	10,401	10,082	3.1	86.6	82.6	22.7	971.9
ALL	ALL	ALL	41	ALL	13.2	60	76	10,401	10,082	3.1	86.6	82.6	22.7	971.9

Cruise Unit Report
Q COOK U2

Unit Sale Notice Volume (MBF): Q COOK U2

				MBF Volume by Grade			
Sp	DBH	Rings/In	Age	All	3 Saw	4 Saw	5 Saw
PP	17.3			237		146	91
DF	14.3			37	30	7	
ALL	16.4			274	30	153	91

Unit Cruise Design: Q COOK U2

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (25.15) Measure/Count Plots, Sighting Ht = 4.5 ft	18.3	18.9	9	5	0

Unit Cruise Summary: Q COOK U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP	11	40	4.4	0
DF	4	8	0.9	0
ALL	15	48	5.3	0

Unit Cruise Statistics (Cut + Leave Trees): Q COOK U2

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
PP	111.8	74.7	24.9	132.6	25.6	7.7	14,827	79.0	26.1
DF	22.4	153.5	51.2	89.9	51.7	25.9	2,009	162.0	57.3
ALL	134.1	47.8	15.9	125.5	32.1	8.3	16,836	57.6	18.0

Unit Summary: Q COOK U2

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	4	ALL	14.3	61	76	2,576	2,009	22.0	20.0	22.4	5.9	36.8
PP	LIVE	CUT	11	ALL	17.3	65	86	13,100	12,974	1.0	59.9	97.8	23.5	237.4
ALL	LIVE	CUT	15	ALL	16.6	64	83	15,676	14,983	4.4	79.9	120.2	29.4	274.2
ALL	ALL	ALL	15	ALL	16.6	64	83	15,676	14,983	4.4	79.9	120.2	29.4	274.2

Cruise Unit Report
Q COOK U3

Unit Sale Notice Volume (MBF): Q COOK U3

				MBF Volume by Grade		
Sp	DBH	Rings/In	Age	All	4 Saw	5 Saw
PP	14.9			354	105	250
ALL	14.9			354	105	250

Unit Cruise Design: Q COOK U3

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	64.4	65.4	34	11	3

Unit Cruise Summary: Q COOK U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF		2	0.1	0
PP	33	120	3.5	0
ALL	33	122	3.6	0

Unit Cruise Statistics (Cut + Leave Trees): Q COOK U3

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	1.2	406.0	69.6						
PP	70.6	61.3	10.5	97.4	35.3	6.1	6,878	70.7	12.2
ALL	71.8	60.2	10.3	97.4	35.3	6.1	6,992	69.8	12.0

Unit Summary: Q COOK U3

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
PP	LIVE	CUT	33	ALL	14.9	54	69	5,626	5,502	2.2	46.6	56.5	14.6	354.3
ALL	LIVE	CUT	33	ALL	14.9	54	69	5,626	5,502	2.2	46.6	56.5	14.6	354.3
ALL	ALL	ALL	33	ALL	14.9	54	69	5,626	5,502	2.2	46.6	56.5	14.6	354.3

Cruise Unit Report
Q COOK U4

Unit Sale Notice Volume (MBF): Q COOK U4

				MBF Volume by Grade		
Sp	DBH	Rings/In	Age	All	4 Saw	5 Saw
PP	13.6			228	25	203
ALL	13.6			228	25	203

Unit Cruise Design: Q COOK U4

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	42.1	42.9	19	7	1

Unit Cruise Summary: Q COOK U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP	22	78	4.1	0
ALL	22	78	4.1	0

Unit Cruise Statistics (Cut + Leave Trees): Q COOK U4

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
PP	82.1	48.6	11.2	79.1	26.3	5.6	6,495	55.3	12.5
ALL	82.1	48.6	11.2	79.1	26.3	5.6	6,495	55.3	12.5

Unit Summary: Q COOK U4

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
PP	LIVE	CUT	22	ALL	13.6	51	66	5,602	5,412	3.4	67.8	68.4	18.6	227.9
ALL	LIVE	CUT	22	ALL	13.6	51	66	5,602	5,412	3.4	67.8	68.4	18.6	227.9
ALL	ALL	ALL	22	ALL	13.6	51	66	5,602	5,412	3.4	67.8	68.4	18.6	227.9

Cruise Unit Report
Q COOK U5

Unit Sale Notice Volume (MBF): Q COOK U5

				MBF Volume by Grade				
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	5 Saw
PP	12.3			107				107
DF	17.1			43	15	22	6	
ALL	13.4			149	15	22	6	107

Unit Cruise Design: Q COOK U5

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	34.6	35.3	16	6	2

Unit Cruise Summary: Q COOK U5

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP	10	43	2.7	0
DF	5	10	0.6	0
ALL	15	53	3.3	0

Unit Cruise Statistics (Cut + Leave Trees): Q COOK U5

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
PP	53.8	58.8	14.7	66.6	45.8	14.5	3,582	74.5	20.6
DF	12.5	247.0	61.8	109.4	14.9	6.7	1,367	247.5	62.1
ALL	66.3	51.4	12.8	74.7	44.6	11.5	4,950	68.0	17.2

Unit Summary: Q COOK U5

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	5	ALL	17.1	56	69	1,403	1,231	12.3	7.1	11.3	2.7	42.6
PP	LIVE	CUT	10	ALL	12.3	44	56	3,082	3,082	0.0	56.1	46.3	13.2	106.6
ALL	LIVE	CUT	15	ALL	12.9	45	57	4,485	4,313	3.8	63.2	57.5	15.9	149.2
ALL	ALL	ALL	15	ALL	12.9	45	57	4,485	4,313	3.8	63.2	57.5	15.9	149.2

Cruise Unit Report
Q COOK U6

Unit Sale Notice Volume (MBF): Q COOK U6

				MBF Volume by Grade			
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw
DF	16.0			117	56	52	9
WL	10.8			23		16	6
ALL	13.9			139	56	68	16

Unit Cruise Design: Q COOK U6

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	12.0	12.7	6	4	0

Unit Cruise Summary: Q COOK U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		1	0.2	0
DF	11	21	3.5	0
WL	4	5	0.8	0
ALL	15	27	4.5	0

Unit Cruise Statistics (Cut + Leave Trees): Q COOK U6

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
PP	3.3	244.9	100.0						
DF	70.0	64.5	26.3	146.2	30.0	9.0	10,234	71.1	27.8
WL	16.7	159.5	65.1	140.4	5.1	2.6	2,340	159.6	65.2
ALL	90.0	43.9	17.9	145.1	25.7	6.6	13,059	50.8	19.1

Unit Summary: Q COOK U6

Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	11	ALL	16.0	68	85	10,083	9,747	3.3	47.7	66.7	16.7	117.0
WL	LIVE	CUT	4	ALL	10.8	67	84	1,872	1,872	0.0	21.0	13.3	4.1	22.5
ALL	LIVE	CUT	15	ALL	14.6	68	85	11,956	11,620	2.8	68.7	80.0	20.7	139.4
ALL	ALL	ALL	15	ALL	14.6	68	85	11,956	11,620	2.8	68.7	80.0	20.7	139.4

Cruise Unit Report
Q COOK U7

Unit Sale Notice Volume (MBF): Q COOK U7

				MBF Volume by Grade				
Sp	DBH	Rings/In	Age	All	2 Saw	3 Saw	4 Saw	5 Saw
DF	15.4			109	32	62	15	
PP	15.5			26			12	14
ALL	15.4			135	32	62	27	14

Unit Cruise Design: Q COOK U7

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	12.0	13.1	6	3	0

Unit Cruise Summary: Q COOK U7

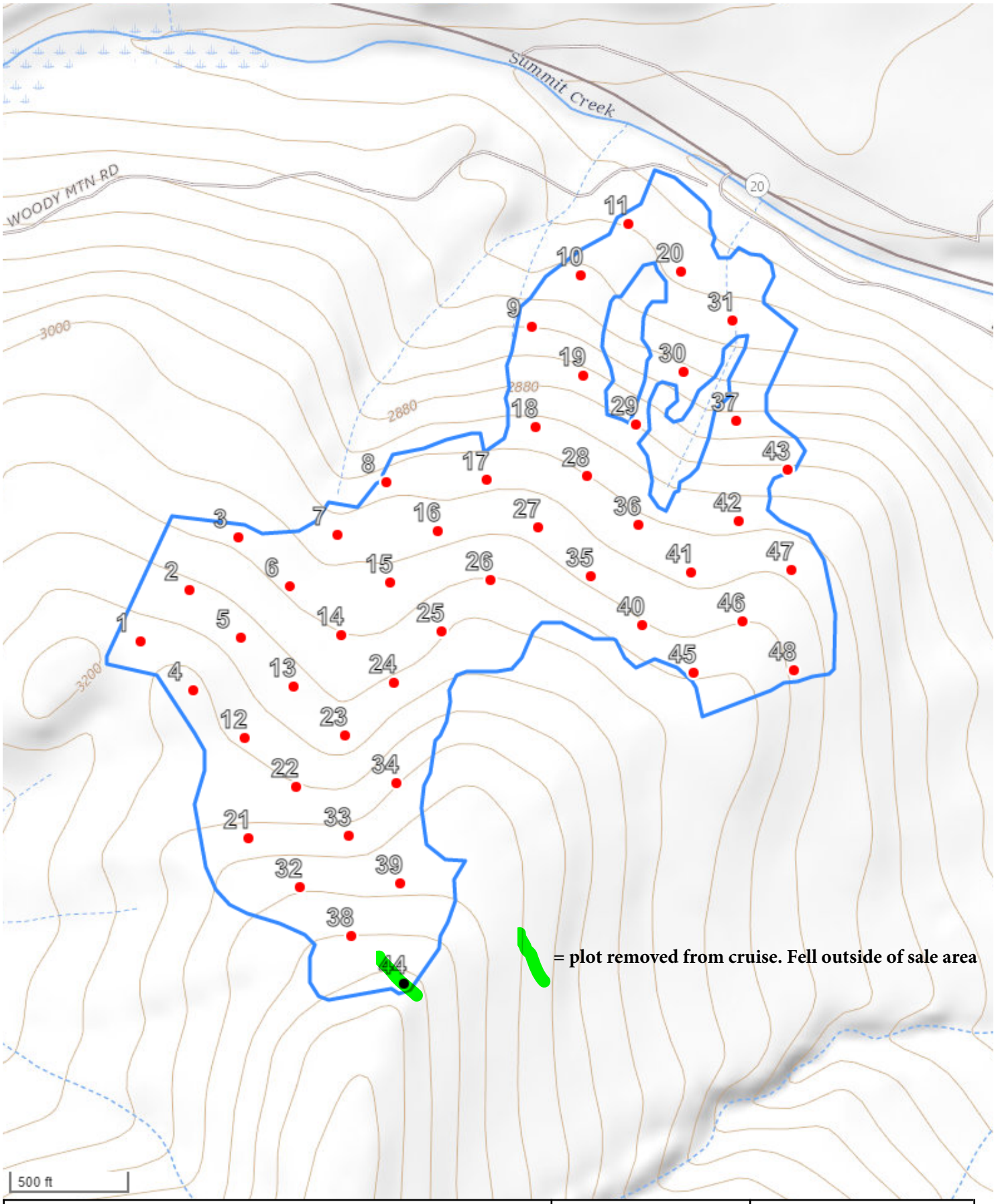
Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	13	25	4.2	0
PP	2	6	1.0	0
ALL	15	31	5.2	0

Unit Cruise Statistics (Cut + Leave Trees): Q COOK U7

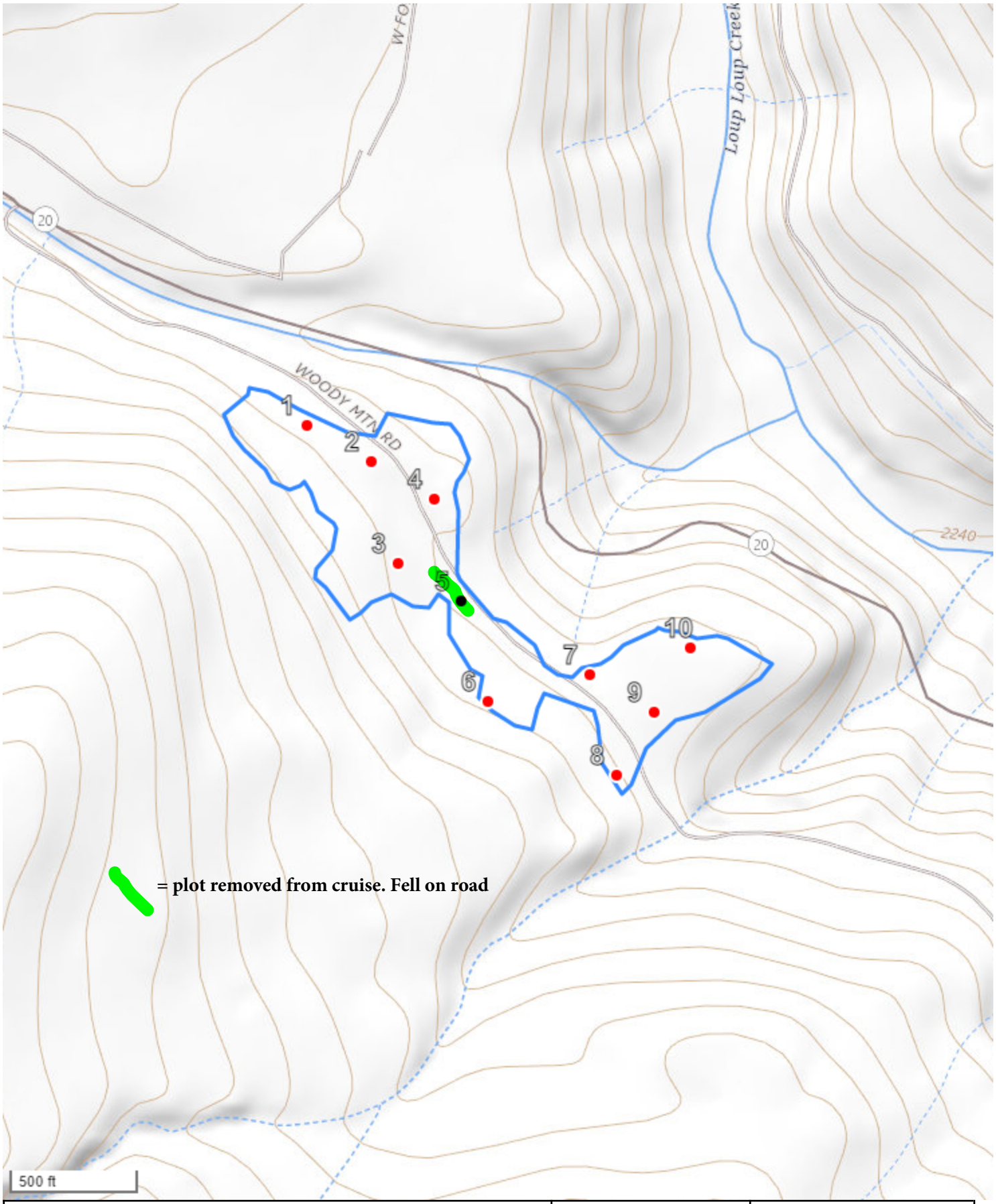
Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	83.3	44.0	18.0	135.6	27.4	7.6	11,304	51.8	19.5
PP	20.0	154.9	63.2	109.4	45.9	32.5	2,187	161.6	71.1
ALL	103.3	22.6	9.2	130.6	29.1	7.5	13,491	36.9	11.9

Unit Summary: Q COOK U7

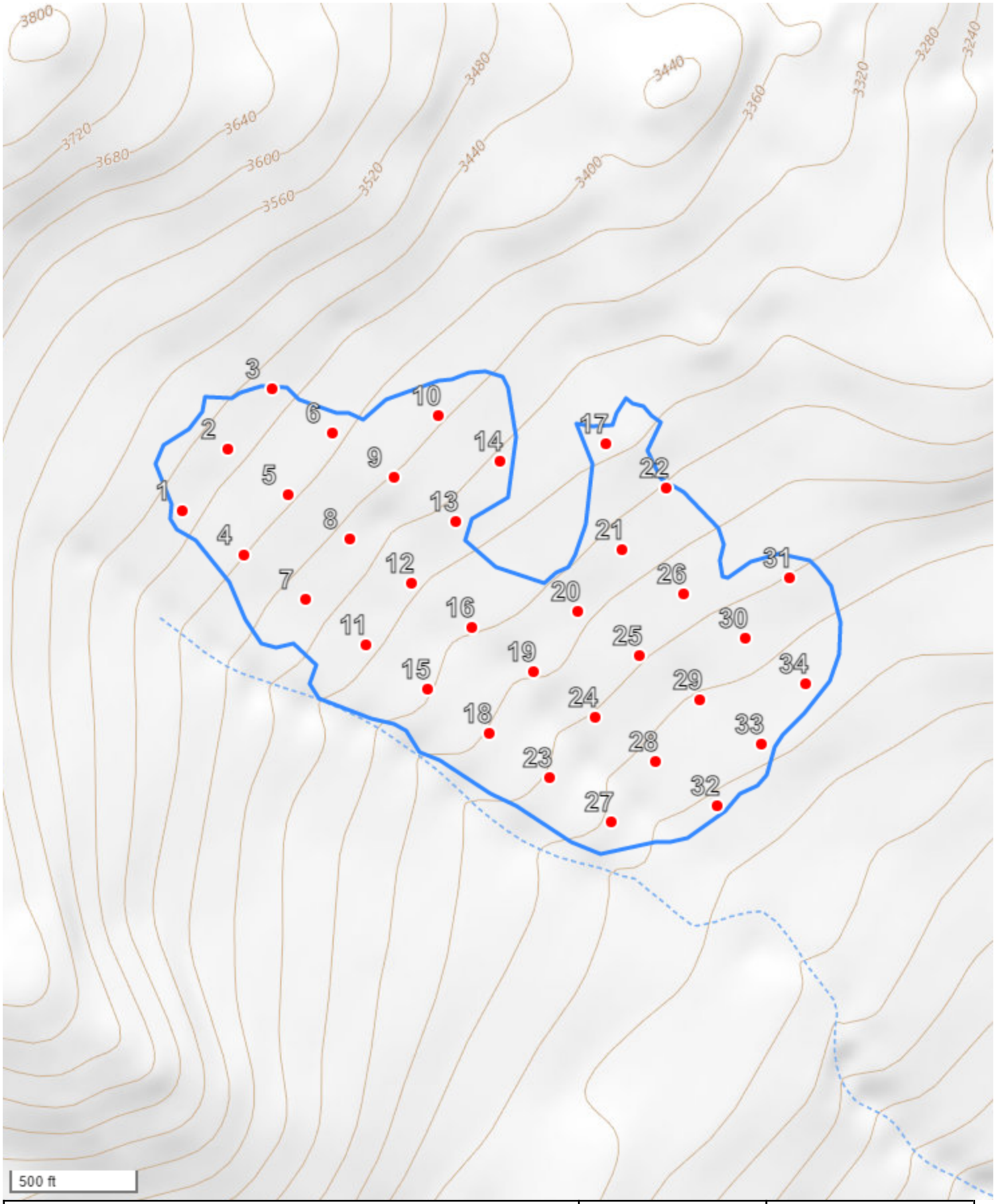
Sp	Status	Rx	N	D	DBH	BL	THT	BF Gross	BF Net	Defect %	TPA	BA	RD	MBF Net
DF	LIVE	CUT	13	ALL	15.4	64	80	9,086	9,043	0.5	51.5	66.7	17.0	108.5
PP	LIVE	CUT	2	ALL	15.5	61	80	2,202	2,187	0.7	15.3	20.0	5.1	26.2
ALL	LIVE	CUT	15	ALL	15.4	63	80	11,288	11,230	0.5	66.8	86.7	22.1	134.8
ALL	ALL	ALL	15	ALL	15.4	63	80	11,288	11,230	0.5	66.8	86.7	22.1	134.8



