



TIMBER NOTICE OF SALE

SALE NAME: Q GIBRALTAR

AGREEMENT NO: 30-100480

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

COUNTY: Ferry

SALE LOCATION: Sale located approximately 5 miles east of Republic, WA

**PRODUCTS SOLD
AND SALE AREA:**

All conifer species except for ponderosa pine and leave trees banded with purple paint in Units 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 bounded by white timber sale boundary tags; all right of way timber marked with orange paint

All forest products above located on part(s) of Sections 7, 16 and 17 all in Township 36 North, Range 34 East, Sections 16 all in Township 36 North, Range 33 East, Sections 2, 9, 10, 13, 24 and 26 all in Township 37 North, Range 33 East, W.M., containing 396 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
Douglas fir	12.9		2,675				498	1,519	658			
Larch	12.8		634				73	457	104			
Ponderosa pine			1						1			
Sale Total			3,310									

MINIMUM BID: \$496,000.00

BID METHOD: Sealed Bids

PERFORMANCE

SECURITY: \$99,200.00

SALE TYPE: Lump Sum

EXPIRATION DATE: November 15, 2022

ALLOCATION: Export Restricted

BID DEPOSIT: \$49,600.00 or Bid Bond. Said deposit shall constitute an opening bid at the appraised price.

HARVEST METHOD: Rubber tired skidder, Dozer, Track skidder, and Ground based equipment. Falling and Yarding will not be permitted from March 15 to June 1 unless authorized in writing by the Contract Administrator due to spring breakup and from September 1 to November 1 in Units 13 and 14 due to road use permit restrictions.

ROADS: 68.76 stations of required construction. 793.03 stations of required prehaul maintenance. Road construction will not be permitted from March 15 to June 1 unless authorized in writing by the Contract Administrator due to spring breakup and from September 1 to November 1 on E373313E road due to road use permit restrictions. The hauling of forest products will not be permitted from March 15 to June 1 unless authorized in writing by the Contract Administrator due to spring breakup and from September 1 to November 1 on E373313E road due to road use permit restrictions.



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ACREAGE DETERMINATION

CRUISE METHOD: Acreage determined using GPS methods. Acreage shown above is net harvest acres in harvest units. All species: 7.0 - 17.5 inches dbh has minimum top of 4.6 inch dib. All species 17.6 inches and greater dbh have a minimum top dib of 40% of dob at 16 feet or a 6 inch top whichever is greater.

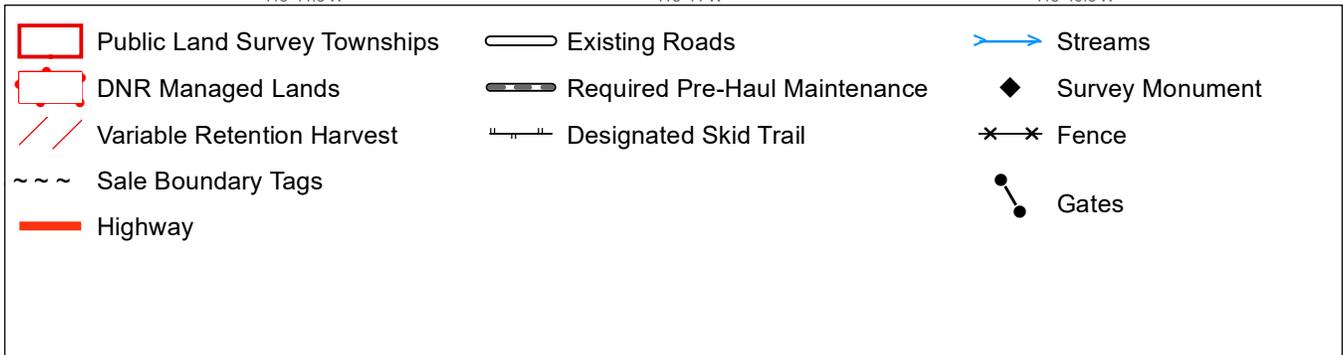
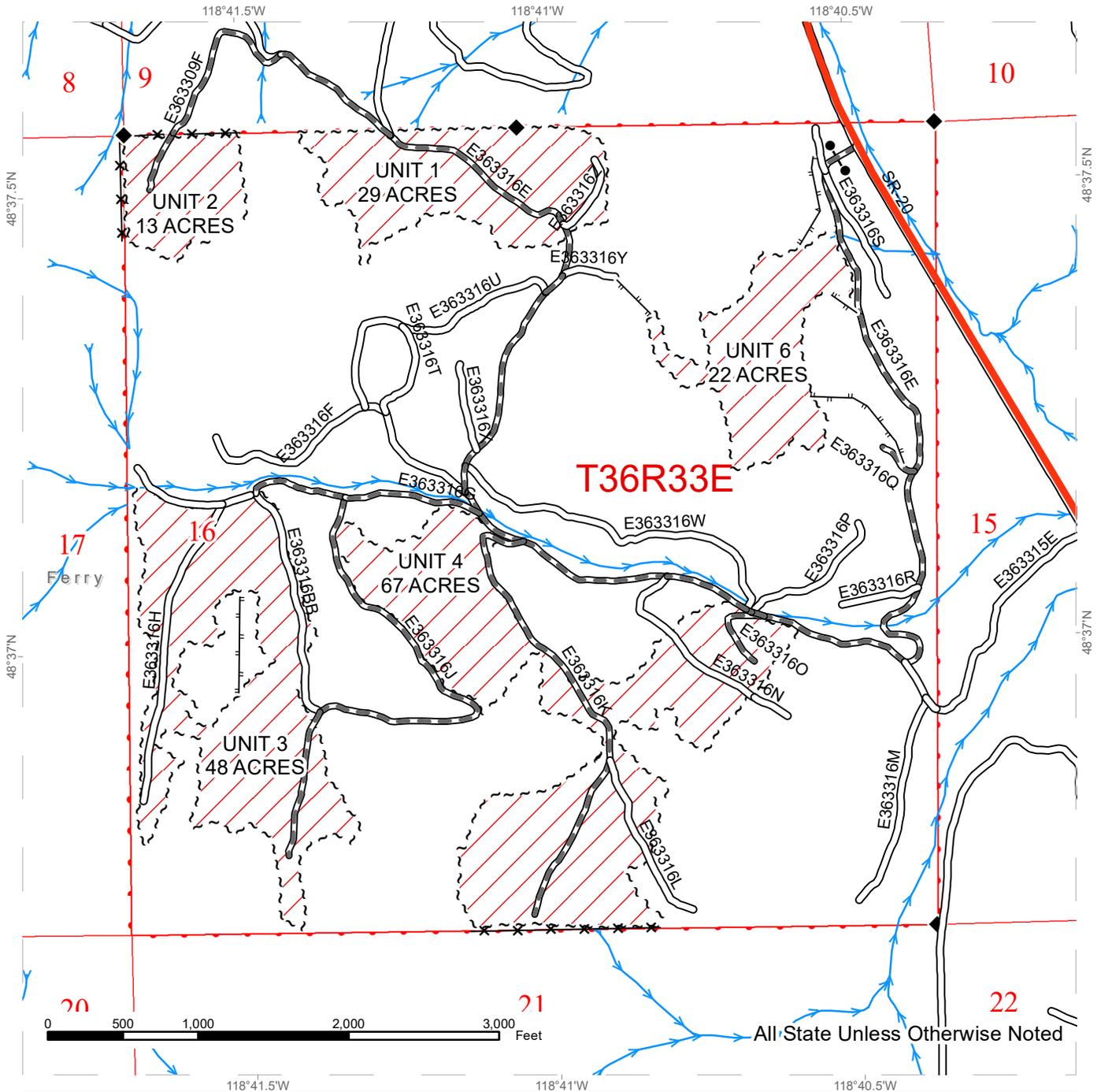
FEES: Within 10 days of day of sale, Purchaser shall provide payment for three road use permits in the amount of \$500.00 each and payment for one road use permit in the amount of \$300.00. Purchaser shall provide payment for 1,700 board feet of private right of way timber and for 4,176 board feet of private right of way timber at the purchaser's bid price. \$56,270.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.

SPECIAL REMARKS: Locked gate restricts access to Units 1, 2, 3, 4 and 6. Limited access to Units 15, 16, 17, 18 and 19. Contact the Northeast Region Office for access. There is no Unit 5.

TIMBER SALE MAP

SALE NAME: Q GIBRALTAR
AGREEMENT #: 30-100480
TOWNSHIP(S): T36R33E, T36R34E, T37R33E
TRUST(S): Common School and Indemnity (3)

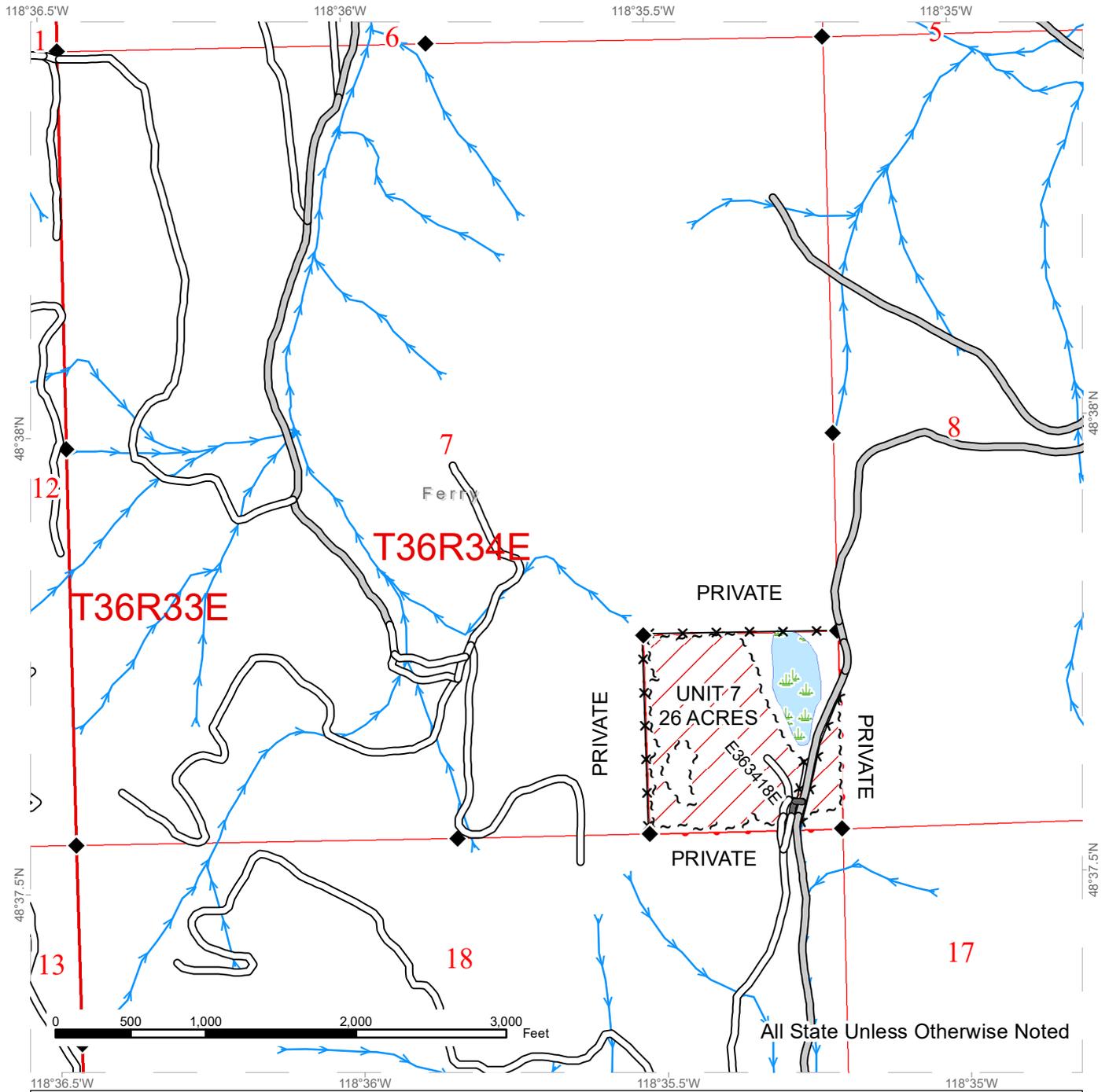
REGION: Northeast Region
COUNTY(S): Ferry
ELEVATION RGE: 2800-4520



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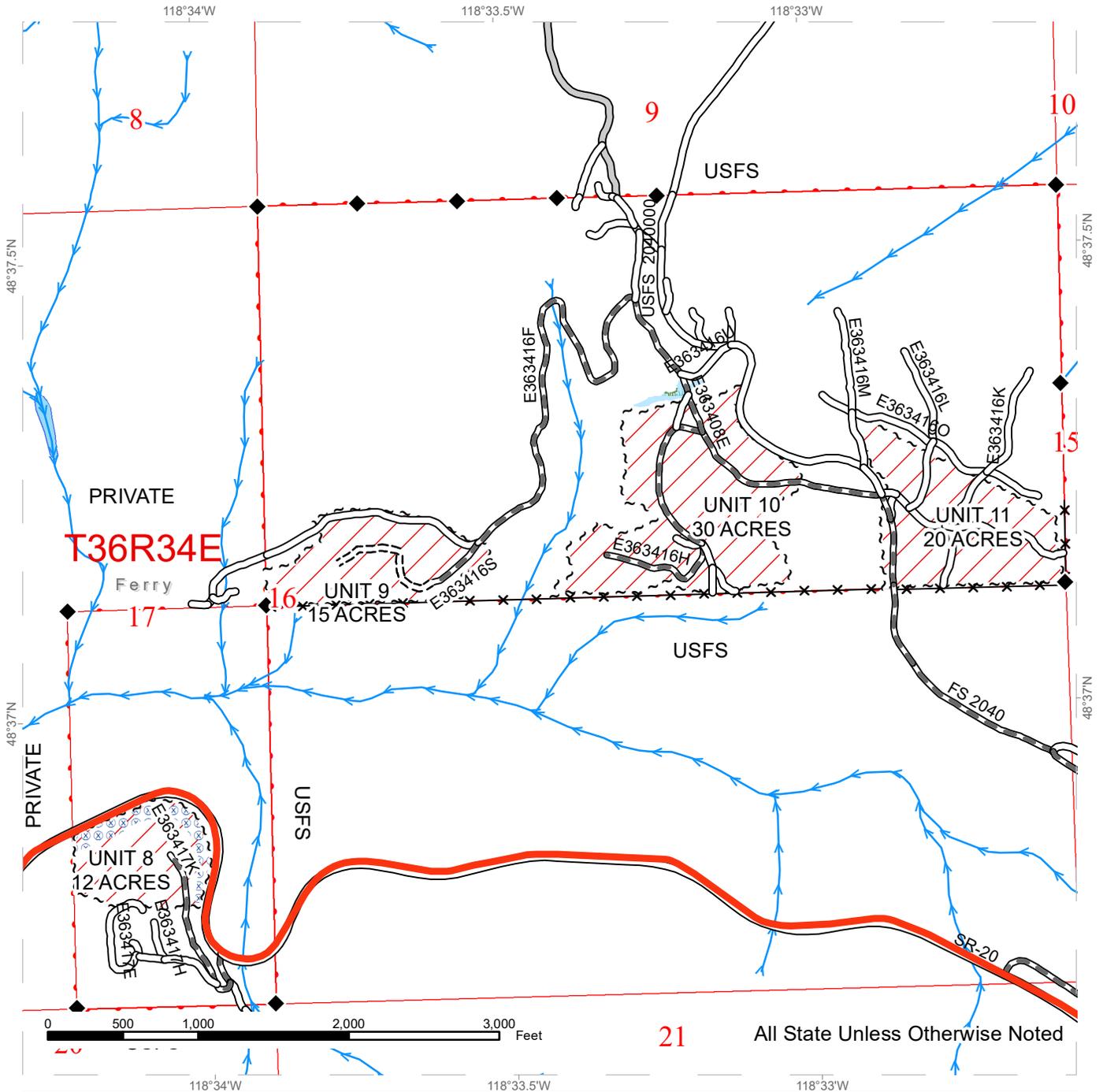
	Public Land Survey Townships		County Road		Streams
	DNR Managed Lands		Existing Roads		Survey Monument
	Variable Retention Harvest		Required Pre-Haul Maintenance		Fence
	Sale Boundary Tags				
	Wetlands - Non-forested				



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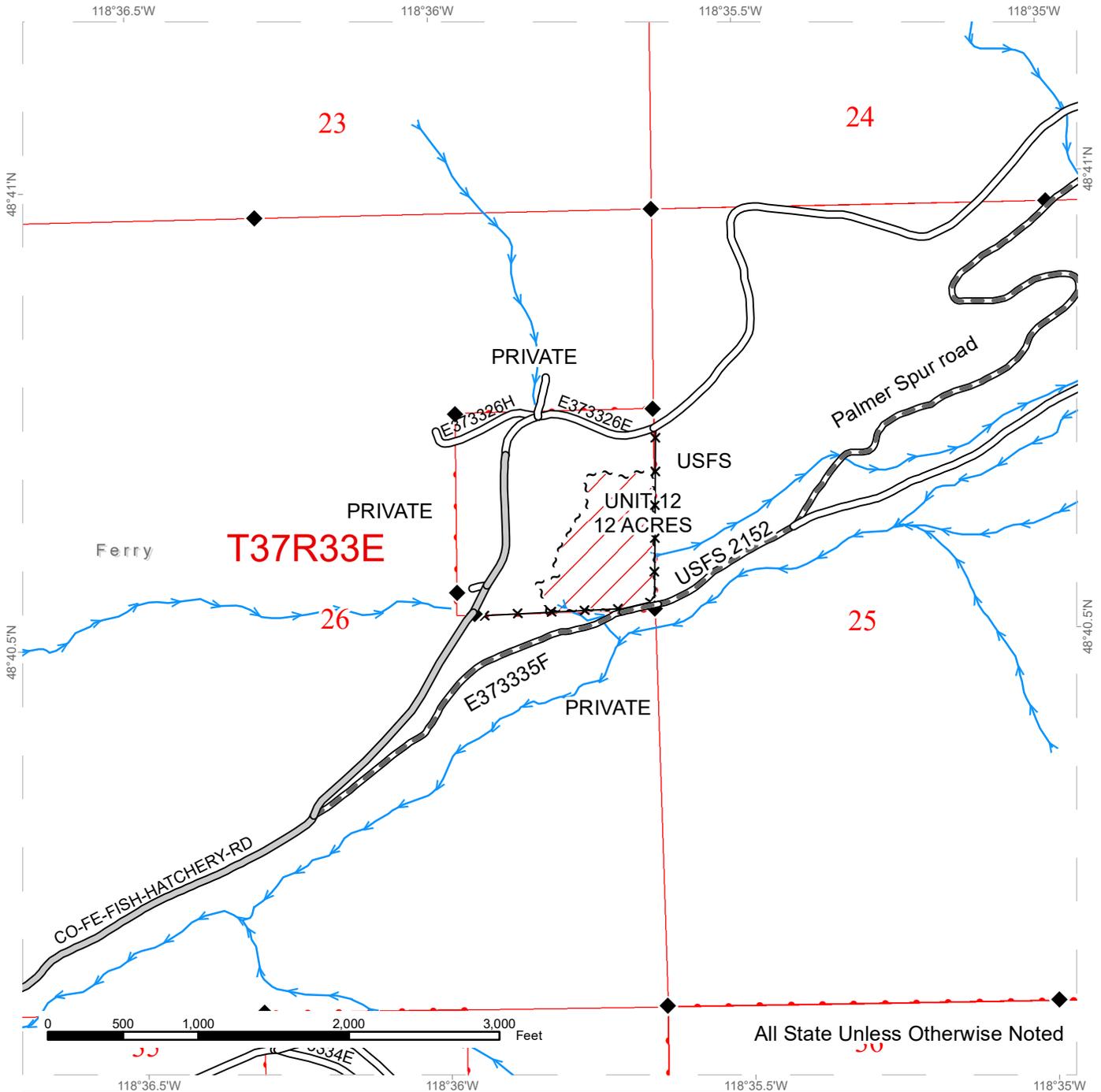
	Public Land Survey Townships		County Road		Streams
	DNR Managed Lands		Existing Roads		Survey Monument
	Variable Retention Harvest		Required Pre-Haul Maintenance		Fence
	Sale Boundary Tags		Required Construction		
	Forested Wetland				
	Hazard Abatement Area				
	Highway				



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All State Unless Otherwise Noted

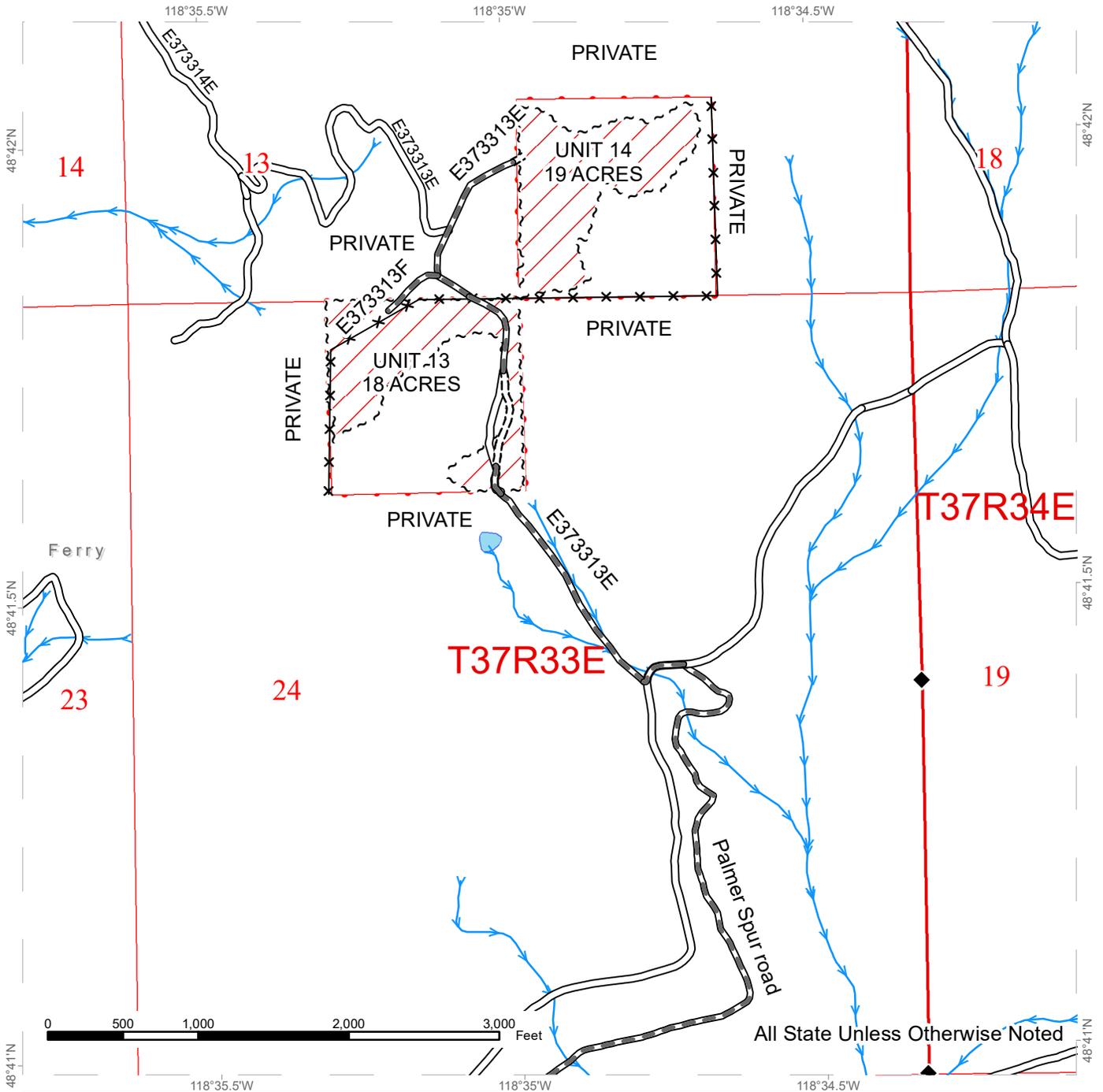
	Public Land Survey Townships		County Road		Streams
	DNR Managed Lands		Existing Roads		Survey Monument
	Variable Retention Harvest		Required Pre-Haul Maintenance		Fence
	Sale Boundary Tags				



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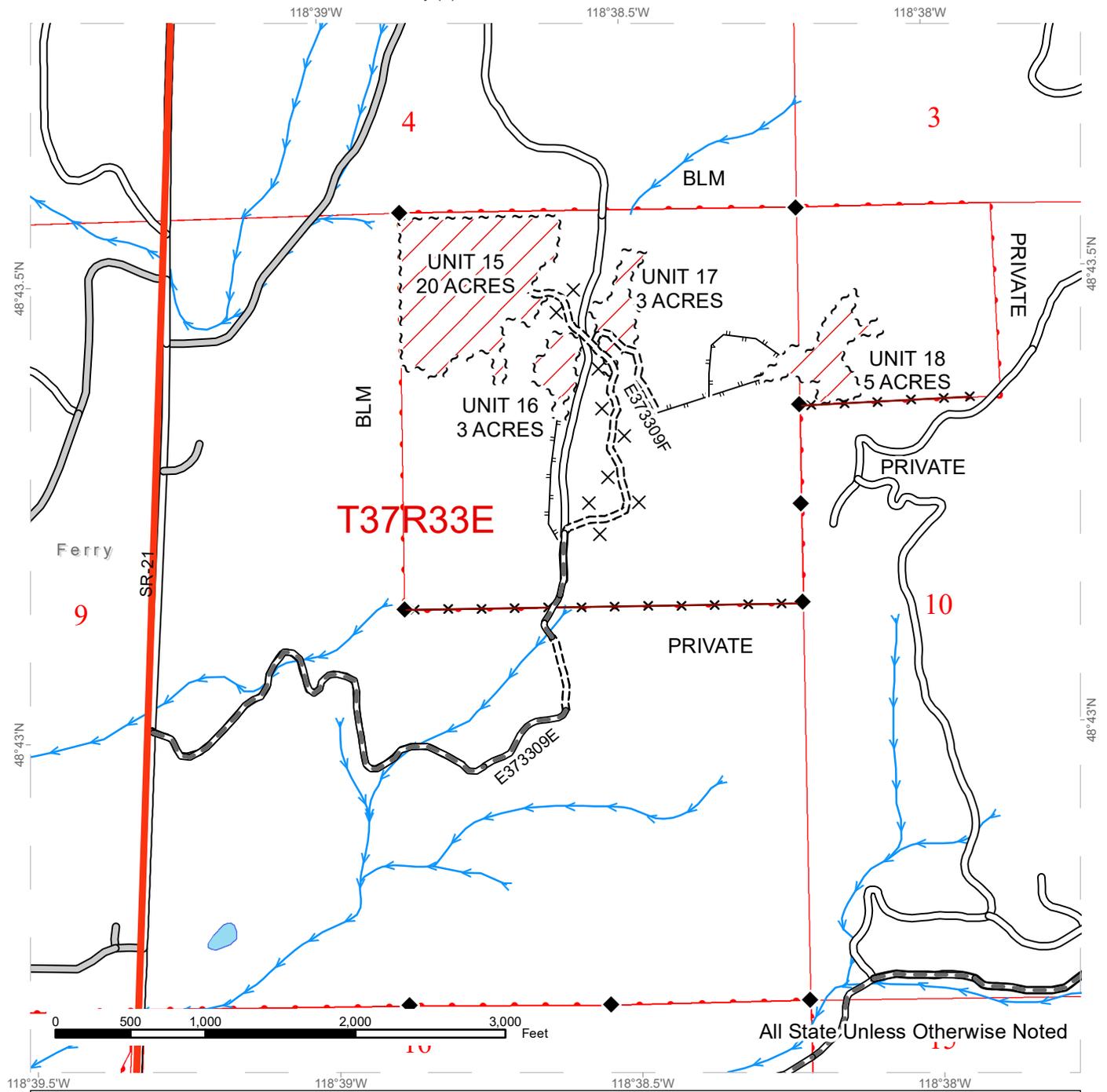
Public Land Survey Townships	Existing Roads	Streams
DNR Managed Lands	Required Pre-Haul Maintenance	Survey Monument
Variable Retention Harvest	Required Construction	Fence
Sale Boundary Tags		



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Public Land Survey Townships	County Road	Streams
DNR Managed Lands	Existing Roads	Survey Monument
Variable Retention Harvest	Required Pre-Haul Maintenance	Right of Way Trees = 1 acre
Sale Boundary Tags	Required Construction	Fence
Highway	Designated Skid Trail	

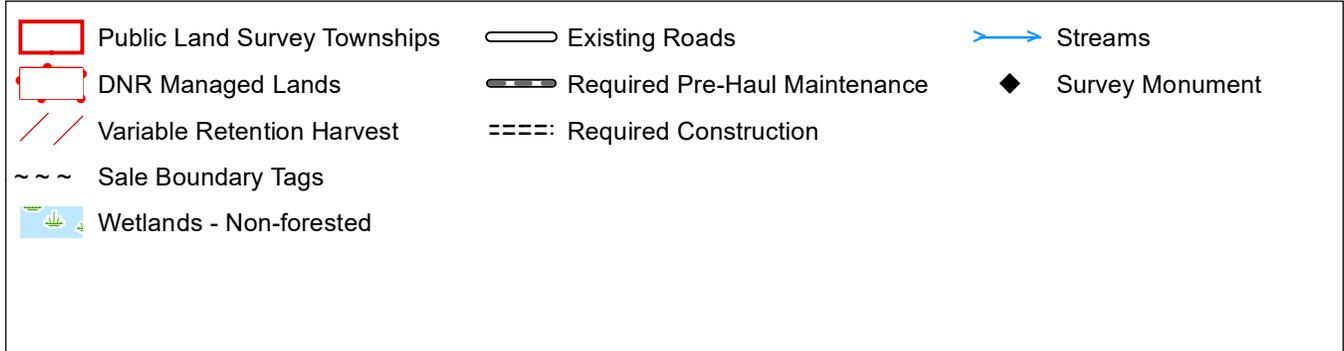
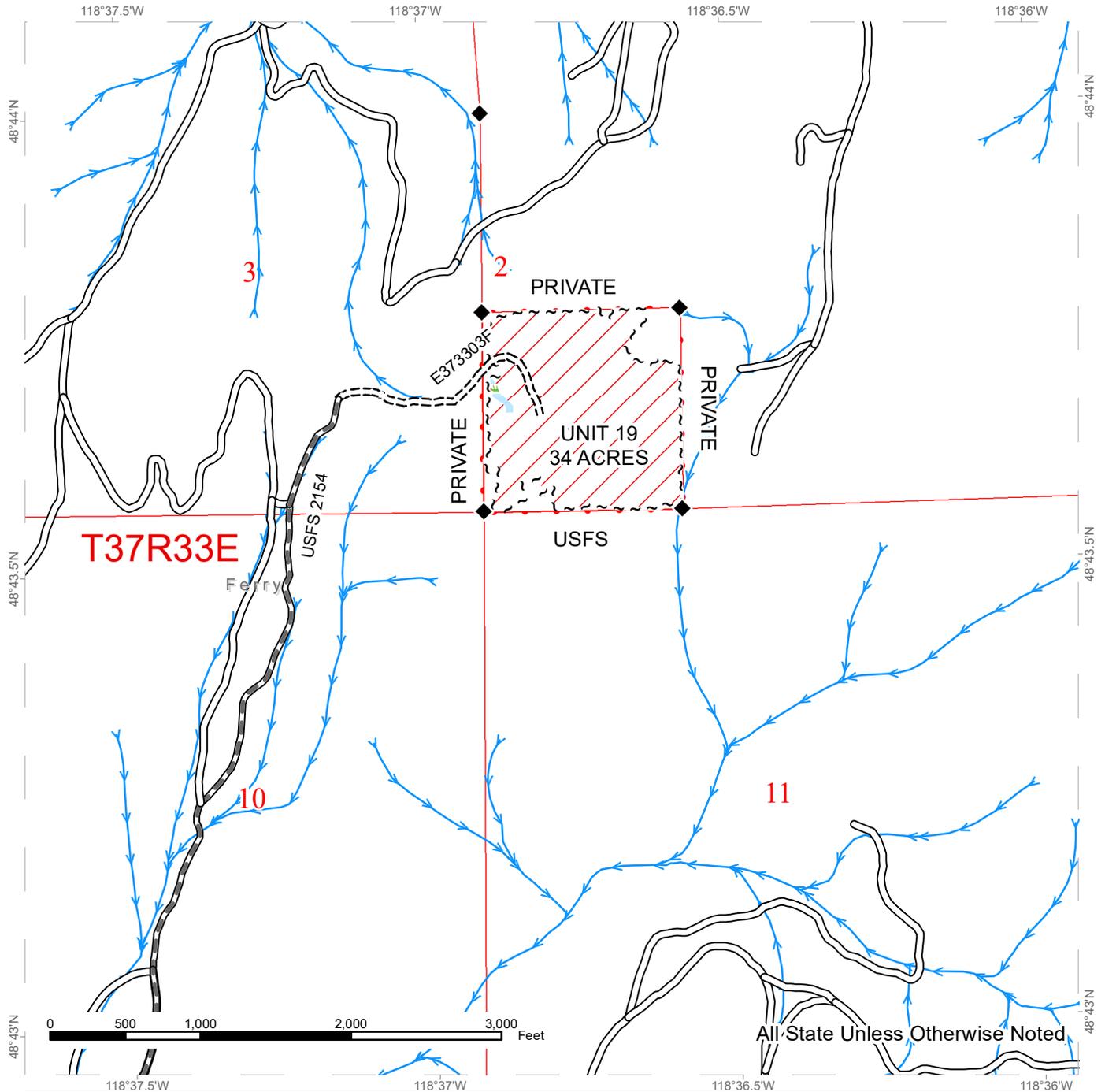
Right of ways trees (orange paint)



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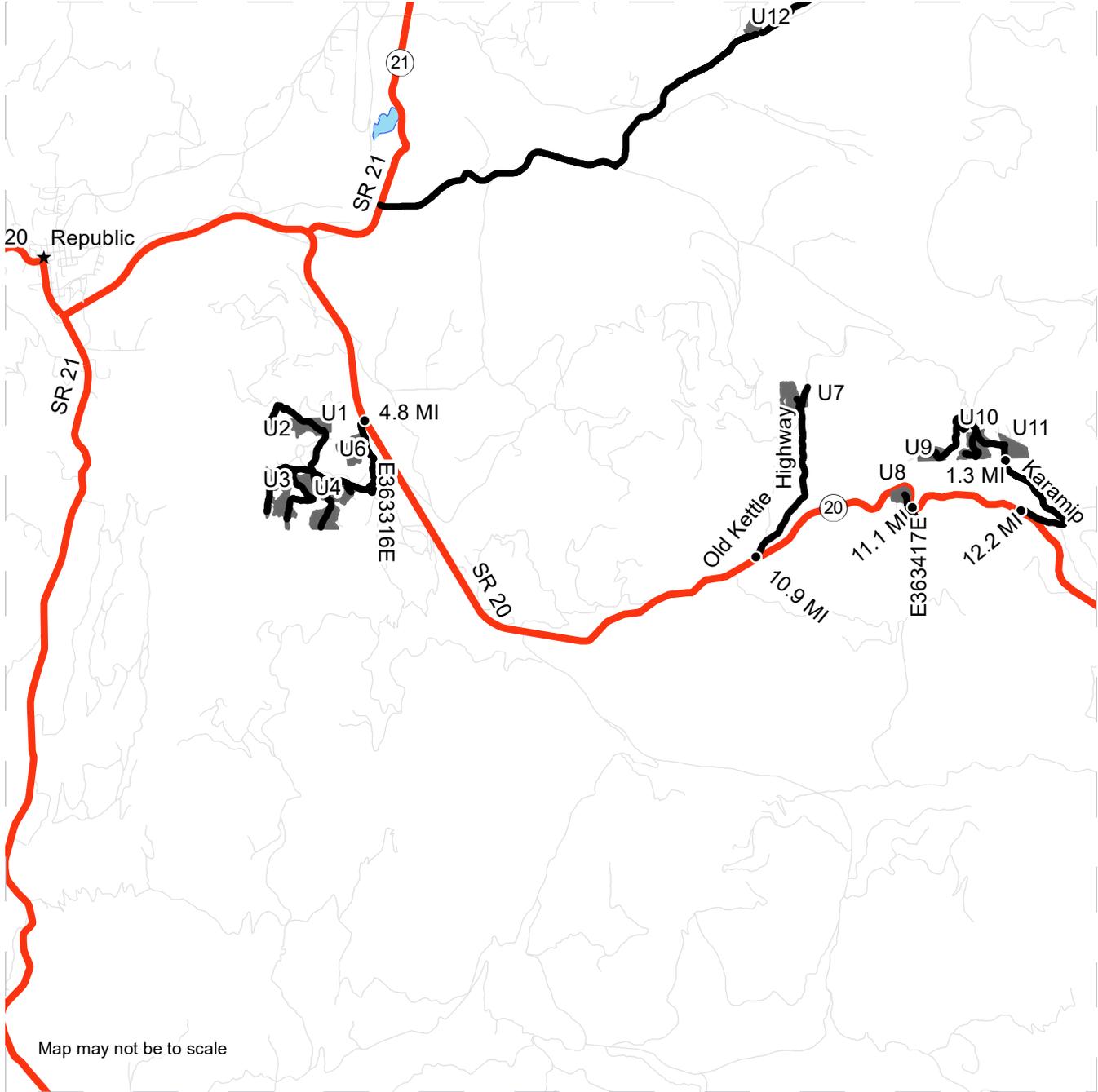
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DRIVING MAP

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Map may not be to scale

- Timber Sale Unit
- Haul Route
- Highway
- Distance Indicator

DRIVING DIRECTIONS:

Access units 1, 2, 3, 4, 6, 7, 8, 9, 10, and 11 from Republic, WA via HWY 20. From Republic travel east/south east on HWY 20 for 4.8 miles and turn right onto E363316E to access Units 1, 2, 3, 4, and 6. To access unit 7, travel 10.9 miles on HWY 20 from Republic, turn left onto Old Kettle Falls road, and travel north for 1.5 miles. To access unit 8, travel 11.1 miles from Republic on HWY 20 then turn right onto E363417E road.