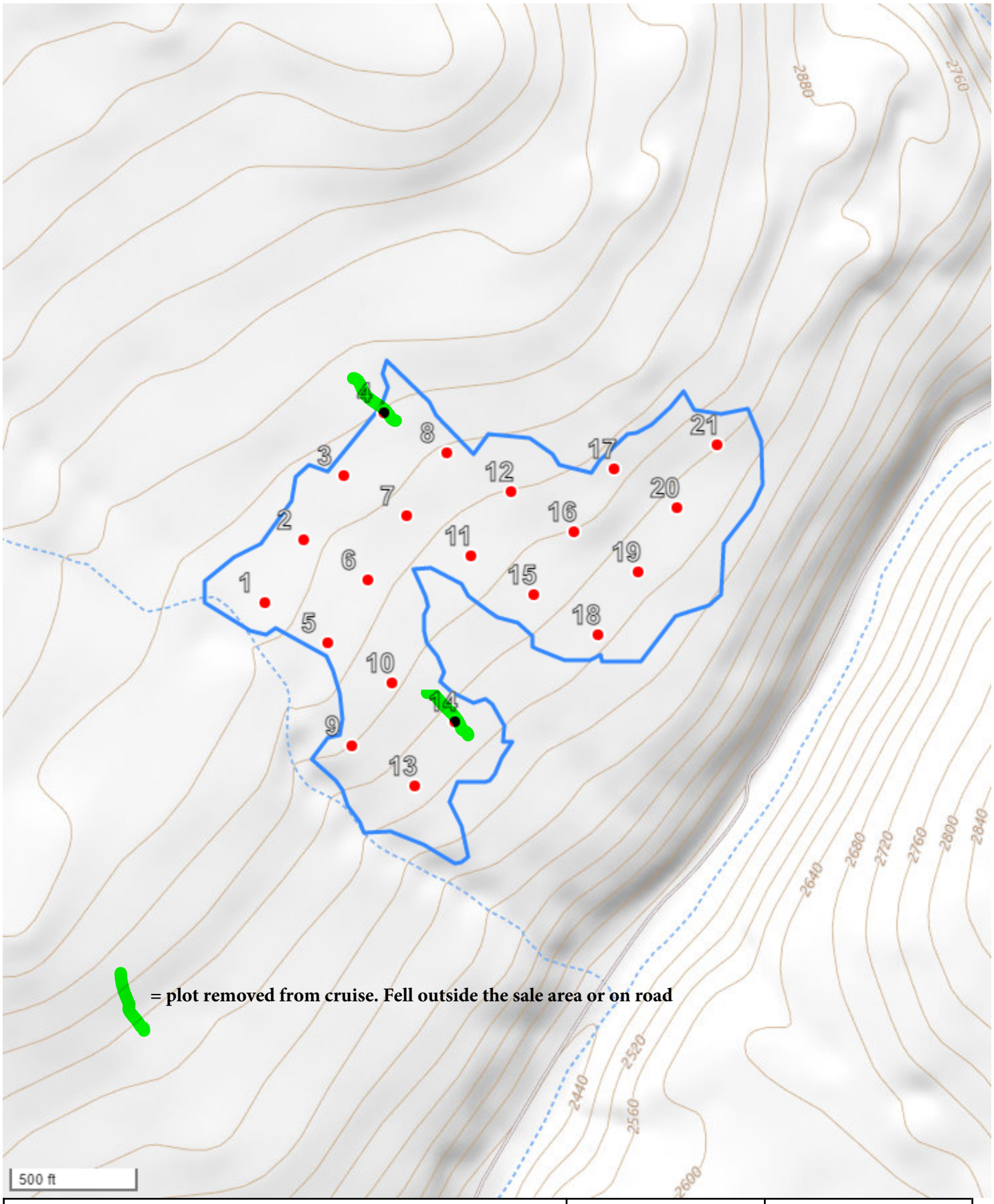
FMA Name: Q COOK U1	**N Plots:** 48	**Plot Spacing:** 294.1 ft
Grid Name: Q COOK U1 - 1	**Acres Treated:** 97.49	**Main Azimuth:** 43.1 deg



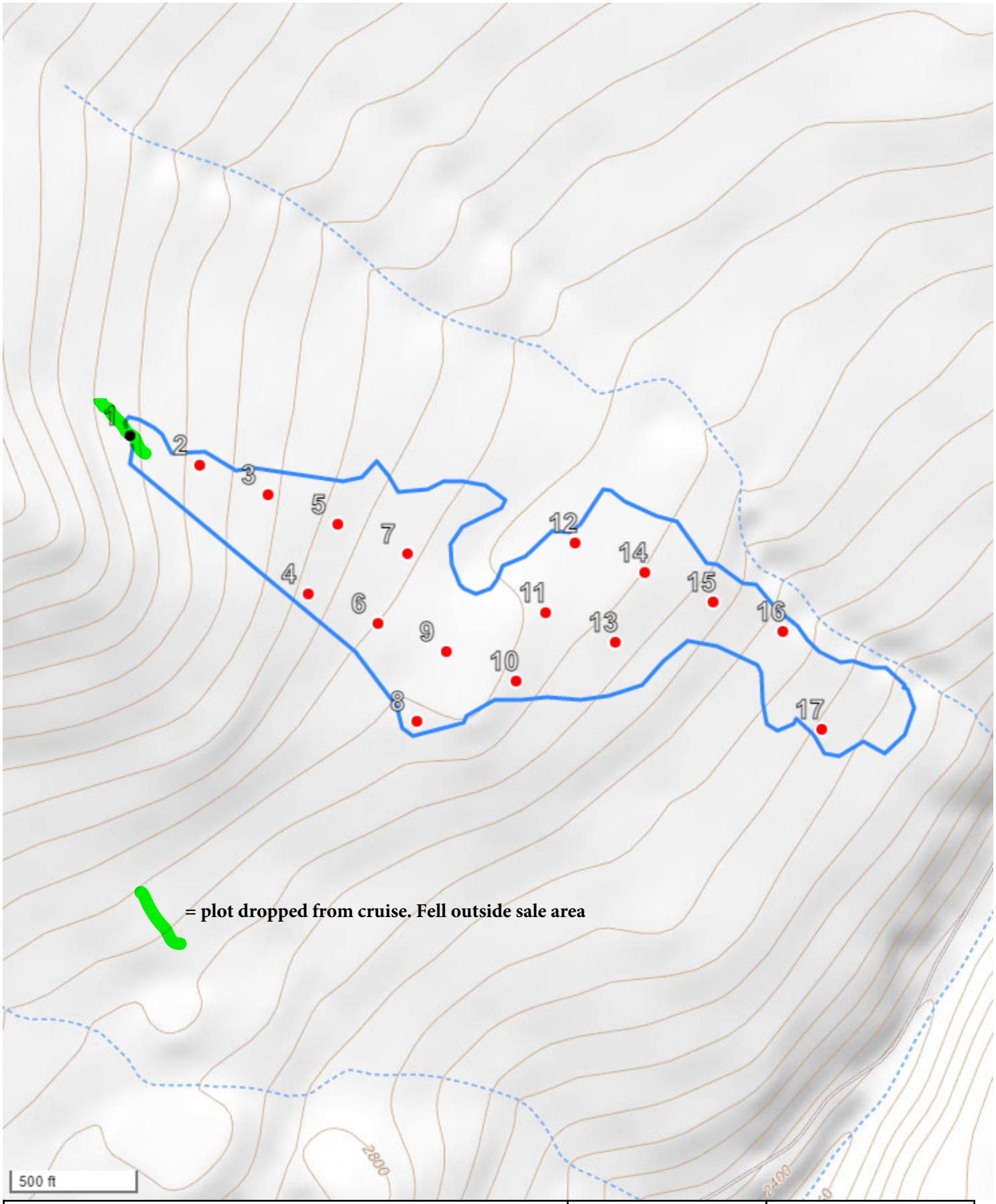
FMA Name: Q COOK U2	**N Plots:** 10	**Plot Spacing:** 286.9 ft
Grid Name: Q COOK U2 - 1	**Acres Treated:** 18.93	**Main Azimuth:** 30.1 deg



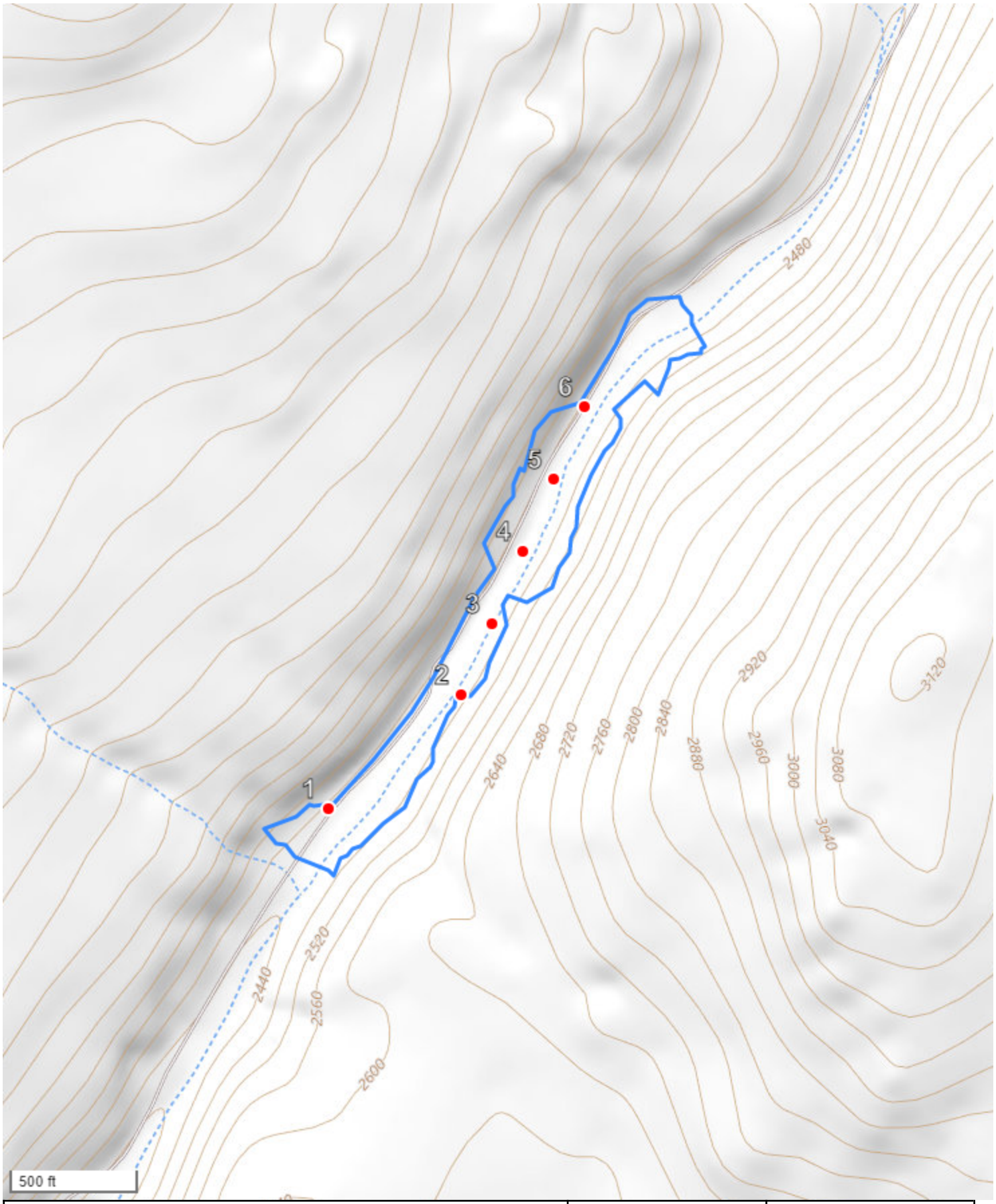
FMA Name: Q COOK U3	**N Plots:** 34	**Plot Spacing:** 293.5 ft
Grid Name: Q COOK U3 - 1	**Acres Treated:** 65.4	**Main Azimuth:** 36 deg



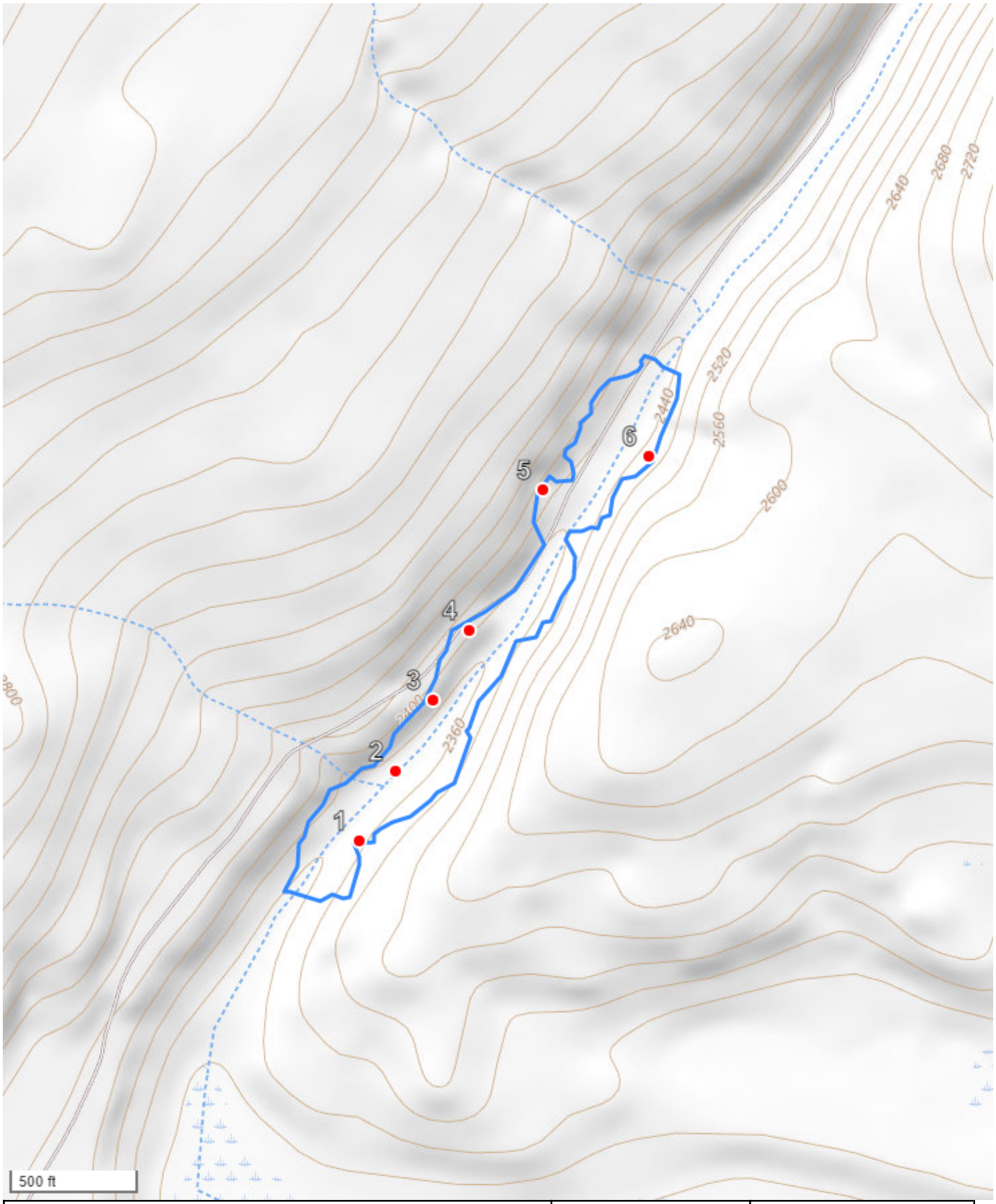
FMA Name: Q COOK U4	**N Plots:** 21	**Plot Spacing:** 291.1 ft
Grid Name: Q COOK U4 - 1	**Acres Treated:** 42.88	**Main Azimuth:** 32 deg



FMA Name: Q COOK U5	**N Plots:** 17	**Plot Spacing:** 291.8 ft
Grid Name: Q COOK U5 - 1	**Acres Treated:** 35.26	**Main Azimuth:** 23 deg



FMA Name: Q COOK U6	**N Plots:** 6	**Plot Spacing:** 303.7 ft
Grid Name: Q COOK U6 - 1	**Acres Treated:** 12.73	**Main Azimuth:** 23 deg



FMA Name: Q COOK U7	**N Plots:** 6	**Plot Spacing:** 307.7 ft
Grid Name: Q COOK U7 - 1	**Acres Treated:** 13.07	**Main Azimuth:** 27.5 deg

Forest Practices Application/Notification

Notice of Decision

FPA/N No: 3025675

Effective Date: 4/27/2022

Expiration Date: 4/27/2025

Shut Down Zone: 678 W

EARR Tax Credit: ☒ Eligible ☐ Non-eligible

Reference: DNR "Q Cook Timber Sale" 11,12,13,14,23,24-33-24

Decision

☐ **Notification Accepted**	Operations shall not begin before the effective date.
☒ **Approved**	This Forest Practices Application is subject to the conditions listed below.
☐ **Disapproved**	This Forest Practices Application is disapproved for the reasons listed below.
☐ **Withdrawn**	Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).
☐ **Closed**	All forest practices obligations are met.