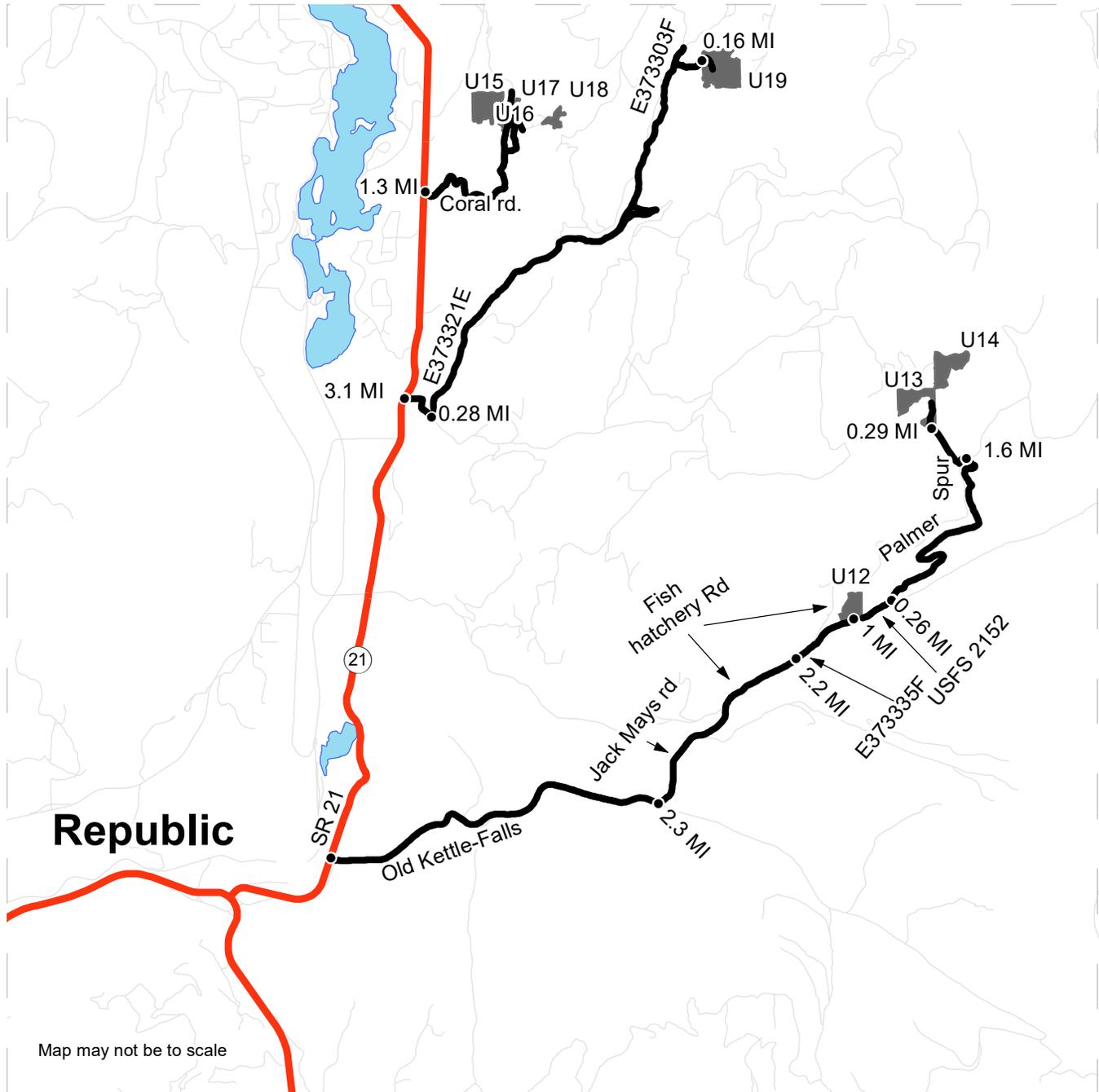
To access units 9, 10, and 11 travel 12.2 miles from Republic on HWY 20, then turn left onto Karamip road. Continue on Karamip road for 1.3 miles



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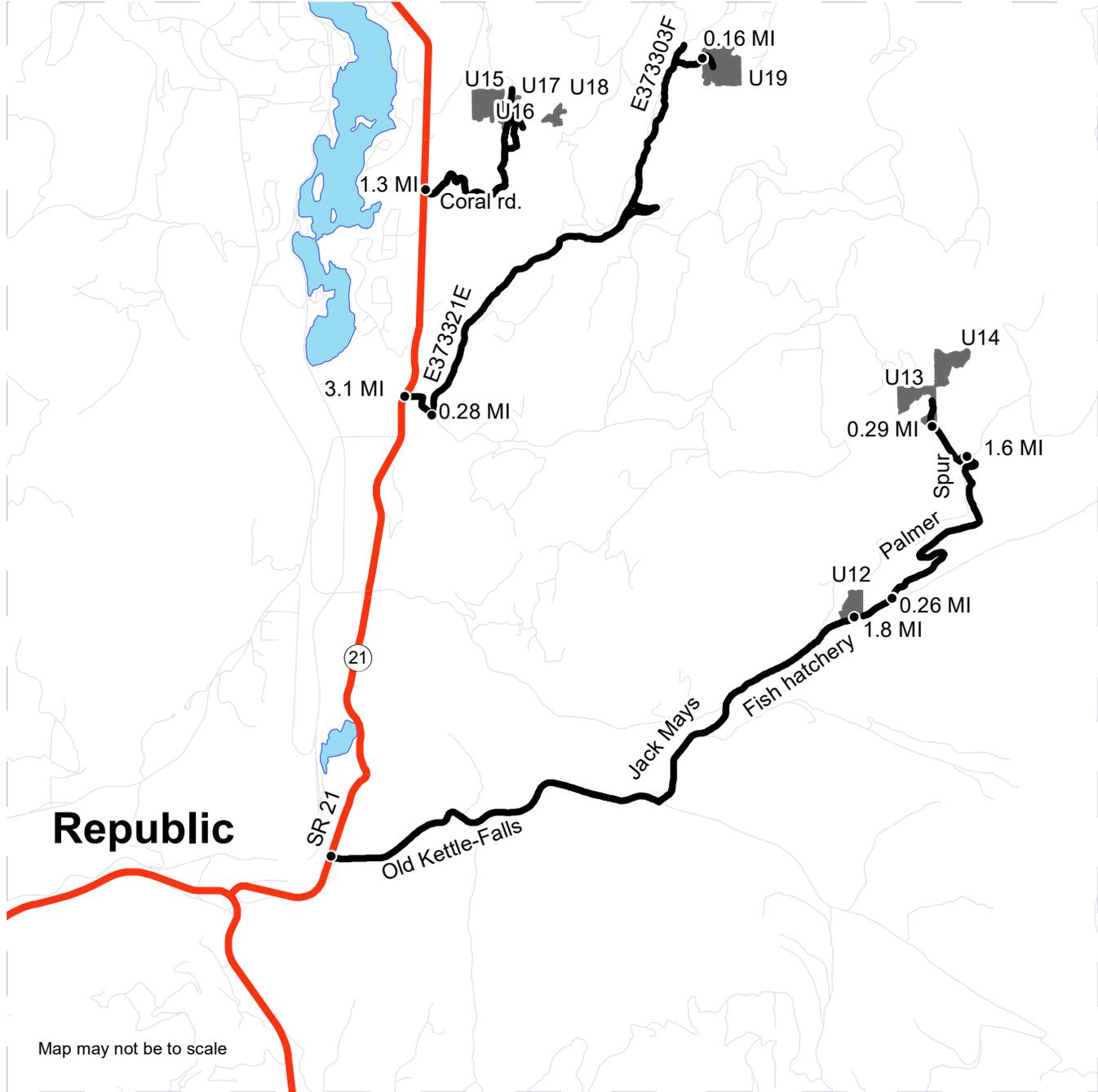
<ul style="list-style-type: none"> Timber Sale Unit Haul Route Highway Distance Indicator 	<p><u>DRIVING DIRECTIONS:</u></p> <p>Access units 12, 13, 14, from Republic, WA via HWY 21. To access unit 12 travel east for 2.6 miles from Republic, then turn left onto HWY 21. Travel 0.08 miles then turn right onto Old Kettle Falls road. Continue for 2.3 miles then turn left onto Jack Mays Pride Rd (turn into Fish Hatchery Rd) and continue for 2.2 miles to the E373335F road turn right onto the E373335F continue 1 mile to unit 12 . To access units 13 and 14 from Unit 12, Continue on E373335F road (turns into USFS 2152 rd.) for 0.26 miles then turn left onto Palmer Spur road. Continue on Palmer Spur road for 1.6 miles. Turn left onto E373326E road then turn right onto E373313E rd. Continue for 0.29 miles.</p>
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Map may not be to scale

- Timber Sale Unit
- Haul Route
- Highway
- Distance Indicator

DRIVING DIRECTIONS:

Access units 15, 16, 17, 18, and 19 from Republic, WA via HWY 21. To access unit 19 from HWY 21 and Old Kettle Falls Rd junction, travel north for 3.1 miles and turn right on Herraon Creek road. Take the immediate left onto E373316A road and travel for 0.28 miles and E373316A road turns into E373321E road. Travel north for 1.6 miles to Mires Creek road. Continue on Mires creek road for 0.57 miles and Mires Creek road turns into USFS road 2154 road. Continue on USFS 2154 road for 0.82 miles. USFS 2154 road turns into E373303E road. Continue on E373303E road for 0.17 miles, turn right onto E373303F road, and travel 0.16 miles. To access units 15, 16, 17, and 18 from the junction of HWY 21 and Herraon Creek road, travel north 1.3 miles and turn right on Coral road. Continue on Coral road for 0.89 miles.



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

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

Export Restricted Lump Sum AGREEMENT NO. 30-0100480

SALE NAME: Q GIBRALTAR

**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 August 25, 2020 and the sale was confirmed on _____. The State, as owner, agrees to sell to Purchaser, and Purchaser agrees to purchase as much of the following forest products as can be cut and removed during the term of this contract: All conifer species except for ponderosa pine and leave trees banded with purple paint in Units 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 bounded by white timber sale boundary tags; all right of way timber marked with orange paint, located on approximately 396 acres on part(s) of Sections 7, 16, and 17 all in Township 36 North, Range 34 East, Section 16 in Township 36 North, Range 33 East, Sections 2, 9, 10, 13, 24, and 26 all in Township 37 North, Range 33 East W.M. in Ferry County(s) as designated on the sale area and as shown on the attached timber sale map.

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

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

G-020 Inspection By Purchaser

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

G-031 Contract Term

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

G-040 Contract Term Adjustment - No Payment

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

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

G-051 Contract Term Extension - Payment

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

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

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

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

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

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

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

G-053 Surveys - Sensitive, Threatened, Endangered Species

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

G-060 Exclusion of Warranties

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

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

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

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

G-064 Permits

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

G-065 Regulatory Disclaimer

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

G-066 Governmental Regulatory Actions

a. Risk

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

b. Sale Area

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

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

c. Adjustment of Price

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

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

G-070 Limitation on Damage

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

G-080 Scope of State Advice

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

G-091 Sale Area Adjustment

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

G-102 Forest Products Not Designated

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

The pricing schedule has not been set for the sale.

G-106 Adding Naturally Damaged Forest Products

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

G-111 Title and Risk of Loss

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

G-116 Sustainable Forestry Initiative® (SFI) Certification

Forest products purchased under this contract are certified as being in conformance with the Sustainable Forestry Initiative program Standard under certificate number: 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 Operation

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

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

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

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

G-230 Unauthorized Activity

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

G-240 Dispute Resolution

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

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

G-250 Compliance with All Laws

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

G-260 Venue

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

G-270 Equipment Left on State Land

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

G-280 Operating Release

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

G-310 Road Use Authorization

Purchaser is authorized to use the following State roads and roads for which the State has acquired easements and road use permits; E363309F, E363316E, E363316G, E363316J, E363316K, E363316O, E363316Q, USFS 2040, E363408E, E363416F, E363416H, E363416S, E363417E, E363417K, E363418E, E363418F, E373303E, E373303F, E373309E, E373309F, E373316A, E373321E, Mires Creek Rd., USFS 2154, E373313E, E373313F, E373313G, E373335F, USFS 2152 and Palmer Spur Rd.. 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 550 pounds of grass seed to a location designated by the Contract Administrator. Seed provided shall meet the following specifications.

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

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this contract and to examine the sale area before beginning any operations. A plan of operations shall be developed and agreed upon by the Contract Administrator and Purchaser before beginning any operations. To the extent that the plan of operations is inconsistent with

the contract, the terms of the contract shall prevail. State's acceptance and approval of Purchaser's plan of operations shall not be construed as any statement or warranty that the plan of operations is adequate for Purchaser's purposes or complies with applicable laws.

G-340 Preservation of Markers

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

G-360 Road Use Reservation

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

G-370 Blocking Roads

Purchaser shall not block the E373335F, USFS 2152, USFS 2040 and Palmer Spur Rd., 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 1275 with USFS dated January 3, 1982
Road Use Permit 99406 with Nordic Crystal Falls, LLC. dated September 16, 2019
Road Use Permit 99665 with Kreel dated August 29, 2019
Road Use Permit 99666 with Martin dated August 27, 2019
Road Use Permit 99917 with Campbell dated November 4, 2019
Easement 99724 with Hamilton dated September 20, 2019
Road Use Permit 7700-41 with USFS dated June 17, 2020
Easement 99585 with Diamond M dated June 19, 2020

G-430 Open Fires

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

G-450 Encumbrances

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

Lease, including the terms and provisions thereof,
For: Grazing

In Favor of: Diamond M Ranch
Disclosed by Application No.: 10-097620
Granted: 3/1/2019
Expires: 2/28/2029

Lease, including the terms and provisions thereof,
For: Grazing
In Favor of: Bryan & Deb Gotham
Disclosed by Application No.: 10-A85375
Granted: 1/1/2020
Expires: 12/31/2029

Lease, including the terms and provisions thereof,
For: Grazing
In Favor of: Bryan & Deb Gotham
Disclosed by Application No.: 10-B71853
Granted: 1/1/2020
Expires: 12/31/2029

Easement, including the terms and provisions thereof,
For: Overhead Power Line
In Favor of: Ferry County PUD #1
Disclosed by Application No.: 50-019911
Granted: 12/1/1947
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Overhead Transmission Line and Road
In Favor of: USA, Bonneville Power Administration
Disclosed by Application No.: 50-022328
Granted: 10/15/1954
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Boise Cascade Corporation
Disclosed by Application No.: 50-038319
Granted: 4/30/1976
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: USA, Forest Service, Colville National Forest
Disclosed by Application No.: 50-043909

Granted: 44/5/1982
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Gallatin Northeast Washington Land & Timber LLC
Disclosed by Application No.: 50-085041
Granted: 2/11/2010
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: Road
In Favor of: Vaagen Bros Lumber Incorporated
Disclosed by Application No.: 50-090082
Granted: 8/11/2014
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: County Road
In Favor of: Ferry County
Disclosed by Application No.: 50-CR1200
Granted: 12/1/1926
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: County Road
In Favor of: Ferry County
Disclosed by Application No.: 50-CR1567
Granted: 12/21/1937
Expires: Indefinite

Easement, including the terms and provisions thereof,
For: County Road
In Favor of: Ferry County
Disclosed by Application No.: 50-CR1708
Granted: 11/18/1940
Expires: Indefinite

Lease, including the terms and provisions thereof,
For: Mineral Prospecting
In Favor of: Adamera Minerals LLC
Disclosed by Application No.: 65-092699
Granted: 8/1/2016
Expires: 7/31/2023
Lease, including the terms and provisions thereof,
For: Mineral Prospecting

In Favor of: Adamera Minerals LLC
Disclosed by Application No.: 65-092701
Granted: 8/1/2016
Expires: 7/31/2023

Lease, including the terms and provisions thereof,
For: Mineral Prospecting
In Favor of: Adamera Minerals LLC
Disclosed by Application No.: 65-092745
Granted: 8/1/2016
Expires: 7/31/2023

Lease, including the terms and provisions thereof,
For: Mineral Prospecting
In Favor of: Adamera Minerals LLC
Disclosed by Application No.: 65-092746
Granted: 8/1/2016
Expires: 7/31/2023

Water Right, including the terms and provisions thereof,
For: Creek
In Favor of: Washington Department of Natural Resources
Disclosed by Application No.: 78-004497
Granted: 5/15/1974
Expires: Indefinite

Water Right, including the terms and provisions thereof,
For: Spring
In Favor of: Washington Department of Natural Resources
Disclosed by Application No.: 78-004499
Granted: 5/15/1974
Expires: Indefinite

Water Right, including the terms and provisions thereof,
For: Pothole
In Favor of: Washington Department of Natural Resources
Disclosed by Application No.: 78-004765
Granted: 6/18/1974
Expires: Indefinite

Water Right, including the terms and provisions thereof,
For: Creek
In Favor of: Washington Department of Natural Resources
Disclosed by Application No.: 78-004766
Granted: 6/18/1974
Expires: Indefinite

Section P: Payments and Securities

P-011 Initial Deposit

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

P-020 Payment for Forest Products

Purchaser agrees to pay the total, lump sum contract price of \$86,060.00. The total contract price consists of a \$0.00 contract bid price plus \$86,060.00 in fees. Fees collected shall be retained by the state unless the contract is adjusted via the G-066 clause. Purchaser shall be liable for the entire purchase price, and will not be entitled to any refunds or offsets unless expressly stated in this contract.

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

P-045 Guarantee of Payment

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

P-050 Billing Procedure

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

P-080 Payment Account Refund

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

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date, security acceptable to the State in the amount of \$99,200.00. 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

Felling and Yarding will not be permitted from March 15 to June 1 in Units 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18 and 19 from September 1 to November 1 in Units 13 and 14 unless authorized in writing by the Contract Administrator.

H-011 Certification of Fallers and Yarder Operators

All persons engaged in the felling and yarding of timber must receive certification in writing from the Contract Administrator. Certification may be revoked when the Contract Administrator determines that non-compliance of leave tree selection criteria or cut tree selection criteria is occurring, or excessive damage to leave trees or skid trails is occurring.

Excessive damage for leave trees is defined in clause H-012.

Excessive skid trail damage is defined in clause H-015 or H-016.

When leave tree damage exceeds the limits set forth in clause H-012, Purchaser shall be subject to liquidated damages (clause D-040 or D-041).

H-012 Leave Tree Damage Definition

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

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

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

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

H-015 Skid Trail Requirements

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

Purchaser shall comply with the following during the yarding operation:

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

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

H-017 Preventing Excessive Soil Disturbance

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

H-035 Fall Trees Into Sale Area

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

H-050 Rub Trees

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

H-051 Branding and Painting

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

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

H-080 Snags Not to be Felled

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

H-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 for ground skidding and ground base 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 on the E373313E road from September 1 to November 1 and on the E363309F, E363316E, E363316G, E363316J, E363316K, E363316O, E363316Q, USFS 2040, E363408E, E363416F, E363416H, E363416S, E363417E, E363417K, E363418E, E363418F, E373303E, E373303F,

E373309E, E373309F, E373316A, E373321E, Mires Creek Rd., USFS 2154, E373313F, E373313G, E373335F, USFS 2152 and Palmer Spur Rd. from March 15 to June 1 unless authorized in writing by the Contract Administrator.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

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

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

H-141 Additional Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

- a. Whole tree yarding is required in all units except for Unit 15.

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

H-190 Completion of Settings

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

H-210 Log Length Hauling Restrictions

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

H-220 Protection of Residual or Adjacent Trees

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

H-230 Tops and Limbs Outside the Sale Boundary

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

H-250 Additional Falling Requirements

Within all units, all non-merchantable live stems greater than 2 inches in diameter or 3 feet in height not banded with purple paint and excluding ponderosa pine, shall be felled concurrently with felling operations. Areas of young or immature timber may be excluded from this requirement by the Contract Administrator.

H-260 Fall Leaners

Trees within all 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 3/2/2020 are hereby made a part of this contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform work at their own expense on E363309F, E363316E, E363316G, E363316J, E363316K, E363316O, E363316Q, USFS 2040, E363408E, E363416F, E363416H, E363416S, E363417E, E363417K, E363418E, E363418F, E373303E, E373303F, E373309E, E373309F, E373316A, E373321E, Mires Creek Rd., USFS 2154, E373313E, E373313F, E373313G, E373335F, USFS 2152 and Palmer Spur Rd. roads. All work shall be completed to the specifications detailed in the Road Plan.

C-080 Landing Locations Approved Prior to Construction

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

C-130 Dust Abatement

Purchaser shall abate dust on the E363309F, E363316E, E363316G, E363316J, E363316K, E363316O, E363316Q, USFS 2040, E363408E, E363416F, E363416H, E363416S, E363417E, E363417K, E363418E, E363418F, E373303E, E373303F, E373309E, E373309F, E373316A, E373321E, USFS 2154, E373313E, E373313F, E373313G, E373335F and USFS 2152 roads used for hauling from June 15 to November 1.

C-140 Water Bars

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

Section S: Site Preparation and Protection

S-001 Emergency Response Plan

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

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

S-010 Fire Hazardous Conditions

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

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

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

S-020 Extreme Hazard Abatement

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

S-030 Landing Debris Clean Up

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

S-040 Noxious Weed Control

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

S-060 Pump Truck or Pump Trailer

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

S-100 Stream Cleanout

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

S-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 (contact information below).
- National Response Center (contact information below).
- Appropriate Department of Ecology (DOE) regional office (contact information below).
- DNR Contract Administrator

DOE - Northwest Region: 1-425-649-7000
(Island, King, Kitsap, San Juan, Skagit, Snohomish, and Whatcom counties)

DOE - Southwest Region: 1-360-407-6300
(Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, and Wahkiakum counties)

DOE - Central Region: 1-509-575-2490
(Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, and Yakima counties)

DOE - Eastern Region: 1-509-329-3400
(Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, and Whitman counties)

Department of Emergency Management 24-hour Number: 1-800-258-5990

National Response Center: 1-800-424-8802

S-131 Refuse Disposal

As required by RCW 70.93, All Purchaser generated refuse shall be removed from state lands for proper disposal prior to termination of this contract. No refuse shall be burned, buried or abandoned on state forest lands. All refuse shall be transported in a manner such that it is in compliance with RCW 70.93 and all loads or loose materials shall be covered/secured such that these waste materials are properly contained during transport.

S-140 Fence Repair

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

Section D: Damages

D-013 Liquidated Damages or Failure to Perform

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

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

D-040 Leave Tree Excessive Damage

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

SIGNATURES

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

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Ken McNamee
Northeast Region Manager

Print Name

Date: _____

Date: _____

Address: _____

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

STATE OF _____)

COUNTY OF _____)

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

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

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

Notary Public in and for the State of

My appointment expires _____



WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

FOREST EXCISE TAX ROAD SUMMARY SHEET

Region: Northeast

Timber Sale Name: Q- GIBRALTAR

Application Number: 30- 100480

EXCISE TAX APPLICABLE ACTIVITIES

Construction: 6,876 linear feet
Road to be constructed (optional and required) but not abandoned

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

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

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

Pre-Haul Maintenance: 79,303 linear feet
Existing road to receive maintenance work (optional and required) prior to haul

EXCISE TAX EXEMPT ACTIVITIES

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

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

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

PRE-CRUISE NARRATIVE

Sale Name: Q Gibraltar	Region: Northeast
Agreement #: 30-100480	District: Highlands
Contact Forester: Skyler Goodrich Phone / Location: 509-223-4044	County(s): Ferry
Alternate Contact: Matt Smith Phone / Location: 509-223-4044	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.
Enter % of sale acres	
Harvest System: Select harvest system Click here to enter text.	Click here to enter percent sale acres.

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit # Harvest R/W or RMZ WMZ	Legal Description (Enter only one legal for each unit) Sec/Twp/Rng	Grant or Trust	Gross Proposal Acres	Deductions from Gross Acres (No harvest acres)				Net Harvest Acres	Acreage Determination (List method and error of closure if applicable)
				RMZ/WMZ Acres	Leave Tree Acres	Existing Road Acres	Other Acres (describe)		
1	S16T36R33	03	29	0	0	.82	0	28.2	GPS (Garmin)
2	S16T36R33	03	13	0	0	0	0	13	GPS (Garmin)
3	S16T36R33	03	49	0	0	.72	0	48.3	GPS (Garmin)
4	S16T36R33	03	68	0	0	1.58	0	66.4	GPS (Garmin)
6	S16T36R33	03	22	0	0	0	0	22	GPS (Garmin)
7	S7T36R34	03	26	0	0	.30	0	25.7	GPS (Garmin)
8	S17T36R34	03	12	0	0	0	0	12	GPS (Garmin)

9	S16T36R34	03	16	0	0	.49	0	15.5	GPS (Garmin)
10	S16T36R34	03	31	0	0	1	0	30	GPS (Garmin)
11	S16T36R34	03	21	0	0	1	0	20	GPS (Garmin)
12	S26T37R33	03	12	0	0	0	0	12	GPS (Garmin)
13	S24T37R33	03	19	0	0	.33	0	18.7	GPS (Garmin)
14	S13T37R33	03	19	0	0	0	0	19	GPS (Garmin)
15	S9T37R33	03	20	0	0	0	0	20	GPS (Garmin)
16	S9T37R33	03	3	0	0	0	0	3	GPS (Garmin)
17	S9T37R33	03	3	0	0	0	0	3	GPS (Garmin)
18	S10T37R33	03	5	0	0	0	0	5	GPS (Garmin)
19	S2T37R33	03	32	.33	0	0	0	31.7	GPS (Garmin)
ROW	S9T37R33	03	.5	0	0	0	0	.5	
TOTAL ACRES			400.5	.33				393.9	

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest Prescription: (Leave, take, paint color, tags, flagging etc.)	Special Management areas:	Other conditions (# leave trees, etc.)
1	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
2	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
3	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
4	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This

	conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.		sale complies with procedure 14-006-091
6	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
7	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
8	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
9	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
10	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
11	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
12	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091

13	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
14	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
15	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
16	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
17	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.		Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
18	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
19	Boundaries marked with white "Timber Sale Boundary" tags, orange flashers, and pink flagging. Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.	None	Minimum of 6 leave trees will be left per acre. Leave all PP. This sale complies with procedure 14-006-091
ROW	Remove all timber dotted with orange paint within the 30 ft. ROW	None	N/A

OTHER PRE-CRUISE INFORMATION:

Unit #	Primary,secondary Species / Estimated Volume (MBF)	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	DF, WL/ 200 MBF	Accessed from HWY 20/gate master lock	Region Provided Maps
2	DF,WL/ 75 MBF	Accessed from HWY 20/gate master lock	Region Provided Maps
3	DF,WL/ 310 MBF	Accessed from HWY 20/gate master lock	Region Provided Maps
4	DF,WL/ 392 MBF	Accessed from HWY 20/gate master lock	Region Provided Maps
6	DF,WL/ 100 MBF	Accessed from HWY 20/gate master lock	Region Provided Maps
7	DF,WL/ 308 MBF	Accessed from HWY 20/Old kettle falls road	Region Provided Maps
8	DF,WL/ 72 MBF	Accessed from HWY 20	Region Provided Maps
9	DF,WL/ 150 MBF	Accessed from HWY 20/Karamip road	Region Provided Maps
10	DF,WL/ 180 MBF	Accessed from HWY 20/Karamip road	Region Provided Maps
11	DF,WL/ 120 MBF	Accessed from HWY 20/Karamip road	Region Provided Maps
12	PP,DF/ 84 MBF	Accessed from Fish Hatchery road	Region Provided Maps
13	DF,WL/ 110 MBF	Accessed from USFS 2152 road/Palmer Spur	Region Provided Maps
14	DF,WL/ 235 MBF	Accessed from USFS 2152 road/Palmer Spur	Region Provided Maps
15	DF,WL/ 250 MBF	Accessed from HWY 21/Coral road	Region Provided Maps
16	DF,PP/ 27 MBF	Accessed from HWY 21/Coral road	Region Provided Maps
17	DF,PP/ 18 MBF	Accessed from HWY 21/Coral road	Region Provided Maps
18	DF,WL/ 50 MBF	Accessed from HWY 21/Coral road	Region Provided Maps
19	DF,WL/ 320 MBF	Accessed from Wolf Camp road	Region Provided Maps
ROW	DF, WL, PP/ 6	Access throughout sale area	
TOTAL MBF	3,001		

REMARKS:

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Prepared By: Skyler Goodrich Date: 1/7/2020	Title: Highlands Forester	CC:
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Timber Sale Cruise Report Gibraltar

Sale Name: Q GIBRALTAR

Sale Type: LUMP SUM

Region: NORTHEAST

District: HIGHLANDS

Lead Cruiser: Dylan Worlock

Other Cruisers: Kevin Parkinson, Dan Clark

Cruise Narrative:

Location:

Legal - Section 16, T 36 N, R 33 E.; Sections 7, 16, & 17, T 36 N, R 34 E.; Sections 2, 9, 10, 13, 24, & 26, T 37 N, R 33 E. W.M.

Access - This timber sale is comprised of 19 units located in northern Ferry County. Units 1-6 are accessed via road E363316E, E363316G, and E363309F, located off HWY 20, through a DNR gate. Unit 7 is located off Old Kettle Falls Rd, off HWY 20. Unit 8 is directly off HWY 20, accessible via the E363417K road. Units 9-11 are located off the FS 2040 Rd, via Karamip Road off HWY 20. Unit 12 is located directly off Fish Hatchery Rd. Units 13 and 14 are accessed by E373313E, via the USFS 2152 road or Palmer Spur. Units 15-18 are located off HWY 21, accessed via Coral Rd. Unit 19 is accessed through Wolf Camp Rd. The sale ROW trees are located in the proposed road into the area of units 15-18.

Aspect: North, East, South and West

Elevation: 2500'-4700'

Slope:

Sustained pitches of up to 55% slope, short pitches up to 70%. The steepest areas are most often small enough to maneuver around in order to access the timber on these slopes.

Harvesting methods:

100% Ground-based

Stand composition:

The stands are second growth Douglas-fir, ponderosa pine, and western larch with larger residual trees. All ponderosa pine within the units (except ROW) is to remain as leave trees.

Timber quality:

Timber to be harvested is comprised of domestic quality Douglas-fir (81%), and western larch (19%). There is 1.2 mbf (<1% of sale volume) of ponderosa pine to be removed in the ROW unit.

Stand health:

Units are mostly healthy, with areas of root rot and bug damage. Noted defect also includes spike knots, forked tops, sweep, mistletoe.

Species present not picked up in cruise: Lodgepole pine

Other considerations:

While the majority of the sale occurs on gentle terrain, there are areas within units that contain short pitches of steep slope. There are some rocky areas, and wet areas as well.

Cruise Design:

This sale was cruised using the cruise-count method. Cruise:Count ratio was determined by required board-foot/acre standard error. The walkthrough 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 - 7" DBH

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; Trees 17.6" and greater DBH have a minimum top DIB of 40% of DOB at 16' or a 6" top, whichever is greater.

Take/Leave Prescription - Remove all green conifers not banded with purple paint. Leave all ponderosa pine. Leave all hardwoods.

Cruise Acres determination - FMA unit acreages with existing road acreages subtracted.

General Remarks:

Entire sale including ROW volume is located within Trust 03.

Units 4 and 5 were combined into one unit, removing unit 5. Subsequent units retained their original numbering.

Timber Sale Notice Volume (MBF)

Sp	QMD	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	5 Saw
DF	12.9			2,674.9	498.3	1,518.7	657.7	
WL	12.8			634.3	73.2	456.9	103.9	
PP	22.5			1.2			0.8	0.4
ALL	12.8			3,310.3	571.5	1,975.7	762.3	0.4

Timber Sale Notice Weight (tons)

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	5 Saw
DF	18,828.2	2,936.4	11,315.0	4,577.0	
WL	3,649.7	385.5	2,685.4	578.7	
PP	6.2			4.2	2.0
ALL	22,484.1	3,321.9	14,000.5	5,159.9	2.0

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 (%)
90.1	3.4	114.3	1.7	10,433	3.8

Timber Sale Unit Cruise Design

Unit	Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
GIBRALTAR U1	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	28.4	29.2	18	9	1
GIBRALTAR U2	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	12.8	12.8	10	6	0
GIBRALTAR U3	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	47.8	48.5	32	11	1
GIBRALTAR U4	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	66.5	68.1	40	13	0
GIBRALTAR U6	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	21.8	21.8	18	6	0
GIBRALTAR U7	B1C: VR, 1 BAF (22.5) Measure/Count Plots, Sighting Ht = 4.5 ft	25.8	26.1	18	8	1
GIBRALTAR U8	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	12.2	12.2	9	6	0
GIBRALTAR U9	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	15.2	15.7	12	6	1
GIBRALTAR U10	B1C: VR, 1 BAF (22.5) Measure/Count Plots, Sighting Ht = 4.5 ft	30.0	31.0	19	10	1
GIBRALTAR U11	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	19.9	20.9	15	8	0
GIBRALTAR U12	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	12.0	12.3	10	5	0
GIBRALTAR U13	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	18.3	18.6	16	8	0
GIBRALTAR U14	B1C: VR, 1 BAF (22.5) Measure/Count Plots, Sighting Ht = 4.5 ft	19.1	19.1	16	8	0
GIBRALTAR U15	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	20.3	20.3	14	8	0
GIBRALTAR U16	B1: VR, 1 BAF (20) Measure All, Sighting Ht = 4.5 ft	2.6	2.6	4	4	0
GIBRALTAR U17	B1: VR, 1 BAF (20) Measure All, Sighting Ht = 4.5 ft	3.4	3.4	3	3	0
GIBRALTAR U18	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	5.3	5.3	6	6	0
GIBRALTAR U19	B1C: VR, 1 BAF (20) Measure/Count Plots, Sighting Ht = 4.5 ft	34.4	34.7	23	12	1
ROW	ST: Strip/Percent Sample (1 tree expansion)	0.5		1	1	0
All		396.2	402.6	284	138	6

Timber Sale Log Grade x Sort Summary

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	14.0	32.0	1,258	1.6	2,936.4	498.4
DF	LIVE	3 SAW	Domestic	7.6	32.0	3,833	2.1	11,314.7	1,518.6
DF	LIVE	4 SAW	Domestic	5.3	22.0	1,660	2.8	4,577.0	657.8
DF	LIVE	CULL	Cull	6.5	3.0	0	100.0	0.0	0.0
PP	LIVE	4 SAW	Domestic	14.9	31.0	2	0.7	4.2	0.8
PP	LIVE	5 SAW	Domestic	8.7	24.0	1	0.0	2.0	0.4
WL	LIVE	2 SAW	Domestic	12.9	32.0	185	2.3	385.6	73.3
WL	LIVE	3 SAW	Domestic	7.7	31.0	1,154	1.1	2,685.5	457.1
WL	LIVE	4 SAW	Domestic	5.2	22.0	262	0.1	578.7	103.9
WL	LIVE	CULL	Cull	5.1	4.0	0	100.0	0.0	0.0

Timber Sale Log Grade x Diameter Bin Summary

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.3	22.0	1,644	2.8	4,522.6	651.4
DF	5 - 8	LIVE	CULL	5.5	3.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	3 SAW	6.9	32.0	2,171	2.0	6,564.2	859.9
DF	9 - 11	LIVE	4 SAW	8.9	21.0	16	3.7	54.4	6.3
DF	9 - 11	LIVE	3 SAW	9.7	31.0	1,657	2.2	4,735.1	656.5
DF	12 - 14	LIVE	2 SAW	12.7	32.0	677	1.3	1,660.1	268.0
DF	12 - 14	LIVE	3 SAW	13.2	28.0	5	28.9	15.4	2.2
DF	12 - 14	LIVE	CULL	13.7	5.0	0	100.0	0.0	0.0
DF	15 - 19	LIVE	CULL	16.4	6.0	0	100.0	0.0	0.0
DF	15 - 19	LIVE	2 SAW	16.6	31.0	486	2.1	1,080.8	192.5
DF	20+	LIVE	2 SAW	21.3	32.0	96	1.0	195.5	38.0
PP	5 - 8	LIVE	5 SAW	7.1	18.0	0	0.0	0.5	0.1
PP	9 - 11	LIVE	5 SAW	11.1	32.0	1	0.0	1.4	0.3
PP	12 - 14	LIVE	4 SAW	12.5	30.0	0	3.6	1.2	0.2
PP	15 - 19	LIVE	4 SAW	16.2	32.0	2	0.0	3.1	0.7
WL	5 - 8	LIVE	CULL	5.1	4.0	0	100.0	0.0	0.0
WL	5 - 8	LIVE	4 SAW	5.2	23.0	262	0.1	578.7	103.9
WL	5 - 8	LIVE	3 SAW	6.7	32.0	587	0.1	1,367.0	232.5
WL	9 - 11	LIVE	3 SAW	9.6	31.0	567	2.2	1,318.4	224.6
WL	9 - 11	LIVE	2 SAW	11.5	32.0	25	0.0	53.2	10.1
WL	12 - 14	LIVE	2 SAW	12.7	32.0	131	0.0	269.6	52.1
WL	15 - 19	LIVE	2 SAW	15.6	32.0	28	13.3	62.8	11.2

Timber Sale Log Sort x Diameter Bin Summary

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Cull	5.5	3.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	5.8	25.0	3,815	2.3	11,086.9	1,511.3
DF	9 - 11	LIVE	Domestic	9.6	31.0	1,673	2.3	4,789.4	662.8
DF	12 - 14	LIVE	Domestic	12.7	32.0	682	1.6	1,675.6	270.2
DF	12 - 14	LIVE	Cull	13.7	5.0	0	100.0	0.0	0.0
DF	15 - 19	LIVE	Cull	16.4	6.0	0	100.0	0.0	0.0
DF	15 - 19	LIVE	Domestic	16.6	31.0	486	2.1	1,080.8	192.5
DF	20+	LIVE	Domestic	21.3	32.0	96	1.0	195.5	38.0
PP	5 - 8	LIVE	Domestic	7.1	18.0	0	0.0	0.5	0.1
PP	9 - 11	LIVE	Domestic	11.1	32.0	1	0.0	1.4	0.3
PP	12 - 14	LIVE	Domestic	12.5	30.0	0	3.6	1.2	0.2
PP	15 - 19	LIVE	Domestic	16.2	32.0	2	0.0	3.1	0.7
WL	5 - 8	LIVE	Cull	5.1	4.0	0	100.0	0.0	0.0
WL	5 - 8	LIVE	Domestic	6.0	27.0	849	0.1	1,945.7	336.4
WL	9 - 11	LIVE	Domestic	9.6	31.0	592	2.1	1,371.6	234.6
WL	12 - 14	LIVE	Domestic	12.7	32.0	131	0.0	269.6	52.1
WL	15 - 19	LIVE	Domestic	15.6	32.0	28	13.3	62.8	11.2

Timber Sale Distribution of Volume by County and Timber Trust by Sale Unit

Unit	Harvest Type	N Trusts	Timber Trust	County	Unit MBF	Sale MBF	Unit % of Sale	Trust % of Unit	Trust % of Sale
GIBRALTAR U1	VRH	1	3	Ferry	250.9	3,310.3	7.58	100.00	7.58
GIBRALTAR U2	VRH	1	3	Ferry	79.7	3,310.3	2.41	100.00	2.41
GIBRALTAR U3	VRH	1	3	Ferry	414.0	3,310.3	12.51	100.00	12.51
GIBRALTAR U4	VRH	1	3	Ferry	700.8	3,310.3	21.17	100.00	21.17
GIBRALTAR U6	VRH	1	3	Ferry	164.4	3,310.3	4.97	100.00	4.97
GIBRALTAR U7	VRH	1	3	Ferry	292.2	3,310.3	8.83	100.00	8.83
GIBRALTAR U8	VRH	1	3	Ferry	106.6	3,310.3	3.22	100.00	3.22
GIBRALTAR U9	VRH	1	3	Ferry	107.1	3,310.3	3.24	100.00	3.24
GIBRALTAR U10	VRH	1	3	Ferry	160.0	3,310.3	4.83	100.00	4.83

Unit	Harvest Type	N Trusts	Timber Trust	County	Unit MBF	Sale MBF	Unit % of Sale	Trust % of Unit	Trust % of Sale
GIBRALTAR U11	VRH	1	3	Ferry	182.2	3,310.3	5.50	100.00	5.50
GIBRALTAR U12	VRH	1	3	Ferry	28.0	3,310.3	0.85	100.00	0.85
GIBRALTAR U13	VRH	1	3	Ferry	88.9	3,310.3	2.69	100.00	2.69
GIBRALTAR U14	VRH	1	3	Ferry	159.5	3,310.3	4.82	100.00	4.82
GIBRALTAR U15	VRH	1	3	Ferry	228.7	3,310.3	6.91	100.00	6.91
GIBRALTAR U16	VRH	1	3	Ferry	21.2	3,310.3	0.64	100.00	0.64
GIBRALTAR U17	VRH	1	3	Ferry	22.7	3,310.3	0.69	100.00	0.69
GIBRALTAR U18	VRH	1	3	Ferry	121.3	3,310.3	3.66	100.00	3.66
GIBRALTAR U19	VRH	1	3	Ferry	180.1	3,310.3	5.44	100.00	5.44

Timber Sale Distribution of Volume by County and Timber Trust for the Timber Sale

Timber Trust	County	Trust % of Sale
3	Ferry	99.96

Cruise Unit Report GIBALTAR U1

Unit Sale Notice Volume (MBF): GIBALTAR U1

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	11.6			227.6	28.4	142.4	56.8
WL	13.0			23.3	5.7	15.4	2.2
ALL	11.7			250.9	34.1	157.8	59.0

Unit Sale Notice Weight (tons): GIBALTAR U1

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	1,633.8	206.0	1,041.6	386.2
WL	135.9	32.9	91.6	11.4
ALL	1,769.7	238.9	1,133.2	397.6

Unit Cruise Design: GIBALTAR 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	28.4	29.2	18	9	1

Unit Cruise Summary: GIBALTAR U1

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	28	77	4.3	0
WL	3	5	0.3	0
ALL	31	82	4.6	0

Unit Cruise Statistics (Cut + Leave Trees): GIBALTAR 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	85.6	74.3	17.5	107.8	28.4	5.4	9,225	79.5	18.3
WL	5.6	240.9	56.8	148.1	12.2	7.1	823	241.2	57.2
ALL	91.1	67.0	15.8	110.3	28.8	5.2	10,048	73.0	16.6

Unit Summary: GIBRALTAR U1

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	28	ALL	11.6	44	74	8,027	0.9	101.4	74.4	21.9	1,633.8	227.6
DF	LIVE	LEA	0	ALL	18.4	3	4	1,198	0.9	6.0	11.1	2.6	243.8	34.0
WL	LIVE	CUT	3	ALL	13.0	63	91	823	0.0	6.0	5.6	1.5	135.9	23.3
ALL	LIVE	LEA	0	ALL	18.4	3	4	1,198	0.9	6.0	11.1	2.6	243.8	34.0
ALL	LIVE	CUT	31	ALL	11.7	45	75	8,850	0.8	107.4	80.0	23.4	1,769.7	250.9
ALL	ALL	ALL	31	ALL	12.1	43	71	10,048	0.8	113.4	91.1	26.0	2,013.5	284.9

Unit Stand Table: GIBRALTAR U1

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	5	8.2	25	58	886	0.0	36.6	13.3	4.7	179.4	25.1
DF	10	LIVE	CUT	6	9.8	45	83	1,678	0.7	30.6	15.9	5.1	334.2	47.6
DF	12	LIVE	CUT	2	12.2	56	83	627	0.0	6.6	5.3	1.5	127.0	17.8
DF	14	LIVE	CUT	5	14.2	63	85	1,640	0.0	12.2	13.3	3.5	333.2	46.5
DF	16	LIVE	CUT	5	15.9	66	85	1,610	0.0	9.6	13.3	3.3	331.8	45.6
DF	18	LIVE	CUT	2	18.7	60	73	523	8.2	2.8	5.3	1.2	118.0	14.8
DF	20	LIVE	CUT	2	19.5	71	86	680	2.1	2.6	5.3	1.2	136.0	19.3
DF	22	LIVE	CUT	1	22.7	82	97	383	0.0	0.9	2.7	0.6	74.2	10.9
DF	14	LIVE	LEA	1	14.0			120	0.9	1.0	1.1	0.3	24.4	3.4
DF	16	LIVE	LEA	3	16.0			359	0.9	2.4	3.3	0.8	73.1	10.2
DF	18	LIVE	LEA	1	18.0			120	0.9	0.6	1.1	0.3	24.4	3.4
DF	20	LIVE	LEA	2	19.2			240	0.9	1.1	2.2	0.5	48.8	6.8
DF	22	LIVE	LEA	1	21.0			120	0.9	0.5	1.1	0.2	24.4	3.4
DF	32	LIVE	LEA	1	32.0	98	108	120	0.9	0.2	1.1	0.2	24.4	3.4
DF	34	LIVE	LEA	1	33.0			120	0.9	0.2	1.1	0.2	24.4	3.4
WL	10	LIVE	CUT	1	10.4	54	86	239	0.0	3.2	1.9	0.6	41.6	6.8
WL	14	LIVE	CUT	1	13.1	70	97	279	0.0	2.0	1.9	0.5	45.2	7.9
WL	18	LIVE	CUT	1	18.9	81	98	305	0.0	1.0	1.9	0.4	49.1	8.7

Unit Log Grade Summary: GIBRALTAR U1

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	12.6	32.0	1,003	1.5	206.0	28.4
DF	LIVE	3 SAW	7.4	32.0	5,022	0.9	1,041.6	142.4
DF	LIVE	4 SAW	5.1	22.0	2,002	0.6	386.2	56.8
WL	LIVE	2 SAW	12.6	32.0	201	0.0	32.9	5.7
WL	LIVE	3 SAW	7.1	32.0	543	0.0	91.6	15.4
WL	LIVE	4 SAW	5.1	18.0	79	0.0	11.4	2.2

Unit Log Sort Summary: GIBRALTAR U1

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	6.4	27.0	8,027	0.9	1,633.8	227.6
WL	LIVE	Domestic	6.9	28.0	823	0.0	135.9	23.3

Unit Log Grade x Sort Summary: GIBRALTAR U1

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	12.6	32.0	1,003	1.5	206.0	28.4
DF	LIVE	3 SAW	Domestic	7.4	32.0	5,022	0.9	1,041.6	142.4
DF	LIVE	4 SAW	Domestic	5.1	22.0	2,002	0.6	386.2	56.8
WL	LIVE	2 SAW	Domestic	12.6	32.0	201	0.0	32.9	5.7
WL	LIVE	3 SAW	Domestic	7.1	32.0	543	0.0	91.6	15.4
WL	LIVE	4 SAW	Domestic	5.1	18.0	79	0.0	11.4	2.2

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U1

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.1	22.0	2,002	0.6	386.2	56.8
DF	5 - 8	LIVE	3 SAW	6.4	32.0	2,577	0.0	521.3	73.1
DF	9 - 11	LIVE	3 SAW	9.4	32.0	2,444	1.9	520.2	69.3
DF	12 - 14	LIVE	2 SAW	12.6	32.0	1,003	1.5	206.0	28.4
WL	5 - 8	LIVE	4 SAW	5.1	18.0	79	0.0	11.4	2.2
WL	5 - 8	LIVE	3 SAW	6.6	32.0	355	0.0	59.5	10.1
WL	9 - 11	LIVE	3 SAW	8.7	32.0	188	0.0	32.1	5.3
WL	12 - 14	LIVE	2 SAW	12.6	32.0	201	0.0	32.9	5.7

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U1

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.6	26.0	4,580	0.3	907.6	129.8
DF	9 - 11	LIVE	Domestic	9.4	32.0	2,444	1.9	520.2	69.3
DF	12 - 14	LIVE	Domestic	12.6	32.0	1,003	1.5	206.0	28.4
WL	5 - 8	LIVE	Domestic	6.0	26.0	434	0.0	70.9	12.3
WL	9 - 11	LIVE	Domestic	8.7	32.0	188	0.0	32.1	5.3
WL	12 - 14	LIVE	Domestic	12.6	32.0	201	0.0	32.9	5.7

Cruise Unit Report GIBRALTAR U2

Unit Sale Notice Volume (MBF): GIBRALTAR U2

Sp	QMD	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
DF	11.4			74.5	45.4	29.1
WL	8.8			5.2	2.3	2.9
ALL	11.1			79.7	47.8	31.9

Unit Sale Notice Weight (tons): GIBRALTAR U2

Sp	Tons by Grade		
	All	3 Saw	4 Saw
DF	600.5	346.5	254.0
WL	31.2	14.5	16.7
ALL	631.7	361.0	270.7

Unit Cruise Design: GIBRALTAR U2

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	12.8	12.8	10	6	0

Unit Cruise Summary: GIBRALTAR U2

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		3	1.0	0
DF	20	42	4.2	0
WL	2	2	0.2	0
ALL	22	47	4.7	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR 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	20.0	0.0	0.0						
DF	84.0	70.8	22.4	76.9	39.1	8.7	6,461	80.9	24.0
WL	4.0	316.2	100.0	101.6	14.1	10.0	407	316.5	100.5
ALL	94.0	59.4	18.8	78.0	38.0	8.1	7,335	70.5	20.5

Unit Summary: GIBRALTAR U2

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	20	ALL	11.4	36	54	5,845	6.4	107.2	76.0	22.5	600.5	74.5
DF	LIVE	LEA	0	ALL	17.3			615	6.4	4.9	8.0	1.9	63.2	7.8
PP	LIVE	LEA	0	ALL	13.6	28	49			5.9	6.0	1.6		
WL	LIVE	CUT	2	ALL	8.8	43	95	407	0.0	9.5	4.0	1.3	31.2	5.2
ALL	LIVE	CUT	22	ALL	11.2	37	57	6,252	6.0	116.7	80.0	23.8	631.7	79.7
ALL	LIVE	LEA	0	ALL	15.4	15	27	615	6.4	10.8	14.0	3.5	63.2	7.8
ALL	ALL	ALL	22	ALL	11.6	35	55	6,867	6.0	127.5	94.0	27.3	694.9	87.5

Unit Stand Table: GIBRALTAR U2

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	3	8.2	23	46	712	0.0	31.3	11.4	4.0	63.7	9.1
DF	10	LIVE	CUT	3	10.2	39	62	876	4.9	19.9	11.4	3.6	93.6	11.2
DF	12	LIVE	CUT	7	11.8	38	54	1,935	2.7	35.2	26.6	7.8	205.8	24.7
DF	14	LIVE	CUT	3	14.5	36	44	660	16.6	10.0	11.4	3.0	79.7	8.4
DF	16	LIVE	CUT	3	15.9	57	72	1,127	12.8	8.3	11.4	2.9	112.2	14.4
DF	18	LIVE	CUT	1	17.2	74	92	535	0.0	2.4	3.8	0.9	45.4	6.8
DF	16	LIVE	LEA	1	15.0			154	6.4	1.6	2.0	0.5	15.8	2.0
DF	18	LIVE	LEA	2	17.2			307	6.4	2.5	4.0	1.0	31.6	3.9
DF	22	LIVE	LEA	1	21.0			154	6.4	0.8	2.0	0.4	15.8	2.0
PP	12	LIVE	LEA	1	11.0	28	53			3.0	2.0	0.6		
PP	14	LIVE	LEA	1	13.0	37	61			2.2	2.0	0.6		
PP	22	LIVE	LEA	1	22.0					0.8	2.0	0.4		
WL	8	LIVE	CUT	1	8.1	45	114	224	0.0	5.6	2.0	0.7	16.7	2.9
WL	10	LIVE	CUT	1	9.6	41	69	183	0.0	4.0	2.0	0.6	14.5	2.3

Unit Log Grade Summary: GIBRALTAR U2

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	3 SAW	7.2	32.0	3,564	4.4	346.5	45.4
DF	LIVE	4 SAW	5.1	24.0	2,281	9.2	254.0	29.1
WL	LIVE	3 SAW	5.9	32.0	183	0.0	14.5	2.3
WL	LIVE	4 SAW	5.5	32.0	224	0.0	16.7	2.9

Unit Log Sort Summary: GIBRALTAR U2

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	5.9	27.0	5,845	6.4	600.5	74.5
WL	LIVE	Domestic	5.7	32.0	407	0.0	31.2	5.2

Unit Log Grade x Sort Summary: GIBRALTAR U2

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	3 SAW	Domestic	7.2	32.0	3,564	4.4	346.5	45.4
DF	LIVE	4 SAW	Domestic	5.1	24.0	2,281	9.2	254.0	29.1
WL	LIVE	3 SAW	Domestic	5.9	32.0	183	0.0	14.5	2.3
WL	LIVE	4 SAW	Domestic	5.5	32.0	224	0.0	16.7	2.9

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U2

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.1	24.0	2,281	9.2	254.0	29.1
DF	5 - 8	LIVE	3 SAW	6.6	32.0	2,464	6.3	249.5	31.4
DF	9 - 11	LIVE	3 SAW	10.4	32.0	1,099	0.0	97.0	14.0
WL	5 - 8	LIVE	4 SAW	5.5	32.0	224	0.0	16.7	2.9
WL	5 - 8	LIVE	3 SAW	5.9	32.0	183	0.0	14.5	2.3

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U2

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.6	27.0	4,746	7.7	503.5	60.5
DF	9 - 11	LIVE	Domestic	10.4	32.0	1,099	0.0	97.0	14.0
WL	5 - 8	LIVE	Domestic	5.7	32.0	407	0.0	31.2	5.2

Cruise Unit Report GIBRALTAR U3

Unit Sale Notice Volume (MBF): GIBRALTAR U3

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WL	12.0			211.5	19.2	159.0	33.3
DF	10.7			202.5		129.7	72.8
ALL	11.2			414.0	19.2	288.7	106.1

Unit Sale Notice Weight (tons): GIBRALTAR U3

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	1,370.0		893.2	476.8
WL	1,180.2	105.7	889.9	184.6
ALL	2,550.2	105.7	1,783.2	661.3

Unit Cruise Design: GIBRALTAR 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	47.8	48.5	32	11	1

Unit Cruise Summary: GIBRALTAR U3

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		3	1.0	0
DF	23	73	2.3	0
WL	15	46	1.4	0
ALL	38	122	3.8	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR 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 (%)
PP	20.0	0.0	0.0						
DF	45.6	99.1	17.5	102.7	36.2	7.6	4,684	105.5	19.1
WL	28.8	154.0	27.2	153.9	17.5	4.5	4,424	155.0	27.6
ALL	76.3	66.4	11.7	122.5	34.1	5.5	9,338	74.7	13.0

Unit Summary: GIBRALTAR U3

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	23	ALL	10.6	37	61	4,235	0.6	67.3	41.3	12.7	1,370.0	202.5
DF	LIVE	LEA	0	ALL	15.1			449	0.6	3.5	4.4	1.1	145.3	21.5
PP	LIVE	LEA	0	ALL	19.4					0.9	1.9	0.4		
WL	LIVE	CUT	15	ALL	12.0	61	89	4,424	1.4	36.6	28.8	8.3	1,180.2	211.5
ALL	LIVE	CUT	38	ALL	11.1	45	71	8,659	1.0	103.9	70.1	21.0	2,550.2	414.0
ALL	LIVE	LEA	0	ALL	16.1			449	0.7	4.4	6.3	1.5	145.3	21.5
ALL	ALL	ALL	38	ALL	11.4	44	68	9,108	1.0	108.3	76.4	22.5	2,695.5	435.5

Unit Stand Table: GIBRALTAR U3

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	7	7.8	23	50	735	2.0	33.2	11.1	4.0	241.5	35.1
DF	10	LIVE	CUT	1	10.9	47	73	389	0.0	4.9	3.2	1.0	115.1	18.6
DF	12	LIVE	CUT	5	11.8	53	77	1,152	0.8	12.6	9.5	2.8	368.5	55.1
DF	14	LIVE	CUT	10	13.5	50	67	1,714	-0.1	15.9	15.9	4.3	572.1	81.9
DF	16	LIVE	CUT	1	15.4	72	92	245	0.0	1.2	1.6	0.4	72.9	11.7
DF	12	LIVE	LEA	1	12.0			64	0.6	0.8	0.6	0.2	20.8	3.1
DF	14	LIVE	LEA	2	13.5			128	0.6	1.3	1.3	0.3	41.5	6.1
DF	16	LIVE	LEA	1	15.0			64	0.6	0.5	0.6	0.2	20.8	3.1
DF	18	LIVE	LEA	1	17.0			64	0.6	0.4	0.6	0.2	20.8	3.1
DF	20	LIVE	LEA	1	19.0			64	0.6	0.3	0.6	0.1	20.8	3.1
DF	24	LIVE	LEA	1	23.0			64	0.6	0.2	0.6	0.1	20.7	3.1
PP	16	LIVE	LEA	1	15.0					0.5	0.6	0.2		
PP	24	LIVE	LEA	1	23.0					0.2	0.6	0.1		
PP	26	LIVE	LEA	1	25.0					0.2	0.6	0.1		
WL	8	LIVE	CUT	1	8.0	37	73	194	0.0	5.2	1.8	0.6	51.5	9.3
WL	10	LIVE	CUT	4	9.7	55	88	1,058	0.0	13.9	7.2	2.3	275.0	50.6
WL	12	LIVE	CUT	1	12.4	75	103	316	0.0	2.1	1.8	0.5	83.1	15.1
WL	14	LIVE	CUT	5	13.5	74	99	1,577	2.4	9.1	9.0	2.5	400.8	75.4
WL	16	LIVE	CUT	3	16.1	70	88	1,022	3.9	5.1	7.2	1.8	297.2	48.9
WL	18	LIVE	CUT	1	17.5	72	89	256	0.0	1.1	1.8	0.4	72.6	12.3

Unit Log Grade Summary: GIBRALTAR U3

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	3 SAW	7.7	32.0	2,712	-0.3	893.2	129.7
DF	LIVE	4 SAW	5.3	21.0	1,523	1.9	476.8	72.8
WL	LIVE	2 SAW	11.5	32.0	402	0.0	105.7	19.2

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
WL	LIVE	3 SAW	7.8	31.0	3,326	2.4	889.9	159.0
WL	LIVE	4 SAW	5.2	21.0	696	0.0	184.6	33.3

Unit Log Sort Summary: GIBRALTAR U3

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	6.1	25.0	4,235	0.5	1,370.0	202.5
WL	LIVE	Domestic	6.9	27.0	4,424	1.8	1,180.2	211.5

Unit Log Grade x Sort Summary: GIBRALTAR U3

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	3 SAW	Domestic	7.7	32.0	2,712	-0.3	893.2	129.7
DF	LIVE	4 SAW	Domestic	5.3	21.0	1,523	1.9	476.8	72.8
WL	LIVE	2 SAW	Domestic	11.5	32.0	402	0.0	105.7	19.2
WL	LIVE	3 SAW	Domestic	7.8	31.0	3,326	2.4	889.9	159.0
WL	LIVE	4 SAW	Domestic	5.2	21.0	696	0.0	184.6	33.3

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U3

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.3	21.0	1,523	1.9	476.8	72.8
DF	5 - 8	LIVE	3 SAW	7.4	32.0	2,004	0.2	685.8	95.8
DF	9 - 11	LIVE	3 SAW	9.6	32.0	708	-1.7	207.4	33.9
WL	5 - 8	LIVE	4 SAW	5.2	21.0	696	0.0	184.6	33.3
WL	5 - 8	LIVE	3 SAW	6.7	31.0	1,578	0.0	416.2	75.5
WL	9 - 11	LIVE	3 SAW	9.7	32.0	1,748	4.4	473.7	83.6
WL	9 - 11	LIVE	2 SAW	11.5	32.0	211	0.0	53.2	10.1
WL	12 - 14	LIVE	2 SAW	11.6	32.0	192	0.0	52.5	9.2

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U3

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.9	24.0	3,527	1.0	1,162.6	168.6
DF	9 - 11	LIVE	Domestic	9.6	32.0	708	-1.7	207.4	33.9
WL	5 - 8	LIVE	Domestic	6.0	26.0	2,274	0.0	600.8	108.7
WL	9 - 11	LIVE	Domestic	9.9	32.0	1,959	4.0	526.9	93.6
WL	12 - 14	LIVE	Domestic	11.6	32.0	192	0.0	52.5	9.2

Cruise Unit Report GIBRALTAR U4

Unit Sale Notice Volume (MBF): GIBRALTAR U4

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	12.5			589.5	19.6	430.8	139.1
WL	11.2			111.3		82.6	28.6
ALL	12.3			700.8	19.6	513.4	167.7

Unit Sale Notice Weight (tons): GIBRALTAR U4

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	4,547.9	148.4	3,513.8	885.7
WL	663.9		521.5	142.4
ALL	5,211.8	148.4	4,035.3	1,028.1

Unit Cruise Design: GIBRALTAR 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	66.5	68.1	40	13	0

Unit Cruise Summary: GIBRALTAR U4

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		3	1.5	0
DF	49	177	4.4	0
WL	5	23	0.6	0
ALL	54	203	5.1	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR 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	30.0	47.1	33.3						
DF	88.5	61.6	9.7	109.4	24.7	3.5	9,680	66.4	10.4
WL	11.5	135.8	21.5	145.4	11.8	5.3	1,672	136.3	22.1
ALL	101.5	56.3	8.9	113.5	24.8	3.4	11,522	61.6	9.5

Unit Summary: GIBRALTAR U4

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	49	ALL	12.5	54	84	8,860	1.5	95.0	81.0	22.9	4,547.9	589.5
DF	LIVE	LEA	0	ALL	17.7	19	23	820	1.5	4.4	7.5	1.8	421.1	54.6
PP	LIVE	LEA	0	ALL	21.0	44	58			0.6	1.5	0.3		
WL	LIVE	CUT	5	ALL	11.2	62	101	1,672	0.0	16.8	11.5	3.4	663.9	111.3
ALL	LIVE	CUT	54	ALL	12.3	55	87	10,532	1.3	111.8	92.5	26.3	5,211.8	700.8
ALL	LIVE	LEA	0	ALL	18.1	22	27	820	1.6	5.0	9.0	2.1	421.1	54.6
ALL	ALL	ALL	54	ALL	12.6	54	84	11,352	1.3	116.8	101.5	28.4	5,632.9	755.4

Unit Stand Table: GIBRALTAR U4

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	2	8.5	25	52	206	0.0	8.3	3.3	1.1	109.4	13.7
DF	10	LIVE	CUT	7	10.0	43	81	1,029	4.5	21.1	11.6	3.7	557.5	68.5
DF	12	LIVE	CUT	15	11.9	56	87	2,765	1.1	31.9	24.8	7.2	1,411.2	184.0
DF	14	LIVE	CUT	14	13.9	65	91	2,729	1.7	21.9	23.1	6.2	1,391.9	181.6
DF	16	LIVE	CUT	8	15.6	65	86	1,532	0.0	10.0	13.2	3.4	785.3	101.9
DF	18	LIVE	CUT	1	17.7	76	96	220	0.0	1.0	1.7	0.4	104.5	14.6
DF	22	LIVE	CUT	2	22.0	67	80	379	2.0	1.3	3.3	0.7	188.0	25.2
DF	14	LIVE	LEA	1	14.0			55	1.5	0.5	0.5	0.1	28.1	3.6
DF	16	LIVE	LEA	1	15.0	61	77	55	1.5	0.4	0.5	0.1	28.1	3.6
DF	18	LIVE	LEA	8	17.5	17	21	437	1.5	2.4	4.0	1.0	224.6	29.1
DF	20	LIVE	LEA	3	19.6			164	1.5	0.7	1.5	0.3	84.2	10.9
DF	22	LIVE	LEA	2	21.5	38	44	109	1.5	0.4	1.0	0.2	56.2	7.3
PP	20	LIVE	LEA	1	20.0	61	82			0.2	0.5	0.1		
PP	22	LIVE	LEA	2	21.5	34	44			0.4	1.0	0.2		
WL	10	LIVE	CUT	2	9.5	60	108	723	0.0	9.3	4.6	1.5	277.3	48.1
WL	12	LIVE	CUT	1	11.8	63	94	312	0.0	3.0	2.3	0.7	131.0	20.8
WL	14	LIVE	CUT	2	13.6	66	90	637	0.0	4.5	4.6	1.2	255.6	42.4

Unit Log Grade Summary: GIBRALTAR U4

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	12.9	32.0	295	1.8	148.4	19.6
DF	LIVE	3 SAW	7.4	32.0	6,474	1.9	3,513.8	430.8
DF	LIVE	4 SAW	5.1	25.0	2,091	0.1	885.7	139.1
WL	LIVE	3 SAW	7.2	32.0	1,242	0.0	521.5	82.6
WL	LIVE	4 SAW	5.0	26.0	430	0.0	142.4	28.6

Unit Log Sort Summary: GIBRALTAR U4

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	6.4	29.0	8,860	1.5	4,547.9	589.5
WL	LIVE	Domestic	6.3	29.0	1,672	0.0	663.9	111.3

Unit Log Grade x Sort Summary: GIBRALTAR U4

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	12.9	32.0	295	1.8	148.4	19.6
DF	LIVE	3 SAW	Domestic	7.4	32.0	6,474	1.9	3,513.8	430.8
DF	LIVE	4 SAW	Domestic	5.1	25.0	2,091	0.1	885.7	139.1
WL	LIVE	3 SAW	Domestic	7.2	32.0	1,242	0.0	521.5	82.6
WL	LIVE	4 SAW	Domestic	5.0	26.0	430	0.0	142.4	28.6

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U4

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.1	25.0	2,091	0.1	885.7	139.1
DF	5 - 8	LIVE	3 SAW	6.8	32.0	4,299	2.4	2,376.7	286.1
DF	9 - 11	LIVE	3 SAW	9.4	32.0	2,175	1.0	1,137.1	144.7
DF	12 - 14	LIVE	2 SAW	12.9	32.0	295	1.8	148.4	19.6
WL	5 - 8	LIVE	4 SAW	5.0	26.0	430	0.0	142.4	28.6
WL	5 - 8	LIVE	3 SAW	6.7	32.0	789	0.0	333.4	52.5
WL	9 - 11	LIVE	3 SAW	8.8	32.0	453	0.0	188.0	30.1

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U4

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.0	28.0	6,390	1.7	3,262.4	425.2
DF	9 - 11	LIVE	Domestic	9.4	32.0	2,175	1.0	1,137.1	144.7
DF	12 - 14	LIVE	Domestic	12.9	32.0	295	1.8	148.4	19.6
WL	5 - 8	LIVE	Domestic	5.9	29.0	1,219	0.0	475.9	81.1
WL	9 - 11	LIVE	Domestic	8.8	32.0	453	0.0	188.0	30.1

Cruise Unit Report GIBRALTAR U6

Unit Sale Notice Volume (MBF): GIBRALTAR U6

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	12.3			158.7	14.1	92.2	52.3
WL	10.8			5.8		4.2	1.6
ALL	12.2			164.4	14.1	96.4	53.9

Unit Sale Notice Weight (tons): GIBRALTAR U6

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	1,223.5	96.1	761.7	365.8
WL	37.7		29.8	7.9
ALL	1,261.2	96.1	791.4	373.7

Unit Cruise Design: GIBRALTAR 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	21.8	21.8	18	6	0

Unit Cruise Summary: GIBRALTAR U6

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
DF	21	72	4.0	0
WL	1	2	0.1	0
ALL	22	74	4.1	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U6

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
DF	80.0	53.6	12.6	107.3	15.0	3.3	8,582	55.6	13.0
WL	2.2	291.0	68.6	119.5	0.0	0.0	265	291.0	68.6
ALL	82.2	52.0	12.3	107.6	14.8	3.2	8,847	54.1	12.7

Unit Summary: GIBRALTAR U6

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	21	ALL	12.3	51	110	7,271	0.7	82.1	67.8	19.3	1,223.5	158.6
DF	LIVE	LEA	0	ALL	15.0	5	6	1,311	0.7	10.0	12.2	3.2	220.6	28.6
WL	LIVE	CUT	1	ALL	10.8	55	81	265	0.0	3.5	2.2	0.7	37.7	5.8
ALL	LIVE	LEA	0	ALL	15.0	5	6	1,311	0.7	10.0	12.2	3.2	220.6	28.6
ALL	LIVE	CUT	22	ALL	12.2	51	109	7,536	0.6	85.6	70.0	20.0	1,261.2	164.4
ALL	ALL	ALL	22	ALL	12.6	46	98	8,847	0.6	95.6	82.2	23.2	1,481.8	193.0