FPA/N Classification

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

Number of Years Granted on Multi-Year Request

☐ 4 years ☐ 5 years

Conditions on Approval/Reasons for Disapproval

No Conditions.

Issued By: Kyle Buckmiller **Region:** Northeast

Title: Forest Practices Forester **Date:** 4/27/2022

Copies to: ☒ **Landowner,** ☒ **Timber Owner** ☒ **Operator**

✓ **Issued in person:** ☒ **Landowner** ☒ **Timber Owner** ☒ **Operator** **By:** Nordis Taylor

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

You must file your appeal at all three addresses below:

Pollution Control Hearings Board	**Office of the Attorney General Natural Resources Division**	**Department Of Natural Resources** Northeast Region
Physical Address 1111 Israel Road, SW Suite 301 Tumwater, WA 98501 Mailing address Post Office Box 40903 Olympia, WA 98504-0903	Physical Address 1125 Washington Street, SE Olympia, WA 98504 Mailing Address Post Office Box 40100 Olympia, WA 98504-0100	225 South Silke Road Colville, WA 99114

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

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

Transfer of Forest Practices Application/Notification (WAC 222-20-010)
Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices website https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and. Notify DNR of new Operators within 48 hours.

Continuing Forestland Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)
Obligations include reforestation, road maintenance and abandonment plans, conversions of forestland to non- forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

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

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

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

DNR Affidavit of Mailing

On this day **4/28/2022**, I placed in the United States mail at **Colville**, WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA #**3025675**

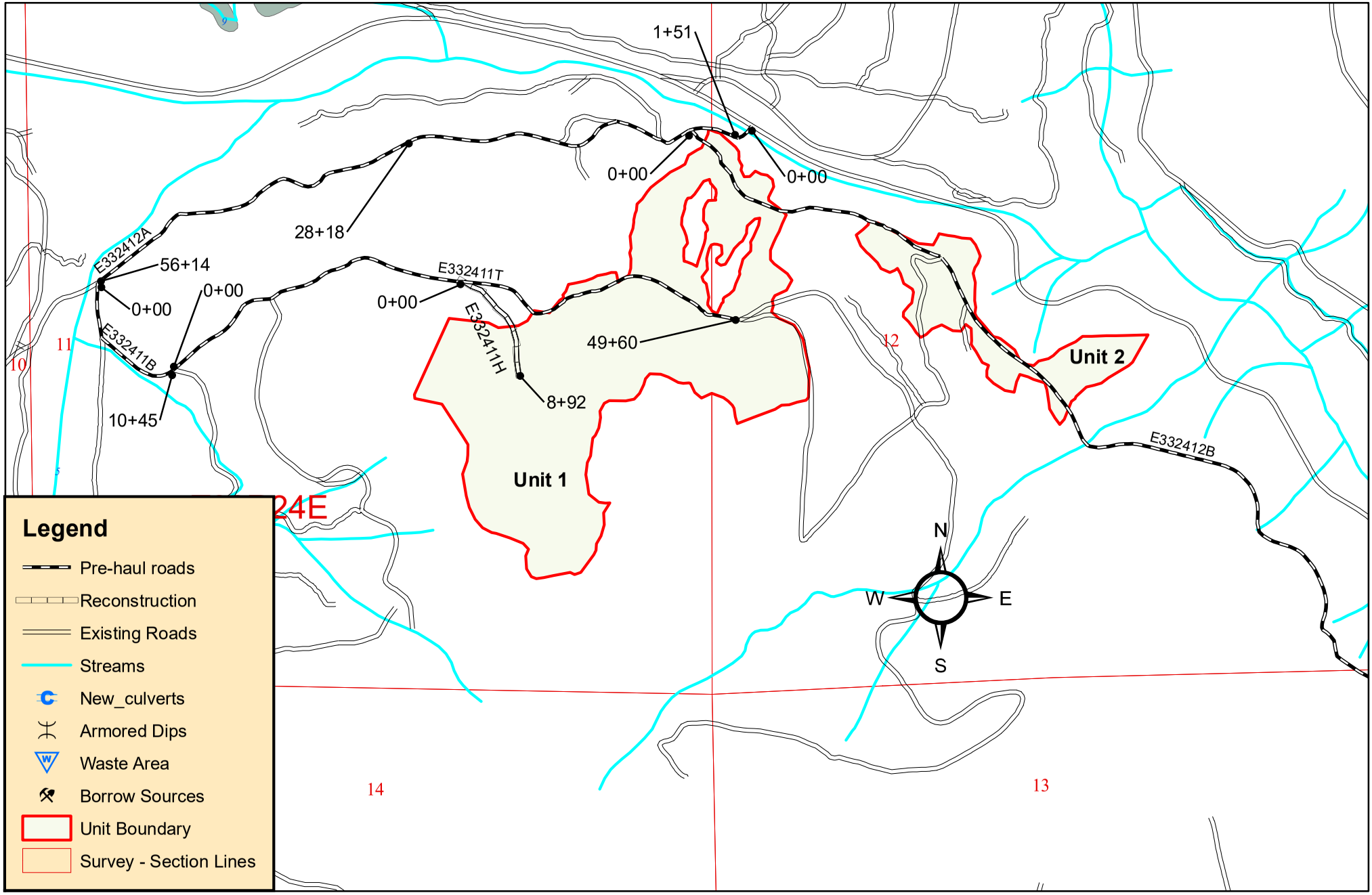
Nondis Taylor
(Printed Name)

(Signature)

Washington State Department of Natural Resources

Sale Name: Q Cook | Map Region: Northeast

Agreement No.: 30-103037 | Page 1 of 3 | County: Okanogan



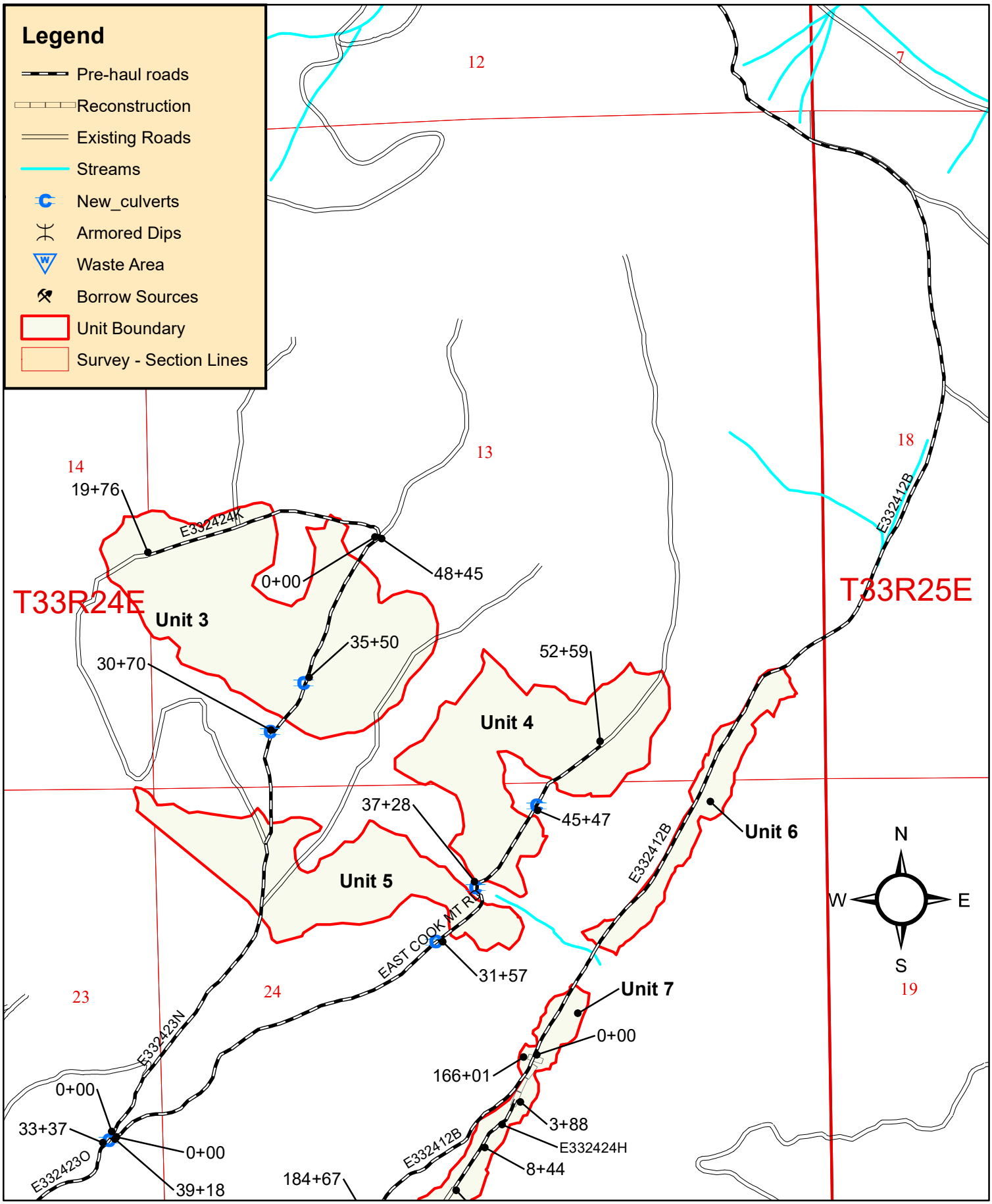
1 inch = 1,000 feet

0 0.075 0.15 0.3 0.45 0.6 Miles

Washington State Department of Natural Resources

Sale Name: Q Cook | Map Region: Northeast

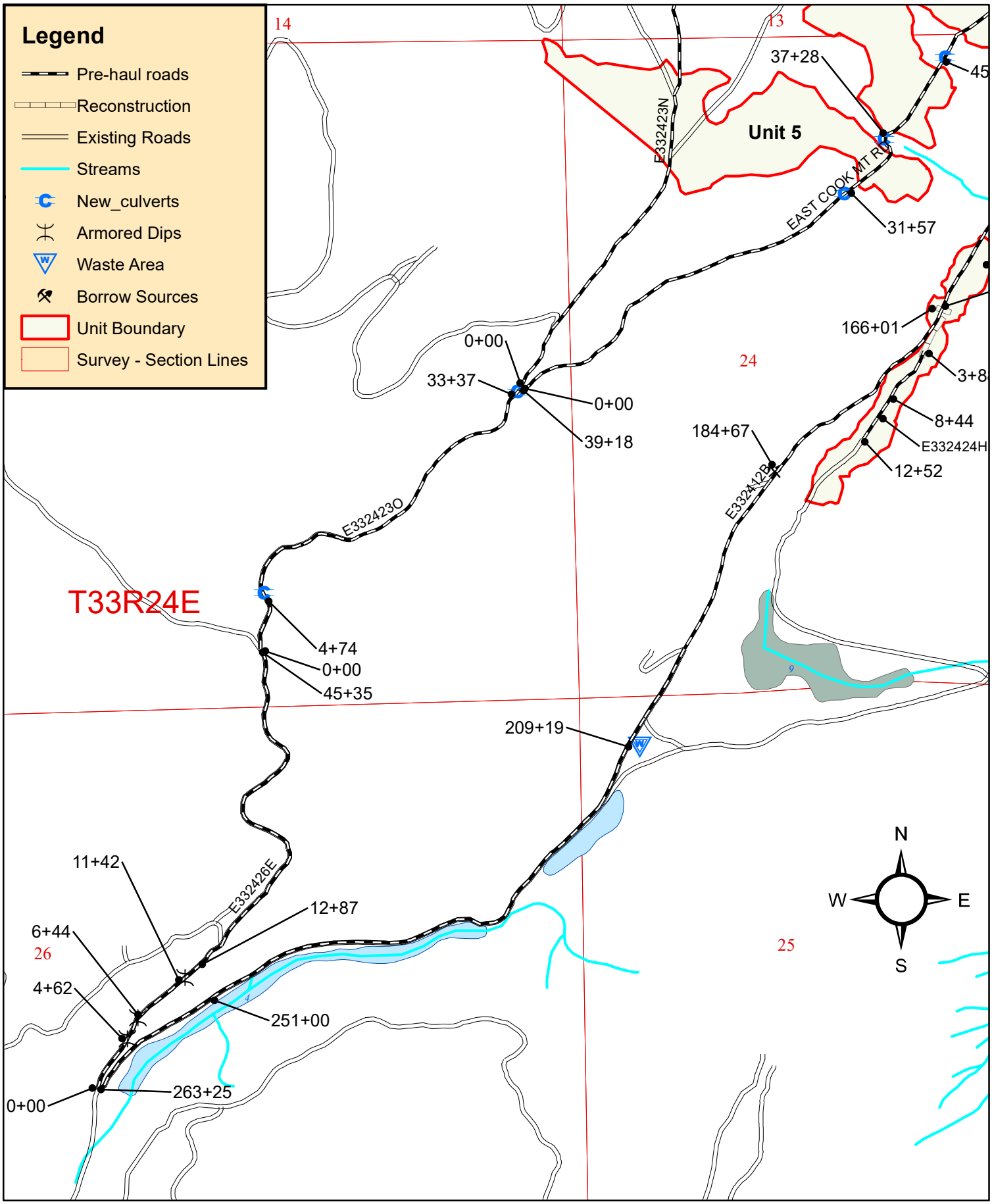
Agreement No.: 30-103037 | Page 2 of 3 | County: Okanogan



1 inch = 1,000 feet

0 0.05 0.1 0.2 0.3 0.4 Miles

Washington State Department of Natural Resources
Sale Name: Q Cook Map Region: Northeast
Agreement No.: 30-103037 Page 3 of 3 County: Okanogan



1 inch = 1,000 feet

0 0.05 0.1 0.2 0.3 0.4 Miles

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Q COOK TIMBER SALE ROAD PLAN
OKANOGAN COUNTY
SOUTH OKANOGAN DISTRICT
NORTHEAST REGION

AGREEMENT NO.: 30-103037 STAFF ENGINEER: JASON BAUER

DATE: 8/12/21 DRAWN & COMPILED BY: RILEY HAUG

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

Road	Stations	Type
E332411B	10.45	Pre-Haul Maintenance
E332411H	8.92	Reconstruction
E332411T	49.60	Pre-Haul Maintenance
E332412A	56.14	Pre-Haul Maintenance
E332412B	263.25	Pre-Haul Maintenance
E332423N	48.45	Pre-Haul Maintenance
E332423O	39.18	Pre-Haul Maintenance
E332424H	8.64	Pre-Haul Maintenance
E332424H	3.88	Reconstruction
E332424K	19.76	Pre-Haul Maintenance
E332426E	45.35	Pre-Haul Maintenance
East Cook Mtn. Rd.	52.59	Pre-Haul Maintenance

0-5 RECONSTRUCTION

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

Road	Stations	Requirements
E332411H	0+00 to 8+92	Reconstruct running surface to 12ft, remove large trees and brush from

		road surface, bring cut slopes back to 1:1
E332424H	0+00 to 3+88	Apply borrow material at 6” deep and 14’ wide to cover exposed rock in road, construct a new ditch on the left

0-6 PRE-HAUL MAINTENANCE

Maintenance includes, but is not limited to: brushing, subgrade reshaping, subgrade lifting, rolling dip and culvert installation, grading, riprap and rock application. Reference the TYPICAL SECTION SHEET, ROCK LIST, and CULVERT & DRAINAGE LIST, for general specifications. Boundaries

Road	Stations	Requirements
E332411B	0+00 to 10+45	Grading
E332411T	0+00 to 49+60	Grading, grubbing and brushing
E332412A	0+00 to 56+14	Grading, clean ditches and clean culverts
E332412B	0+00 to 263+25	Brushing, grubbing, clean ditches and clean culverts
E332423N	0+00 to 48+45	Grading, brushing, grubbing and culvert installation
E332423O	0+00 to 39+18	Grading, brushing, dip improvement, remove fill slope failure and culvert installation
E332424H	3+88 to 12+52	Grading, brushing, grubbing, ditch installation and surface rock application
E332424K	0+00 to 19+76	Grading, brushing and grubbing
E332426E	0+00 to 45+35	Grading, brushing, culvert cleaning, ditch cleaning and dip improvement
East Cook Mtn. Rd.	0+00 to 52+59	Grading, brushing, grubbing, ditch installation, surface rock application and culvert installation

0-7 POST-HAUL MAINTENANCE

This project includes post-haul road maintenance listed in Clause 9-5 POST-HAUL MAINTENANCE9-5 .

1-1 ROAD PLAN CHANGES

If the Purchaser desires a change from this road plan including, but not limited to, relocation, extension, change in design, or adding roads; a revised road plan must be

submitted in writing to the Contract Administrator for consideration. Before work begins, Purchaser shall obtain approval from the State for any submitted plan that changes the scope of work or environmental condition from the original road plan.

1-2 UNFORESEEN CONDITIONS

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

1-3 ROAD DIMENSIONS

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

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. These tolerances do not supersede clauses 1-6, 4-3, and 4-4.

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

1-6 ORDER OF PRECEDENCE

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

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

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 days before the closure of any road. Construction may not close any road for more than 21 consecutive 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.

1-15 ROAD MARKING

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

- Road work and maintenance is marked with orange flagging or red tipped stakes

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

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

1-23 ROAD WORK PHASE APPROVAL

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

- Drainage installation

1-25 ACTIVITY TIMING RESTRICTION

No operation of road construction equipment will be allowed on weekends or state recognized holidays, without written approval from the Contract Administrator.