Unit Stand Table: GIBRALTAR U6

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	2	7.8	41	182	691	0.0	19.5	6.5	2.3	108.9	15.1
DF	10	LIVE	CUT	2	9.1	49	116	778	1.8	14.1	6.5	2.1	123.1	17.0
DF	12	LIVE	CUT	4	11.9	53	83	1,306	0.0	16.7	12.9	3.7	227.5	28.5
DF	14	LIVE	CUT	5	13.7	52	74	1,569	0.0	15.8	16.1	4.4	277.5	34.2
DF	16	LIVE	CUT	5	16.0	60	78	1,652	2.0	11.5	16.1	4.0	295.2	36.0
DF	18	LIVE	CUT	1	17.4	70	89	379	0.0	2.0	3.2	0.8	63.2	8.3
DF	20	LIVE	CUT	2	20.9	75	90	897	0.0	2.7	6.5	1.4	128.1	19.6
DF	14	LIVE	LEA	4	13.5			477	0.7	4.5	4.4	1.2	80.2	10.4
DF	16	LIVE	LEA	5	15.8	13	16	596	0.7	4.1	5.5	1.4	100.3	13.0
DF	18	LIVE	LEA	2	17.2			238	0.7	1.4	2.2	0.5	40.1	5.2
WL	10	LIVE	CUT	1	10.8	55	81	265	0.0	3.5	2.2	0.7	37.7	5.8

Unit Log Grade Summary: GIBRALTAR U6

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	12.9	32.0	648	0.0	96.1	14.1
DF	LIVE	3 SAW	7.8	32.0	4,225	0.0	761.7	92.2
DF	LIVE	4 SAW	5.2	24.0	2,398	2.0	365.8	52.3
WL	LIVE	3 SAW	7.4	32.0	192	0.0	29.8	4.2
WL	LIVE	4 SAW	5.1	20.0	73	0.0	7.9	1.6

Unit Log Sort Summary: GIBRALTAR U6

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	6.3	27.0	7,271	0.7	1,223.5	158.7
WL	LIVE	Domestic	6.3	26.0	265	0.0	37.7	5.8

Unit Log Grade x Sort Summary: GIBRALTAR U6

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	12.9	32.0	648	0.0	96.1	14.1
DF	LIVE	3 SAW	Domestic	7.8	32.0	4,225	0.0	761.7	92.2
DF	LIVE	4 SAW	Domestic	5.2	24.0	2,398	2.0	365.8	52.3
WL	LIVE	3 SAW	Domestic	7.4	32.0	192	0.0	29.8	4.2
WL	LIVE	4 SAW	Domestic	5.1	20.0	73	0.0	7.9	1.6

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U6

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.2	24.0	2,398	2.0	365.8	52.3
DF	5 - 8	LIVE	3 SAW	7.3	32.0	2,648	0.0	475.4	57.8
DF	9 - 11	LIVE	3 SAW	9.5	32.0	1,577	0.0	286.2	34.4
DF	12 - 14	LIVE	2 SAW	12.9	32.0	648	0.0	96.1	14.1
WL	5 - 8	LIVE	4 SAW	5.1	20.0	73	0.0	7.9	1.6
WL	5 - 8	LIVE	3 SAW	7.4	32.0	192	0.0	29.8	4.2

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U6

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.8	27.0	5,046	0.9	841.2	110.1
DF	9 - 11	LIVE	Domestic	9.5	32.0	1,577	0.0	286.2	34.4
DF	12 - 14	LIVE	Domestic	12.9	32.0	648	0.0	96.1	14.1
WL	5 - 8	LIVE	Domestic	6.3	26.0	265	0.0	37.7	5.8

Cruise Unit Report GIBRALTAR U7

Unit Sale Notice Volume (MBF): GIBRALTAR U7

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	12.5			280.3	32.4	194.2	53.7
WL	19.8			11.9	7.6	3.7	0.6
ALL	12.8			292.2	40.0	197.9	54.2

Unit Sale Notice Weight (tons): GIBRALTAR U7

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	1,850.0	212.5	1,294.1	343.4
WL	63.7	39.9	19.6	4.2
ALL	1,913.7	252.4	1,313.7	347.6

Unit Cruise Design: GIBRALTAR U7

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (22.5) Measure/Count Plots, Sighting Ht = 4.5 ft	25.8	26.1	18	8	1

Unit Cruise Summary: GIBRALTAR U7

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		3	1.5	0
DF	28	76	4.2	0
WL	2	2	0.1	0
ALL	30	81	4.5	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR 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 (%)
PP	33.8	47.1	33.3						
DF	95.0	63.2	14.9	129.6	28.7	5.4	12,313	69.4	15.9
WL	2.5	291.0	68.6	183.9	9.8	6.9	460	291.2	68.9
ALL	101.3	54.0	12.7	131.0	29.5	5.4	13,264	61.5	13.8

Unit Summary: GIBRALTAR U7

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	28	ALL	12.7	54	76	10,855	1.9	95.2	83.8	23.5	1,850.0	280.3
DF	LIVE	LEA	0	ALL	20.0	27	31	1,458	1.9	5.2	11.3	2.5	248.5	37.6
PP	LIVE	LEA	0	ALL	23.6					1.2	3.8	0.8		
WL	LIVE	CUT	2	ALL	19.8	81	102	460	5.9	1.2	2.5	0.6	63.7	11.9
ALL	LIVE	CUT	30	ALL	12.8	54	76	11,315	2.1	96.4	86.3	24.1	1,913.7	292.2
ALL	LIVE	LEA	0	ALL	20.7	22	25	1,458	2.0	6.4	15.1	3.3	248.5	37.6
ALL	ALL	ALL	30	ALL	13.4	52	73	12,773	2.1	102.8	101.4	27.4	2,162.2	329.8

Unit Stand Table: GIBRALTAR U7

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	2	8.5	30	58	502	0.0	14.5	5.8	2.0	79.2	12.9
DF	10	LIVE	CUT	3	10.0	54	71	1,239	-2.2	16.0	8.7	2.7	194.1	32.0
DF	12	LIVE	CUT	7	11.8	50	75	2,218	6.1	26.6	20.2	5.9	405.2	57.3
DF	14	LIVE	CUT	8	13.6	63	84	3,124	-0.5	22.8	23.1	6.3	527.9	80.7
DF	16	LIVE	CUT	4	16.0	76	95	1,835	1.5	8.3	11.6	2.9	299.9	47.4
DF	18	LIVE	CUT	3	18.2	72	94	1,218	2.0	4.8	8.7	2.0	210.5	31.5
DF	20	LIVE	CUT	1	19.1	74	93	344	13.8	1.5	2.9	0.7	69.4	8.9
DF	22	LIVE	CUT	1	22.0			374	1.9	1.1	2.9	0.6	63.8	9.7
DF	18	LIVE	LEA	2	18.0			486	1.9	1.4	2.5	0.6	82.8	12.5
DF	20	LIVE	LEA	4	19.8	43	48	486	1.9	2.3	5.0	1.1	82.8	12.5
DF	22	LIVE	LEA	2	21.8	41	52	243	1.9	1.0	2.5	0.5	41.4	6.3
DF	24	LIVE	LEA	1	23.0			243	1.9	0.4	1.3	0.3	41.4	6.3
PP	22	LIVE	LEA	1	22.0					0.5	1.3	0.3		
PP	24	LIVE	LEA	1	24.0					0.4	1.3	0.3		
PP	26	LIVE	LEA	1	25.0					0.4	1.3	0.3		
WL	18	LIVE	CUT	1	17.7	84	106	246	0.0	0.7	1.3	0.3	32.9	6.3
WL	24	LIVE	CUT	1	23.0	76	96	214	11.9	0.4	1.3	0.3	30.8	5.5

Unit Log Grade Summary: GIBRALTAR U7

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	11.9	32.0	1,256	4.1	212.5	32.4
DF	LIVE	3 SAW	7.8	32.0	7,521	1.5	1,294.1	194.2
DF	LIVE	4 SAW	5.1	24.0	2,078	2.3	343.4	53.7
WL	LIVE	2 SAW	14.1	32.0	294	6.9	39.9	7.6
WL	LIVE	3 SAW	9.3	32.0	144	4.9	19.6	3.7
WL	LIVE	4 SAW	5.6	16.0	22	0.0	4.2	0.6

Unit Log Sort Summary: GIBRALTAR U7

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	6.8	28.0	10,855	1.9	1,850.0	280.3
WL	LIVE	Domestic	9.7	27.0	460	5.9	63.7	11.9

Unit Log Grade x Sort Summary: GIBRALTAR U7

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	11.9	32.0	1,256	4.1	212.5	32.4
DF	LIVE	3 SAW	Domestic	7.8	32.0	7,521	1.5	1,294.1	194.2
DF	LIVE	4 SAW	Domestic	5.1	24.0	2,078	2.3	343.4	53.7
WL	LIVE	2 SAW	Domestic	14.1	32.0	294	6.9	39.9	7.6
WL	LIVE	3 SAW	Domestic	9.3	32.0	144	4.9	19.6	3.7
WL	LIVE	4 SAW	Domestic	5.6	16.0	22	0.0	4.2	0.6

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U7

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.1	24.0	2,078	2.3	343.4	53.7
DF	5 - 8	LIVE	3 SAW	7.0	32.0	4,195	0.2	721.2	108.3
DF	9 - 11	LIVE	3 SAW	9.4	32.0	3,327	3.0	572.8	85.9
DF	12 - 14	LIVE	2 SAW	11.9	32.0	1,256	4.1	212.5	32.4
WL	5 - 8	LIVE	4 SAW	5.6	16.0	22	0.0	4.2	0.6
WL	9 - 11	LIVE	3 SAW	9.3	32.0	144	4.9	19.6	3.7
WL	12 - 14	LIVE	2 SAW	12.9	32.0	154	0.0	20.1	4.0
WL	15 - 19	LIVE	2 SAW	16.2	32.0	140	13.4	19.8	3.6

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U7

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.0	27.0	6,273	0.9	1,064.6	162.0
DF	9 - 11	LIVE	Domestic	9.4	32.0	3,327	3.0	572.8	85.9
DF	12 - 14	LIVE	Domestic	11.9	32.0	1,256	4.1	212.5	32.4
WL	5 - 8	LIVE	Domestic	5.6	16.0	22	0.0	4.2	0.6
WL	9 - 11	LIVE	Domestic	9.3	32.0	144	4.9	19.6	3.7
WL	12 - 14	LIVE	Domestic	12.9	32.0	154	0.0	20.1	4.0
WL	15 - 19	LIVE	Domestic	16.2	32.0	140	13.4	19.8	3.6

Cruise Unit Report GIBRALTAR U8

Unit Sale Notice Volume (MBF): GIBRALTAR U8

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	10.6			102.8	7.5	58.3	36.9
WL	11.4			3.8		2.5	1.3
ALL	10.6			106.6	7.5	60.8	38.3

Unit Sale Notice Weight (tons): GIBRALTAR U8

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	756.1	48.4	439.6	268.1
WL	23.9		16.9	7.0
ALL	780.0	48.4	456.5	275.1

Unit Cruise Design: GIBRALTAR U8

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	12.2	12.2	9	6	0

Unit Cruise Summary: GIBRALTAR U8

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		7	1.4	0
DF	32	44	4.9	0
WL	1	1	0.1	0
ALL	33	52	5.8	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U8

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	28.0	63.9	28.6						
DF	97.8	60.0	20.0	88.0	33.6	5.9	8,606	68.8	20.9
WL	2.2	300.0	100.0	141.1	0.0	0.0	314	300.0	100.0
ALL	115.6	45.6	15.2	89.2	34.3	6.0	10,307	57.0	16.3

Unit Summary: GIBRALTAR U8

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	32	ALL	10.6	39	64	8,410	5.3	155.9	95.6	29.3	756.1	102.8
DF	LIVE	LEA	0	ALL	15.0			196	5.3	1.8	2.2	0.6	17.6	2.4
PP	LIVE	LEA	0	ALL	14.4					13.8	15.6	4.1		
WL	LIVE	CUT	1	ALL	11.4	63	94	314	2.9	3.1	2.2	0.7	23.9	3.8
ALL	LIVE	CUT	33	ALL	10.6	39	65	8,724	5.3	159.0	97.8	30.0	780.0	106.6
ALL	LIVE	LEA	0	ALL	14.5			196	5.3	15.6	17.8	4.7	17.6	2.4
ALL	ALL	ALL	33	ALL	11.0	36	59	8,920	5.3	174.6	115.6	34.7	797.6	109.0

Unit Stand Table: GIBRALTAR U8

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	6	7.8	28	62	1,183	3.2	53.9	17.9	6.4	99.8	14.5
DF	10	LIVE	CUT	7	10.1	38	61	1,748	4.4	37.8	20.9	6.6	165.9	21.4
DF	12	LIVE	CUT	12	11.6	45	65	3,053	8.9	48.5	35.9	10.5	283.7	37.3
DF	14	LIVE	CUT	4	13.8	52	68	1,259	2.6	11.5	12.0	3.2	108.9	15.4
DF	18	LIVE	CUT	3	18.3	65	83	1,168	1.8	4.9	9.0	2.1	97.8	14.3
DF	16	LIVE	LEA	1	15.0			196	5.3	1.8	2.2	0.6	17.6	2.4
PP	8	LIVE	LEA	1	8.0					6.4	2.2	0.8		
PP	10	LIVE	LEA	1	9.0					5.0	2.2	0.7		
PP	28	LIVE	LEA	2	27.5					1.1	4.5	0.9		
PP	30	LIVE	LEA	1	30.0					0.9	4.5	0.8		
PP	32	LIVE	LEA	1	32.0					0.4	2.2	0.4		
WL	12	LIVE	CUT	1	11.4	63	94	314	2.9	3.1	2.2	0.7	23.9	3.8

Unit Log Grade Summary: GIBRALTAR U8

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	11.9	32.0	615	1.5	48.4	7.5
DF	LIVE	3 SAW	7.3	30.0	4,771	5.0	439.6	58.3
DF	LIVE	4 SAW	5.2	20.0	3,023	4.2	268.1	36.9
DF	LIVE	CULL	7.9	13.0	0	100.0	0.0	0.0
WL	LIVE	3 SAW	7.7	32.0	204	4.4	16.9	2.5
WL	LIVE	4 SAW	5.1	28.0	110	0.0	7.0	1.3

Unit Log Sort Summary: GIBRALTAR U8

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	7.9	13.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	6.0	24.0	8,410	4.4	756.1	102.8
WL	LIVE	Domestic	6.4	30.0	314	2.9	23.9	3.8

Unit Log Grade x Sort Summary: GIBRALTAR U8

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	11.9	32.0	615	1.5	48.4	7.5
DF	LIVE	3 SAW	Domestic	7.3	30.0	4,771	5.0	439.6	58.3
DF	LIVE	4 SAW	Domestic	5.2	20.0	3,023	4.2	268.1	36.9
DF	LIVE	CULL	Cull	7.9	13.0	0	100.0	0.0	0.0
WL	LIVE	3 SAW	Domestic	7.7	32.0	204	4.4	16.9	2.5
WL	LIVE	4 SAW	Domestic	5.1	28.0	110	0.0	7.0	1.3

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U8

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.2	20.0	3,023	4.2	268.1	36.9
DF	5 - 8	LIVE	3 SAW	6.9	31.0	3,758	5.2	353.1	45.9
DF	5 - 8	LIVE	CULL	7.9	13.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	3 SAW	9.5	28.0	1,013	4.0	86.5	12.4
DF	12 - 14	LIVE	2 SAW	11.9	32.0	615	1.5	48.4	7.5
WL	5 - 8	LIVE	4 SAW	5.1	28.0	110	0.0	7.0	1.3
WL	5 - 8	LIVE	3 SAW	7.7	32.0	204	4.4	16.9	2.5

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U8

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.8	24.0	6,781	4.8	621.2	82.9
DF	5 - 8	LIVE	Cull	7.9	13.0	0	100.0	0.0	0.0
DF	9 - 11	LIVE	Domestic	9.5	28.0	1,013	4.0	86.5	12.4
DF	12 - 14	LIVE	Domestic	11.9	32.0	615	1.5	48.4	7.5
WL	5 - 8	LIVE	Domestic	6.4	30.0	314	2.9	23.9	3.8

Cruise Unit Report GIBRALTAR U9

Unit Sale Notice Volume (MBF): GIBRALTAR U9

Sp	QMD	Rings/In	Age	MBF Volume by Grade		
				All	3 Saw	4 Saw
DF	10.8			58.8	43.2	15.6
WL	13.8			48.2	47.2	1.0
ALL	11.6			107.1	90.4	16.6

Unit Sale Notice Weight (tons): GIBRALTAR U9

Sp	Tons by Grade		
	All	3 Saw	4 Saw
DF	415.9	304.0	111.9
WL	273.0	268.9	4.1
ALL	688.9	572.9	116.0

Unit Cruise Design: GIBRALTAR U9

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	15.2	15.7	12	6	1

Unit Cruise Summary: GIBRALTAR U9

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		16	2.0	0
DF	6	25	2.1	0
WL	3	12	1.0	0
ALL	9	53	4.4	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U9

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	40.0	46.3	16.4						
DF	41.7	92.6	26.7	93.0	35.3	14.4	3,876	99.1	30.4
WL	20.0	127.9	36.9	158.8	7.5	4.4	3,177	128.1	37.2
ALL	88.3	62.9	18.2	114.4	37.0	12.3	10,102	73.0	22.0

Unit Summary: GIBRALTAR U9

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	6	ALL	10.8	37	59	3,876	0.0	65.5	41.7	12.7	415.9	58.8
PP	LIVE	LEA	0	ALL	16.9	6	10			17.1	26.7	6.5		
WL	LIVE	CUT	3	ALL	13.8	73	100	3,177	0.0	19.3	20.0	5.4	273.0	48.2
ALL	LIVE	LEA	0	ALL	16.9	6	10			17.1	26.7	6.5		
ALL	LIVE	CUT	9	ALL	11.6	45	68	7,053	0.0	84.8	61.7	18.1	688.9	107.0
ALL	ALL	ALL	9	ALL	12.6	39	59	7,053	0.0	101.9	88.4	24.6	688.9	107.0

Unit Stand Table: GIBRALTAR U9

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	1	8.5	26	40	476	0.0	17.6	7.0	2.4	45.7	7.2
DF	10	LIVE	CUT	2	9.2	33	62	1,000	0.0	30.1	13.9	4.6	110.0	15.2
DF	12	LIVE	CUT	1	12.3	50	70	715	0.0	8.4	7.0	2.0	83.7	10.9
DF	16	LIVE	CUT	2	16.8	61	77	1,685	0.0	9.0	13.9	3.4	176.4	25.6
PP	8	LIVE	LEA	1	8.0					4.8	1.7	0.6		
PP	10	LIVE	LEA	1	10.0	24	49			3.1	1.7	0.5		
PP	12	LIVE	LEA	1	11.0					2.5	1.7	0.5		
PP	18	LIVE	LEA	3	17.5					3.0	5.0	1.2		
PP	24	LIVE	LEA	2	23.5					1.1	3.3	0.7		
PP	28	LIVE	LEA	2	28.2					0.8	3.3	0.6		
PP	30	LIVE	LEA	3	29.7					1.0	5.0	0.9		
PP	32	LIVE	LEA	2	31.5					0.6	3.3	0.6		
PP	34	LIVE	LEA	1	33.0	91	107			0.3	1.7	0.3		
WL	12	LIVE	CUT	1	12.5	71	101	1,103	0.0	7.8	6.7	1.9	89.5	16.7
WL	14	LIVE	CUT	1	14.0	71	95	967	0.0	6.2	6.7	1.8	88.6	14.7
WL	16	LIVE	CUT	1	15.3	79	103	1,107	0.0	5.2	6.7	1.7	94.8	16.8

Unit Log Grade Summary: GIBRALTAR U9

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	3 SAW	7.3	32.0	2,848	0.0	304.0	43.2
DF	LIVE	4 SAW	5.2	21.0	1,028	0.0	111.9	15.6
WL	LIVE	3 SAW	7.6	32.0	3,109	0.0	268.9	47.2
WL	LIVE	4 SAW	5.0	12.0	68	0.0	4.1	1.0

Unit Log Sort Summary: GIBRALTAR U9

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	6.1	26.0	3,876	0.0	415.9	58.8
WL	LIVE	Domestic	7.3	30.0	3,177	0.0	273.0	48.2

Unit Log Grade x Sort Summary: GIBRALTAR U9

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	3 SAW	Domestic	7.3	32.0	2,848	0.0	304.0	43.2
DF	LIVE	4 SAW	Domestic	5.2	21.0	1,028	0.0	111.9	15.6
WL	LIVE	3 SAW	Domestic	7.6	32.0	3,109	0.0	268.9	47.2
WL	LIVE	4 SAW	Domestic	5.0	12.0	68	0.0	4.1	1.0

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U9

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.2	21.0	1,028	0.0	111.9	15.6
DF	5 - 8	LIVE	3 SAW	6.3	32.0	1,513	0.0	164.3	23.0
DF	9 - 11	LIVE	3 SAW	10.2	32.0	1,336	0.0	139.7	20.3
WL	5 - 8	LIVE	4 SAW	5.0	12.0	68	0.0	4.1	1.0
WL	5 - 8	LIVE	3 SAW	6.7	32.0	1,749	0.0	143.4	26.6
WL	9 - 11	LIVE	3 SAW	9.8	32.0	1,360	0.0	125.5	20.6

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U9

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.6	25.0	2,540	0.0	276.2	38.6
DF	9 - 11	LIVE	Domestic	10.2	32.0	1,336	0.0	139.7	20.3
WL	5 - 8	LIVE	Domestic	6.5	29.0	1,817	0.0	147.5	27.6
WL	9 - 11	LIVE	Domestic	9.8	32.0	1,360	0.0	125.5	20.6

Cruise Unit Report GIBRALTAR U10

Unit Sale Notice Volume (MBF): GIBRALTAR U10

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	15.1			90.8	15.2	67.1	8.4
WL	14.5			69.2	20.5	39.8	8.8
ALL	14.9			160.0	35.8	106.9	17.2

Unit Sale Notice Weight (tons): GIBRALTAR U10

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	683.4	95.7	520.4	67.4
WL	379.4	98.1	222.6	58.7
ALL	1,062.8	193.8	742.9	126.1

Unit Cruise Design: GIBRALTAR U10

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (22.5) Measure/Count Plots, Sighting Ht = 4.5 ft	30.0	31.0	19	10	1

Unit Cruise Summary: GIBRALTAR U10

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		26	2.2	0
LP		1	1.0	0
DF	12	27	1.4	0
WL	4	14	0.7	0
ALL	16	68	3.6	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U10

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	48.8	73.2	21.1						
LP	22.5	0.0	0.0						
DF	32.0	103.1	23.7	94.7	27.9	8.1	3,027	106.8	25.0

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 (%)
WL	16.6	180.1	41.3	139.0	21.7	10.8	2,305	181.4	42.7
ALL	80.5	55.3	12.7	109.8	30.0	7.5	8,844	63.0	14.8

Unit Summary: GIBRALTAR U10

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	12	ALL	15.1	50	65	3,027	4.6	25.7	32.0	8.2	683.4	90.8
LP	LIVE	LEA	0	ALL	12.0					1.5	1.2	0.3		
PP	LIVE	LEA	0	ALL	14.4	1	1			27.2	30.8	8.1		
WL	LIVE	CUT	4	ALL	14.5	58	77	2,305	0.0	14.5	16.6	4.4	379.4	69.1
ALL	LIVE	LEA	0	ALL	14.3	1	1			28.7	32.0	8.4		
ALL	LIVE	CUT	16	ALL	14.9	53	69	5,332	2.7	40.2	48.6	12.6	1,062.8	159.9
ALL	ALL	ALL	16	ALL	14.6	31	41	5,332	2.7	68.9	80.6	21.0	1,062.8	159.9

Unit Stand Table: GIBRALTAR U10

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	10	LIVE	CUT	1	10.0	42	62	225	0.0	4.5	2.5	0.8	46.1	6.8
DF	12	LIVE	CUT	1	12.7	51	70	288	0.0	2.8	2.5	0.7	57.2	8.6
DF	14	LIVE	CUT	2	13.6	42	55	282	9.3	4.9	4.9	1.3	88.2	8.5
DF	16	LIVE	CUT	4	15.9	53	67	1,228	0.0	8.9	12.3	3.1	278.4	36.8
DF	18	LIVE	CUT	2	18.5	57	70	542	6.0	2.6	4.9	1.1	118.1	16.2
DF	20	LIVE	CUT	1	20.0	56	69	145	33.2	1.1	2.5	0.6	34.6	4.4
DF	22	LIVE	CUT	1	21.0	60	75	318	0.0	1.0	2.5	0.5	60.9	9.5
LP	12	LIVE	LEA	1	12.0					1.5	1.2	0.3		
PP	8	LIVE	LEA	1	7.0					4.4	1.2	0.4		
PP	10	LIVE	LEA	3	9.3					7.5	3.6	1.2		
PP	14	LIVE	LEA	3	13.4					6.1	5.9	1.6		
PP	16	LIVE	LEA	4	15.2					3.7	4.7	1.2		
PP	18	LIVE	LEA	1	18.0					0.7	1.2	0.3		
PP	20	LIVE	LEA	1	20.0					0.5	1.2	0.3		
PP	22	LIVE	LEA	3	21.7					1.8	4.7	1.0		
PP	24	LIVE	LEA	4	23.5					1.6	4.7	1.0		
PP	26	LIVE	LEA	1	25.0	75	93			0.3	1.2	0.2		
PP	28	LIVE	LEA	2	27.0					0.6	2.4	0.5		
WL	12	LIVE	CUT	2	11.6	53	74	715	0.0	7.6	5.5	1.6	118.2	21.5
WL	16	LIVE	CUT	1	15.6	57	71	605	0.0	4.2	5.5	1.4	115.0	18.2
WL	20	LIVE	CUT	1	19.3	73	92	984	0.0	2.7	5.5	1.3	146.2	29.5

Unit Log Grade Summary: GIBRALTAR U10

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	12.5	32.0	508	0.0	95.7	15.2
DF	LIVE	3 SAW	7.9	32.0	2,237	3.0	520.4	67.1
DF	LIVE	4 SAW	5.2	18.0	281	0.0	67.4	8.4
DF	LIVE	CULL	16.4	6.0	0	100.0	0.0	0.0
WL	LIVE	2 SAW	13.5	32.0	685	0.0	98.1	20.5
WL	LIVE	3 SAW	8.8	30.0	1,327	0.0	222.6	39.8
WL	LIVE	4 SAW	5.5	18.0	293	0.0	58.7	8.8

Unit Log Sort Summary: GIBRALTAR U10

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	16.4	6.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	7.3	27.0	3,027	2.2	683.4	90.8
WL	LIVE	Domestic	7.7	25.0	2,305	0.0	379.4	69.2

Unit Log Grade x Sort Summary: GIBRALTAR U10

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	12.5	32.0	508	0.0	95.7	15.2
DF	LIVE	3 SAW	Domestic	7.9	32.0	2,237	3.0	520.4	67.1
DF	LIVE	4 SAW	Domestic	5.2	18.0	281	0.0	67.4	8.4
DF	LIVE	CULL	Cull	16.4	6.0	0	100.0	0.0	0.0
WL	LIVE	2 SAW	Domestic	13.5	32.0	685	0.0	98.1	20.5
WL	LIVE	3 SAW	Domestic	8.8	30.0	1,327	0.0	222.6	39.8
WL	LIVE	4 SAW	Domestic	5.5	18.0	293	0.0	58.7	8.8

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U10

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.2	18.0	281	0.0	67.4	8.4
DF	5 - 8	LIVE	3 SAW	6.7	31.0	856	3.7	210.2	25.7
DF	9 - 11	LIVE	3 SAW	9.5	32.0	1,381	2.5	310.1	41.4
DF	12 - 14	LIVE	2 SAW	12.5	32.0	508	0.0	95.7	15.2
DF	15 - 19	LIVE	CULL	16.4	6.0	0	100.0	0.0	0.0
WL	5 - 8	LIVE	4 SAW	5.5	18.0	293	0.0	58.7	8.8
WL	5 - 8	LIVE	3 SAW	7.8	32.0	567	0.0	92.3	17.0
WL	9 - 11	LIVE	3 SAW	9.9	29.0	760	0.0	130.2	22.8
WL	12 - 14	LIVE	2 SAW	13.5	32.0	685	0.0	98.1	20.5

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U10

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.0	25.0	1,137	2.8	277.6	34.1
DF	9 - 11	LIVE	Domestic	9.5	32.0	1,381	2.5	310.1	41.4
DF	12 - 14	LIVE	Domestic	12.5	32.0	508	0.0	95.7	15.2
DF	15 - 19	LIVE	Cull	16.4	6.0	0	100.0	0.0	0.0
WL	5 - 8	LIVE	Domestic	6.3	23.0	860	0.0	151.0	25.8
WL	9 - 11	LIVE	Domestic	9.9	29.0	760	0.0	130.2	22.8
WL	12 - 14	LIVE	Domestic	13.5	32.0	685	0.0	98.1	20.5

Cruise Unit Report GIBRALTAR U11

Unit Sale Notice Volume (MBF): GIBRALTAR U11

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
WL	12.6			116.9	8.3	88.3	20.3
DF	11.4			65.3	20.2	34.8	10.4
ALL	12.5			182.2	28.5	123.1	30.6

Unit Sale Notice Weight (tons): GIBRALTAR U11

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
WL	711.4	47.8	544.0	119.6
DF	405.4	125.9	217.3	62.2
ALL	1,116.8	173.7	761.4	181.8

Unit Cruise Design: GIBRALTAR U11

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	19.9	20.9	15	8	0

Unit Cruise Summary: GIBRALTAR U11

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		19	2.4	0
WL	23	34	2.3	0
DF	3	21	1.4	0
ALL	26	74	4.9	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U11

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	47.5	44.7	15.8						
WL	45.3	75.4	19.5	129.6	15.6	3.3	5,875	77.0	19.7
DF	28.0	110.7	28.6	117.3	45.5	26.2	3,284	119.6	38.8
ALL	98.7	40.9	10.6	124.9	19.7	3.9	12,323	45.4	11.2

Unit Summary: GIBRALTAR U11

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	3	ALL	11.4	34	50	3,284	0.0	39.5	28.0	8.3	405.4	65.3
PP	LIVE	CUT	0	ALL	18.1	34	55			1.5	2.7	0.6		
PP	LIVE	LEA	0	ALL	15.4	11	20			17.5	22.7	5.8		
WL	LIVE	CUT	23	ALL	12.6	56	80	5,875	0.8	52.4	45.3	12.8	711.4	116.9
ALL	LIVE	CUT	26	ALL	12.2	46	67	9,159	0.5	93.4	76.0	21.7	1,116.8	182.2
ALL	LIVE	LEA	0	ALL	15.4	11	20			17.5	22.7	5.8		
ALL	ALL	ALL	26	ALL	12.8	41	60	9,159	0.5	110.9	98.7	27.5	1,116.8	182.2

Unit Stand Table: GIBRALTAR U11

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	1	7.9	19	33	521	0.0	27.4	9.3	3.3	62.2	10.4
DF	14	LIVE	CUT	1	14.5	69	91	1,408	0.0	8.1	9.3	2.5	175.4	28.0
DF	22	LIVE	CUT	1	21.5	73	86	1,355	0.0	3.7	9.3	2.0	167.9	26.9
PP	14	LIVE	CUT	1	14.0	41	65			1.3	1.4	0.4		
PP	32	LIVE	CUT	1	32.0					0.2	1.4	0.2		
PP	10	LIVE	LEA	1	9.0	19	45			3.0	1.3	0.4		
PP	12	LIVE	LEA	1	12.0					1.7	1.3	0.4		
PP	14	LIVE	LEA	3	13.8	14	23			3.9	4.0	1.1		
PP	16	LIVE	LEA	4	15.6	12	18			4.0	5.3	1.4		
PP	18	LIVE	LEA	3	17.3					2.4	4.0	1.0		
PP	20	LIVE	LEA	2	20.0	31	41			1.2	2.7	0.6		
PP	22	LIVE	LEA	1	21.0					0.6	1.3	0.3		
PP	24	LIVE	LEA	1	24.0					0.4	1.3	0.3		
PP	28	LIVE	LEA	1	28.0					0.3	1.3	0.3		
WL	8	LIVE	CUT	1	8.9	34	63	196	0.0	4.6	2.0	0.7	23.6	3.9
WL	10	LIVE	CUT	3	9.7	41	68	604	0.0	11.5	5.9	1.9	72.0	12.0
WL	12	LIVE	CUT	5	11.7	56	82	1,164	0.0	13.2	9.8	2.9	150.0	23.1
WL	14	LIVE	CUT	8	14.0	66	88	2,186	2.2	14.8	15.8	4.2	264.4	43.5
WL	16	LIVE	CUT	4	15.8	71	89	1,167	0.0	5.8	7.9	2.0	134.5	23.2
WL	18	LIVE	CUT	2	17.6	73	90	558	0.0	2.3	3.9	0.9	66.9	11.1

Unit Log Grade Summary: GIBRALTAR U11

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	13.5	32.0	1,014	0.0	125.9	20.2
DF	LIVE	3 SAW	7.4	32.0	1,749	0.0	217.3	34.8
DF	LIVE	4 SAW	5.0	18.0	521	0.0	62.2	10.4

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
WL	LIVE	2 SAW	11.6	32.0	417	0.0	47.8	8.3
WL	LIVE	3 SAW	7.7	32.0	4,440	1.1	544.0	88.3
WL	LIVE	4 SAW	5.1	25.0	1,018	0.0	119.6	20.3

Unit Log Sort Summary: GIBRALTAR U11

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	6.6	24.0	3,284	0.0	405.4	65.3
WL	LIVE	Domestic	6.9	29.0	5,875	0.8	711.4	116.9

Unit Log Grade x Sort Summary: GIBRALTAR U11

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.5	32.0	1,014	0.0	125.9	20.2
DF	LIVE	3 SAW	Domestic	7.4	32.0	1,749	0.0	217.3	34.8
DF	LIVE	4 SAW	Domestic	5.0	18.0	521	0.0	62.2	10.4
WL	LIVE	2 SAW	Domestic	11.6	32.0	417	0.0	47.8	8.3
WL	LIVE	3 SAW	Domestic	7.7	32.0	4,440	1.1	544.0	88.3
WL	LIVE	4 SAW	Domestic	5.1	25.0	1,018	0.0	119.6	20.3

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U11

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.0	18.0	521	0.0	62.2	10.4
DF	5 - 8	LIVE	3 SAW	6.0	32.0	748	0.0	92.7	14.9
DF	9 - 11	LIVE	3 SAW	9.6	32.0	1,001	0.0	124.6	19.9
DF	12 - 14	LIVE	2 SAW	13.5	32.0	1,014	0.0	125.9	20.2
WL	5 - 8	LIVE	4 SAW	5.1	25.0	1,018	0.0	119.6	20.3
WL	5 - 8	LIVE	3 SAW	6.6	32.0	2,064	0.0	256.0	41.0
WL	9 - 11	LIVE	3 SAW	9.7	32.0	2,376	2.0	288.0	47.3
WL	12 - 14	LIVE	2 SAW	11.6	32.0	417	0.0	47.8	8.3

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U11

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.3	22.0	1,269	0.0	154.9	25.2
DF	9 - 11	LIVE	Domestic	9.6	32.0	1,001	0.0	124.6	19.9
DF	12 - 14	LIVE	Domestic	13.5	32.0	1,014	0.0	125.9	20.2
WL	5 - 8	LIVE	Domestic	5.9	28.0	3,082	0.0	375.6	61.3

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
WL	9 - 11	LIVE	Domestic	9.7	32.0	2,376	2.0	288.0	47.3
WL	12 - 14	LIVE	Domestic	11.6	32.0	417	0.0	47.8	8.3

Cruise Unit Report GIBRALTAR U12

Unit Sale Notice Volume (MBF): GIBRALTAR U12

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	16.9			23.2	6.2	10.5	6.5
WL	22.0			4.8	3.1	1.4	0.3
ALL	17.4			28.0	9.3	11.9	6.8