Construction restrictions apply to this contract. All construction and transportation of heavy equipment and/or trucks is prohibited between the following dates, except as may be authorized in writing by the Contract Administrator.

March 15th - June 1st

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense.

1-29 SEDIMENT RESTRICTION

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

1-30 CLOSURE TO PREVENT DAMAGE

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

- Wheel track rutting exceeds 6 inches on jaw run/pit run roads.
- 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 written by the Contact Administrator upon request. If damage occurs while plowing, further permission to plow may be revoked by the Contract Administrator.

1-40 ROAD APPROACHES TO COUNTY ROADS AND STATE HIGHWAYS

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

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

1-41 REQUIREMENTS FOR PAVED ROAD APPROACHES

Requirements for the State Route 20 road approaches:

Purchaser shall build up approaches with 1 ¼" crushed rock to allow a smooth grade transition between E332412A and State Route 20 roads with no drop. The surface of the E332412A approach must slope down from the edge of the State route 20 road at the rate of 1 inch per foot for a distance of 3 feet unless otherwise directed by the Contract Administrator.

2-1 GENERAL ROAD MAINTENANCE

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

2-4 PASSAGE OF LIGHT VEHICLES

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

2-5 MAINTENANCE GRADING – EXISTING ROAD

Purchaser shall use a grader to shape the existing road surface.

2-6 CLEANING CULVERTS

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

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

Purchaser shall ensure all ditches, headwalls, and catchbasins are clean and functioning. Work must be completed before haul of timber.

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-1 BRUSHING

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

3-2 BRUSHING RESTRICTION

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

3-5 CLEARING

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

3-7 RIGHT-OF-WAY DECKING

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

3-8 PROHIBITED DECKING AREAS

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

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

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET and within waste and debris areas. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. 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 outside of the clearing limits as directed by Contract Administrator and in compliance with all other clauses in this road plan. Piles shall be dirt free and piles with hydraulic excavator.

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 brushing area limits as shown on the 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, before timber hauling.

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 5 feet of a cross drain culvert.
- Within 100 feet of a live stream, or on road subgrades, or excavation and embankment slopes.
- On slopes greater than 40%.
- On locations where brush can fall into the ditch or onto the road surface.
- Against standing timber.

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-31 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 3-22DESIGNATED WASTE AREA FOR ORGANIC DEBRIS, Placement of debris piles outside of the right-of-way limits is subject to the written approval of the Contract Administrator. Piles must be free of rock and soil and made to be burnable.

4-1 EXCAVATOR CONSTRUCTION

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

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

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

4-4 SWITCHBACK STANDARDS

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

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

4-5 CUT SLOPE RATIO

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

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

4-6 EMBANKMENT SLOPE RATIO

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

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-11 KEYED EMBANKMENT

On the following road Purchaser shall key embankments into the native slope in accordance with the KEYED EMBANKMENT DETAIL.

Road	Station
E332426E	12+87

4-14 ONE-FOOT EXCAVATION LIMIT

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

4-21 TURNOUTS

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

4-22 TURNAROUNDS

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

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

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

4-26 DITCH WORK – USE MATERIAL IN EXISTING SUBGRADE

Purchaser shall use the excavated ditch material to build up the subgrade on all native surfaced roads.

4-27 DITCH WORK – MATERIAL USE PROHIBITED

Purchaser shall not pull ditch material across the road or mix in with the road surface. Excavated material must be scattered outside the grubbing limits

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as identified in the table belowand as needed**.** 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

Road	Stations	L or R
E332424H	8+44	L

4-37 WASTE AREA LOCATION

Purchaser shall deposit waste material in the listed designated areas**.** Additional waste areas may also be identified or approved by the Contract Administrator. The amount of material allowed in a waste area is as listed below.

Road	Waste Area Station	Volume (cubic yds)

E332412B	209+19	150

4-46 COMMON BORROW

Common borrow consists of soil, and/or aggregate that is non-plastic and contains no more than 5% clay, organic debris, or trash by volume. The material is considered non-plastic if the fines in the sample cannot be rolled, between the hand and a smooth surface, into a thread at any moisture content. Common borrow material must be free of rocks greater than 6 inches in any dimension.

4-49 BORROW SOURCE

Purchaser shall obtain borrow material from the listed borrow source. Development of the borrow source must be in accordance Section 4-5 CUT SLOPE RATIO.

Source	Location	Type
E332412B	166+01	Common Borrow

4-50 BORROW APPLICATION

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

Road	Stations	Cubic Yards	Type
EE332424H	0+72 to 3+88	90	Common Borrow

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.

4-56 DRY WEATHER SHAPING

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

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material by routing equipment over the entire width of each lift. Compaction muct occur in areas specifically requiring keyed embankment construction.

4-61 SUBGRADE COMPACTION

Purchaser shall compact constructed or reconstructed subgrades to full width. Purchaser shall obtain written approval from the Contract Administrator for subgrade compaction bfore timber haul.

4-62 DRY WEATHER COMPACTION

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

SECTION 5 – DRAINAGE

5-1 REMOVAL OF SHOULDER BERMS

Berms shall be removed from road shoulders to permit the escape of runoff. The construction of ditch outs will be required where ponding will result from the effects of side cast 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 LIST. Culvert, downspout, and flume lengths may be adjusted to fit as-built conditions and may not terminate directly on unprotected soil. Culverts must be new material and meet the specifications in Clauses 10-15 through 10-24.

5-15 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" and the Corrugated Polyethylene Pipe Association's "Recommended Installation Practices for Corrugated Polyethylene Pipe and Fittings". Corrugated Polyethylene pipe must be installed in a manner consistent with the manufacturer's recommendations.

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

Cross drain culverts must be installed with a depth of cover of not less than 1 foot of compacted subgrade over the top of the culvert at the shallowest point. Stream crossing culverts must be installed with a depth of cover specified in the Engineer's design or recommended by the culvert manufacturer for the type and size of the pipe, which ever is greater.

5-24 REPAIR CULVERT INLET

Crushed culvert inlet must be repaired. The repaired culvert must be open, round, not torn, and down next to the ground to allow water to flow freely. On the following road, Purchaser shall repair the culvert inlets:

Road	Station
E332412A	28+18

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 with back slopes consistent with Clause 4-5 CUT SLOPE RATIO.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

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

Road	Station
E332412A	1+51

5-27 ARMORING FOR CULVERTS

Purchaser shall place Light Loose Rip Rap in conjunction with or immediately following construction of the embankment. Rock must be placed on shoulders, slopes, and around culvert inlets and outlets as designated on the CULVERT AND DRAINAGE LIST. Rock may not restrict the flow of water into culvert inlets or catch basins. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed.

5-30 DRIVABLE WATERBAR CONSTRUCTION

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

5-31 ROLLING DIP CONSTRUCTION

Purchaser shall construct rolling dips in accordance with the ROLLING DIP DETAIL and as specified on the CULVERT AND DRAINAGE LIST. Rolling dips must be installed concurrently with construction of the subgrade and must be maintained in an operable condition. Minimum frequency of rolling dips shall be at a maximum spacing of 400 feet horizontal or one for every 10 feet of vertical change.

5-32 ROLLING DIP CONSTRUCTION ON ROAD GRADES STEEPER THAN 10%

Purchaser shall construct rolling dips in accordance with the ROLLING DIP DETAIL and as specified on the CULVERT AND DRAINAGE LIST. Purchaser shall place Light Loose Rip Rap in conjunction with or immediately following construction of the rolling dip. Rock must be placed on shoulders, slopes, and around dip outlets as designated on the CULVERT AND DRAINAGE LIST. Placement must be with a zero-drop-height only. No placement by end dumping or dropping of rock is allowed.

5-33 NATIVE SURFACE ROADS

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

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

Rock used in accordance with the quantities on rock list may be obtained from the following sources on state land at no charge to the Purchaser. Purchaser shall obtain written approval from the Contract Administrator for the use of material from any other source.

Source	Location	Rock Type
E332412B	184+67	Rip Rap

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

6-21 IN-PLACE PROCESSING

Purchaser may use in-place processing, such as a grid roller or other method, if suitable crushing can be demonstrated to meet the surfacing restrictions. The use of in-place processing methods is subject to written approval by the Contract Administrator.

6-22 FRACTURE REQUIREMENT FOR ROCK

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

6-28 1 ¼-INCH MINUS CRUSHED ROCK

% 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.

6-50 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:

Quantity	Approximate Size Range
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:

Quantity	Size Range
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 for 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.

6-76 DRY WEATHER ROCK COMPACTION

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

SECTION 7 – STRUCTURES

7-57 CULVERT SHAPE CONTROL

Purchaser shall monitor the culvert shape during backfill and compaction. Special attention must be paid to maintaining the structure's rise dimensions, concentricity, and smooth uniform curvature. If compaction methods are resulting in peaking or deflection of the culvert, Purchaser shall modify the compaction method to achieve the appropriate end result.

7-70 GATE CLOSURE

Purchaser shall keep gates closed and locked except during periods of haul. All gates must be closed at termination of use.

SECTION 9 – POST-HAUL ROAD WORK

9-5 POST-HAUL MAINTENANCE

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

Road	Stations	Additional Requirements
E332411B	0+00 to 10+45	Grading
E332411H	0+00 to 8+92	Grading and water bars
E332411T	0+00 to 49+60	Grading and water bars
E332412A	0+00 to 56+14	Grading
E332412B	0+00 to 263+25	Grading
E332423N	0+00 to 48+45	Grading and water bars
E332423O	0+00 to 39+18	Grading
E332424H	0+00 to 12+52	Grading and water bars
E332424K	0+00 to 19+76	Grading and water bars
E332426E	0+00 to 45+35	Grading
East Cook Mtn. Rd.	0+00 to 52+59	Grading and water bars

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface as approved, in writing, by Contract Administrator.

9-11 LANDING EMBANKMENT

Purchaser shall slope landing embankments to the original construction specifications.

SECTION 10 MATERIALS

10-3 GEOTEXTILE FOR STABILIZATION

Geotextiles must meet the following minimum requirements for strength and property qualities, and must be designed by the manufacturer to be used for stabilization or reinforcement, and filtration. Material must be free of defects, cuts, and tears.

	ASTM Test	Requirements
Type	--	Woven
Apparent opening size	D 4751	No. 40 max
Water permittivity	D 4491	0.10 sec^{-1}
Grab tensile strength	D 4632	315 lb
Grab tensile elongation	D 4632	50%
Puncture strength	D 6241	620 lb
Tear strength	D 4533	112 lb
Ultraviolet stability	D 4355	50% retained after 500 hours of exposure

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).

10-16 CORRUGATED ALUMINUM CULVERT

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

10-21 METAL BAND

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

10-23 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 in the engineer's design metal culverts must conform to the following specifications for gage and corrugation as a function of diameter.

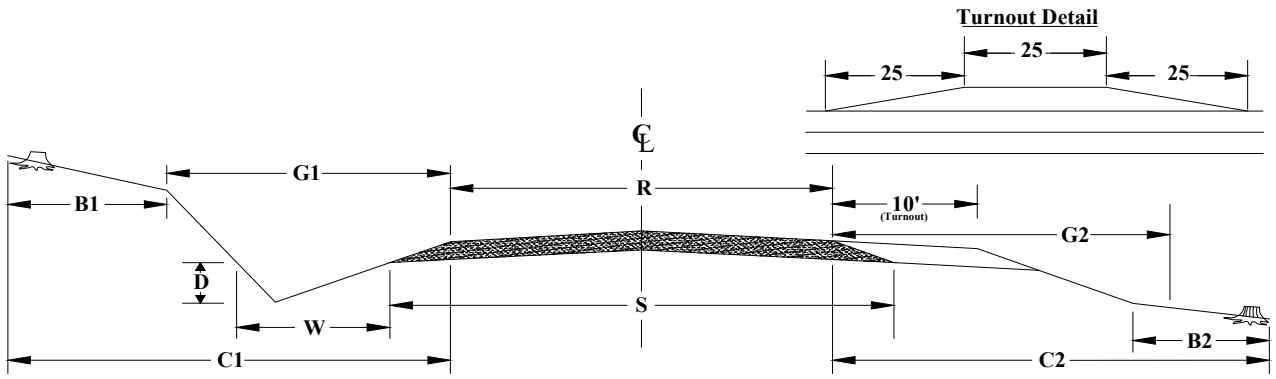
Diameter	Gauge	Corrugation
18"	16 (0.064")	2 $^{2}/_{3}$" X $^{1}/_{2}$"
24" to 48"	16 (0.079")	2 $^{2}/_{3}$" X $^{1}/_{2}$"
54" to 96"	12 (0.109")	3" X 1"

State of Washington

Department of Natural Resources

Application No. : 30-103037 **Name of Sale: Q Cook**

Typical Section Sheet



CONSTRUCTION CLASS
NEW CONSTRUCTION - C
RECONSTRUCTION - R
PRE HAUL MAINTENANCE - P

SECTION VIEW

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)	START DITCH CONSTRUCTION	END DITCH CONSTRUCTION	GRUBBING CUT BANK (G	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (B1	ROAD FILL CLEARING (B	R/W CUT CLEARING (C1)	R/W FILL CLEARING (C2)
E332411B	0+00	10+45	P		12		4										6	6
E332411H	0+00	8+92	R	14			4						3	3			6	6
E332411T	0+00	49+60	P		12		4						3	3			6	6
E332412A	0+00	56+14	P		12			3	3	1							6	6
E332412B	0+00	263+25	P		12			3	3	1							6	6
E332423N	0+00	48+45	P		12		4										6	6
E332423O	0+00	39+18	P		12		4										6	6
E332424H	0+00	3+88	R	14				3	3	1	0+00	3+88	3	3			6	6
E332424H	3+88	8+44	P		12			3	3	1	3+88	8+44	3	3			6	6
E332424H	8+44	12+52	P		12		4						3	3			6	6
E332424K	0+00	19+76	P		12		4						3	3			6	6
E332426E	0+00	45+35	P		12			3	3	1							6	6
E Cook Mtn.	0+00	52+59	P		12		4				29+75	31+57					6	6

STATE OF WASHINGTON

DEPARTMENT OF NATURAL RESOURCES

Application No.: 30- 103037 **Name of Sale: Q Cook** **Date: 8/17/21**

CULVERT & DRAINAGE LIST

Road Name	Station	CULVERT			LENGTH			RIPRAP			Ditch	Staked	Rolling Dip	Notes
		Diameter (in)	Gauge	Skew	Culvert (ft)	Downspout	Flume	Inlet C.Y.	Outlet C.Y.	Catchbasin				
E332423N	30+70	24	14		40			1	1			yes		1,2,6,10,11
E332423N	35+50	18	16		42			1	1			yes		1,2,6,10,11
E332423O	4+74	18	16		42			1	1			yes		1,2,6,10,11
E332423O	33+37	18	16		36			1	1			yes		1,2,6,10,11
E332426E	4+62			35					1				yes	6,9,12
E332426E	6+44			35					1				yes	6,9,12
E332426E	11+42			35					1				yes	6,9,12
East Cook	31+57	24	14		30			1	1		yes	yes		1,2,6,10,11
East Cook	37+28	18	16		40			1	1			yes		1,2,6,10,11
East Cook	45+47	24	16		30			1	1			yes		1,2,6,10,12

STRUCTURE NOTES

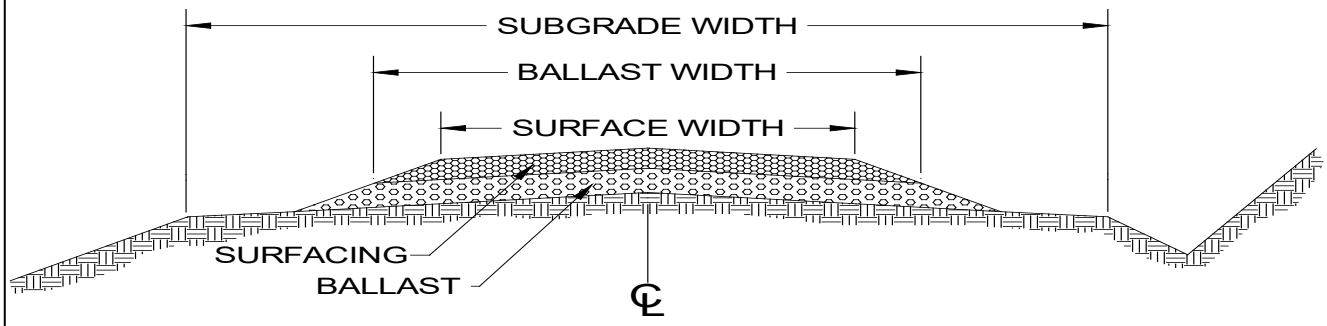
1. Install Headwall - See Detail D1
2. Install Catchbasin - See Detail D1
3. Armor Catchbasin - See Detail D1
4. Armor Ditch
5. Heavy Loose RipRap
6. Light Loose RipRap
7. Step Bevel Pipe Ends
8. Remove Existing Pipe
9. See Armored Rolling Dip Detail D5
10. See Pipe Installation Detail D1
11. Install Energy dissipator - See D1
12. See Armored dip detail

STATE OF WASHINGTON

DEPARTMENT OF NATURAL RESOURCES

Application No.: 30-103037 **Name of Sale: Q Cook**

ROCK LIST



SECTION VIEW

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

ROAD NAME	START STATION	END STATION	SUBGRADE WIDTH (ft)	BALLAST SOURCE	BALLAST WIDTH (ft)	BALLAST DEPTH (in)	BALLAST QTY (cu.yd./sta)	SURFACE SOURCE	SURFACE WIDTH (ft)	SURFACE DEPTH (in)	SURFACE QTY (cu.yd./sta)	FABRIC WIDTH (ft)
East Cook Mtn. Rd.	30+57	31+57							12	3	11	
East Cook Mtn. Rd.	44+97	45+97							12	3	11	
							0				0	
							0				0	
							0				0	
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DATE: 2/3/22

FOREST ROAD ACCESS

Road Maintenance Specifications

Prior to Acceptance of Contract or Acceptance on Timber Sale

A. Cuts and Fills

(1) Maintain slope lines as constructed. Remove slides from the ditches and roadway. Replace fills to 1 ½:1 slopes with selected material or as directed. Remove overhanging material from cut slopes.

(2) Material from slides or other sources requiring removal must not be deposited in streams or at locations where it will erode into streams or water courses.

(3) Undesirable slide materials and debris must not be allowed to contaminate or mix with surface material.

B. Roadway Surfaces

(1) Grade and shape road surface, turnouts and shoulder to original crown, inslope or outslope as directed to provide suitable traveled surface and surface water runoff in an even, unconcentrated manner.

(2) Blading must not undercut backslopes at bottom of cut slopes.

(3) Watering may be required to control dust and to retain fine surface rock.

(4) Desirable surface material shall not be bladed off roadway.

(5) Replace surface material lost or worn away.

(6) Remove berms except as otherwise directed by the State.

C. Drainage

(1) Keep ditches and drainage channels at outlets and inlets of culverts clear of obstructions.

(2) Inspect and clean culverts at least monthly, with additional inspection during storms and periods of high runoff. This must be done even during periods of inactivity.

(3) Place non erodable material or rock at drainage outfalls.

(4) Keep silt bearing surface runoff from contaminating live streams.

D. Structures

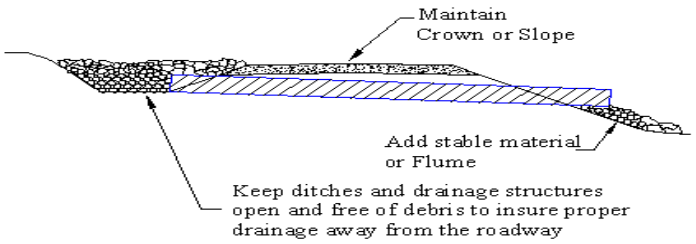
(1) Repair bridges, culverts, cattle guards, fences and other road structures to conditions required by construction specifications.

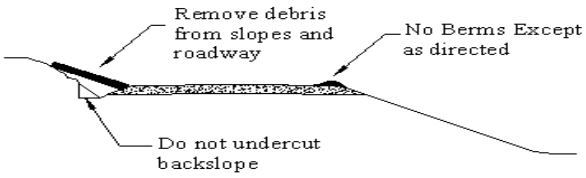
E. Termination of Use, or End of Season

(1) Do maintenance work to minimize damage from the elements such as blading to insure correct runoff, ditch and culvert clearing and water bars.

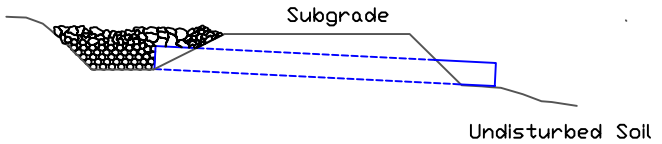
F. Debris

(1) Remove fallen timber, limbs, stumps from slopes and roadway, ditchlines and culvert inlets.

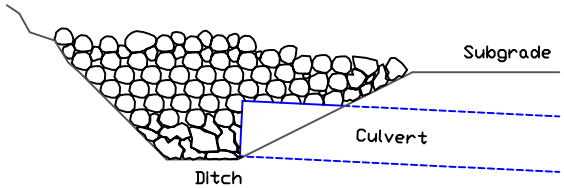




CULVERT AND DRAINAGE SPECIFICATIONS DETAIL - D1

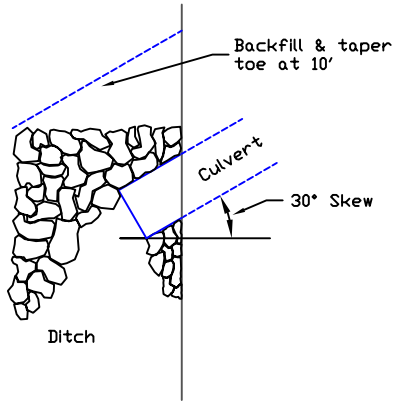


HEADWALLS



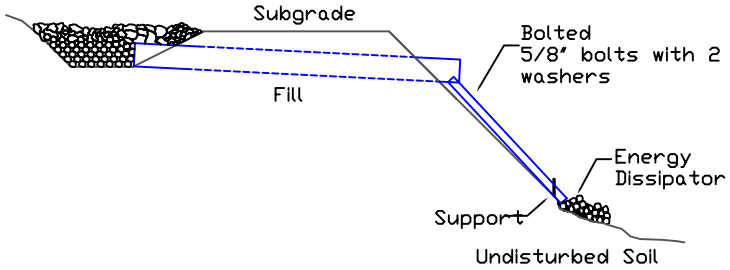
Headwall to be constructed of material that will resist erosion

PLAN VIEW



FLUME

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



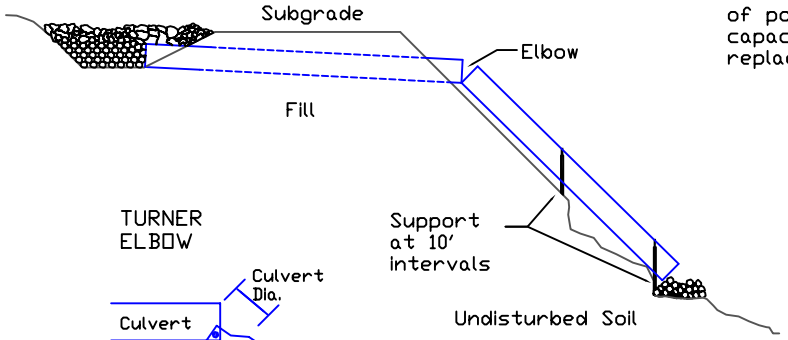
Minimum Cover	Minimum Bed Depth	Min. Trench Width	Nominal Diameter
A	B	C	D
12"	6"	36"	18"
12"	6"	42"	24"
12"	6"	48"	30"
12"	6"	54"	36"

CULVERT BACKFILL & BASE PREPARATION

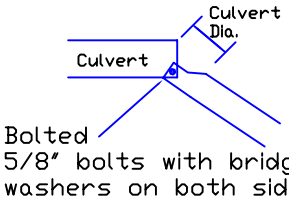
(For Culverts Less Than 36")

DOWNSPOUT

Use where ground conditions are irregular.



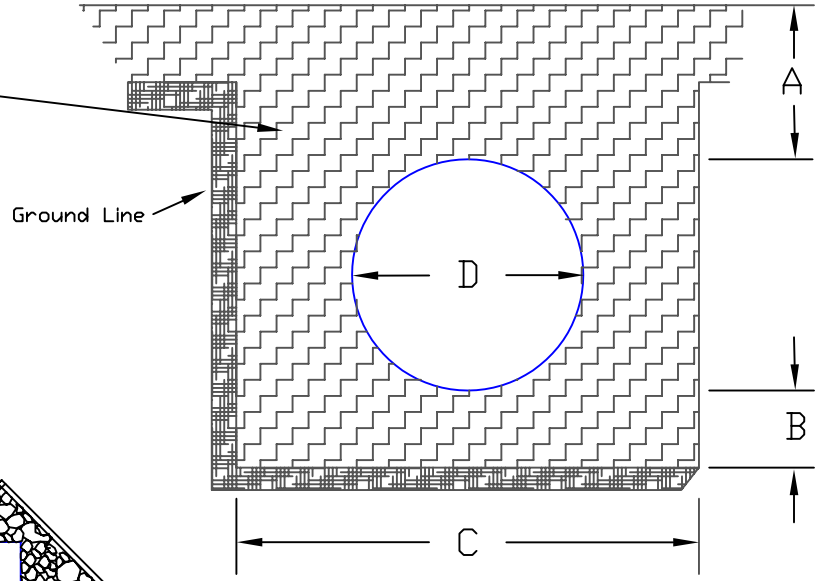
TURNER ELBOW



BEDDING MATERIAL:

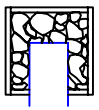
Use granular material - 3" minus. Large rocks shall be replaced with suitable material. Materials of poor or non-uniform bearing capacity shall be removed and replaced with suitable fill.

ROAD SURFACE

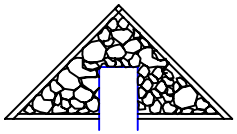


DISSIPATOR SPEC'S
Size in Culvert Diameters

Area	2 X 2
Depth	1
Aggragate	1/3

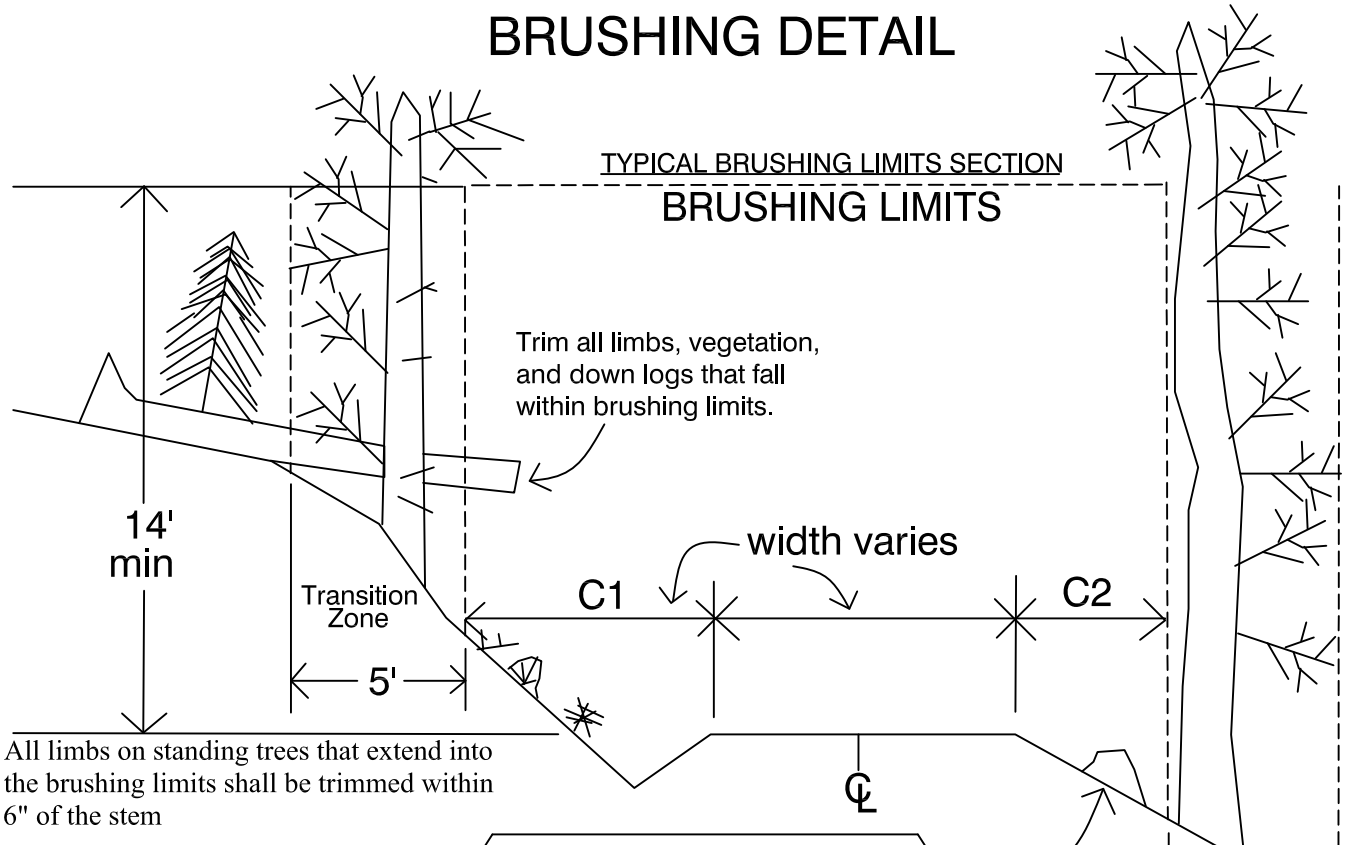


Level



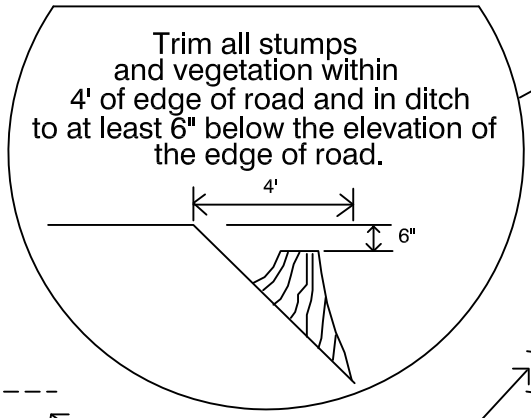
Side Hill

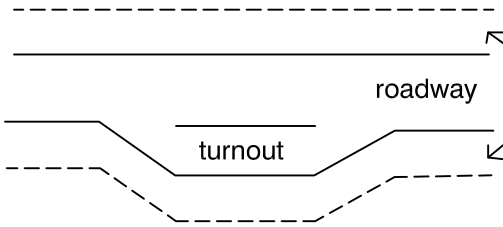
BRUSHING DETAIL



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.

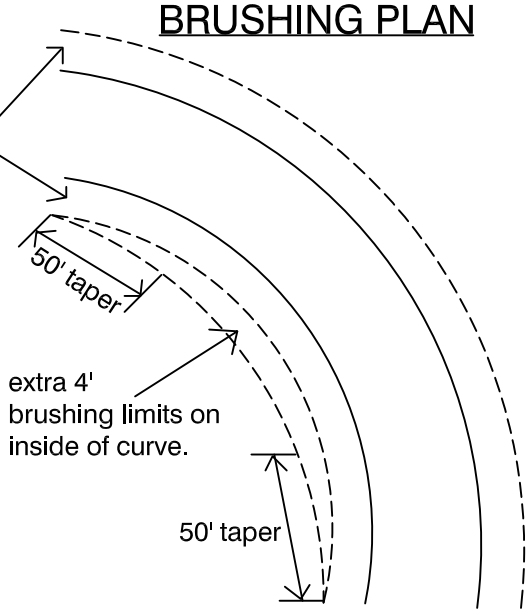




Brushing limits as shown on typical section

TURNOUT BRUSHING PLAN

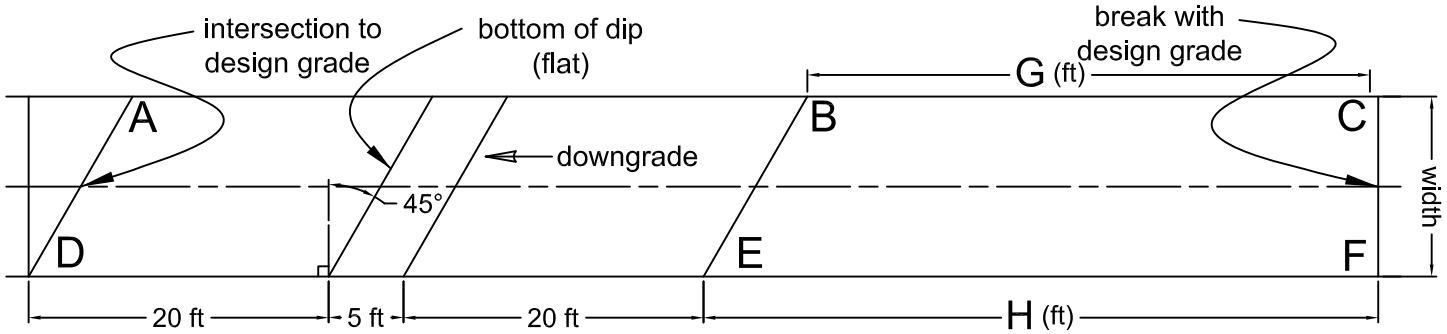
CURVE BRUSHING PLAN



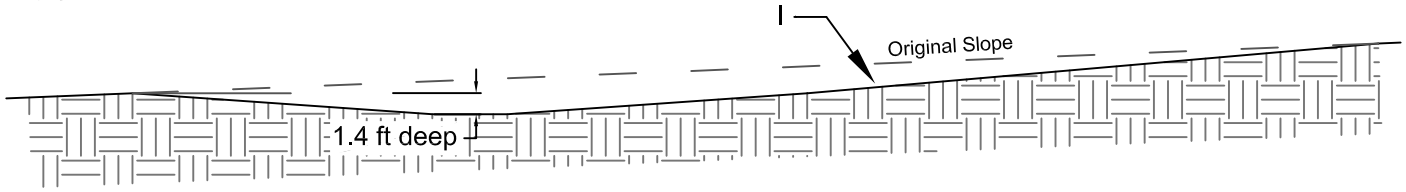
1. All vegetation within the brushing limits shall be cut to within 8" of the ground unless otherwise directed by the contract administrator.
2. All brush, trees limbs, etc. shall be removed from the road surface and ditchline.
3. All debris that may roll or migrate into the ditchline shall be removed.