Unit Sale Notice Weight (tons): GIBRALTAR U12

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	162.9	40.8	68.1	54.0
WL	23.4	14.9	6.1	2.4
ALL	186.3	55.7	74.2	56.4

Unit Cruise Design: GIBRALTAR U12

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	12.3	10	5	0

Unit Cruise Summary: GIBRALTAR U12

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		28	3.1	0
DF	7	10	1.0	0
WL	1	1	0.1	0
ALL	8	39	3.9	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U12

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	62.2	29.8	9.9						
DF	20.0	124.7	39.4	107.4	30.7	11.6	2,149	128.4	41.1
WL	2.0	316.2	100.0	200.8	0.0	0.0	402	316.2	100.0
ALL	78.0	33.0	10.4	115.9	38.8	13.7	9,043	50.9	17.2

Unit Summary: GIBRALTAR U12

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	7	ALL	16.9	52	65	1,934	2.6	11.6	18.0	4.4	162.9	23.2
DF	LIVE	LEA	0	ALL	11.0			215	2.6	3.0	2.0	0.6	18.1	2.6
PP	LIVE	CUT	0	ALL	20.0					0.9	2.0	0.4		
PP	LIVE	LEA	0	ALL	16.1					38.2	54.0	13.5		
WL	LIVE	CUT	1	ALL	22.0	81	103	402	0.0	0.8	2.0	0.4	23.4	4.8
ALL	LIVE	LEA	0	ALL	15.8			215	2.7	41.2	56.0	14.1	18.1	2.6
ALL	LIVE	CUT	8	ALL	17.5	50	63	2,336	2.1	13.3	22.0	5.2	186.3	28.0
ALL	ALL	ALL	8	ALL	16.2	12	15	2,551	2.2	54.5	78.0	19.3	204.4	30.6

Unit Stand Table: GIBRALTAR U12

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	14	LIVE	CUT	1	14.0	44	56	202	0.0	2.4	2.6	0.7	20.6	2.4
DF	16	LIVE	CUT	3	15.3	50	63	745	2.0	6.0	7.7	2.0	64.3	8.9
DF	18	LIVE	CUT	1	17.0	58	71	308	2.6	1.6	2.6	0.6	24.5	3.7
DF	22	LIVE	CUT	1	22.0	64	80	333	2.8	1.0	2.6	0.5	26.7	4.0
DF	32	LIVE	CUT	1	31.0	65	81	346	5.0	0.5	2.6	0.5	26.9	4.1
DF	12	LIVE	LEA	1	11.0			215	2.6	3.0	2.0	0.6	18.1	2.6
PP	20	LIVE	CUT	1	20.0					0.9	2.0	0.4		
PP	8	LIVE	LEA	1	8.0					5.7	2.0	0.7		
PP	12	LIVE	LEA	2	11.0					6.1	4.0	1.2		
PP	14	LIVE	LEA	2	13.5					4.0	4.0	1.1		
PP	16	LIVE	LEA	4	15.7					5.9	8.0	2.0		
PP	18	LIVE	LEA	7	17.1					8.7	14.0	3.4		
PP	20	LIVE	LEA	3	19.6					2.8	6.0	1.4		
PP	22	LIVE	LEA	3	22.0					2.3	6.0	1.3		
PP	24	LIVE	LEA	1	24.0					0.6	2.0	0.4		
PP	26	LIVE	LEA	2	26.0					1.1	4.0	0.8		
PP	28	LIVE	LEA	1	27.0					0.5	2.0	0.4		
PP	30	LIVE	LEA	1	30.0					0.4	2.0	0.4		
WL	22	LIVE	CUT	1	22.0	81	103	402	0.0	0.8	2.0	0.4	23.4	4.8

Unit Log Grade Summary: GIBRALTAR U12

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	15.7	32.0	518	3.0	40.8	6.2
DF	LIVE	3 SAW	9.6	29.0	875	2.2	68.1	10.5
DF	LIVE	4 SAW	6.2	24.0	541	0.8	54.0	6.5

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	CULL	5.5	5.0	0	100.0	0.0	0.0
WL	LIVE	2 SAW	15.5	32.0	261	0.0	14.9	3.1
WL	LIVE	3 SAW	11.5	26.0	117	0.0	6.1	1.4
WL	LIVE	4 SAW	7.0	20.0	24	0.0	2.4	0.3

Unit Log Sort Summary: GIBRALTAR U12

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	5.5	5.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	8.0	26.0	1,934	2.0	162.9	23.2
WL	LIVE	Domestic	11.3	26.0	402	0.0	23.4	4.8

Unit Log Grade x Sort Summary: GIBRALTAR U12

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	15.7	32.0	518	3.0	40.8	6.2
DF	LIVE	3 SAW	Domestic	9.6	29.0	875	2.2	68.1	10.5
DF	LIVE	4 SAW	Domestic	6.2	24.0	541	0.8	54.0	6.5
DF	LIVE	CULL	Cull	5.5	5.0	0	100.0	0.0	0.0
WL	LIVE	2 SAW	Domestic	15.5	32.0	261	0.0	14.9	3.1
WL	LIVE	3 SAW	Domestic	11.5	26.0	117	0.0	6.1	1.4
WL	LIVE	4 SAW	Domestic	7.0	20.0	24	0.0	2.4	0.3

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U12

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	CULL	5.5	5.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	5.6	24.0	380	1.1	37.6	4.6
DF	5 - 8	LIVE	3 SAW	6.6	30.0	74	2.6	6.3	0.9
DF	9 - 11	LIVE	4 SAW	8.9	26.0	161	0.0	16.4	1.9
DF	9 - 11	LIVE	3 SAW	10.1	29.0	801	2.2	61.7	9.6
DF	12 - 14	LIVE	2 SAW	13.9	32.0	259	2.9	20.3	3.1
DF	15 - 19	LIVE	2 SAW	19.4	32.0	259	3.1	20.5	3.1
WL	5 - 8	LIVE	4 SAW	7.0	20.0	24	0.0	2.4	0.3
WL	9 - 11	LIVE	3 SAW	11.5	26.0	117	0.0	6.1	1.4
WL	15 - 19	LIVE	2 SAW	15.5	32.0	261	0.0	14.9	3.1

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U12

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Cull	5.5	5.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	5.6	24.0	454	1.3	43.9	5.4
DF	9 - 11	LIVE	Domestic	9.8	28.0	962	1.8	78.2	11.5
DF	12 - 14	LIVE	Domestic	13.9	32.0	259	2.9	20.3	3.1
DF	15 - 19	LIVE	Domestic	19.4	32.0	259	3.1	20.5	3.1
WL	5 - 8	LIVE	Domestic	7.0	20.0	24	0.0	2.4	0.3
WL	9 - 11	LIVE	Domestic	11.5	26.0	117	0.0	6.1	1.4
WL	15 - 19	LIVE	Domestic	15.5	32.0	261	0.0	14.9	3.1

Cruise Unit Report GIBRALTAR U13

Unit Sale Notice Volume (MBF): GIBRALTAR U13

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	9.8			74.9	5.8	24.9	44.2
WL	16.4			14.1	4.4	7.2	2.4
ALL	10.4			88.9	10.2	32.1	46.7

Unit Sale Notice Weight (tons): GIBRALTAR U13

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	517.2	30.5	179.7	307.0
WL	82.9	28.1	39.9	14.9
ALL	600.1	58.6	219.7	321.8

Unit Cruise Design: GIBRALTAR U13

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	18.3	18.6	16	8	0

Unit Cruise Summary: GIBRALTAR U13

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		6	1.5	0
DF	21	46	2.9	0
WL	4	4	0.3	0
ALL	25	56	3.5	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U13

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	30.0	66.7	33.3						
DF	57.5	72.8	18.2	77.9	44.6	9.7	4,479	85.4	20.6
WL	5.0	309.8	77.5	153.7	23.7	11.8	768	310.7	78.4
ALL	70.0	64.3	16.1	84.0	53.0	10.6	5,877	83.3	19.3

Unit Summary: GIBRALTAR U13

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	21	ALL	9.8	29	55	4,089	5.3	100.2	52.5	16.8	517.2	74.9
DF	LIVE	LEA	0	ALL	19.4			389	5.3	2.4	5.0	1.1	49.3	7.1
PP	LIVE	LEA	0	ALL	18.1					4.2	7.5	1.8		
WL	LIVE	CUT	4	ALL	16.4	74	93	768	8.8	3.4	5.0	1.2	82.9	14.1
ALL	LIVE	LEA	0	ALL	18.6			389	5.4	6.6	12.5	2.9	49.3	7.1
ALL	LIVE	CUT	25	ALL	10.1	30	56	4,857	5.9	103.6	57.5	18.0	600.1	89.0
ALL	ALL	ALL	25	ALL	10.8	29	53	5,246	5.8	110.2	70.0	20.9	649.4	96.1

Unit Stand Table: GIBRALTAR U13

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	6	7.8	23	61	1,020	3.4	45.2	15.0	5.4	107.8	18.7
DF	10	LIVE	CUT	6	9.3	26	42	911	3.8	31.8	15.0	4.9	119.7	16.7
DF	12	LIVE	CUT	2	11.0	40	54	424	0.0	7.6	5.0	1.5	53.4	7.8
DF	14	LIVE	CUT	3	13.0	48	64	689	11.8	8.1	7.5	2.1	97.7	12.6
DF	16	LIVE	CUT	2	15.5	44	55	325	14.8	3.8	5.0	1.3	59.8	5.9
DF	18	LIVE	CUT	1	17.0	58	71	300	2.6	1.6	2.5	0.6	36.4	5.5
DF	20	LIVE	CUT	1	20.0	69	87	419	0.0	1.1	2.5	0.6	42.5	7.7
DF	14	LIVE	LEA	1	14.0			97	5.3	1.2	1.3	0.3	12.3	1.8
DF	20	LIVE	LEA	1	20.0			97	5.3	0.6	1.3	0.3	12.3	1.8
DF	24	LIVE	LEA	1	23.0			97	5.3	0.4	1.3	0.3	12.3	1.8
DF	30	LIVE	LEA	1	29.0			97	5.3	0.3	1.3	0.2	12.3	1.8
PP	16	LIVE	LEA	2	15.0					2.0	2.5	0.6		
PP	18	LIVE	LEA	1	18.0					0.7	1.3	0.3		
PP	22	LIVE	LEA	2	21.0					1.0	2.5	0.5		
PP	24	LIVE	LEA	1	24.0					0.4	1.3	0.3		
WL	14	LIVE	CUT	2	13.5	73	91	392	1.8	2.5	2.5	0.7	41.2	7.2
WL	22	LIVE	CUT	1	21.0	84	107	243	2.7	0.5	1.3	0.3	23.0	4.5
WL	26	LIVE	CUT	1	25.0	66	82	133	31.0	0.4	1.3	0.2	18.7	2.4

Unit Log Grade Summary: GIBRALTAR U13

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	13.5	32.0	314	0.0	30.5	5.8
DF	LIVE	3 SAW	8.2	31.0	1,358	8.5	179.7	24.9
DF	LIVE	4 SAW	5.2	22.0	2,417	3.8	307.0	44.2
DF	LIVE	CULL	5.0	1.0	0	100.0	0.0	0.0
WL	LIVE	2 SAW	15.3	32.0	241	20.7	28.1	4.4

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
WL	LIVE	3 SAW	9.4	32.0	395	0.9	39.9	7.2
WL	LIVE	4 SAW	5.7	29.0	133	2.0	14.9	2.4
WL	LIVE	CULL	5.1	4.0	0	100.0	0.0	0.0

Unit Log Sort Summary: GIBRALTAR U13

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	5.0	1.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	5.7	23.0	4,089	5.2	517.2	74.9
WL	LIVE	Cull	5.1	4.0	0	100.0	0.0	0.0
WL	LIVE	Domestic	8.6	31.0	768	8.3	82.9	14.1

Unit Log Grade x Sort Summary: GIBRALTAR U13

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.5	32.0	314	0.0	30.5	5.8
DF	LIVE	3 SAW	Domestic	8.2	31.0	1,358	8.5	179.7	24.9
DF	LIVE	4 SAW	Domestic	5.2	22.0	2,417	3.8	307.0	44.2
DF	LIVE	CULL	Cull	5.0	1.0	0	100.0	0.0	0.0
WL	LIVE	2 SAW	Domestic	15.3	32.0	241	20.7	28.1	4.4
WL	LIVE	3 SAW	Domestic	9.4	32.0	395	0.9	39.9	7.2
WL	LIVE	4 SAW	Domestic	5.7	29.0	133	2.0	14.9	2.4
WL	LIVE	CULL	Cull	5.1	4.0	0	100.0	0.0	0.0

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U13

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	CULL	5.0	1.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	5.2	22.0	2,417	3.8	307.0	44.2
DF	5 - 8	LIVE	3 SAW	7.8	30.0	893	9.4	120.9	16.4
DF	9 - 11	LIVE	3 SAW	10.1	32.0	465	7.0	58.9	8.5
DF	12 - 14	LIVE	2 SAW	13.5	32.0	314	0.0	30.5	5.8
WL	5 - 8	LIVE	CULL	5.1	4.0	0	100.0	0.0	0.0
WL	5 - 8	LIVE	4 SAW	5.7	29.0	133	2.0	14.9	2.4
WL	5 - 8	LIVE	3 SAW	7.5	32.0	45	3.2	4.9	0.8
WL	9 - 11	LIVE	3 SAW	9.6	32.0	350	0.6	35.0	6.4
WL	15 - 19	LIVE	2 SAW	15.3	32.0	241	20.7	28.1	4.4

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U13

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Cull	5.0	1.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	5.5	23.0	3,310	5.4	427.8	60.6
DF	9 - 11	LIVE	Domestic	10.1	32.0	465	7.0	58.9	8.5
DF	12 - 14	LIVE	Domestic	13.5	32.0	314	0.0	30.5	5.8
WL	5 - 8	LIVE	Cull	5.1	4.0	0	100.0	0.0	0.0
WL	5 - 8	LIVE	Domestic	5.9	30.0	178	2.3	19.7	3.3
WL	9 - 11	LIVE	Domestic	9.6	32.0	350	0.6	35.0	6.4
WL	15 - 19	LIVE	Domestic	15.3	32.0	241	20.7	28.1	4.4

Cruise Unit Report GIBRALTAR U14

Unit Sale Notice Volume (MBF): GIBRALTAR U14

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	16.6			157.2	95.5	41.6	20.1
WL	13.0			2.3		1.8	0.5
ALL	16.4			159.5	95.5	43.5	20.6

Unit Sale Notice Weight (tons): GIBRALTAR U14

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	996.5	537.9	292.6	166.0
WL	15.2		11.4	3.8
ALL	1,011.7	537.9	304.0	169.8

Unit Cruise Design: GIBRALTAR U14

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1C: VR, 1 BAF (22.5) Measure/Count Plots, Sighting Ht = 4.5 ft	19.1	19.1	16	8	0

Unit Cruise Summary: GIBRALTAR U14

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		12	1.5	0
DF	23	54	3.4	0
WL	1	2	0.1	0
ALL	24	68	4.3	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U14

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	33.8	35.6	12.6						
DF	75.9	80.9	20.2	116.9	42.6	8.9	8,876	91.4	22.1
WL	2.8	273.3	68.3	86.8	0.0	0.0	244	273.3	68.3
ALL	95.6	61.1	15.3	115.8	42.4	8.7	11,074	74.3	17.5

Unit Summary: GIBRALTAR U14

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	23	ALL	16.6	47	62	8,218	6.9	46.8	70.3	17.3	996.5	157.2
DF	LIVE	LEA	0	ALL	26.1			657	6.9	1.5	5.6	1.1	79.7	12.6
PP	LIVE	LEA	0	ALL	22.4	8	10			6.2	16.9	3.6		
WL	LIVE	CUT	1	ALL	13.0	42	53	122	0.0	1.5	1.4	0.4	15.2	2.3
WL	LIVE	LEA	0	ALL	29.0			122	0.0	0.3	1.4	0.3	15.2	2.3
ALL	LIVE	LEA	0	ALL	23.4	6	8	779	5.9	8.0	23.9	5.0	94.9	14.9
ALL	LIVE	CUT	24	ALL	16.5	47	62	8,340	6.8	48.3	71.7	17.7	1,011.7	159.5
ALL	ALL	ALL	24	ALL	17.6	41	54	9,119	6.7	56.3	95.6	22.7	1,106.6	174.4

Unit Stand Table: GIBRALTAR U14

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	10	LIVE	CUT	1	9.0	30	51	177	0.0	5.9	2.6	0.9	25.4	3.4
DF	12	LIVE	CUT	3	11.3	37	48	457	15.6	11.2	7.8	2.3	74.9	8.7
DF	14	LIVE	CUT	3	13.6	51	75	960	0.6	7.7	7.8	2.1	115.1	18.4
DF	16	LIVE	CUT	4	15.6	37	44	683	19.8	9.8	13.0	3.3	97.6	13.1
DF	18	LIVE	CUT	1	17.0	50	61	237	12.9	1.7	2.6	0.6	34.7	4.5
DF	20	LIVE	CUT	2	19.5	69	86	812	3.1	2.5	5.2	1.2	91.3	15.5
DF	22	LIVE	CUT	1	22.0	68	85	326	7.1	1.0	2.6	0.6	44.6	6.2
DF	24	LIVE	CUT	1	23.0	75	95	315	22.1	0.9	2.6	0.5	46.6	6.0
DF	26	LIVE	CUT	3	25.7	65	83	1,001	6.9	2.2	7.8	1.5	122.2	19.1
DF	28	LIVE	CUT	2	27.0	78	99	1,861	0.0	2.6	10.4	2.0	199.5	35.6
DF	30	LIVE	CUT	1	30.0	80	101	946	2.0	1.1	5.2	1.0	100.4	18.1
DF	32	LIVE	CUT	1	31.0	66	83	444	0.0	0.5	2.6	0.5	44.3	8.5
DF	24	LIVE	LEA	1	23.0			164	6.9	0.5	1.4	0.3	19.9	3.1
DF	26	LIVE	LEA	1	26.0			164	6.9	0.4	1.4	0.3	19.9	3.1
DF	28	LIVE	LEA	1	27.0			164	6.9	0.4	1.4	0.3	19.9	3.1
DF	30	LIVE	LEA	1	30.0			164	6.9	0.3	1.4	0.3	19.9	3.1
PP	18	LIVE	LEA	2	18.0	20	26			2.4	4.2	1.0		
PP	20	LIVE	LEA	1	20.0					0.6	1.4	0.3		
PP	22	LIVE	LEA	2	22.0					1.1	2.8	0.6		
PP	24	LIVE	LEA	1	23.0					0.5	1.4	0.3		
PP	26	LIVE	LEA	2	25.5					0.8	2.8	0.6		
PP	28	LIVE	LEA	1	28.0					0.3	1.4	0.3		
PP	30	LIVE	LEA	1	30.0					0.3	1.4	0.3		
PP	38	LIVE	LEA	1	37.0					0.2	1.4	0.2		
WL	14	LIVE	CUT	1	13.0	42	53	122	0.0	1.5	1.4	0.4	15.2	2.3

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
WL	30	LIVE	LEA	1	29.0			122	0.0	0.3	1.4	0.3	15.2	2.3

Unit Log Grade Summary: GIBRALTAR U14

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	15.6	29.0	4,991	2.3	537.9	95.5
DF	LIVE	3 SAW	8.6	29.0	2,176	9.1	292.6	41.6
DF	LIVE	4 SAW	6.2	22.0	1,051	4.7	166.0	20.1
DF	LIVE	CULL	7.0	3.0	0	100.0	0.0	0.0
WL	LIVE	3 SAW	9.3	24.0	96	0.0	11.4	1.8
WL	LIVE	4 SAW	5.0	16.0	26	0.0	3.8	0.5

Unit Log Sort Summary: GIBRALTAR U14

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	7.0	3.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	8.9	26.0	8,218	4.5	996.5	157.2
WL	LIVE	Domestic	7.2	20.0	122	0.0	15.2	2.3

Unit Log Grade x Sort Summary: GIBRALTAR U14

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	15.6	29.0	4,991	2.3	537.9	95.5
DF	LIVE	3 SAW	Domestic	8.6	29.0	2,176	9.1	292.6	41.6
DF	LIVE	4 SAW	Domestic	6.2	22.0	1,051	4.7	166.0	20.1
DF	LIVE	CULL	Cull	7.0	3.0	0	100.0	0.0	0.0
WL	LIVE	3 SAW	Domestic	9.3	24.0	96	0.0	11.4	1.8
WL	LIVE	4 SAW	Domestic	5.0	16.0	26	0.0	3.8	0.5

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U14

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	CULL	5.6	3.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	6.1	22.0	1,007	4.9	157.5	19.3
DF	5 - 8	LIVE	3 SAW	7.3	30.0	769	12.7	110.0	14.7
DF	9 - 11	LIVE	4 SAW	9.2	18.0	44	0.0	8.6	0.8
DF	9 - 11	LIVE	3 SAW	9.7	29.0	1,407	7.0	182.6	26.9
DF	12 - 14	LIVE	2 SAW	13.3	29.0	1,375	3.1	147.7	26.3
DF	12 - 14	LIVE	CULL	13.7	5.0	0	100.0	0.0	0.0

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	15 - 19	LIVE	2 SAW	16.6	29.0	2,665	2.0	290.6	51.0
DF	20+	LIVE	2 SAW	20.1	32.0	951	2.0	99.6	18.2
WL	5 - 8	LIVE	4 SAW	5.0	16.0	26	0.0	3.8	0.5
WL	9 - 11	LIVE	3 SAW	9.3	24.0	96	0.0	11.4	1.8

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U14

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Cull	5.6	3.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	6.4	24.0	1,776	8.5	267.5	34.0
DF	9 - 11	LIVE	Domestic	9.6	28.0	1,451	6.8	191.1	27.8
DF	12 - 14	LIVE	Domestic	13.3	29.0	1,375	3.1	147.7	26.3
DF	12 - 14	LIVE	Cull	13.7	5.0	0	100.0	0.0	0.0
DF	15 - 19	LIVE	Domestic	16.6	29.0	2,665	2.0	290.6	51.0
DF	20+	LIVE	Domestic	20.1	32.0	951	2.0	99.6	18.2
WL	5 - 8	LIVE	Domestic	5.0	16.0	26	0.0	3.8	0.5
WL	9 - 11	LIVE	Domestic	9.3	24.0	96	0.0	11.4	1.8

Cruise Unit Report GIBRALTAR U15

Unit Sale Notice Volume (MBF): GIBRALTAR U15

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	11.9			228.7	102.6	60.7	65.3
ALL	11.9			228.7	102.6	60.7	65.3

Unit Sale Notice Weight (tons): GIBRALTAR U15

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	1,392.9	523.4	404.3	465.2
ALL	1,392.9	523.4	404.3	465.2

Unit Cruise Design: GIBRALTAR U15

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	20.3	20.3	14	8	0

Unit Cruise Summary: GIBRALTAR U15

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		7	1.4	0
DF	30	64	4.6	0
ALL	30	71	5.1	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U15

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	28.0	39.1	17.5						
DF	91.4	58.6	15.7	131.7	50.5	9.2	12,042	77.4	18.2
ALL	101.4	49.8	13.3	131.7	50.5	9.2	13,359	70.9	16.2

Unit Summary: GIBRALTAR U15

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	30	ALL	11.9	41	62	11,289	5.0	111.0	85.7	24.8	1,392.9	228.7
DF	LIVE	LEA	0	ALL	30.1			753	5.0	1.2	5.7	1.0	92.9	15.2
PP	LIVE	LEA	0	ALL	21.9	16	16			3.8	10.0	2.1		
ALL	LIVE	CUT	30	ALL	11.9	41	62	11,289	5.0	111.0	85.7	24.8	1,392.9	228.7
ALL	LIVE	LEA	0	ALL	24.1	12	12	753	5.0	5.0	15.7	3.1	92.9	15.2
ALL	ALL	ALL	30	ALL	12.7	40	60	12,042	5.0	116.0	101.4	27.9	1,485.8	243.9

Unit Stand Table: GIBRALTAR U15

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	5	7.8	26	50	1,270	3.1	43.4	14.3	5.1	141.4	25.7
DF	10	LIVE	CUT	5	9.8	39	60	1,165	13.0	27.4	14.3	4.6	168.3	23.6
DF	12	LIVE	CUT	3	11.0	44	64	801	0.0	13.0	8.6	2.6	120.0	16.2
DF	14	LIVE	CUT	4	14.0	43	55	861	14.1	10.7	11.4	3.1	149.7	17.4
DF	18	LIVE	CUT	4	17.5	69	88	1,739	6.8	6.9	11.4	2.7	221.8	35.2
DF	20	LIVE	CUT	1	20.0	90	115	663	3.1	1.3	2.9	0.6	68.8	13.4
DF	22	LIVE	CUT	4	22.2	85	106	2,269	1.2	4.2	11.4	2.4	253.2	46.0
DF	24	LIVE	CUT	1	24.0	93	119	705	0.0	0.9	2.9	0.6	71.5	14.3
DF	26	LIVE	CUT	2	26.1	98	118	1,325	1.6	1.5	5.7	1.1	138.8	26.8
DF	28	LIVE	CUT	1	28.0	80	101	491	9.0	0.7	2.9	0.5	59.4	10.0
DF	28	LIVE	LEA	1	28.0			188	5.0	0.3	1.4	0.3	23.2	3.8
DF	30	LIVE	LEA	1	30.0			188	5.0	0.3	1.4	0.3	23.2	3.8
DF	32	LIVE	LEA	2	31.5			377	5.0	0.5	2.9	0.5	46.5	7.6
PP	18	LIVE	LEA	2	18.0	38	38			1.6	2.9	0.7		
PP	20	LIVE	LEA	2	20.0					1.3	2.9	0.6		
PP	26	LIVE	LEA	1	26.0					0.4	1.4	0.3		
PP	30	LIVE	LEA	1	30.0					0.3	1.4	0.3		
PP	36	LIVE	LEA	1	35.0					0.2	1.4	0.2		

Unit Log Grade Summary: GIBRALTAR U15

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	14.9	32.0	5,066	1.2	523.4	102.6
DF	LIVE	3 SAW	8.4	29.0	2,998	6.1	404.3	60.7
DF	LIVE	4 SAW	5.4	23.0	3,224	8.7	465.2	65.3
DF	LIVE	CULL	5.0	2.0	0	100.0	0.0	0.0

Unit Log Sort Summary: GIBRALTAR U15

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Cull	5.0	2.0	0	100.0	0.0	0.0
DF	LIVE	Domestic	6.9	25.0	11,289	4.7	1,392.9	228.7

Unit Log Grade x Sort Summary: GIBRALTAR U15

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	14.9	32.0	5,066	1.2	523.4	102.6
DF	LIVE	3 SAW	Domestic	8.4	29.0	2,998	6.1	404.3	60.7
DF	LIVE	4 SAW	Domestic	5.4	23.0	3,224	8.7	465.2	65.3
DF	LIVE	CULL	Cull	5.0	2.0	0	100.0	0.0	0.0

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U15

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	CULL	5.0	2.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	4 SAW	5.4	23.0	3,203	8.6	461.0	64.9
DF	5 - 8	LIVE	3 SAW	7.1	27.0	886	1.3	130.1	18.0
DF	9 - 11	LIVE	4 SAW	8.6	16.0	21	20.5	4.2	0.4
DF	9 - 11	LIVE	3 SAW	9.7	31.0	2,005	6.6	258.8	40.6
DF	12 - 14	LIVE	2 SAW	13.0	32.0	1,634	0.5	163.4	33.1
DF	12 - 14	LIVE	3 SAW	13.2	28.0	107	28.9	15.4	2.2
DF	15 - 19	LIVE	2 SAW	16.3	32.0	3,432	1.5	360.0	69.5

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U15

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Cull	5.0	2.0	0	100.0	0.0	0.0
DF	5 - 8	LIVE	Domestic	5.6	24.0	4,090	7.1	591.0	82.9
DF	9 - 11	LIVE	Domestic	9.7	31.0	2,026	6.7	263.0	41.0
DF	12 - 14	LIVE	Domestic	13.1	32.0	1,741	2.9	178.9	35.3
DF	15 - 19	LIVE	Domestic	16.3	32.0	3,432	1.5	360.0	69.5

Cruise Unit Report GIBRALTAR U16

Unit Sale Notice Volume (MBF): GIBRALTAR U16

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	20.8			21.2	14.1	5.9	1.2
ALL	20.8			21.2	14.1	5.9	1.2

Unit Sale Notice Weight (tons): GIBRALTAR U16

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	137.7	88.1	41.7	8.0
ALL	137.7	88.1	41.7	8.0

Unit Cruise Design: GIBRALTAR U16

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1: VR, 1 BAF (20) Measure All, Sighting Ht = 4.5 ft	2.6	2.6	4	4	0

Unit Cruise Summary: GIBRALTAR U16

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		9	2.3	0
DF	11	14	3.5	0
ALL	11	23	5.8	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U16

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	45.0	66.7	33.3						
DF	70.0	54.7	27.4	148.5	28.6	8.6	10,396	61.7	28.7
ALL	115.0	16.7	8.3	148.5	28.6	8.6	17,079	33.1	12.0

Unit Summary: GIBRALTAR U16

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	11	ALL	20.8	74	91	8,168	2.1	23.3	55.0	12.1	137.7	21.2
DF	LIVE	LEA	0	ALL	34.0			2,228	2.1	2.4	15.0	2.6	37.5	5.8
PP	LIVE	LEA	0	ALL	21.2	41	59			18.4	45.0	9.8		
ALL	LIVE	CUT	11	ALL	20.8	74	91	8,168	2.1	23.3	55.0	12.1	137.7	21.2
ALL	LIVE	LEA	0	ALL	23.0	36	52	2,228	2.1	20.8	60.0	12.4	37.5	5.8
ALL	ALL	ALL	11	ALL	21.9	56	73	10,396	2.1	44.1	115.0	24.5	175.2	27.0

Unit Stand Table: GIBRALTAR U16

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	14	LIVE	CUT	1	13.4	58	82	500	0.0	5.1	5.0	1.4	11.3	1.3
DF	16	LIVE	CUT	1	16.7	79	100	730	0.0	3.3	5.0	1.2	13.4	1.9
DF	20	LIVE	CUT	2	19.5	74	88	1,480	0.0	4.8	10.0	2.3	24.6	3.8
DF	22	LIVE	CUT	3	22.1	83	98	2,390	0.0	5.6	15.0	3.2	39.5	6.2
DF	28	LIVE	CUT	4	28.5	79	89	3,068	5.4	4.5	20.0	3.7	48.9	7.9
DF	34	LIVE	LEA	2	33.5			1,486	2.1	1.6	10.0	1.7	25.0	3.8
DF	36	LIVE	LEA	1	35.0			742	2.1	0.7	5.0	0.8	12.5	1.9
PP	12	LIVE	LEA	1	12.0	33	57			6.4	5.0	1.4		
PP	18	LIVE	LEA	2	18.0	55	77			5.7	10.0	2.4		
PP	22	LIVE	LEA	1	21.0					2.1	5.0	1.1		
PP	30	LIVE	LEA	1	29.0	84	101			1.1	5.0	0.9		
PP	32	LIVE	LEA	2	31.5	45	54			1.8	10.0	1.8		
PP	38	LIVE	LEA	2	37.5	48	55			1.3	10.0	1.6		

Unit Log Grade Summary: GIBRALTAR U16

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	14.5	32.0	5,450	3.1	88.1	14.1
DF	LIVE	3 SAW	8.0	32.0	2,262	0.0	41.7	5.9
DF	LIVE	4 SAW	5.0	20.0	455	0.0	8.0	1.2

Unit Log Sort Summary: GIBRALTAR U16

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	9.2	29.0	8,168	2.1	137.7	21.2

Unit Log Grade x Sort Summary: GIBRALTAR U16

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	14.5	32.0	5,450	3.1	88.1	14.1
DF	LIVE	3 SAW	Domestic	8.0	32.0	2,262	0.0	41.7	5.9
DF	LIVE	4 SAW	Domestic	5.0	20.0	455	0.0	8.0	1.2

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U16

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.0	20.0	455	0.0	8.0	1.2
DF	5 - 8	LIVE	3 SAW	7.1	32.0	1,349	0.0	26.2	3.5
DF	9 - 11	LIVE	3 SAW	10.4	32.0	913	0.0	15.5	2.4
DF	12 - 14	LIVE	2 SAW	12.9	32.0	2,682	0.0	44.0	6.9
DF	15 - 19	LIVE	2 SAW	16.9	32.0	2,041	7.9	35.2	5.3
DF	20+	LIVE	2 SAW	19.6	32.0	728	0.0	8.9	1.9

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U16

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.1	26.0	1,805	0.0	34.1	4.7
DF	9 - 11	LIVE	Domestic	10.4	32.0	913	0.0	15.5	2.4
DF	12 - 14	LIVE	Domestic	12.9	32.0	2,682	0.0	44.0	6.9
DF	15 - 19	LIVE	Domestic	16.9	32.0	2,041	7.9	35.2	5.3
DF	20+	LIVE	Domestic	19.6	32.0	728	0.0	8.9	1.9

Cruise Unit Report GIBRALTAR U17

Unit Sale Notice Volume (MBF): GIBRALTAR U17

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	23.7			22.7	17.9	3.1	1.7
ALL	23.7			22.7	17.9	3.1	1.7

Unit Sale Notice Weight (tons): GIBRALTAR U17

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	128.3	99.4	15.5	13.4
ALL	128.3	99.4	15.5	13.4

Unit Cruise Design: GIBRALTAR U17

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
B1: VR, 1 BAF (20) Measure All, Sighting Ht = 4.5 ft	3.4	3.4	3	3	0

Unit Cruise Summary: GIBRALTAR U17

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		11	3.7	0
DF	5	5	1.7	0
ALL	5	16	5.3	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U17

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	73.3	41.7	24.1						
DF	33.3	91.7	52.9	201.3	10.2	4.5	6,709	92.2	53.1
ALL	106.7	28.6	16.5	201.3	10.2	4.5	21,468	30.4	17.1

Unit Summary: GIBRALTAR U17

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	5	ALL	23.7	97	113	6,709	0.6	10.9	33.3	6.8	128.3	22.7
PP	LIVE	LEA	0	ALL	24.7	9	12			22.0	73.3	14.8		
ALL	LIVE	LEA	0	ALL	24.7	9	12			22.0	73.3	14.8		
ALL	LIVE	CUT	5	ALL	23.7	97	113	6,709	0.6	10.9	33.3	6.8	128.3	22.7
ALL	ALL	ALL	5	ALL	24.4	38	45	6,709	0.6	32.9	106.6	21.6	128.3	22.7

Unit Stand Table: GIBRALTAR U17

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	18	LIVE	CUT	1	18.3	100	122	1,434	0.0	3.6	6.7	1.6	28.1	4.8
DF	24	LIVE	CUT	1	24.9	89	102	1,296	0.0	2.0	6.7	1.3	24.1	4.4
DF	26	LIVE	CUT	2	26.3	98	112	2,687	0.0	3.5	13.3	2.6	51.2	9.1
DF	28	LIVE	CUT	1	27.0	95	108	1,291	3.0	1.7	6.7	1.3	24.9	4.4
PP	18	LIVE	LEA	1	17.0					4.2	6.7	1.6		
PP	20	LIVE	LEA	1	19.0	59	80			3.4	6.7	1.5		
PP	22	LIVE	LEA	1	22.0					2.5	6.7	1.4		
PP	24	LIVE	LEA	2	23.5					4.4	13.3	2.8		
PP	28	LIVE	LEA	1	28.0					1.6	6.7	1.3		
PP	30	LIVE	LEA	2	30.0					2.7	13.3	2.4		
PP	32	LIVE	LEA	1	32.0					1.2	6.7	1.2		
PP	36	LIVE	LEA	2	35.5					1.9	13.3	2.2		