STANDARD 45° ROLLING DIP

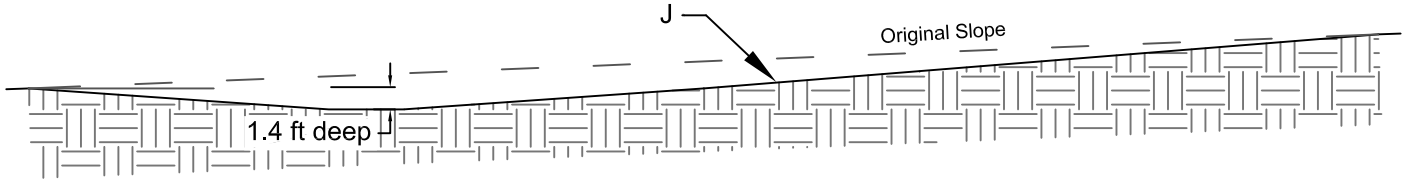
PLAN OF ROLLING DIP

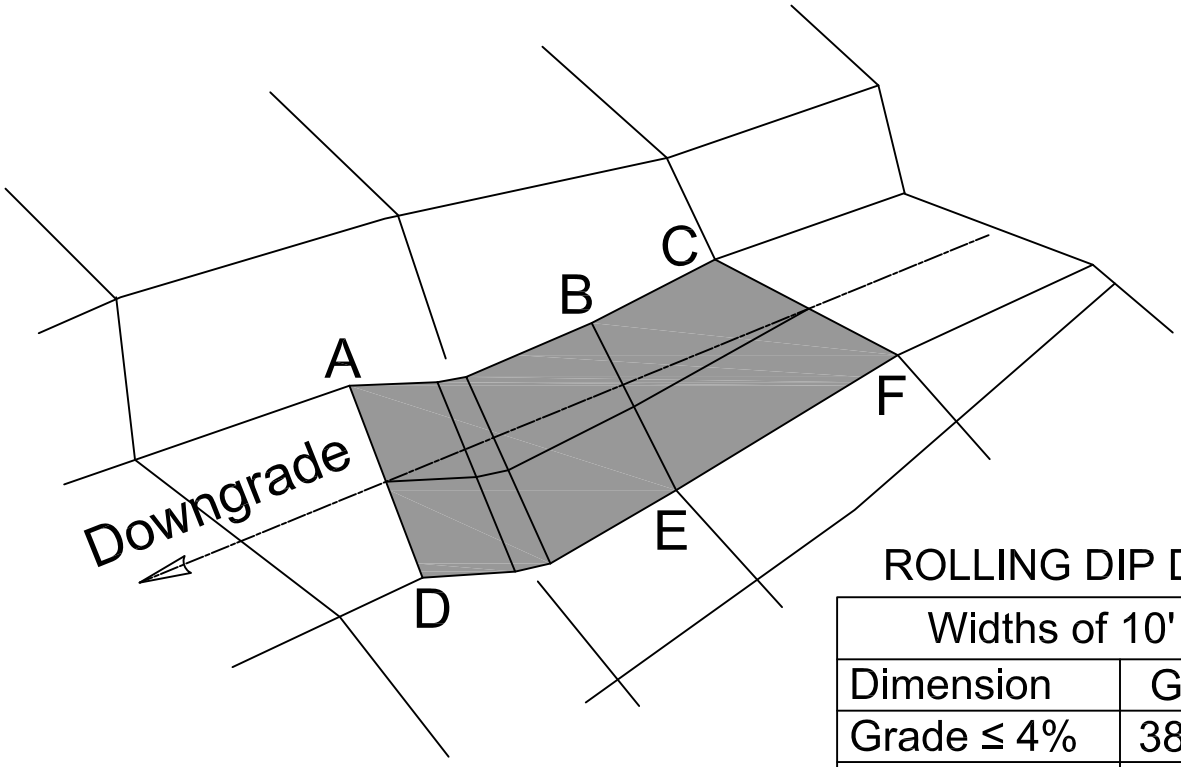


CUT BANK



FILL SLOPE



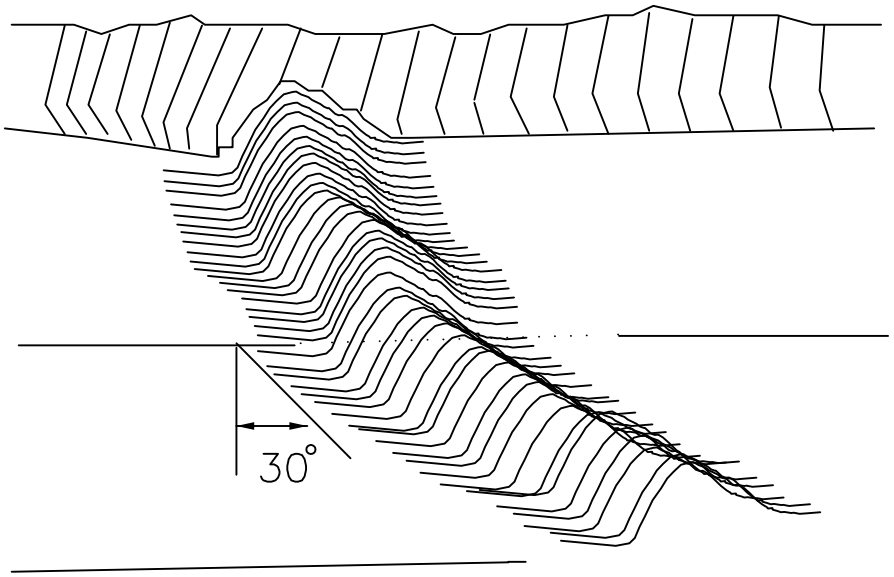


ROLLING DIP DEMENSIONS

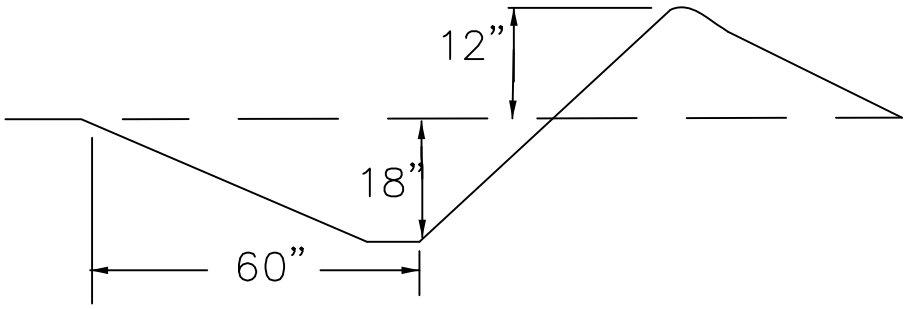
Widths of 10' through 14'				
Dimension	G	H	I	J
Grade ≤ 4%	38'	45'	9%	8%
Grade = 6%	48'	55'	11%	11%
Grade = 8%	58'	65'	14%	14%

Erica Kemp 05/2008

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

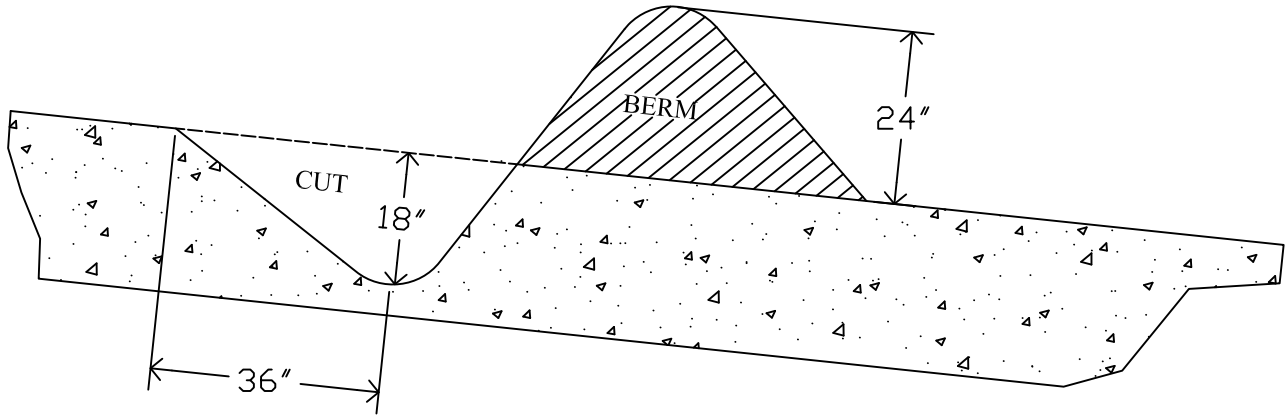
WASHINGTON STATE DEPARTMENT OF
Natural Resources

Northeast Region
Colville, Washington

Designed By:	Stash Slabinski	9/06/05
Drawn By:	Stash Slabinski	9/06/05

Revised:

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.

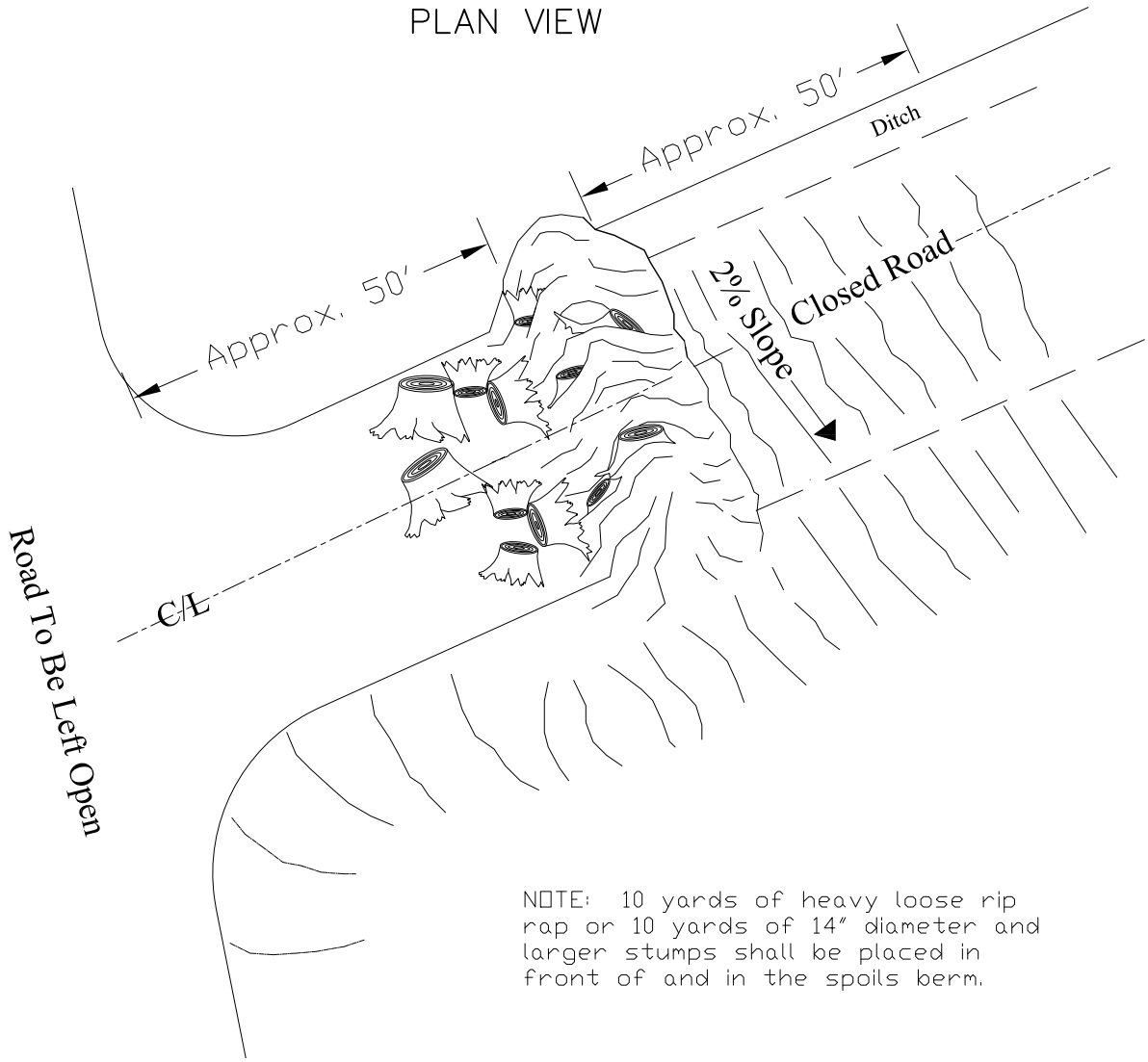
5. ENSURE PROPER DRAINAGE AT OUTLET.

6. SKEW WATERBAR 30 DEGREES DOWNGRADE WITH ROAD CENTERLINE.

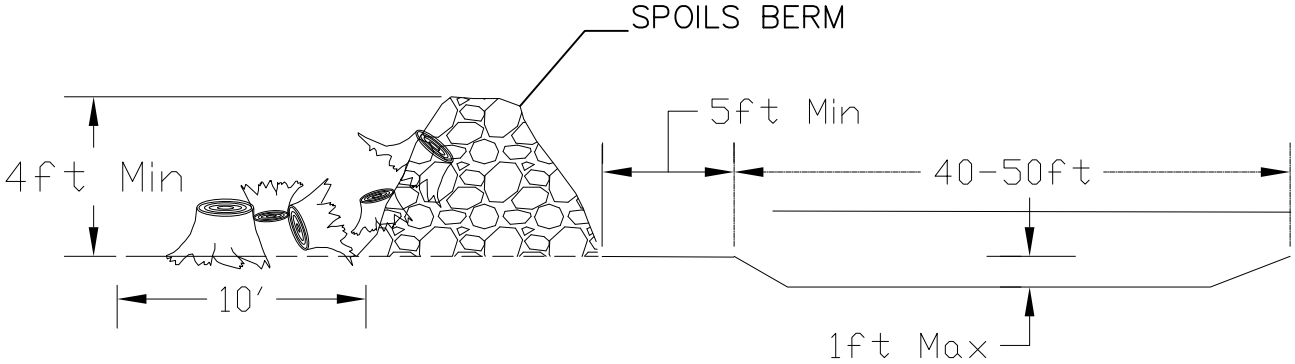
Non-Driveable Waterbar Detail			
Northeast Region Colville, Washington			WASHINGTON STATE DEPARTMENT OF Natural Resources
Designed By:	Stash Slabinski	4/21/05	
Drawn By:	Stash Slabinski	4/21/05	Revised: 1 OF 1

SPOILS BERM DETAIL-D8

PLAN VIEW



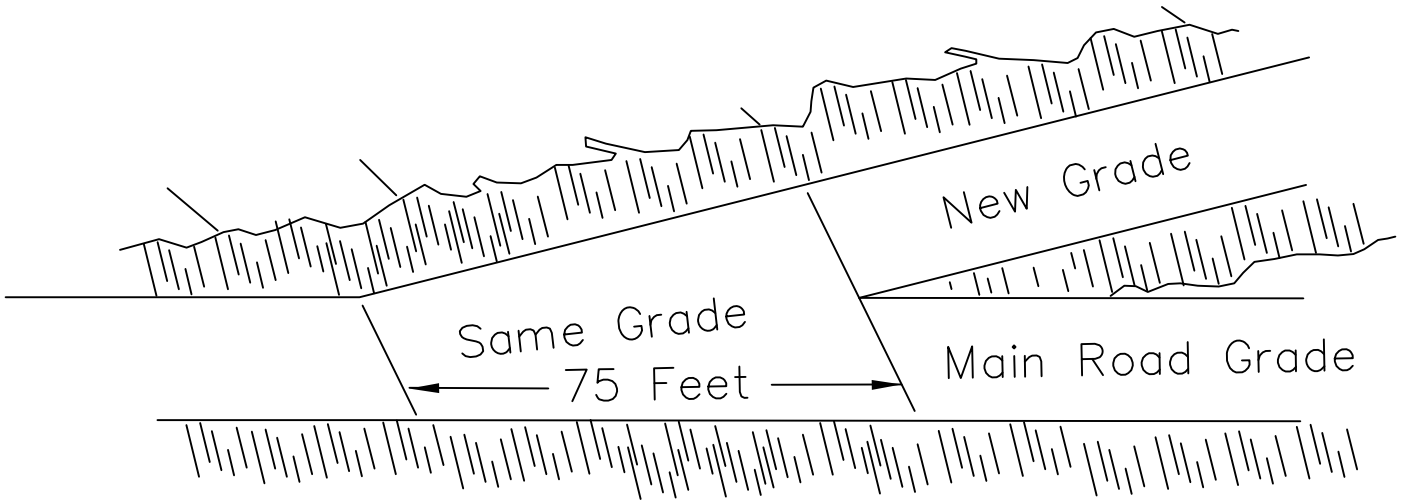
NOTE: 10 yards of heavy loose rip rap or 10 yards of 14" diameter and larger stumps shall be placed in front of and in the spoils berm.



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

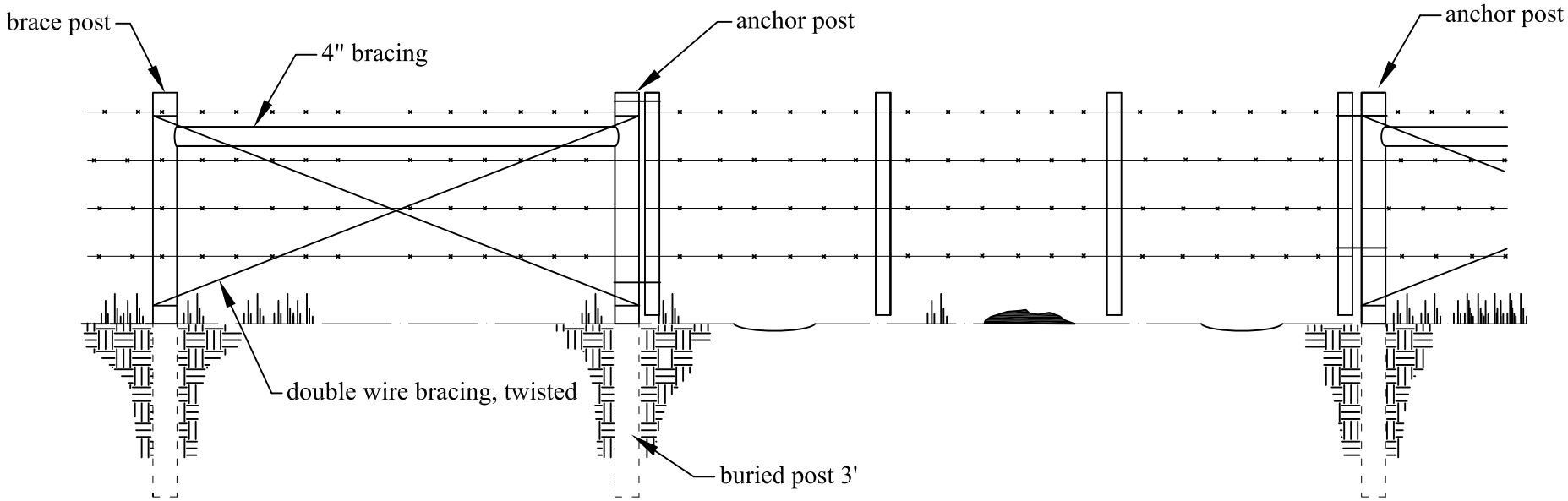
Revised 8-29-2008

Intersection Detail



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

4 Strand Wire Gate and Gate Brace Detail



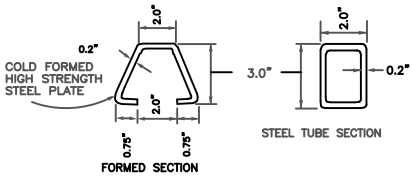
1. First wire from ground must be 14" high.
2. Subsequent wires must be no less than 10" apart.
3. Double wrap all bracing.
4. All brace posts must be 7' long, 5" in diameter, and embedded 3'.
5. Dap braces into posts.
6. Spike braces to posts.
7. There must be 8' on center between anchor post and brace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