Unit Log Grade Summary: GIBRALTAR U17

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	15.0	32.0	5,299	0.8	99.4	17.9
DF	LIVE	3 SAW	10.4	32.0	904	0.0	15.5	3.1
DF	LIVE	4 SAW	5.2	29.0	505	0.0	13.4	1.7

Unit Log Sort Summary: GIBRALTAR U17

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	10.9	31.0	6,709	0.6	128.3	22.7

Unit Log Grade x Sort Summary: GIBRALTAR U17

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	15.0	32.0	5,299	0.8	99.4	17.9
DF	LIVE	3 SAW	Domestic	10.4	32.0	904	0.0	15.5	3.1
DF	LIVE	4 SAW	Domestic	5.2	29.0	505	0.0	13.4	1.7

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U17

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.2	29.0	505	0.0	13.4	1.7
DF	9 - 11	LIVE	3 SAW	10.4	32.0	904	0.0	15.5	3.1
DF	12 - 14	LIVE	2 SAW	12.9	32.0	1,982	2.0	36.9	6.7
DF	15 - 19	LIVE	2 SAW	17.6	32.0	3,318	0.0	62.6	11.2

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U17

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.2	29.0	505	0.0	13.4	1.7
DF	9 - 11	LIVE	Domestic	10.4	32.0	904	0.0	15.5	3.1
DF	12 - 14	LIVE	Domestic	12.9	32.0	1,982	2.0	36.9	6.7
DF	15 - 19	LIVE	Domestic	17.6	32.0	3,318	0.0	62.6	11.2

Cruise Unit Report GIBRALTAR U18

Unit Sale Notice Volume (MBF): GIBRALTAR U18

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	18.7			121.3	82.1	32.0	7.2
ALL	18.7			121.3	82.1	32.0	7.2

Unit Sale Notice Weight (tons): GIBRALTAR U18

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	710.3	443.7	209.2	57.4
ALL	710.3	443.7	209.2	57.4

Unit Cruise Design: GIBRALTAR U18

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	5.3	5.3	6	6	0

Unit Cruise Summary: GIBRALTAR U18

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		9	2.3	0
DF	40	48	8.0	0
ALL	40	57	9.5	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U18

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	45.0	55.9	28.0						
DF	160.0	30.6	12.5	173.3	32.4	5.1	27,731	44.5	13.5
ALL	190.0	39.8	16.3	173.3	32.4	5.1	32,930	51.3	17.0

Unit Summary: GIBRALTAR U18

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	40	ALL	18.7	69	86	23,109	0.0	69.9	133.3	30.8	710.3	121.3
DF	LIVE	LEA	0	ALL	32.7	73	80	4,622	0.0	4.6	26.7	4.7	142.1	24.3
PP	LIVE	LEA	0	ALL	22.9	67	86			10.5	30.0	6.3		
ALL	LIVE	LEA	0	ALL	26.3	69	84	4,622	0.0	15.1	56.7	11.0	142.1	24.3
ALL	LIVE	CUT	40	ALL	18.7	69	86	23,109	0.0	69.9	133.3	30.8	710.3	121.3
ALL	ALL	ALL	40	ALL	20.3	69	86	27,731	0.0	85.0	190.0	41.8	852.4	145.6

Unit Stand Table: GIBRALTAR U18

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	10	LIVE	CUT	2	10.2	33	50	436	0.0	11.8	6.7	2.1	19.1	2.3
DF	12	LIVE	CUT	2	11.7	40	57	529	0.0	8.9	6.7	1.9	23.7	2.8
DF	14	LIVE	CUT	2	13.9	57	80	701	0.0	6.4	6.7	1.8	29.2	3.7
DF	16	LIVE	CUT	2	15.9	59	75	743	0.6	4.8	6.7	1.7	28.4	3.9
DF	18	LIVE	CUT	6	18.0	80	99	3,106	0.0	11.4	20.0	4.7	104.6	16.3
DF	20	LIVE	CUT	5	19.7	88	107	2,723	0.0	7.9	16.7	3.8	93.0	14.3
DF	22	LIVE	CUT	5	22.0	99	117	3,420	0.0	6.3	16.7	3.5	101.5	18.0
DF	24	LIVE	CUT	2	23.9	90	103	1,360	0.0	2.1	6.7	1.4	38.0	7.1
DF	26	LIVE	CUT	4	25.7	89	102	2,516	0.0	3.7	13.3	2.6	73.9	13.2
DF	28	LIVE	CUT	4	27.9	103	116	3,026	0.0	3.1	13.3	2.5	82.1	15.9
DF	30	LIVE	CUT	1	30.1	97	108	746	0.0	0.7	3.3	0.6	19.8	3.9
DF	32	LIVE	CUT	2	32.1	91	101	1,414	0.0	1.2	6.7	1.2	37.2	7.4
DF	34	LIVE	CUT	1	33.2	107	118	791	0.0	0.6	3.3	0.6	20.4	4.2
DF	36	LIVE	CUT	2	35.3	100	110	1,599	0.0	1.0	6.7	1.1	39.5	8.4
DF	30	LIVE	LEA	1	30.0			577	0.0	0.7	3.3	0.6	17.7	3.0
DF	32	LIVE	LEA	2	32.0	98	108	1,155	0.0	1.2	6.7	1.2	35.5	6.1
DF	34	LIVE	LEA	4	33.2	75	83	2,312	0.0	2.2	13.4	2.3	71.1	12.1
DF	36	LIVE	LEA	1	35.0	102	111	577	0.0	0.5	3.3	0.6	17.7	3.0
PP	18	LIVE	LEA	2	17.5	53	75			4.0	6.7	1.6		
PP	20	LIVE	LEA	1	19.0	59	80			1.7	3.3	0.8		
PP	24	LIVE	LEA	1	23.0	70	89			1.2	3.3	0.7		
PP	26	LIVE	LEA	1	26.0	77	95			0.9	3.3	0.7		
PP	28	LIVE	LEA	1	28.0	82	99			0.8	3.3	0.6		
PP	30	LIVE	LEA	2	30.0	86	103			1.4	6.7	1.2		
PP	32	LIVE	LEA	1	32.0	90	106			0.6	3.3	0.6		

Unit Log Grade Summary: GIBRALTAR U18

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	15.0	32.0	15,641	0.0	443.7	82.1
DF	LIVE	3 SAW	8.2	32.0	6,093	0.0	209.2	32.0
DF	LIVE	4 SAW	5.2	23.0	1,375	0.3	57.4	7.2

Unit Log Sort Summary: GIBRALTAR U18

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	9.3	29.0	23,109	0.0	710.3	121.3

Unit Log Grade x Sort Summary: GIBRALTAR U18

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	15.0	32.0	15,641	0.0	443.7	82.1
DF	LIVE	3 SAW	Domestic	8.2	32.0	6,093	0.0	209.2	32.0
DF	LIVE	4 SAW	Domestic	5.2	23.0	1,375	0.3	57.4	7.2

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U18

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.2	23.0	1,375	0.3	57.4	7.2
DF	5 - 8	LIVE	3 SAW	6.9	32.0	2,468	0.0	90.1	13.0
DF	9 - 11	LIVE	3 SAW	9.9	32.0	3,624	0.0	119.0	19.0
DF	12 - 14	LIVE	2 SAW	12.7	32.0	5,380	0.0	167.3	28.2
DF	15 - 19	LIVE	2 SAW	16.5	32.0	6,938	0.0	192.2	36.4
DF	20+	LIVE	2 SAW	22.1	32.0	3,324	0.0	84.1	17.5

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U18

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.9	27.0	3,843	0.1	147.6	20.2
DF	9 - 11	LIVE	Domestic	9.9	32.0	3,624	0.0	119.0	19.0
DF	12 - 14	LIVE	Domestic	12.7	32.0	5,380	0.0	167.3	28.2
DF	15 - 19	LIVE	Domestic	16.5	32.0	6,938	0.0	192.2	36.4
DF	20+	LIVE	Domestic	22.1	32.0	3,324	0.0	84.1	17.5

Cruise Unit Report GIBRALTAR U19

Unit Sale Notice Volume (MBF): GIBRALTAR U19

Sp	QMD	Rings/In	Age	MBF Volume by Grade			
				All	2 Saw	3 Saw	4 Saw
DF	13.4			174.1	36.0	101.8	36.4
WL	20.2			6.0	4.4	1.5	0.1
ALL	13.5			180.1	40.3	103.2	36.5

Unit Sale Notice Weight (tons): GIBRALTAR U19

Sp	Tons by Grade			
	All	2 Saw	3 Saw	4 Saw
DF	1,290.9	235.6	770.9	284.4
WL	27.9	18.1	8.7	1.0
ALL	1,318.8	253.7	779.6	285.5

Unit Cruise Design: GIBRALTAR U19

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	34.4	34.7	23	12	1

Unit Cruise Summary: GIBRALTAR U19

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP		5	1.0	0
DF	29	67	2.9	0
WL	1	1	0.0	0
ALL	30	73	3.2	0

Unit Cruise Statistics (Cut + Leave Trees): GIBRALTAR U19

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	20.0	0.0	0.0						
DF	58.3	70.9	14.8	102.2	38.1	7.1	5,954	80.5	16.4
WL	0.9	479.6	100.0	200.4	0.0	0.0	174	479.6	100.0
ALL	63.5	70.9	14.8	103.6	40.7	7.4	6,579	81.7	16.5

Unit Summary: GIBRALTAR U19

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	29	ALL	13.4	46	65	5,065	3.0	50.6	49.6	13.5	1,290.9	174.1
DF	LIVE	LEA	0	ALL	23.6			889	3.0	2.9	8.7	1.8	226.5	30.5
PP	LIVE	LEA	0	ALL	29.5					0.9	4.3	0.8		
WL	LIVE	CUT	1	ALL	20.2	74	93	174	2.4	0.4	0.9	0.2	27.9	6.0
ALL	LIVE	CUT	30	ALL	13.5	46	65	5,239	3.0	51.0	50.5	13.7	1,318.8	180.1
ALL	LIVE	LEA	0	ALL	25.1			889	2.9	3.8	13.0	2.6	226.5	30.5
ALL	ALL	ALL	30	ALL	14.6	43	61	6,128	3.0	54.8	63.5	16.3	1,545.3	210.6

Unit Stand Table: GIBRALTAR U19

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	8	LIVE	CUT	2	7.3	31	46	127	16.0	11.6	3.4	1.3	34.1	4.4
DF	10	LIVE	CUT	2	9.4	32	55	258	0.0	7.1	3.4	1.1	68.5	8.9
DF	12	LIVE	CUT	5	12.1	50	71	865	0.5	10.8	8.6	2.5	216.0	29.7
DF	14	LIVE	CUT	3	13.6	49	66	479	1.0	5.1	5.1	1.4	128.5	16.5
DF	16	LIVE	CUT	7	15.8	60	75	1,328	1.7	8.8	12.0	3.0	342.1	45.7
DF	18	LIVE	CUT	4	18.0	61	79	717	4.0	3.9	6.8	1.6	194.2	24.7
DF	20	LIVE	CUT	1	19.8	75	95	296	0.0	0.8	1.7	0.4	56.4	10.2
DF	22	LIVE	CUT	2	21.1	47	86	369	7.2	1.4	3.4	0.7	94.0	12.7
DF	24	LIVE	CUT	2	24.3	77	97	536	0.6	1.1	3.4	0.7	116.0	18.4
DF	36	LIVE	CUT	1	35.0	50	55	91	30.5	0.3	1.7	0.3	41.1	3.1
DF	18	LIVE	LEA	1	18.0			89	3.0	0.5	0.9	0.2	22.7	3.1
DF	20	LIVE	LEA	2	19.5			178	3.0	0.8	1.7	0.4	45.3	6.1
DF	22	LIVE	LEA	1	22.0			89	3.0	0.3	0.9	0.2	22.7	3.1
DF	24	LIVE	LEA	1	24.0			89	3.0	0.3	0.9	0.2	22.7	3.1
DF	26	LIVE	LEA	1	26.0			89	3.0	0.2	0.9	0.2	22.6	3.1
DF	28	LIVE	LEA	1	28.0			89	3.0	0.2	0.9	0.2	22.7	3.1
DF	30	LIVE	LEA	1	30.0			89	3.0	0.2	0.9	0.2	22.6	3.1
DF	32	LIVE	LEA	2	32.0			178	3.0	0.3	1.7	0.3	45.3	6.1
PP	22	LIVE	LEA	1	22.0					0.3	0.9	0.2		
PP	30	LIVE	LEA	1	30.0					0.2	0.9	0.2		
PP	32	LIVE	LEA	1	31.0					0.2	0.9	0.2		
PP	34	LIVE	LEA	1	33.0					0.1	0.9	0.1		
PP	42	LIVE	LEA	1	41.0					0.1	0.9	0.1		
WL	20	LIVE	CUT	1	20.2	74	93	174	2.4	0.4	0.9	0.2	27.9	6.0

Unit Log Grade Summary: GIBRALTAR U19

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	13.9	32.0	1,046	3.7	235.6	36.0
DF	LIVE	3 SAW	8.4	31.0	2,961	2.8	770.9	101.8
DF	LIVE	4 SAW	5.6	19.0	1,058	3.1	284.4	36.4
WL	LIVE	2 SAW	14.5	32.0	128	0.0	18.1	4.4
WL	LIVE	3 SAW	8.6	32.0	43	5.1	8.7	1.5
WL	LIVE	4 SAW	5.1	12.0	3	38.5	1.0	0.1

Unit Log Sort Summary: GIBRALTAR U19

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	7.1	25.0	5,065	3.0	1,290.9	174.1
WL	LIVE	Domestic	9.4	25.0	174	2.4	27.9	6.0

Unit Log Grade x Sort Summary: GIBRALTAR U19

Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	13.9	32.0	1,046	3.7	235.6	36.0
DF	LIVE	3 SAW	Domestic	8.4	31.0	2,961	2.8	770.9	101.8
DF	LIVE	4 SAW	Domestic	5.6	19.0	1,058	3.1	284.4	36.4
WL	LIVE	2 SAW	Domestic	14.5	32.0	128	0.0	18.1	4.4
WL	LIVE	3 SAW	Domestic	8.6	32.0	43	5.1	8.7	1.5
WL	LIVE	4 SAW	Domestic	5.1	12.0	3	38.5	1.0	0.1

Unit Log Grade x Diameter Bin Summary: GIBRALTAR U19

Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.5	19.0	967	3.0	259.3	33.2
DF	5 - 8	LIVE	3 SAW	6.7	32.0	919	0.4	229.9	31.6
DF	9 - 11	LIVE	4 SAW	8.8	20.0	91	4.2	25.1	3.1
DF	9 - 11	LIVE	3 SAW	9.8	31.0	2,041	3.8	541.0	70.2
DF	12 - 14	LIVE	2 SAW	13.0	32.0	590	0.0	117.0	20.3
DF	15 - 19	LIVE	2 SAW	15.6	32.0	456	8.0	118.6	15.7
WL	5 - 8	LIVE	4 SAW	5.1	12.0	3	38.5	1.0	0.1
WL	9 - 11	LIVE	3 SAW	8.6	32.0	43	5.1	8.7	1.5
WL	12 - 14	LIVE	2 SAW	14.5	32.0	128	0.0	18.1	4.4

Unit Log Sort x Diameter Bin Summary: GIBRALTAR U19

Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	5.8	23.0	1,886	1.7	489.2	64.8
DF	9 - 11	LIVE	Domestic	9.7	30.0	2,132	3.8	566.2	73.3
DF	12 - 14	LIVE	Domestic	13.0	32.0	590	0.0	117.0	20.3
DF	15 - 19	LIVE	Domestic	15.6	32.0	456	8.0	118.6	15.7
WL	5 - 8	LIVE	Domestic	5.1	12.0	3	38.5	1.0	0.1
WL	9 - 11	LIVE	Domestic	8.6	32.0	43	5.1	8.7	1.5
WL	12 - 14	LIVE	Domestic	14.5	32.0	128	0.0	18.1	4.4

Cruise Unit Report ROW

Unit Sale Notice Volume (MBF): ROW

Sp	QMD	Rings/In	Age	MBF Volume by Grade				
				All	2 Saw	3 Saw	4 Saw	5 Saw
PP	22.5			1.2			0.8	0.4
DF	21.5			0.8	0.7	0.1	0.0	
ALL	22.1			2.0	0.7	0.1	0.8	0.4

Unit Sale Notice Weight (tons): ROW

Sp	Tons by Grade				
	All	2 Saw	3 Saw	4 Saw	5 Saw
PP	6.2			4.2	2.0
DF	5.0	4.0	0.8	0.1	
ALL	11.2	4.0	0.8	4.4	2.0

Unit Cruise Design: ROW

Design	Cruise Acres	FMA Acres	N Plots	N Cruise Plots	N Void Plots
ST: Strip/Percent Sample (1 tree expansion)	0.5		1	1	0

Unit Cruise Summary: ROW

Sp	Cruised Trees	All Trees	Trees/Plot	Ring-Count Trees
PP	4	4	4.0	0
DF	3	3	3.0	0
ALL	7	7	7.0	0

Unit Cruise Statistics (Cut + Leave Trees): ROW

Sp	BA (sq ft/acre)	BA CV (%)	BA SE (%)	V-BAR (bf/sq ft)	V-BAR CV (%)	V-BAR SE (%)	Net Vol (bf/acre)	Vol CV (%)	Vol SE (%)
PP	22.0	0.0	0.0	109.2	72.0	36.0	2,407	72.0	36.0
DF	15.1	0.0	0.0	100.7	93.5	54.0	1,521	93.5	54.0
ALL	37.2	0.0	0.0	105.7	73.7	27.8	3,928	73.7	27.8

Unit Summary: ROW

Sp	Status	Rx	N	D	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	LIVE	CUT	3	ALL	21.5	47	63	1,521	0.0	6.0	15.1	3.3	5.0	0.8
PP	LIVE	CUT	4	ALL	22.5	56	77	2,407	0.5	8.0	22.0	4.6	6.2	1.2
ALL	LIVE	CUT	7	ALL	22.1	52	71	3,928	0.3	14.0	37.1	7.9	11.2	2.0
ALL	ALL	ALL	7	ALL	22.1	52	71	3,928	0.3	14.0	37.1	7.9	11.2	2.0

Unit Stand Table: ROW

Sp	D	Status	Rx	N	QMD	BL	THT	BF Net	Defect %	TPA	BA	RD	Tons	MBF Net
DF	10	LIVE	CUT	1	10.0	15	30	19	0.0	2.0	1.1	0.3	0.1	0.0
DF	14	LIVE	CUT	1	14.7	36	45	90	0.0	2.0	2.4	0.6	0.4	0.0
DF	32	LIVE	CUT	1	32.7	89	113	1,412	0.0	2.0	11.7	2.0	4.4	0.7
PP	12	LIVE	CUT	1	12.0	20	29	37	0.0	2.0	1.6	0.5	0.2	0.0
PP	24	LIVE	CUT	1	24.0	88	118	966	0.0	2.0	6.3	1.3	2.3	0.5
PP	26	LIVE	CUT	2	25.5	57	81	1,403	0.8	4.0	14.2	2.8	3.7	0.7

Unit Log Grade Summary: ROW

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	19.0	32.0	1,329	0.0	4.0	0.7
DF	LIVE	3 SAW	8.3	26.0	173	0.0	0.8	0.1
DF	LIVE	4 SAW	5.9	14.0	19	0.0	0.1	0.0
PP	LIVE	4 SAW	14.9	31.0	1,679	0.7	4.2	0.8
PP	LIVE	5 SAW	8.7	24.0	728	0.0	2.0	0.4

Unit Log Sort Summary: ROW

Sp	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	Domestic	12.1	26.0	1,521	0.0	5.0	0.8
PP	LIVE	Domestic	11.0	27.0	2,407	0.5	6.2	1.2

Unit Log Grade x Sort Summary: ROW

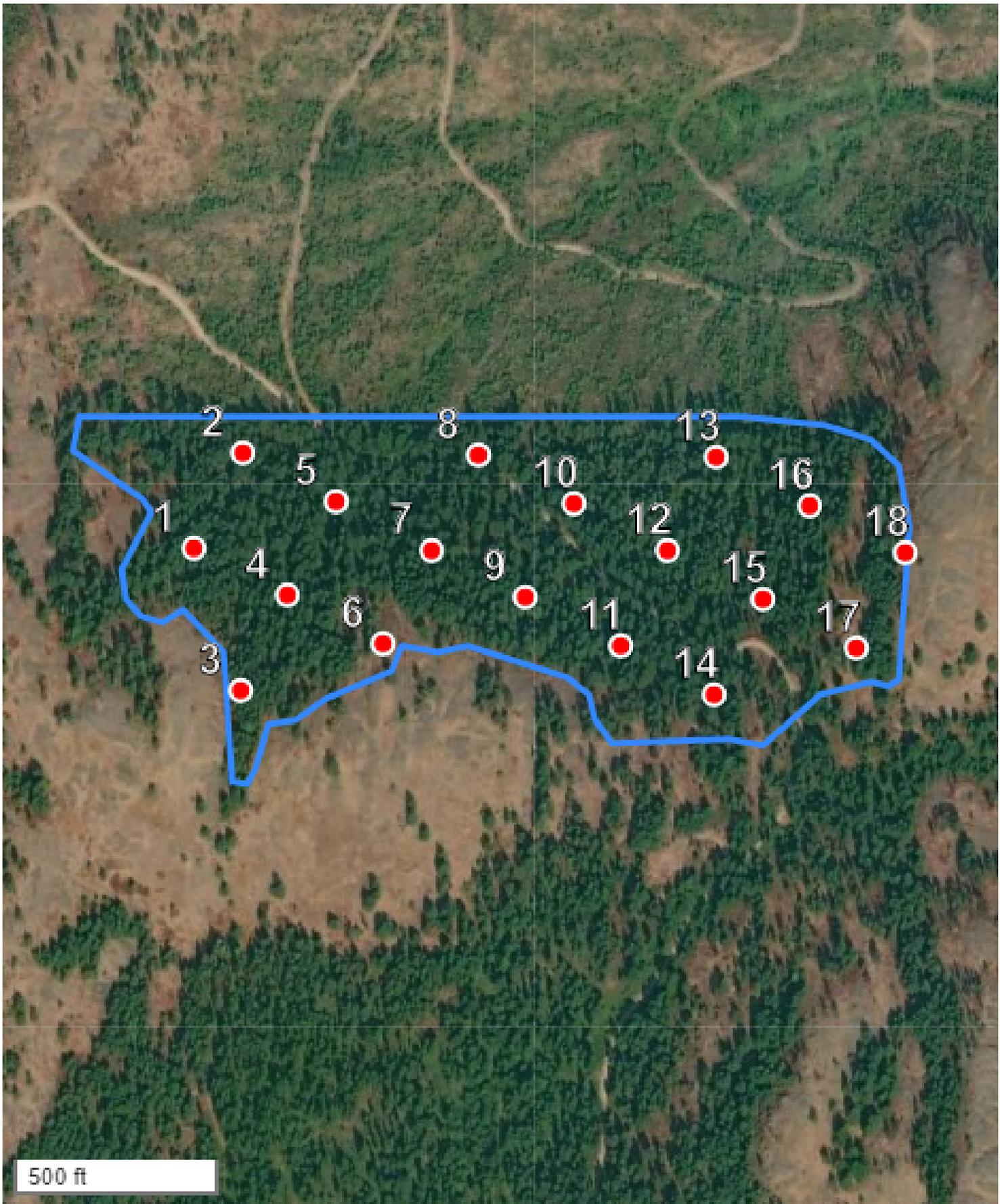
Sp	Status	Grade	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	LIVE	2 SAW	Domestic	19.0	32.0	1,329	0.0	4.0	0.7
DF	LIVE	3 SAW	Domestic	8.3	26.0	173	0.0	0.8	0.1
DF	LIVE	4 SAW	Domestic	5.9	14.0	19	0.0	0.1	0.0
PP	LIVE	4 SAW	Domestic	14.9	31.0	1,679	0.7	4.2	0.8
PP	LIVE	5 SAW	Domestic	8.7	24.0	728	0.0	2.0	0.4

Unit Log Grade x Diameter Bin Summary: ROW

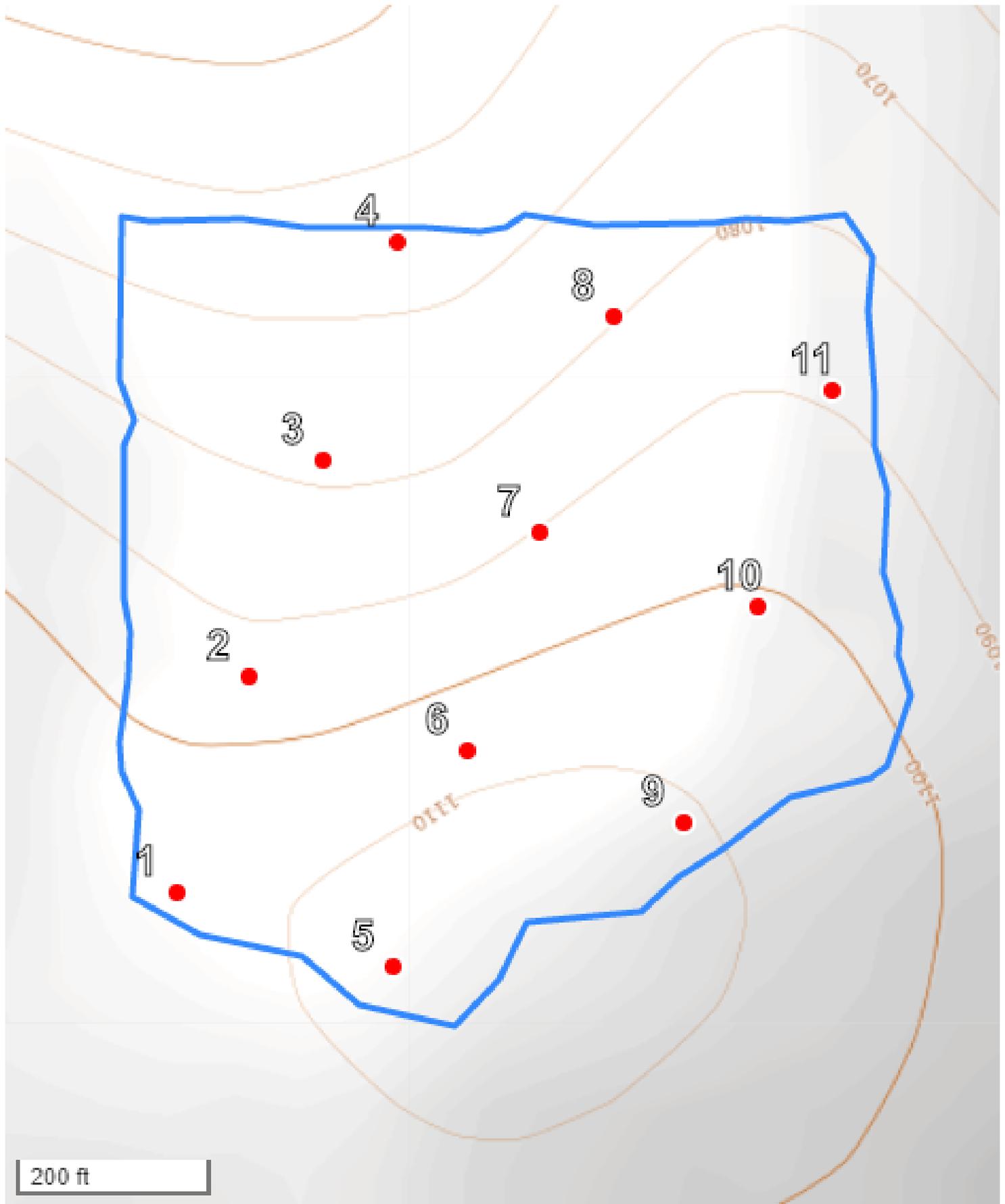
Sp	Bin	Status	Grade	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	4 SAW	5.9	14.0	19	0.0	0.1	0.0
DF	5 - 8	LIVE	3 SAW	6.2	32.0	90	0.0	0.4	0.0
DF	9 - 11	LIVE	3 SAW	10.3	20.0	83	0.0	0.4	0.0
DF	15 - 19	LIVE	2 SAW	16.0	32.0	467	0.0	1.3	0.2
DF	20+	LIVE	2 SAW	22.0	32.0	862	0.0	2.8	0.4
PP	5 - 8	LIVE	5 SAW	7.1	18.0	143	0.0	0.5	0.1
PP	9 - 11	LIVE	5 SAW	11.1	32.0	585	0.0	1.4	0.3
PP	12 - 14	LIVE	4 SAW	12.5	30.0	323	3.6	1.2	0.2
PP	15 - 19	LIVE	4 SAW	16.2	32.0	1,356	0.0	3.1	0.7

Unit Log Sort x Diameter Bin Summary: ROW

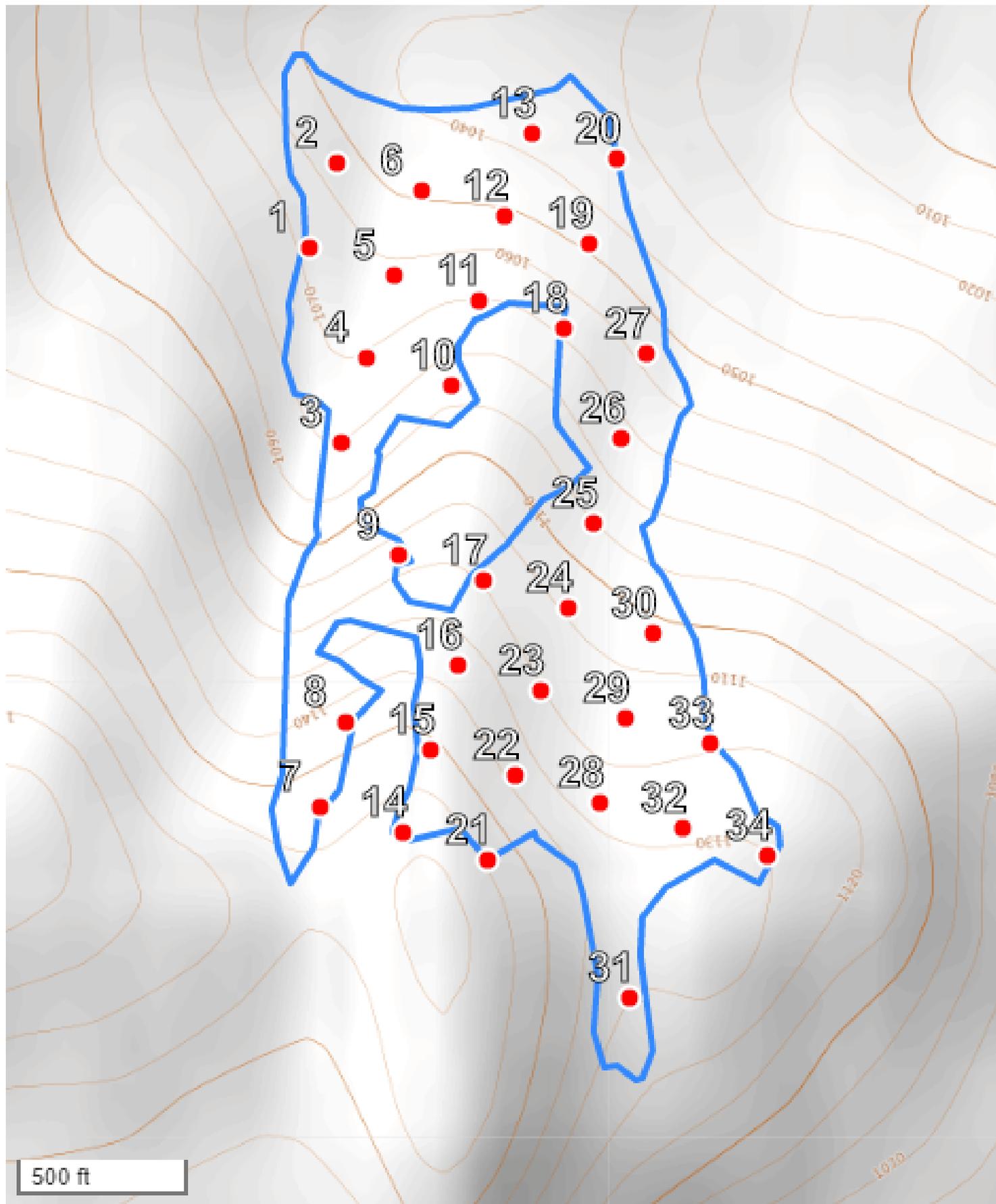
Sp	Bin	Status	Sort	Dia	Len	BF Net	Defect %	Tons	MBF Net
DF	5 - 8	LIVE	Domestic	6.1	23.0	109	0.0	0.6	0.1
DF	9 - 11	LIVE	Domestic	10.3	20.0	83	0.0	0.4	0.0
DF	15 - 19	LIVE	Domestic	16.0	32.0	467	0.0	1.3	0.2
DF	20+	LIVE	Domestic	22.0	32.0	862	0.0	2.8	0.4
PP	5 - 8	LIVE	Domestic	7.1	18.0	143	0.0	0.5	0.1
PP	9 - 11	LIVE	Domestic	11.1	32.0	585	0.0	1.4	0.3
PP	12 - 14	LIVE	Domestic	12.5	30.0	323	3.6	1.2	0.2
PP	15 - 19	LIVE	Domestic	16.2	32.0	1,356	0.0	3.1	0.7



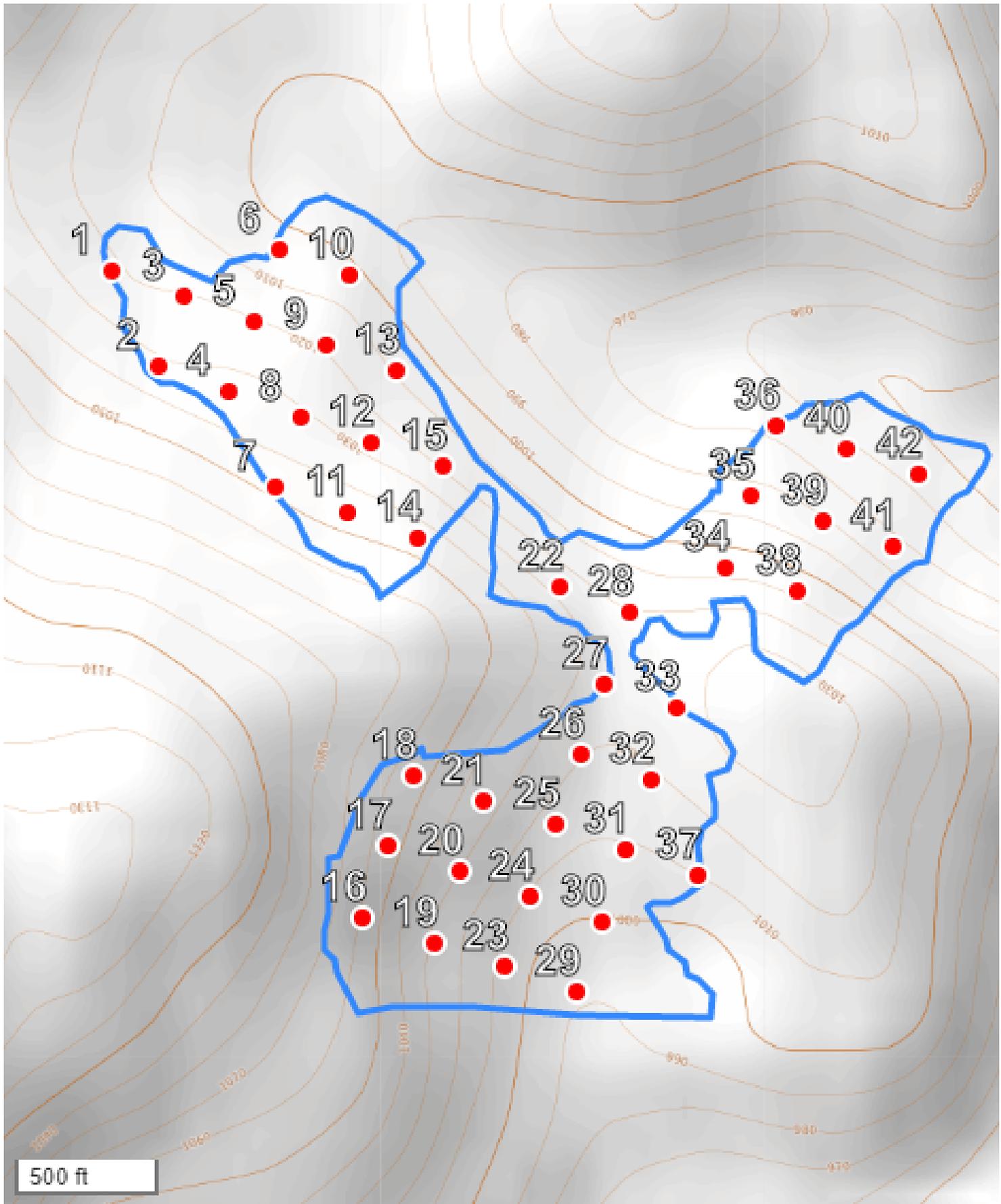
FMA Name: GIBRALTAR U1	N Plots: 18	Plot Spacing: 258.3 ft
Grid Name: GIBRALTAR U1 - 1	Acres Treated: 28.2	Main Azimuth: 27 deg



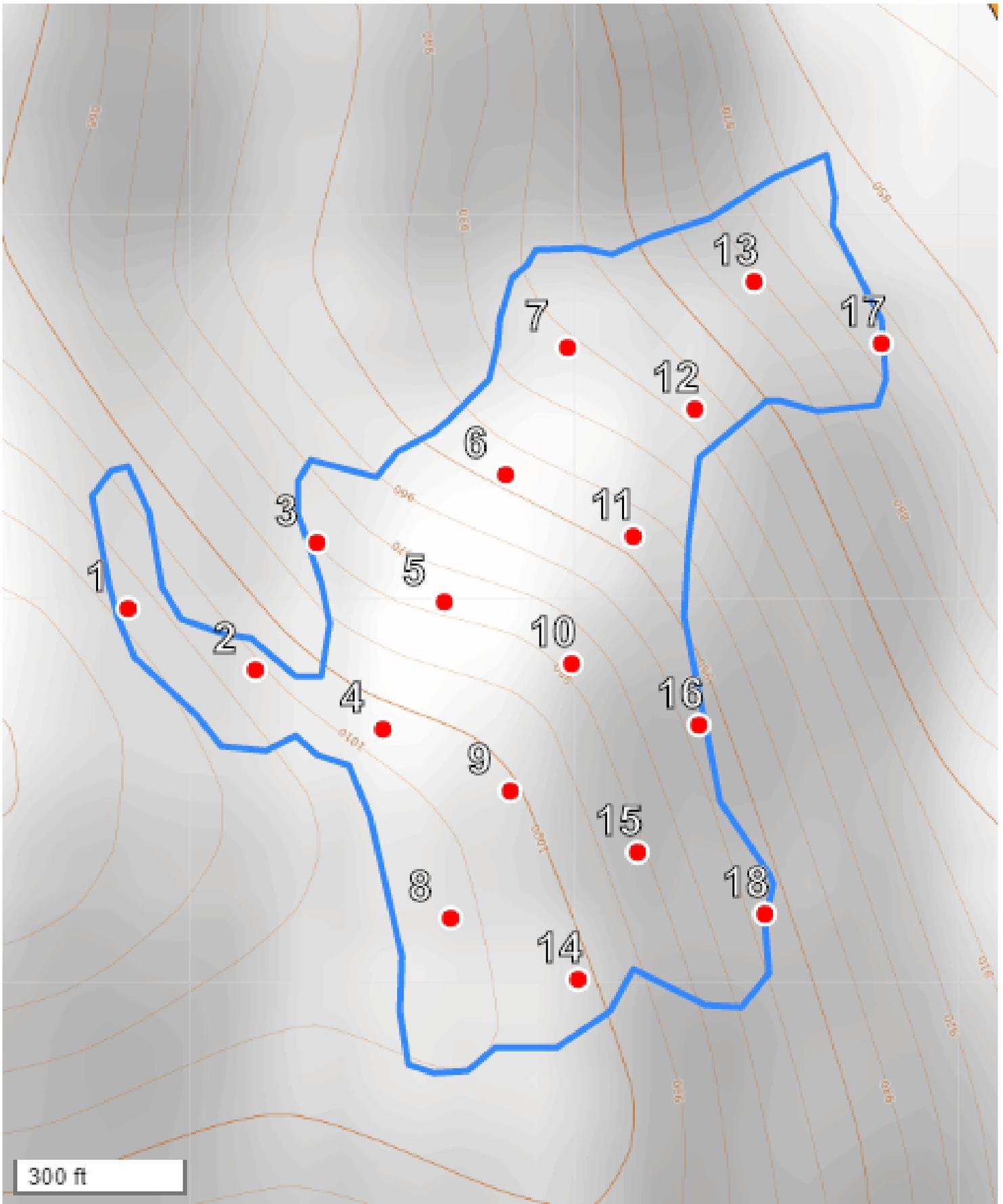
FMA Name: GIBALTAR U2	N Plots: 11	Plot Spacing: 235.3 ft
Grid Name: GIBALTAR U2 - 1	Acres Treated: 13	Main Azimuth: 18.7 deg



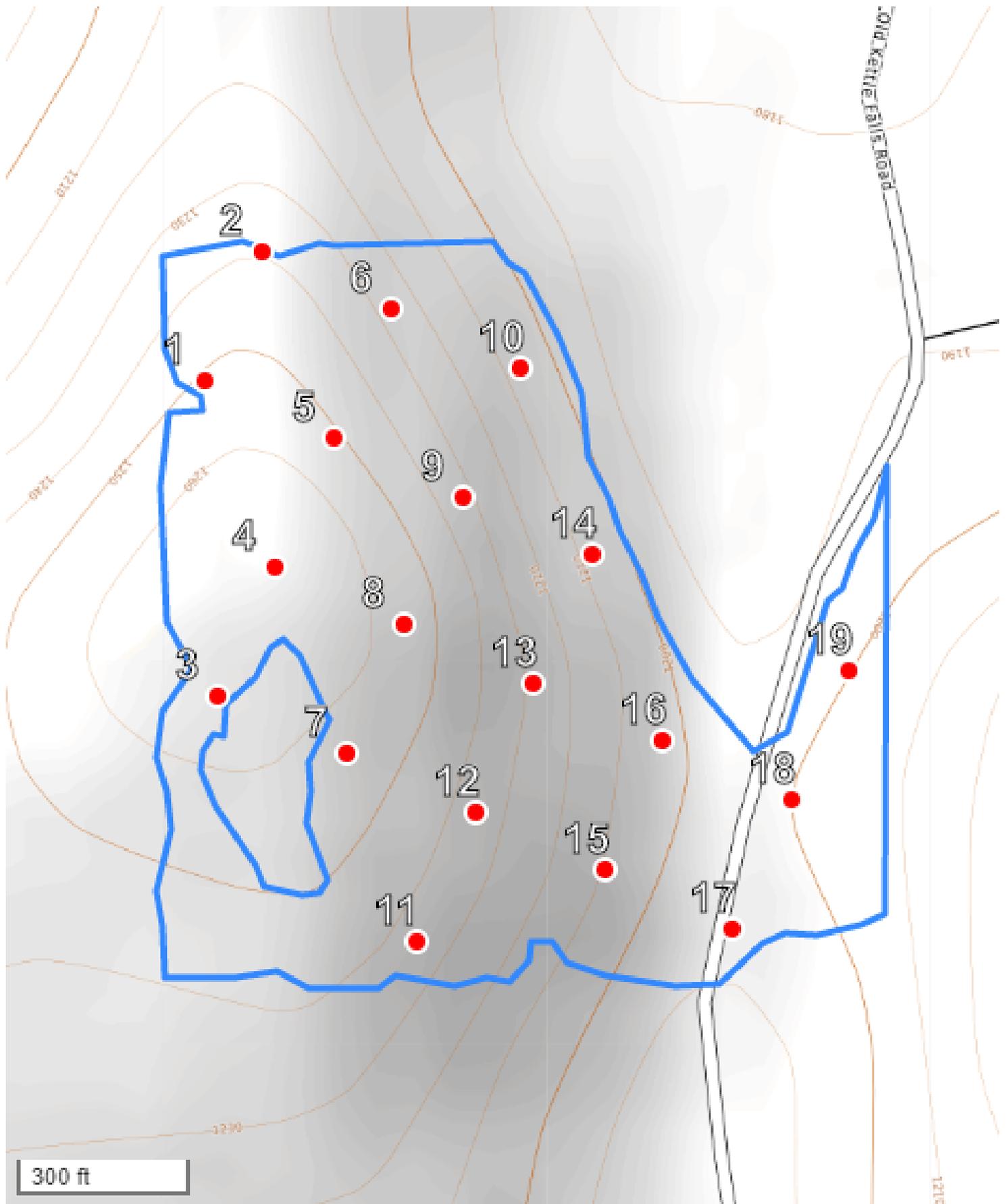
FMA Name: GIBRALTAR U3	N Plots: 34	Plot Spacing: 256.7 ft
Grid Name: GIBRALTAR U3 - 1	Acres Treated: 48.3	Main Azimuth: 17.5 deg



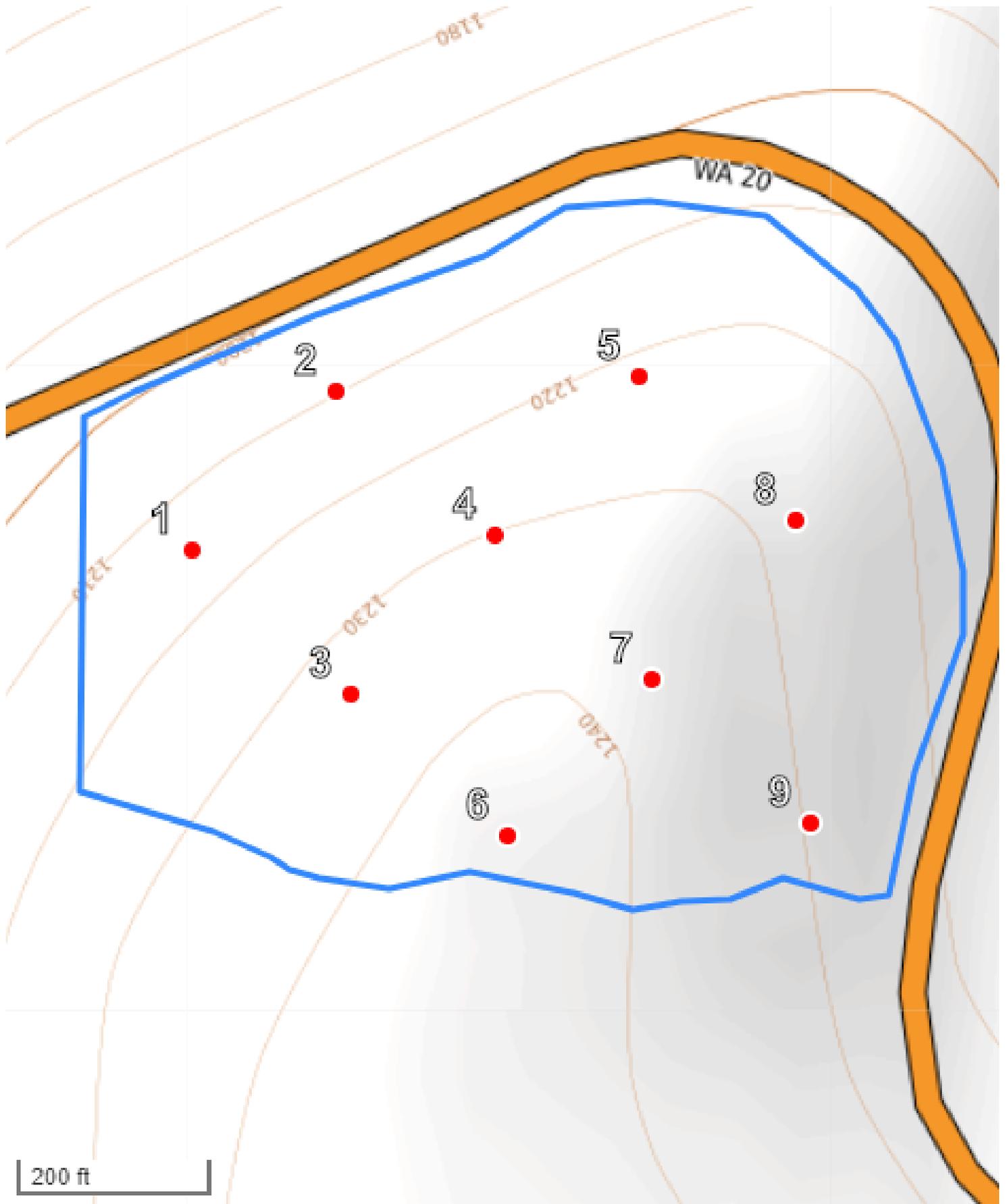
FMA Name: GIBALTAR U4	N Plots: 42	Plot Spacing: 259.4 ft
Grid Name: GIBALTAR U4 - 1	Acres Treated: 66.4	Main Azimuth: 19.4 deg



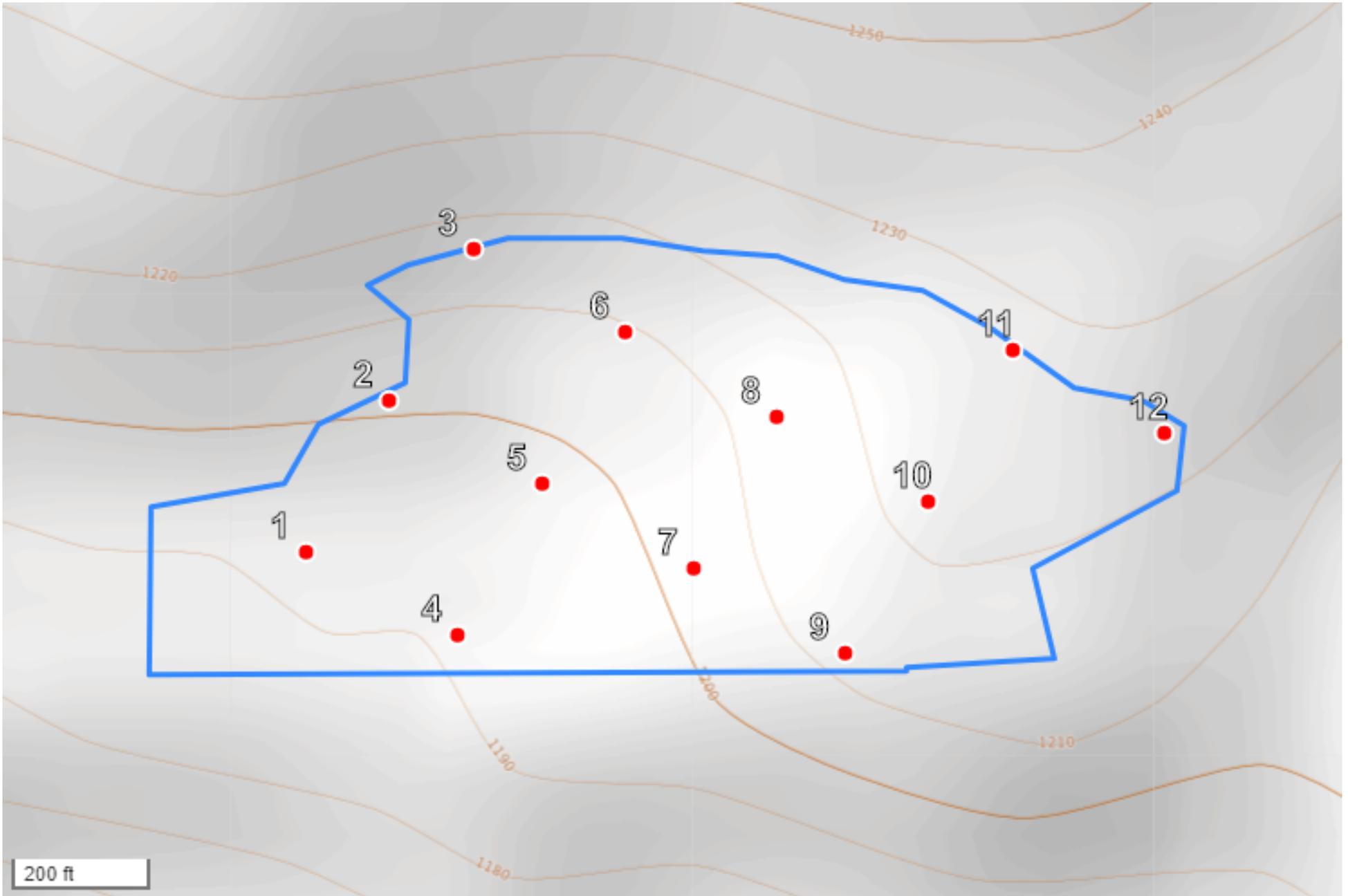
FMA Name: GIBALTAR U6	N Plots: 18	Plot Spacing: 243.4 ft
Grid Name: GIBALTAR U6 - 1	Acres Treated: 22	Main Azimuth: 25.6 deg



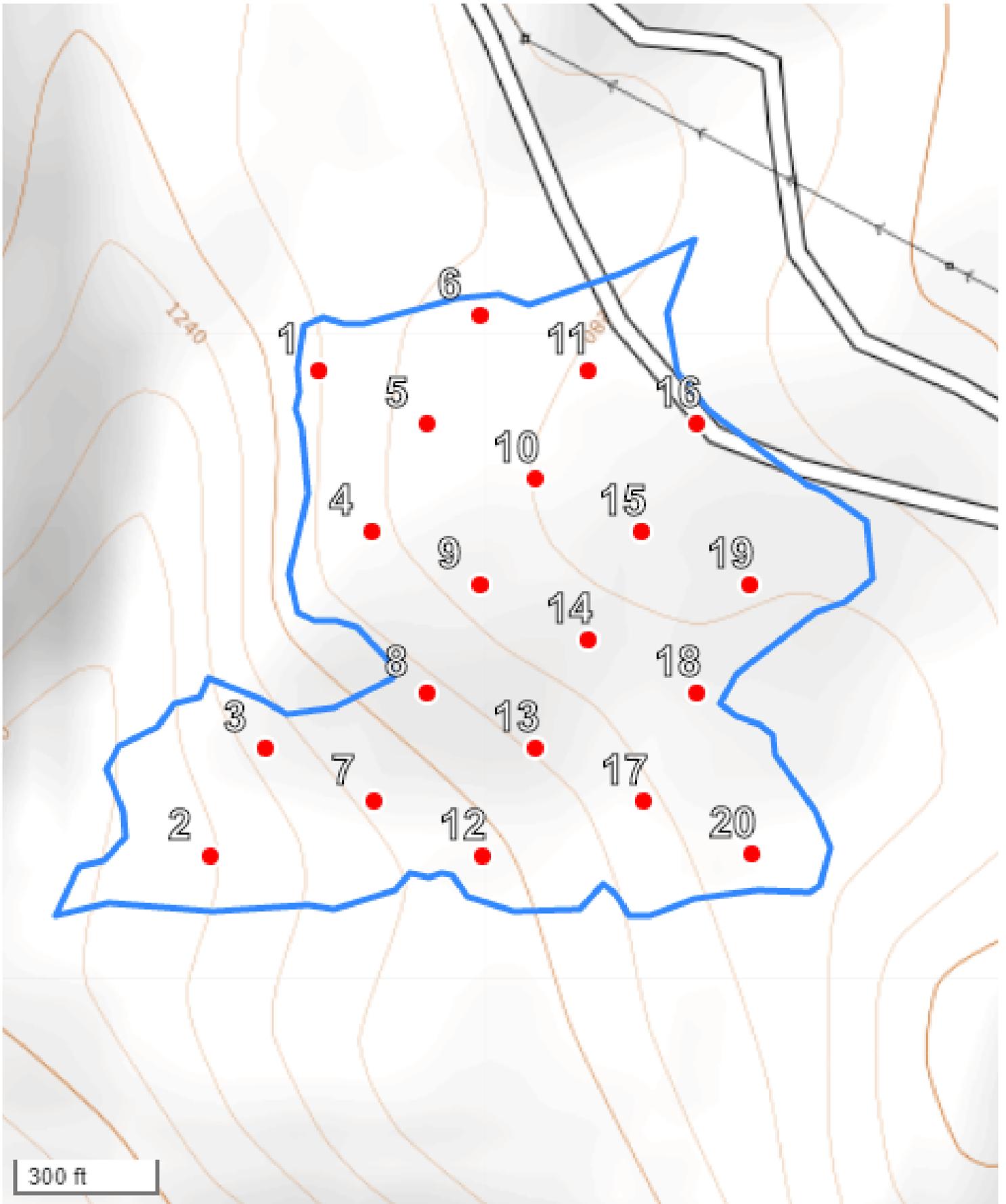
FMA Name: GIBALTAR U7	N Plots: 19	Plot Spacing: 244.4 ft
Grid Name: GIBALTAR U7 - 1	Acres Treated: 25.7	Main Azimuth: 24.2 deg



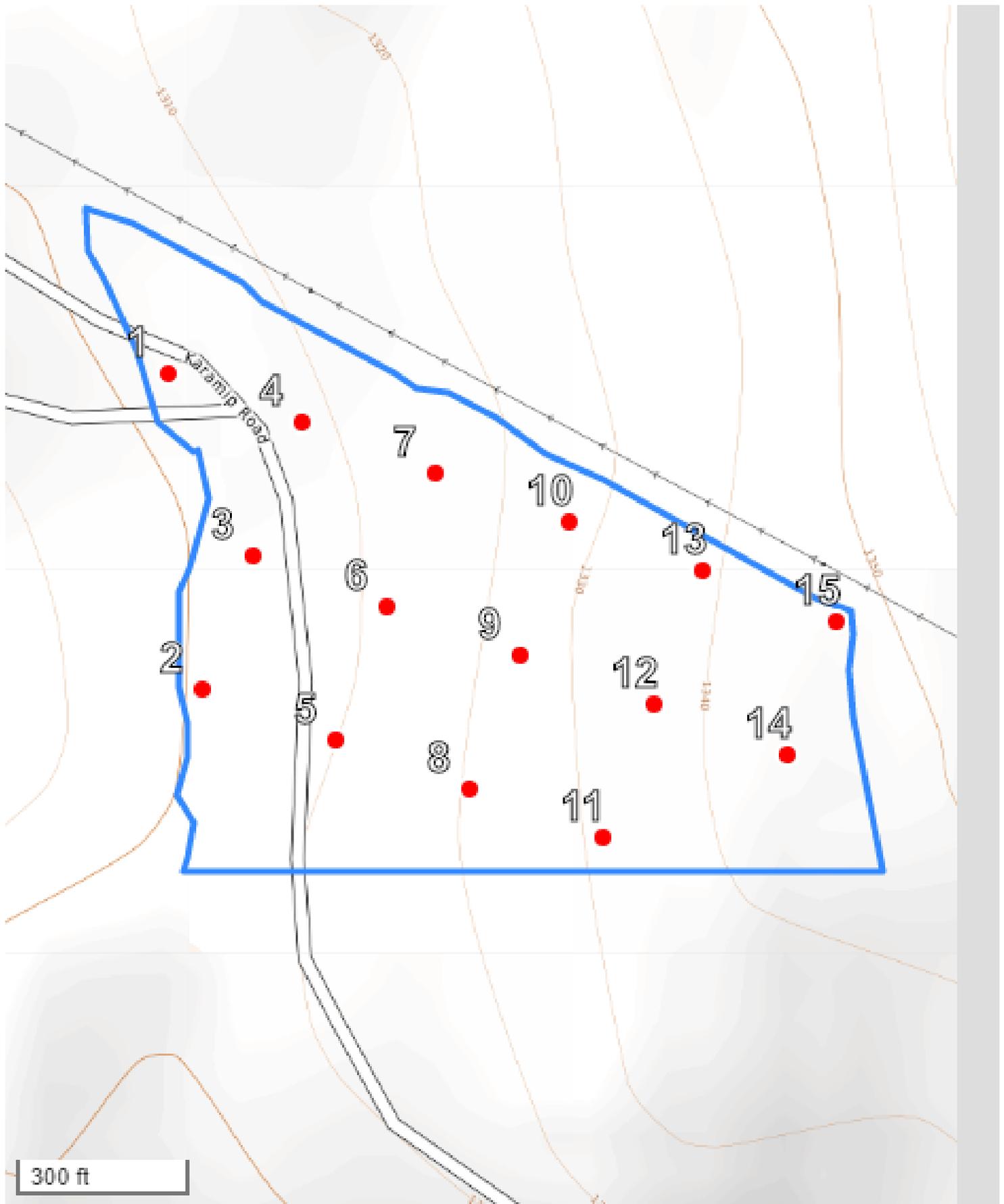
FMA Name: GIBRALTAR U8	N Plots: 9	Plot Spacing: 219.7 ft
Grid Name: GIBRALTAR U8 - 1	Acres Treated: 12	Main Azimuth: 42.3 deg



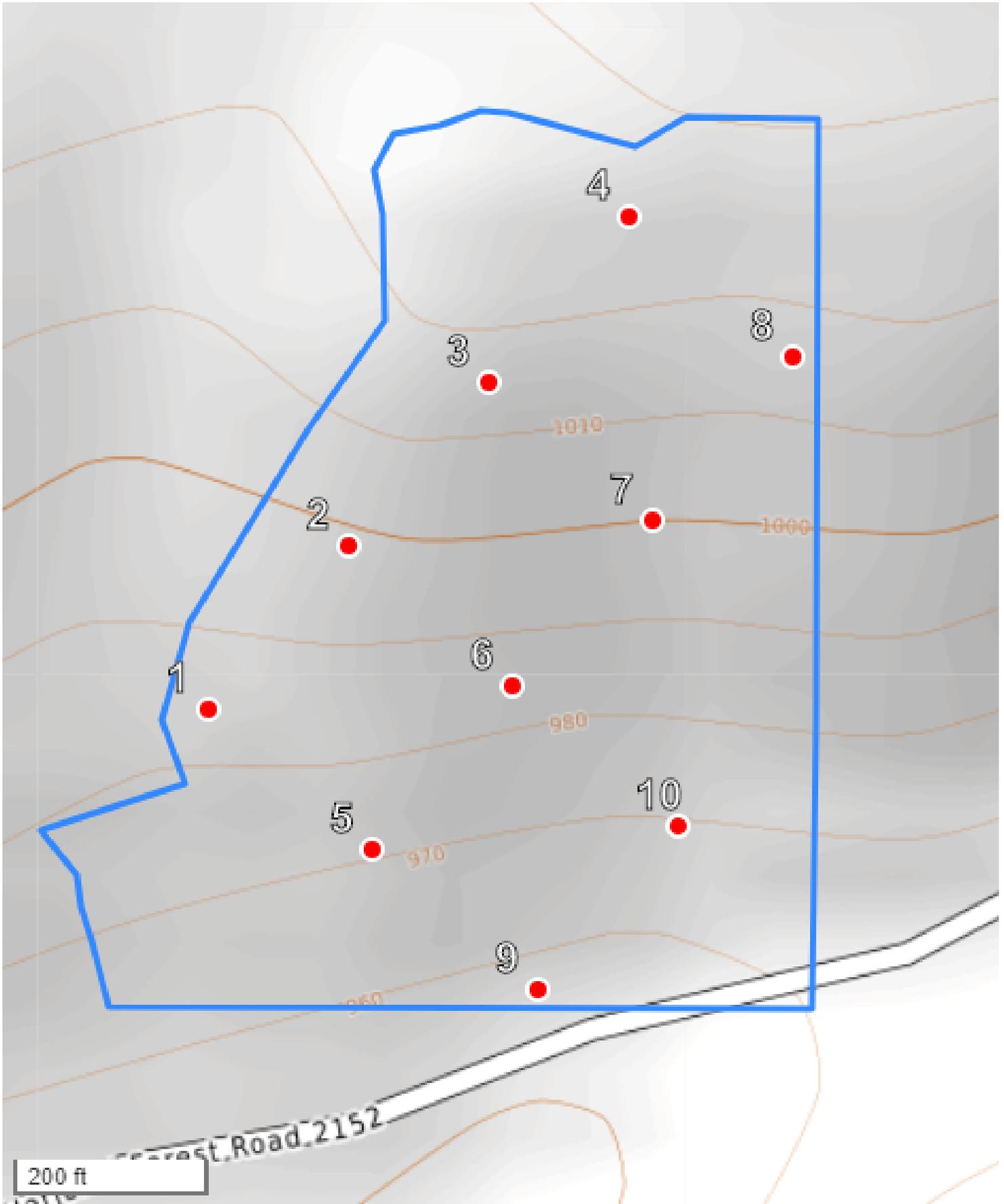
FMA Name: GIBALTAR U9	N Plots: 12	Plot Spacing: 248.7 ft
Grid Name: GIBALTAR U9 - 1	Acres Treated: 15.5	Main Azimuth: 29.1 deg



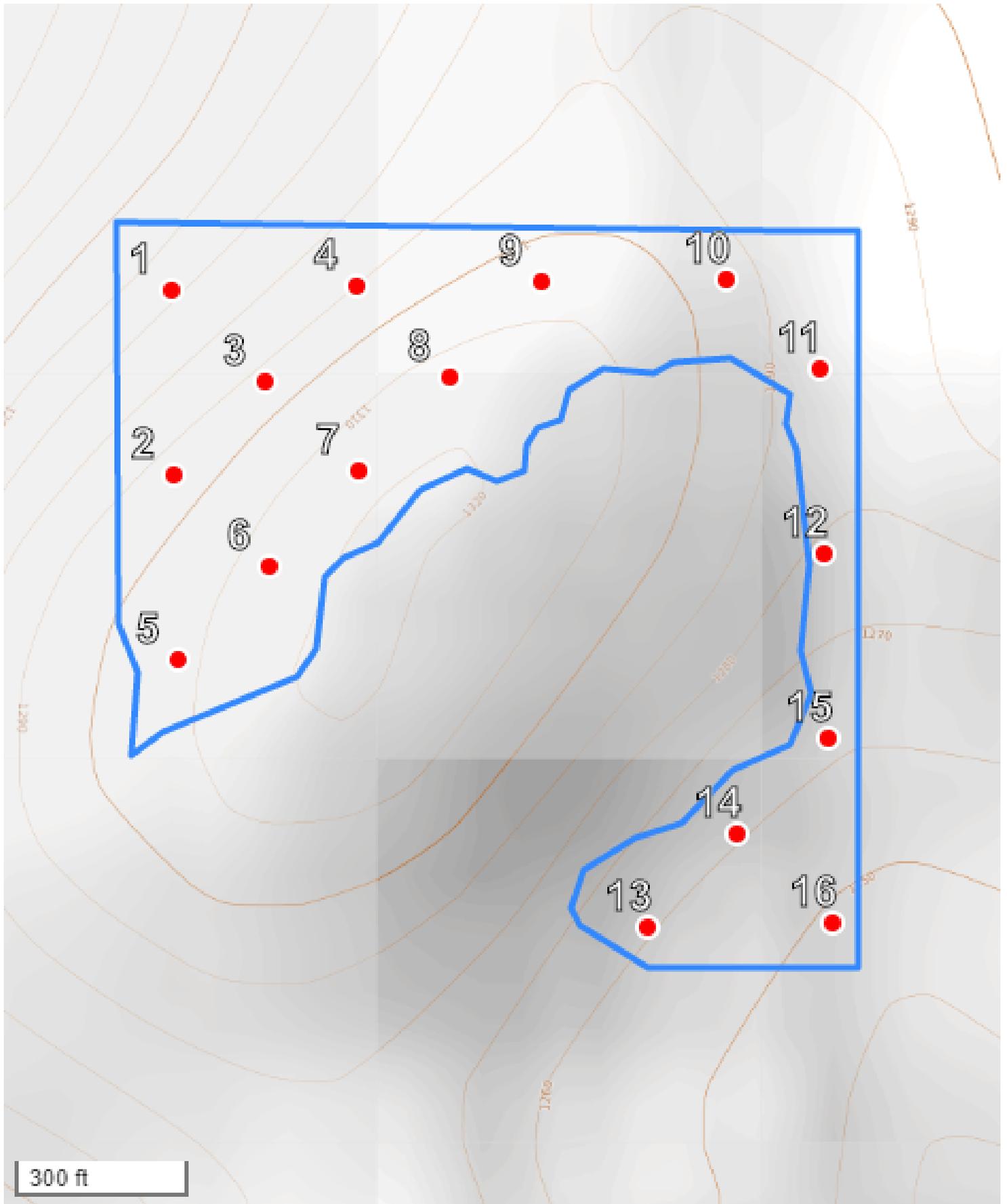
FMA Name: GIBALTAR U10	N Plots: 20	Plot Spacing: 247.5 ft
Grid Name: GIBALTAR U10 - 1	Acres Treated: 30	Main Azimuth: 26.4 deg



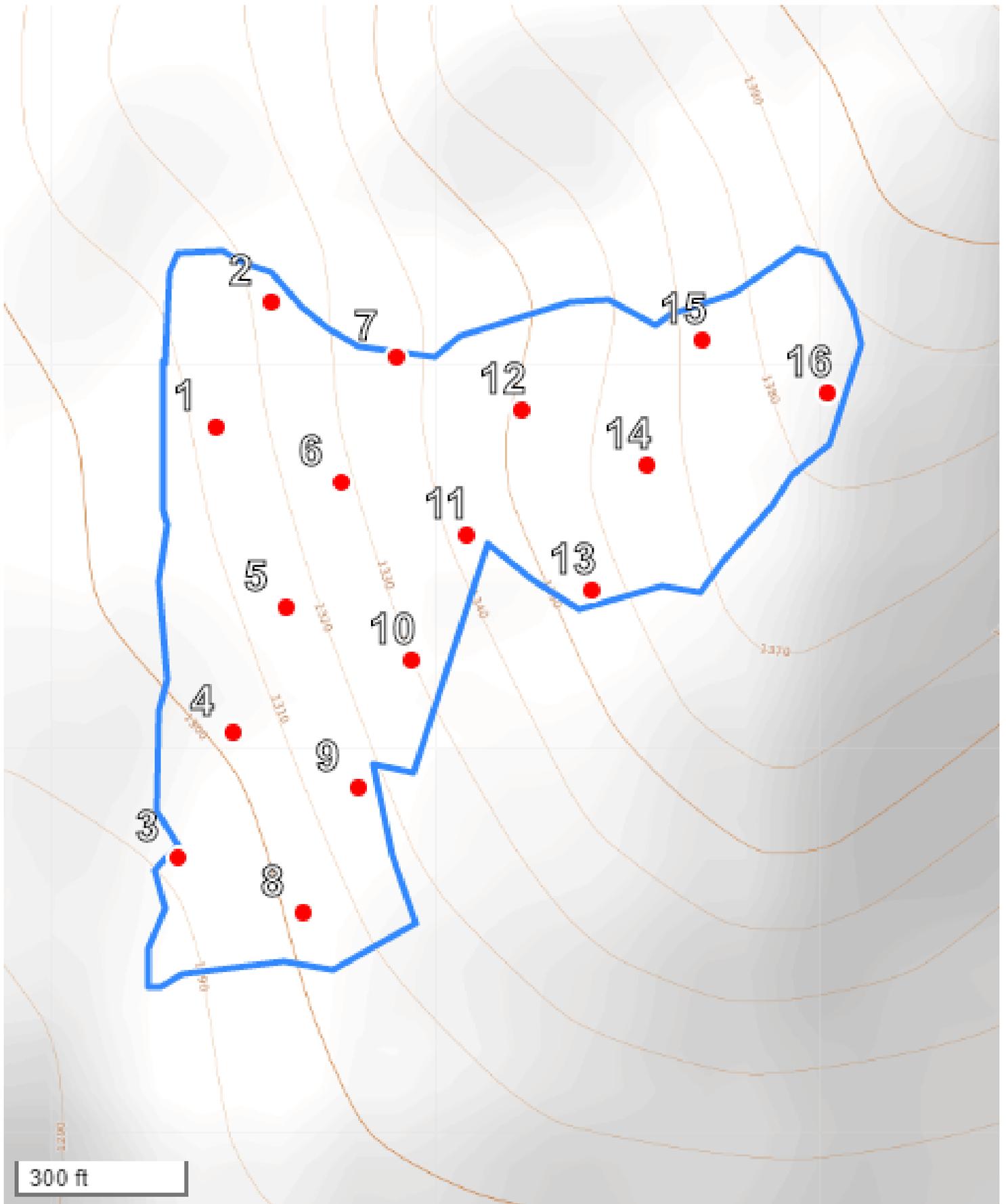
FMA Name: GIBRALTAR U11	N Plots: 15	Plot Spacing: 246 ft
Grid Name: GIBRALTAR U11 - 1	Acres Treated: 20	Main Azimuth: 20.3 deg



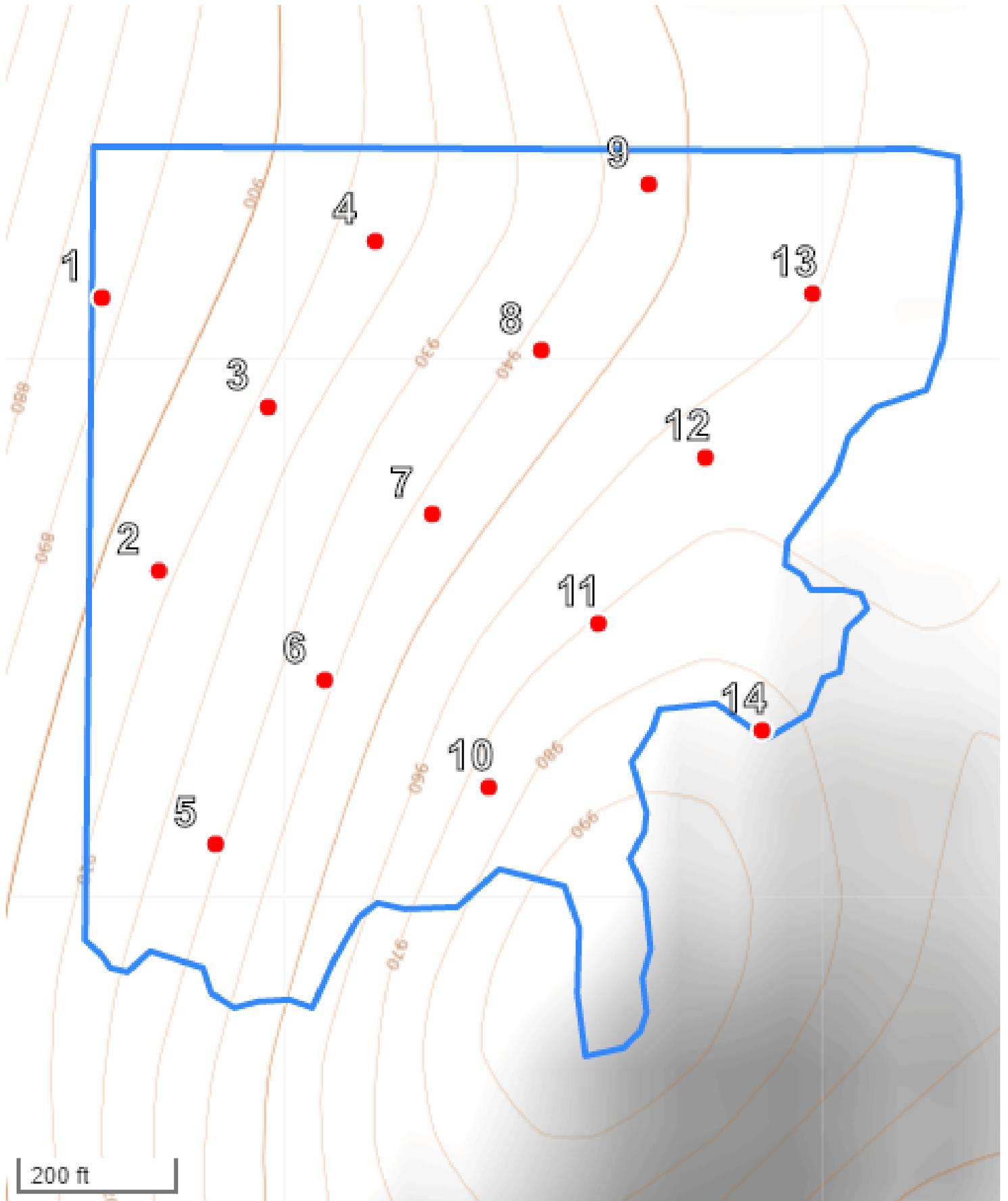
FMA Name: GIBALTAR U12	N Plots: 10	Plot Spacing: 220.8 ft
Grid Name: GIBALTAR U12 - 1	Acres Treated: 12	Main Azimuth: 40.5 deg



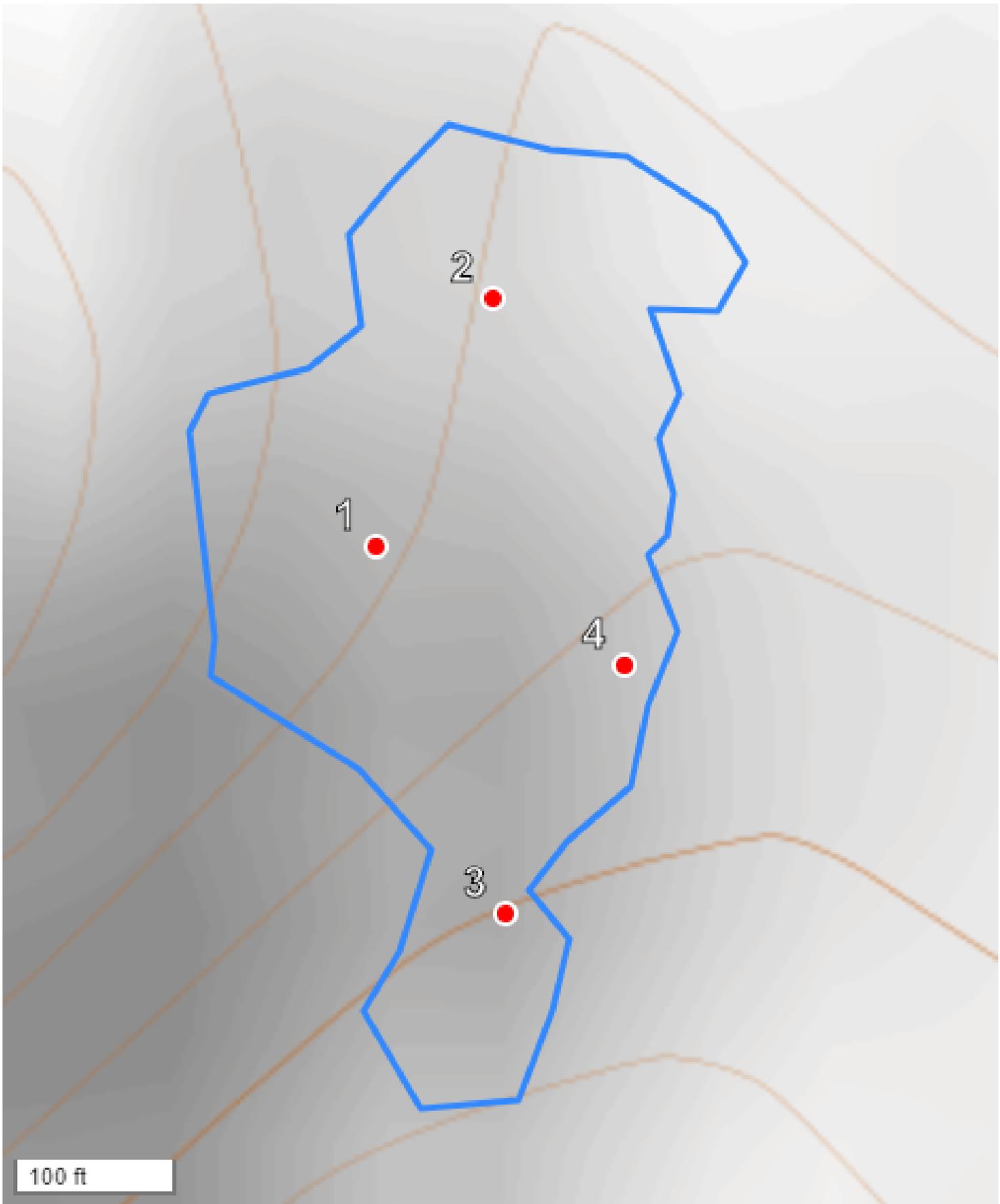
FMA Name: GIBALTAR U13	N Plots: 16	Plot Spacing: 225 ft
Grid Name: GIBALTAR U13 - 1	Acres Treated: 18.7	Main Azimuth: 43.8 deg



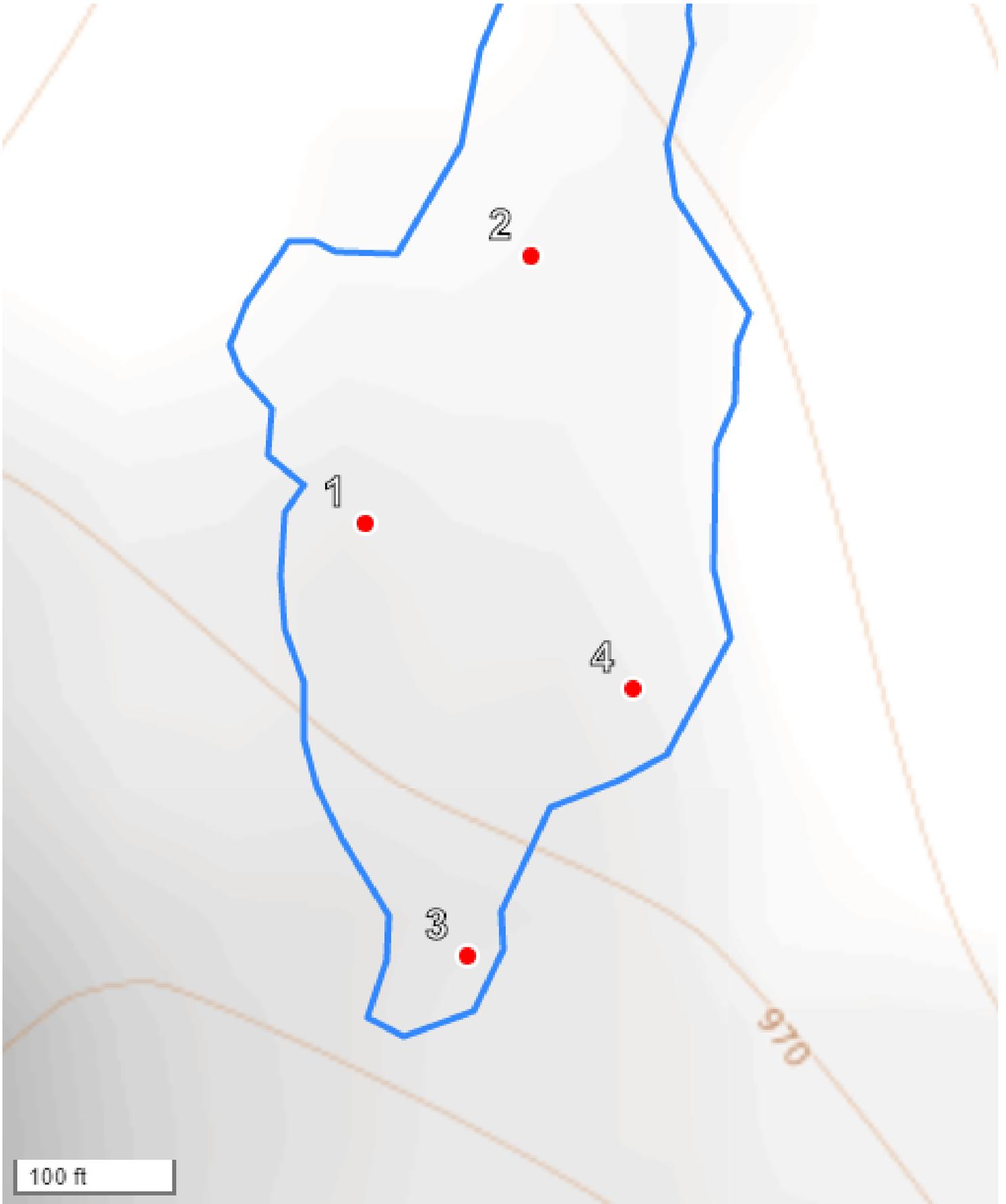
FMA Name: GIBALTAR U14	N Plots: 16	Plot Spacing: 235.4 ft
Grid Name: GIBALTAR U14 - 1	Acres Treated: 19	Main Azimuth: 23.5 deg



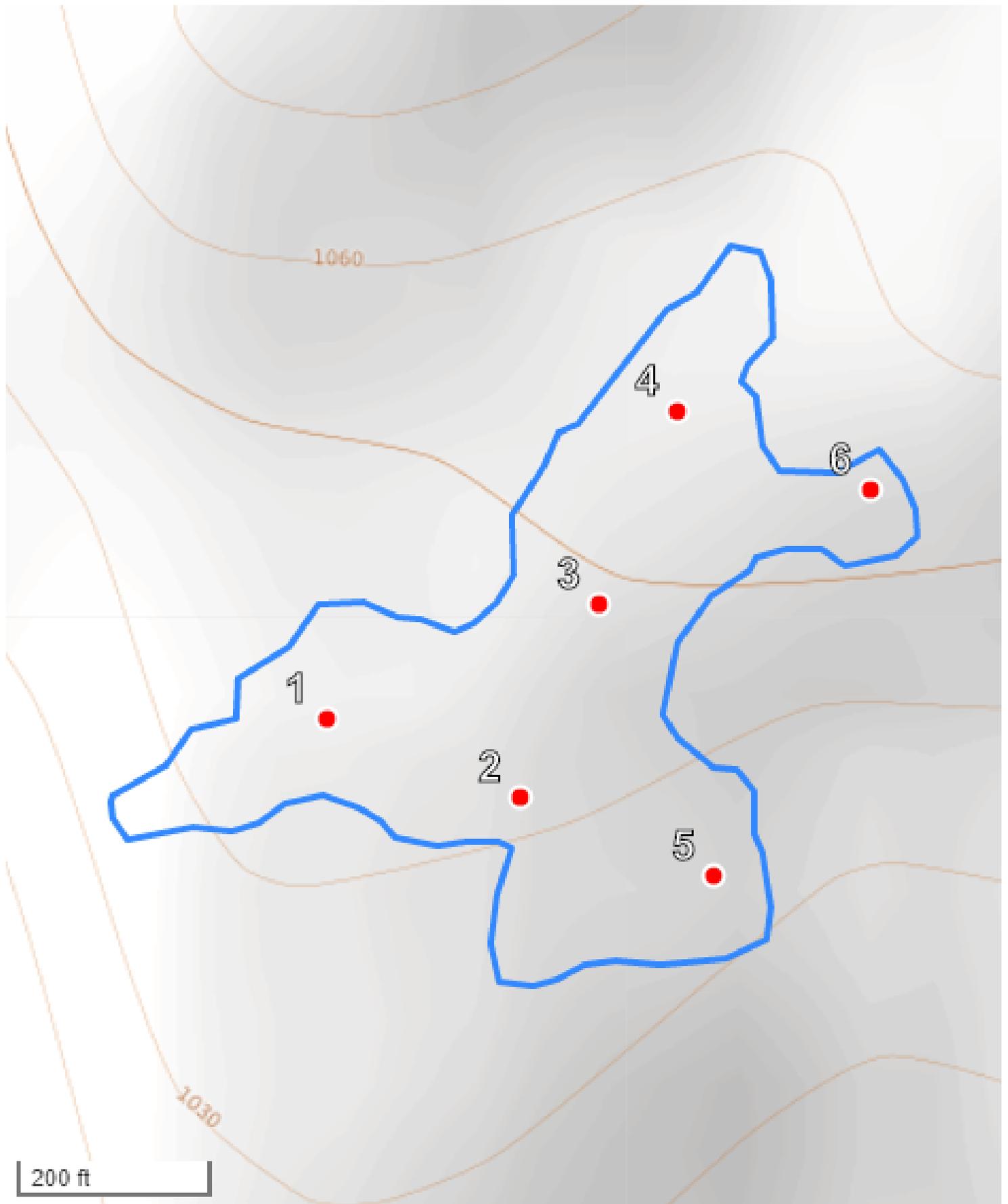
FMA Name: GIBALTAR U15	N Plots: 14	Plot Spacing: 242.2 ft
Grid Name: GIBALTAR U15 - 1	Acres Treated: 20.26	Main Azimuth: 33.2 deg



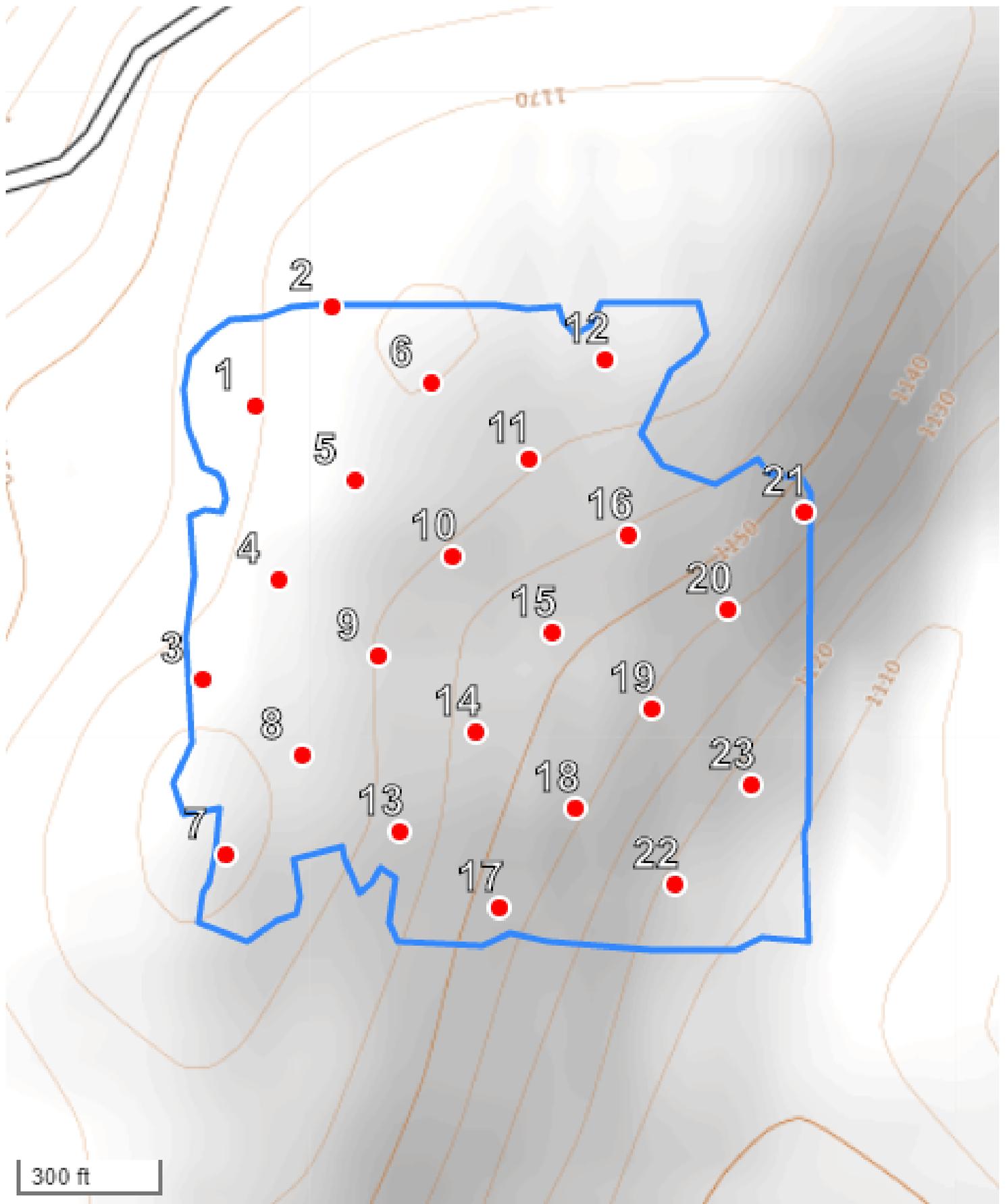
FMA Name: GIBRALTAR U16	N Plots: 4	Plot Spacing: 167.6 ft
Grid Name: GIBRALTAR U16 - 1	Acres Treated: 3	Main Azimuth: 25.5 deg



FMA Name: GIBRALTAR U17	N Plots: 4	Plot Spacing: 191.5 ft
Grid Name: GIBRALTAR U17 - 1	Acres Treated: 3	Main Azimuth: 31.8 deg



FMA Name: GIBALTAR U18	N Plots: 6	Plot Spacing: 213.5 ft
Grid Name: GIBALTAR U18 - 1	Acres Treated: 5	Main Azimuth: 22.2 deg



FMA Name: GIBALTAR U19	N Plots: 23	Plot Spacing: 256 ft
Grid Name: GIBALTAR U19 - 1	Acres Treated: 31.7	Main Azimuth: 37.5 deg



Forest Practices Application/Notification
Notice of Decision

FPA/N No: 3024181
Effective Date: 5/20/20
Expiration Date: 5/20/23
Shut Down Zone 678 E
EARR Tax Credit: Eligible Non-eligible
Reference: DNR-Q Gibraltar

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.
- Closed Applicant has withdrawn the FPA/N.

FPA/N Classification

Class II Class III Class IVG Class IVS

Number of Years Granted on Multi-Year Request

4 years 5 years

Conditions on Approval/Reasons for Disapproval

Without conditions.

Issued By: Kyle Buckmiller Region: Northeast

Title: Forest Practices Forester Date: 5/20/20

Copies to: Landowner, Timber Owner and Operator

Issued in person: Landowner Timber Owner Operator By: _____

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
<u>Physical Address</u> 1111 Israel Road, SW Suite 301 Tumwater, WA 98501 <u>Mailing address</u> Post Office Box 40903 Olympia, WA 98504-0903	<u>Physical Address</u> 1125 Washington Street, SE Olympia, WA 98504 <u>Mailing Address</u> Post Office Box 40100 Olympia, WA 98504-0100	NE Region 225 S 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: <http://www.dnr.wa.gov/businesspermits/forestpractices>. 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 _____, I placed in the United States mail at Colville, WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA #3024181/N No.

(Printed Name)

(Signature)

Washington State Department of Natural Resources

Q Gibraltar Timber Sale

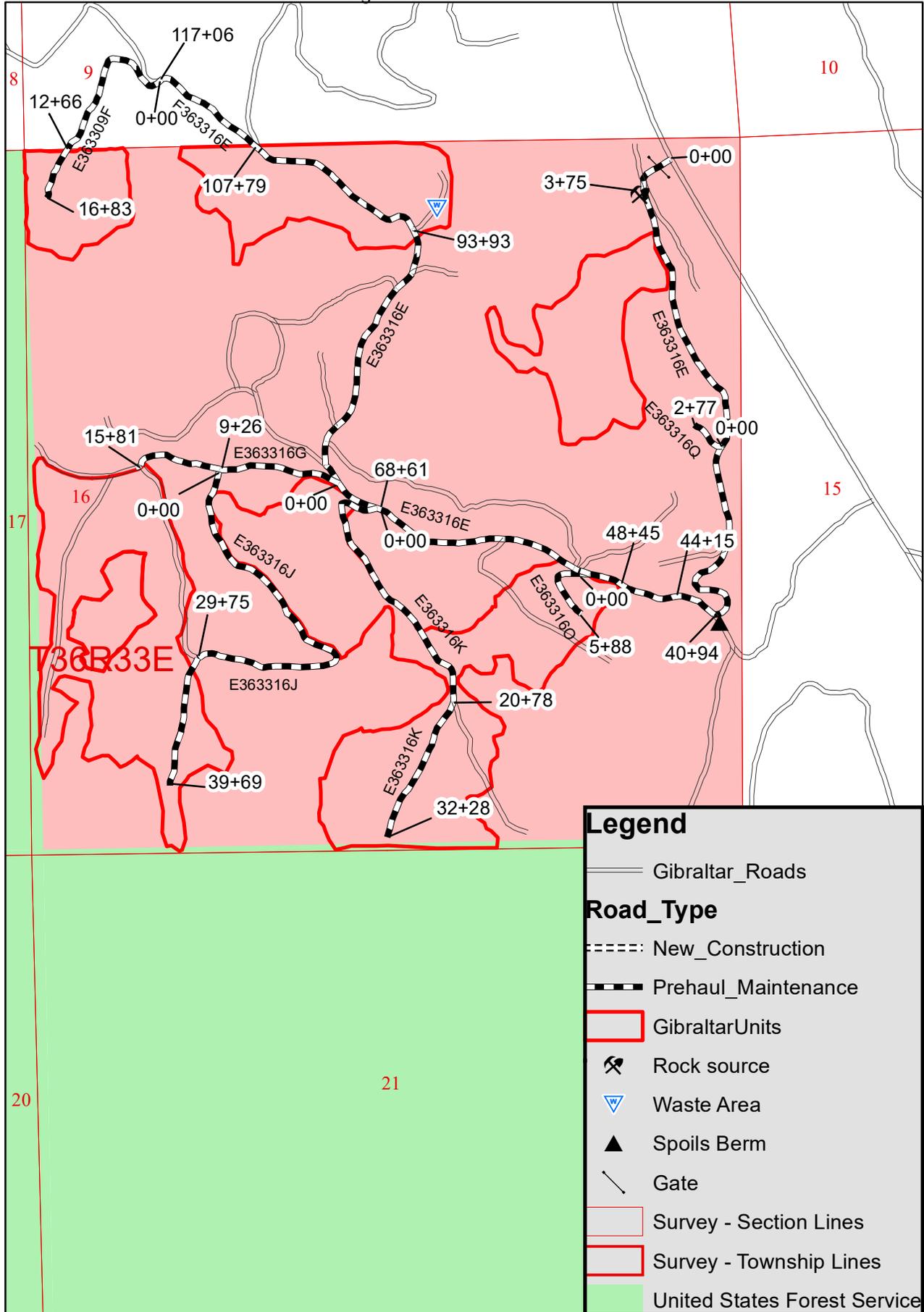
Region: Northeast

County: Ferry

Map #1

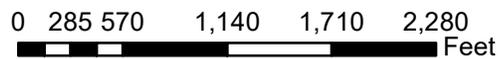
Trust: 03

Agreement No: 30-100480



Legend

- Gibraltar_Roads
- Road_Type**
 - New_Construction
 - Prehaul_Maintenance
- GibraltarUnits
- Rock source
- Waste Area
- Spoils Berm
- Gate
- Survey - Section Lines
- Survey - Township Lines
- United States Forest Service



Washington State Department of Natural Resources

Map #2

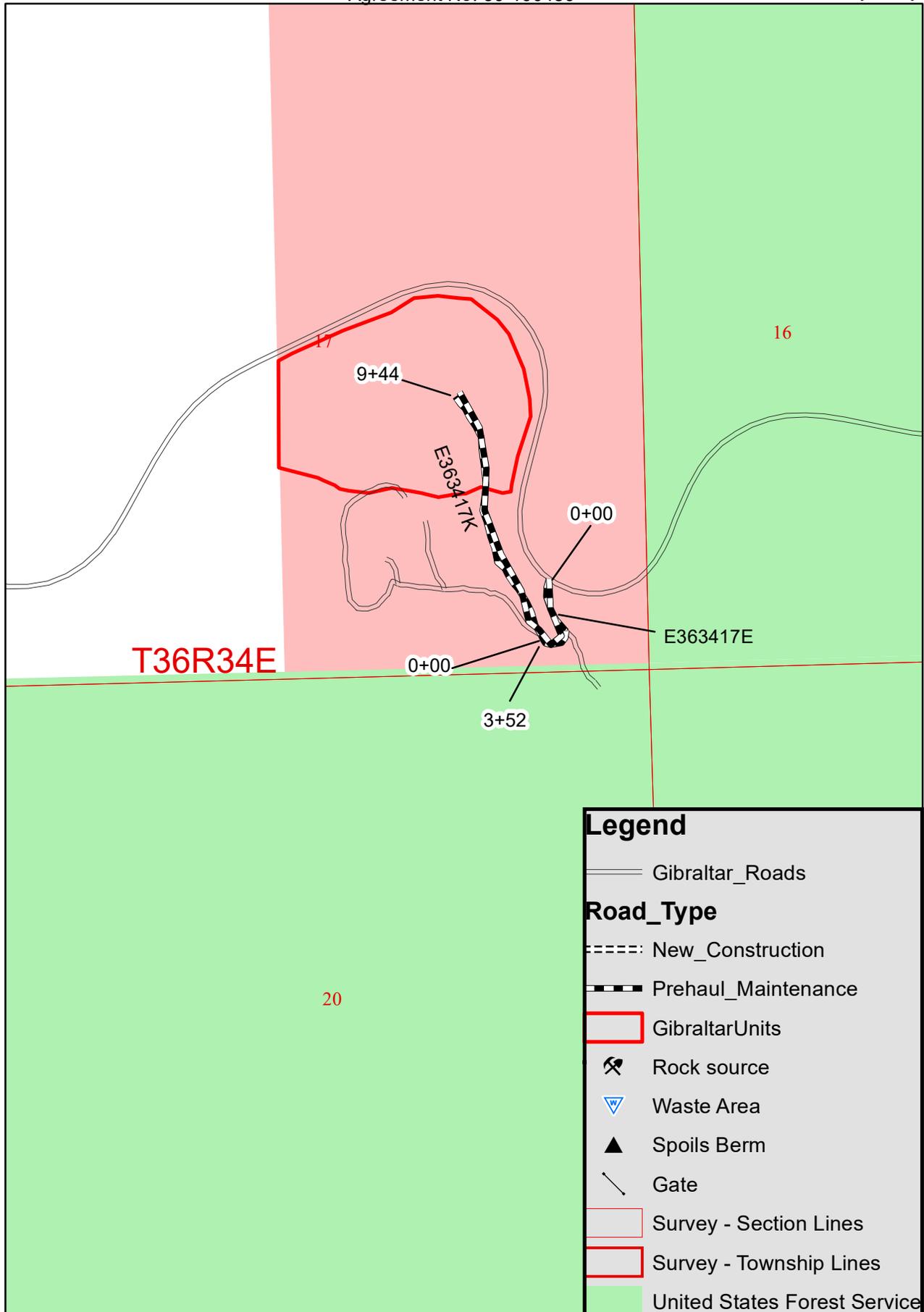
Q Gibraltar Timber Sale

Region:Northeast

Trust: 03

Agreement No: 30-100480

County:Ferry



0 137.5275 550 825 1,100 Feet

Washington State Department of Natural Resources

Q Gibraltar Timber Sale

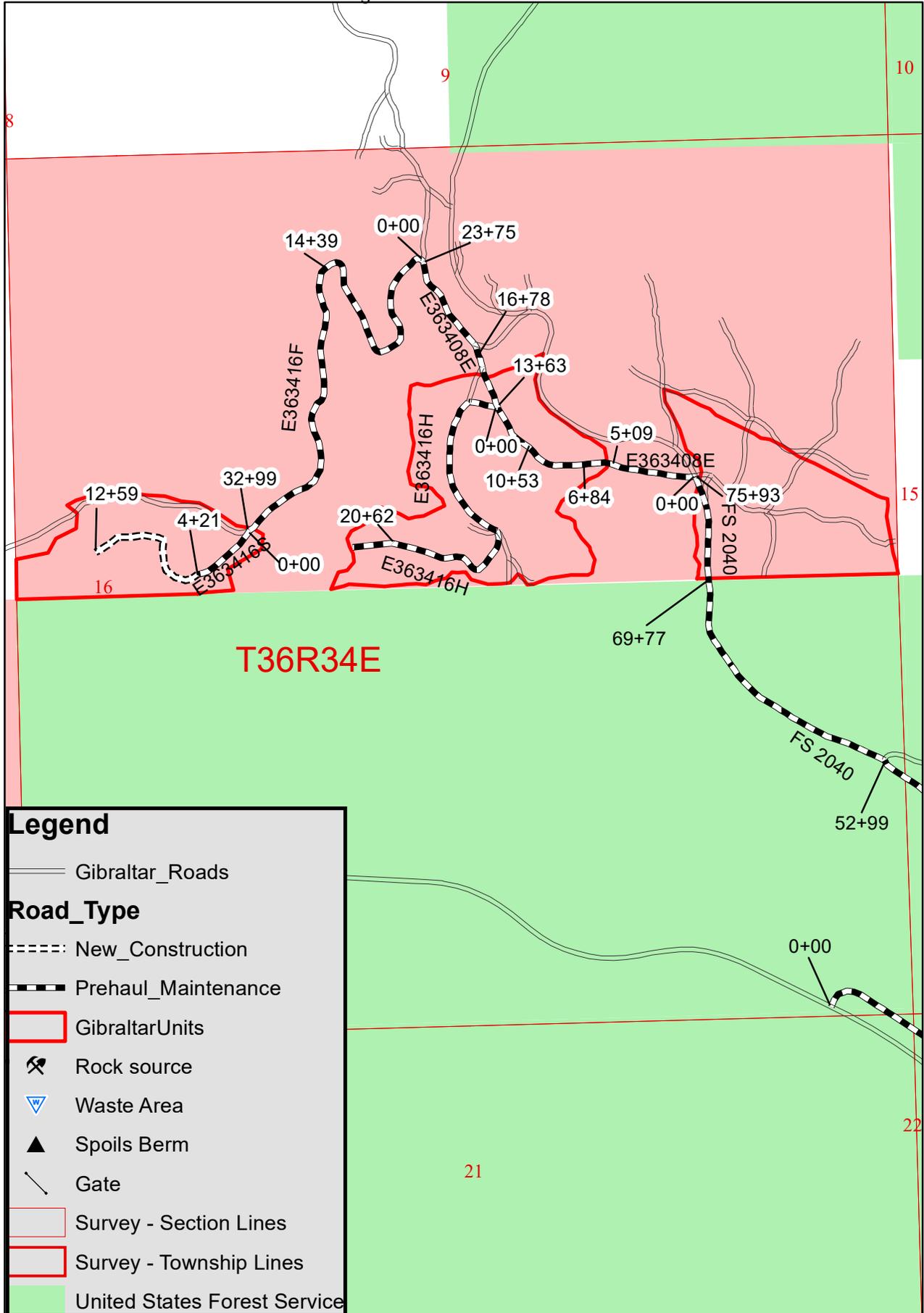
Region: Northeast

County: Ferry

Map #3

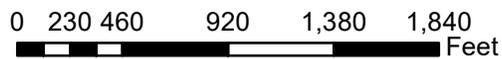
Agreement No: 30-100480

Trust: 03



Legend

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Washington State Department of Natural Resources

Q Gibraltar Timber Sale