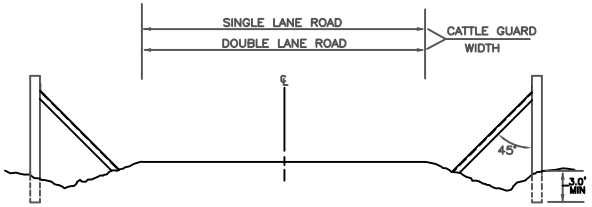
Northeast Region
Colville, Washington

Drawn by:	Jason Bauer
Revised:	10/06/2009

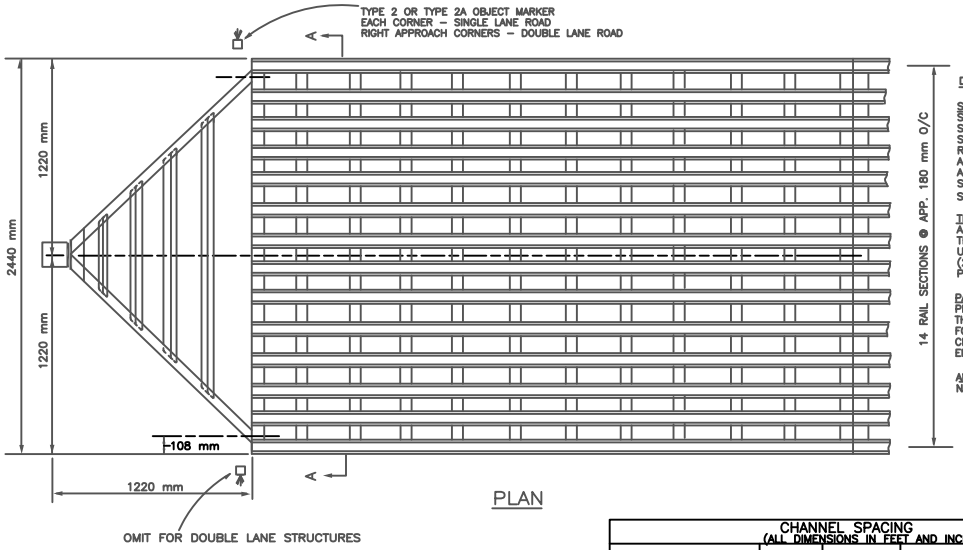
SHEET	TOTAL SHEETS



ALTERNATE RAIL SECTIONS



TYPICAL INSTALLATION DETAIL



PLAN

GENERAL NOTES

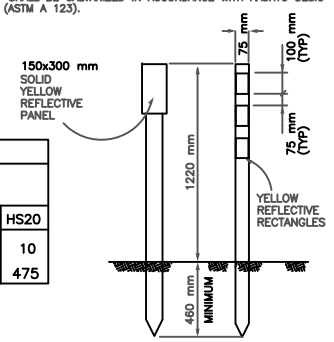
DESIGN LOADING: AASHTO HS20–44 LOADING AND U.S.F.S. U80 LOADING.

STRUCTURAL STEEL: ALL STRUCTURAL STEEL EXCEPT RAIL SECTIONS SHALL CONFORM TO AASHTO DESIGNATION M183–70 (ASTM A 36). RAIL SECTIONS SHALL BE EITHER FORMED SECTIONS MADE FROM HIGH STRENGTH STEEL CONFORMING TO ASTM A 570, GRADE 45 OR BETTER,OR RECTANGULAR STEEL TUBE SECTIONS CONFORMING TO ASTM DESIGNATION A500, GRADE B. BOLTS AND PINS SHALL CONFORM TO ASTM DESIGNATION A 307. WELDING AND FABRICATION SHALL BE DONE IN ACCORDANCE WITH SECTION 555 OF THE STANDARD SPECIFICATIONS OR SPECIAL PROJECT SPECIFICATIONS.

TIMBER: SHALL BE ROUGHCUT NO. 1 DOUGLAS FIR, OR WESTERN LARCH AND SHALL BE TREATED IN ACCORDANCE WITH AWPA C–2 USING ONE OF THE FOLLOWING TREATMENTS: (1)PENTACHLOROPHENOL MEETING AWPA P–8 USING AN AWPA P–9 TYPE A SOLVENT TO A RETENTION OF 6 kg/m3; (2) CREOSOTE MEETING AWPA P1/P13 TO A RETENTION OF 130 kg/m3. PENETRATION SHALL BE AS SPECIFIED IN AWPA C–2.

PAINT: ALL METAL PARTS OF THE CATTLE GUARD EXCEPT THE ANCHOR PINS SHALL BE PAINTED IN ACCORDANCE WITH SECTIONS 555 AND 708 OF THE STANDARD SPECIFICATIONS. PAINT SYSTEM 1 OR 2 SHALL BE USED FOR COASTAL ENVIRONMENTS. PAINT SYSTEM 4 SHALL BE USED IN MILDER CLIMATES. THE COLOR OF THE FINAL COAT SHALL BE DETERMINED BY THE ENGINEER OR SHALL BE AS INDICATED IN OTHER CONTRACT DOCUMENTS.

ANCHOR PINS: SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO DESIGNATION M 111 (ASTM A 123).



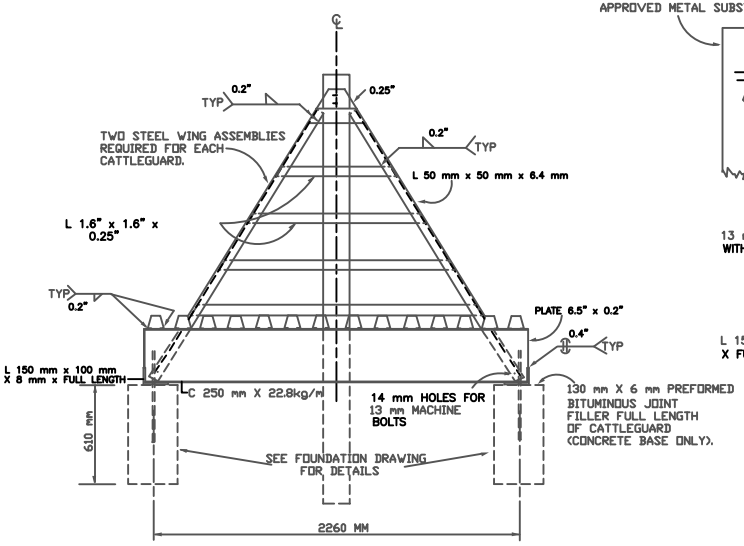
OBJECT MARKER TYPE 2 TYPE 2A

TYPE 2 – 4X4 TREATED TIMBER OR GALVANIZED STEEL POST 1.6 kg/m.

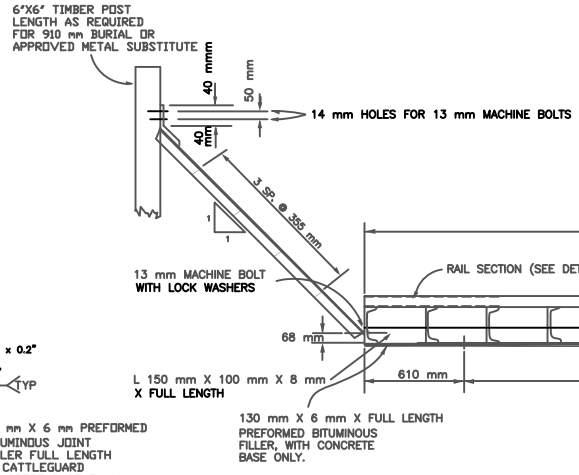
TYPE 2A – FLEXIBLE FIBERGLASS POST ("CARSONITE")

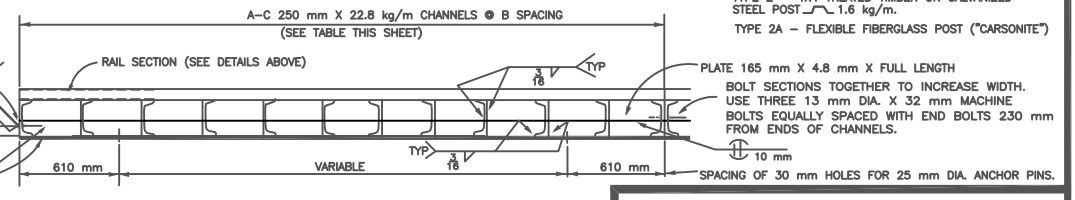
CHANNEL SPACING (ALL DIMENSIONS IN FEET AND INCHES)						
CATTLEGUARD WIDTH	8	10	12		14	
LOADING	U80	U80	U80	HS20	U80	HS20
A (NUMBER)	7	9	10	9	12	10
B (SPACING)	410	380	410	460	390	475

NOTE: SINGLE LANE STRUCTURES SHALL BE MINIMUM 14 ft WIDTH. OTHER WIDTHS ARE TO BE USED ONLY IN COMBINATION TO CONSTRUCT WIDER SINGLE LANE OR DOUBLE LANE STRUCTURES.



SECTION A–A





ELEVATION

SCALE: NONE

VERSION 1
5/7/97

WAW0026A.DWG

WASHINGTON DEPARTMENT OF NATURAL RESOURCES

STANDARD WELDED CATTLEGUARD

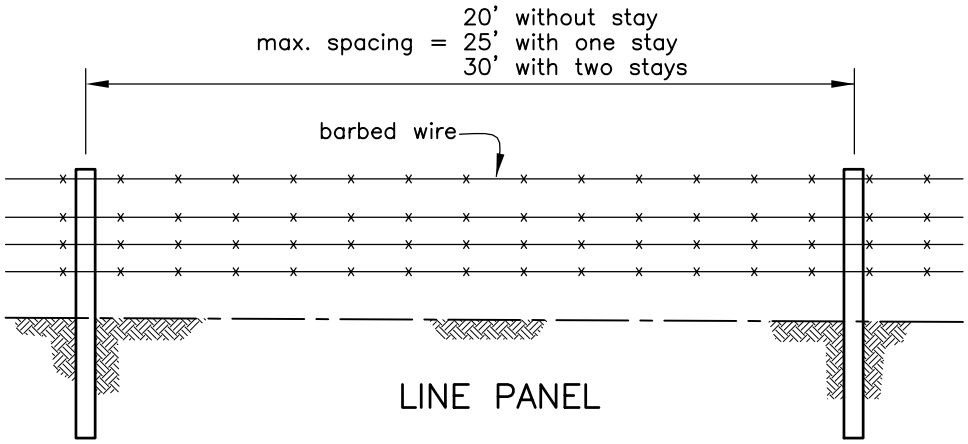
RECOMMENDED BY:

FOREST DEVELOPMENT ENGINEER DATE

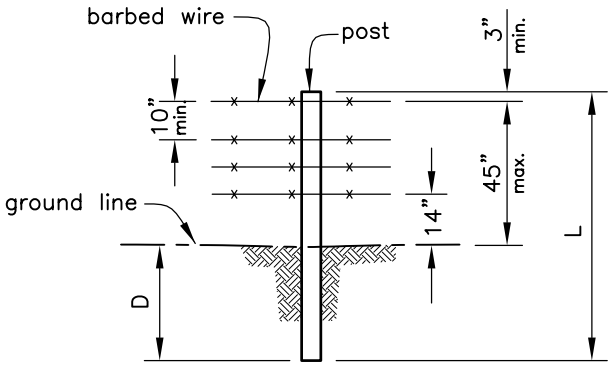
APPROVED BY:

FOREST ENGINEER DATE

WASHINGTON STANDARD DRAWING	LIVESTOCK FACILITIES **4 STRAND STANDARD POST AND WIRE FENCE**	STANDARD DRAWING NO. **LSK–0010** APPROVED BY: GBR DRAWN BY: KLY ISSUE DATE: 4/00



LINE PANEL



BARBED WIRE DETAIL

BARBED WIRE	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 inch centers. Class 1 (min. or equiv.) zinc–coating as per ASTM A–121.

LINE	Plastic:	L = 6 ft. min. D = 24 in. min. Dia. = 3–3/8 in. min.	Fiberglass:	L = 6 ft. min. D = 24 in. min. Dia. = 1–1/4 in. min.
	Wood:	L = 6 ft. min. D = 24 in. min. Dia. = 3 in. min.	Steel:	L = 5–1/2 ft. min. D = 18 in. min. Standard "T" or "U"; > 1.25 lbs/ft of length
CORNER OR GATE	Wood:	L = 7 ft. min. D = 3 ft. min. Dia. = 5 in. min.	Steel:	L = 7 ft. min. D = 3 ft. min. (set in conc.) Dia. = Round 2–3/8 in. O.D. or Angle iron 2–1/2 x2–1/2 x1/4 (in.)

STAYS
Wood: 1–1/2 in. dia. min. of durable wood
Fiberglass: Any manufactured for this purpose
Wire: 9 1/2 gauge, zinc coated, twisted, manufactured for this purpose

SPECIES for all wood: _____

SPECIAL INSTRUCTIONS

_____

_____

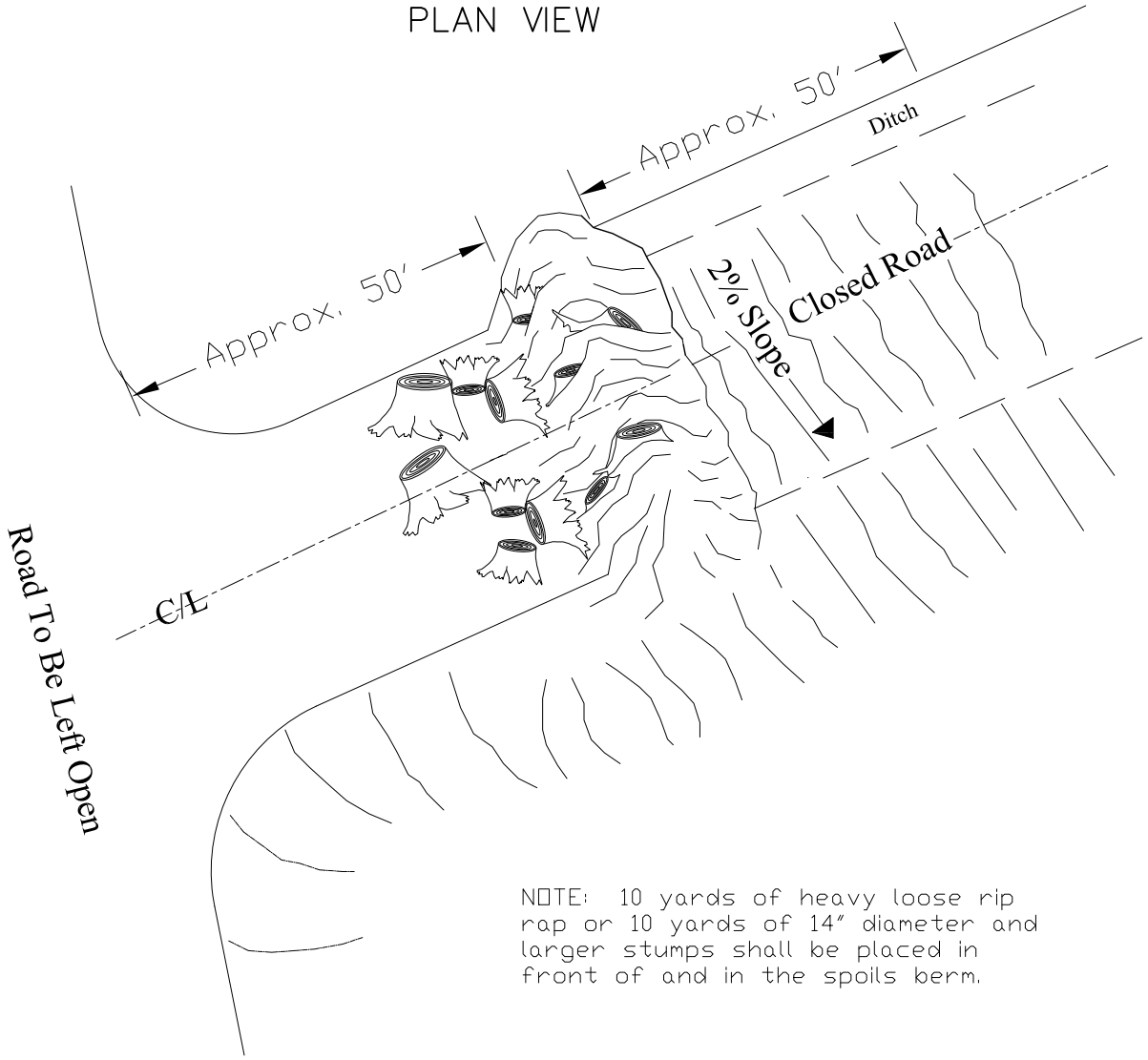
_____

Drawing not to scale. Standardized drawing must be adapted to the specific site.

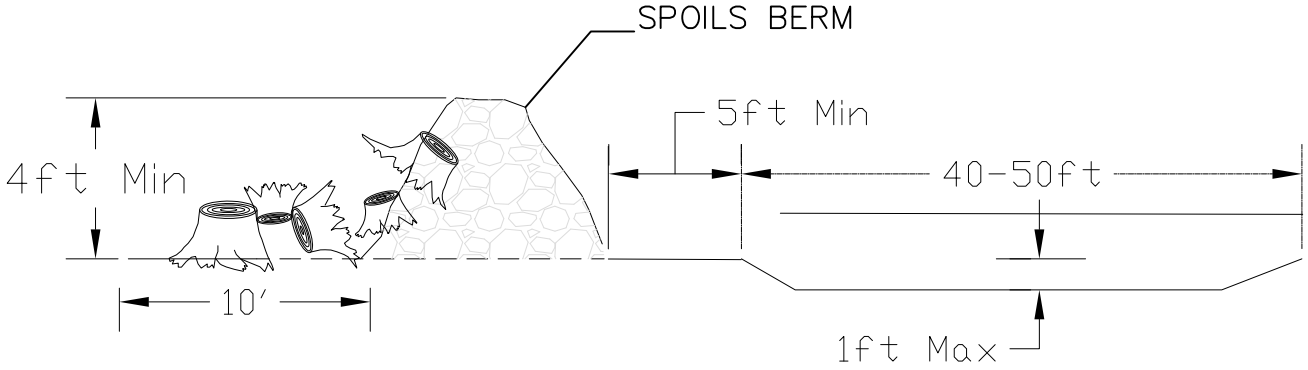
	JOB CLASS	Designed _____ Date _____
	CAD FILE NO. LSK–0010.DWG	Drawn _____ Date _____
	SHEET OF	Checked _____ Date _____
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE		Approved _____ Date _____

SPOILS BERM DETAIL

PLAN VIEW



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

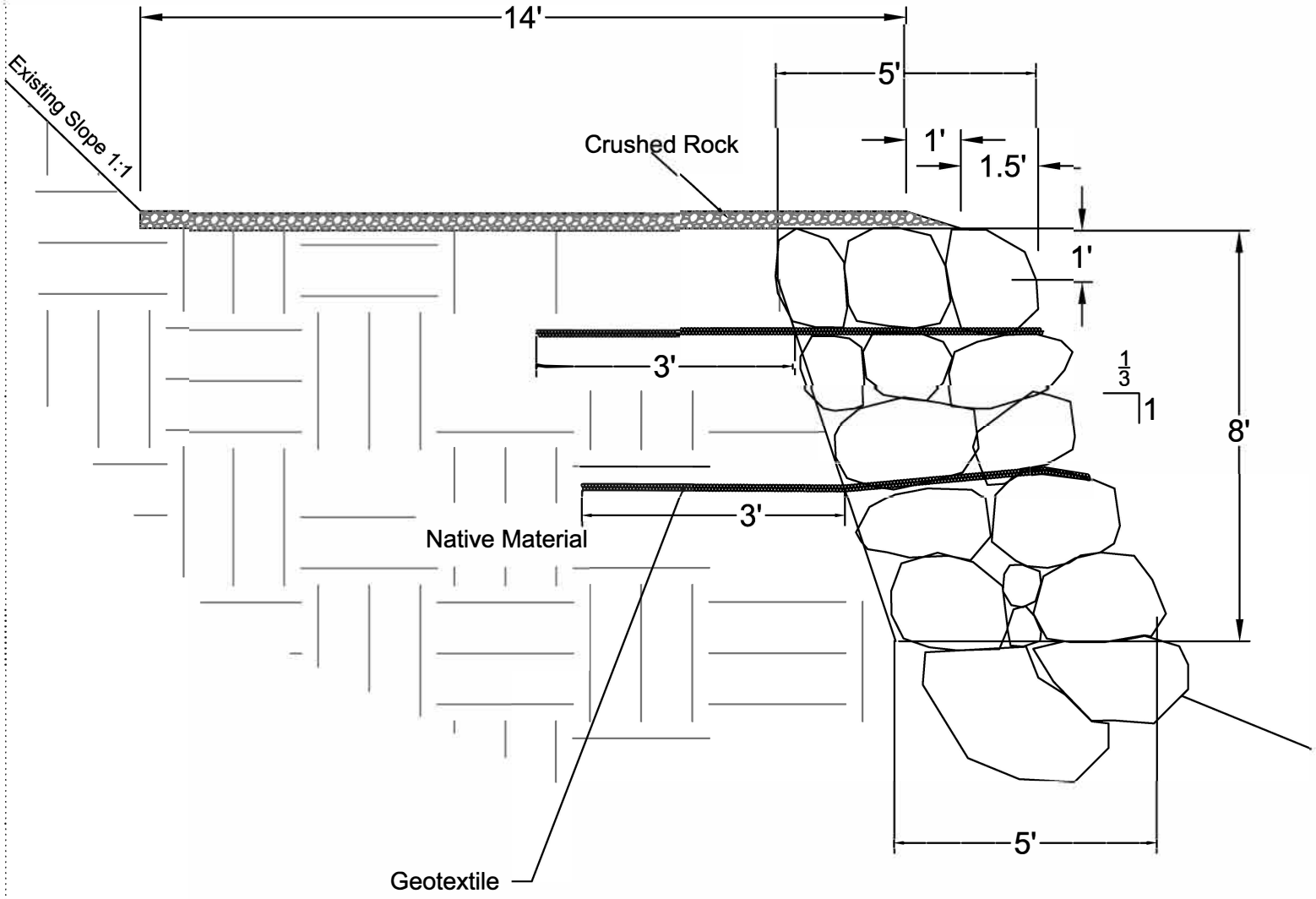


Note: $\frac{1}{3}$ of stumps or rip rap shall be partially buried in the spoils berm and/or road surface.

Revised 8-29-2008

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

KEYED EMBANKMENT DETAIL



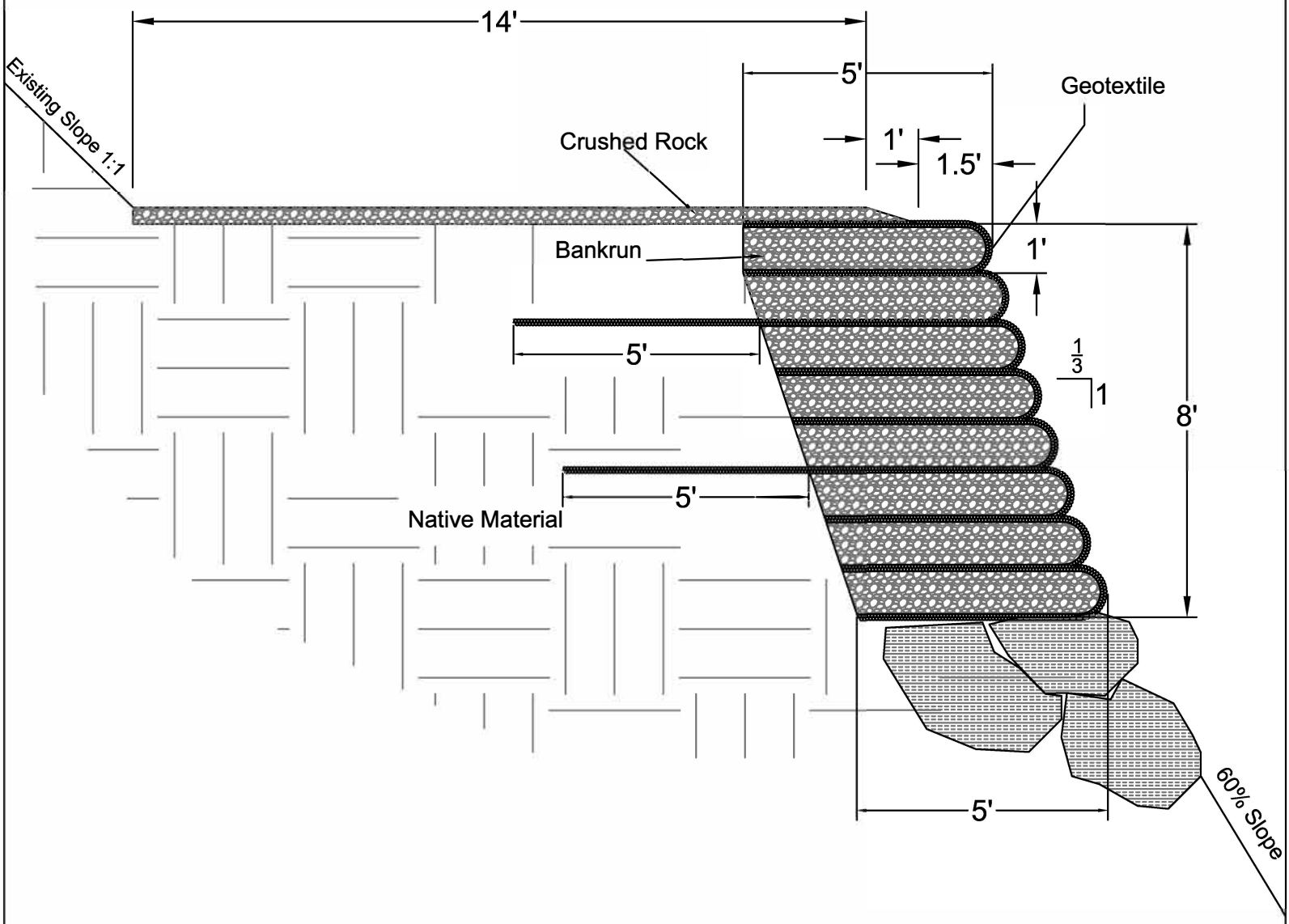
- All Common Borrow in the Keyed Embankment must be compacted with a vibratory plate compactor. A minimum of three complete coverages must be made with the compactor in lifts not to exceed 6 inches.
- Geotextile must be installed on a level and smooth surface not greater than 2 vertical feet apart.
- See Clauses 4-11 KEYED EMBANKMENT, 6-51 HEAVY LOOSE RIP RAP, and 10-3 GEOTEXTILE FOR STABILIZATION.

All rock in the face of the Keyed Embankment must meet Clause 6-51 HEAVY LOOSE RIP RAP.

All disturbed soils in the keyed embankment must be compacted in layers not to exceed 6 inches

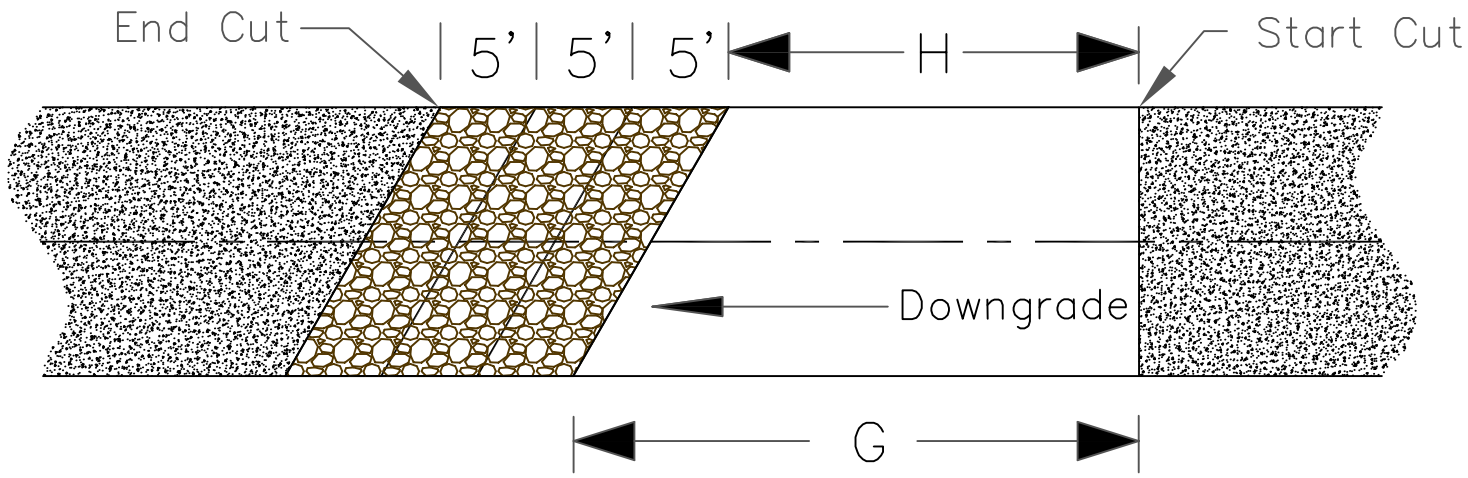
STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

KEYED EMBANKMENT DETAIL

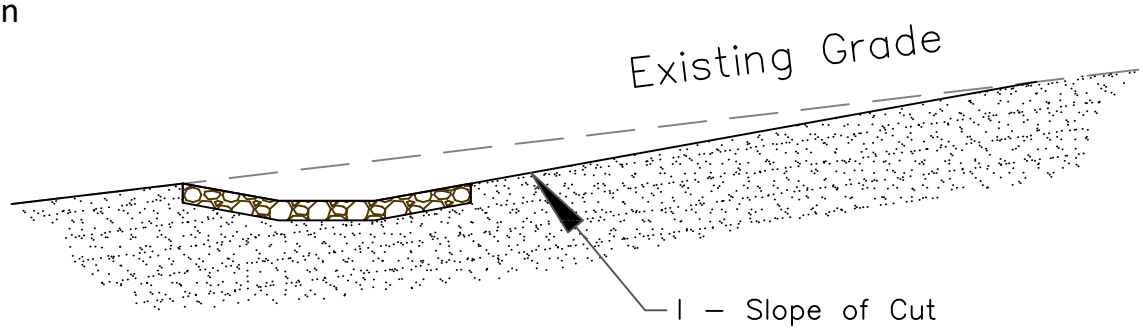


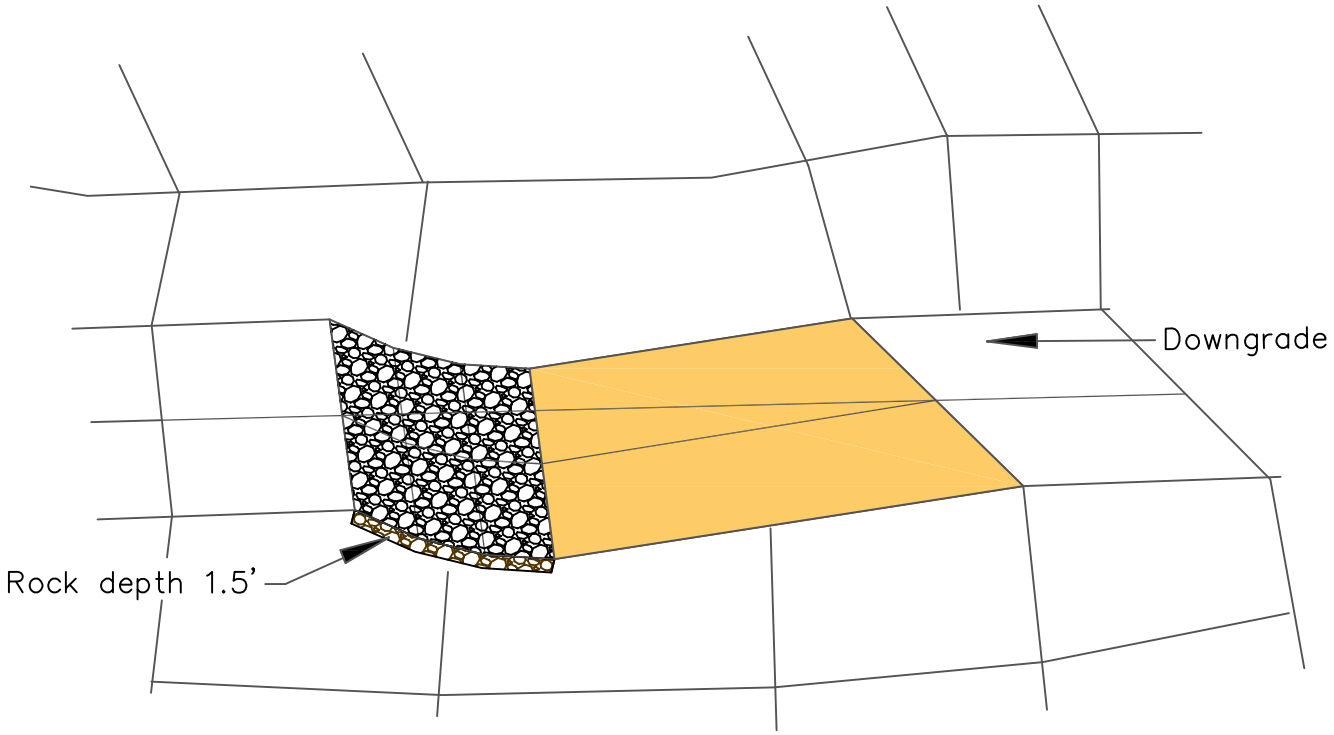
- All material in the Geotextile must be compacted with a vibratory plate compactor. A minimum of three complete coverages must be made with the compactor in lifts not to exceed 6 inches.
- Geotextile must be installed on a level and smooth surface
- See Clauses 4-70 SUBGRADE REINFORCEMENT and 10-3 GEOTEXTILE FOR STABILIZATION
- All disturbed soils in the keyed embankment must be compacted in layers not to exceed 6 inches

Plan View



Cross Section





	No.	Revision Description	Date	By
Designed By: Jason Bauer				
Drawn By: Jason Bauer				
Checked By: Jim English				
Date: 2/2/2022				

Rolling Dip Dimensions

Existing Road Grade	G	H	I
Grade = 10% - 11%	24'	16	18%
Grade = 12% - 13%	35'	27	18%
Grade = 14% - 15%	40'	32	18%

WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES

ARMORED ROLLING DIP FOR STEEP GRADES

SHEET 1 OF 1

Q Cook - Road Development Costs

REGION: Northeast CONTRACT #: 30-103037 ENGINEER: Jason Bauer
DISTRICT: South Okanogan DATE: 8/11/21

	Construction	*Reconstruction*	*Maintenance*	*Deactivation*	*Abandonment*
ROAD NUMBERS:		E332411H E332424H	E332411B E332411T E332412A E322412B E332423N E332423O E332424H E332424K E332426E East Cook Mtn.		
Comments:					
ROAD STANDARD:	*Construction*	*Reconstruction*	*Maintenance*	*Deactivation*	*Abandonment*
NUMBER OF STATIONS:	***0.00***	***12.80***	***593.41***	***0.00***	***0.00***
CLEARING & GRUBBING:	$0	$ 1,689.60	$ 14,881.39		0
EXCAVATION AND FILL:	$0	$ 5,173.60	$ 16,850.92		$0
MISC. MAINTENANCE:	$0	$ 400.00	$ 1,750.00		$0
ROAD ROCK:	$0		$ 1,500.00		$0
ADDITIONAL ROCK:					$0
CULVERTS AND FLUMES:	$0	$0	$ 14,400.00		$0
STRUCTURES/MATERIALS:			$0		$0

TOTAL COSTS:	$0	$7,263	$49,382	$0	$0
COST PER STATION:	*$0*	*$567*	*$83*	*$0*	*$0*

	$/per move	# of moves	Total
MOBILIZATION:	$300	2	$600
Extra Grading			$0
Extra Rock			$0
Total for Extras			$0

TOTAL (All Roads) = $57,246 Extras are not in
SALE VOLUME mbf = 2,252

TOTAL $/MBF = $25

Engineer's Notes: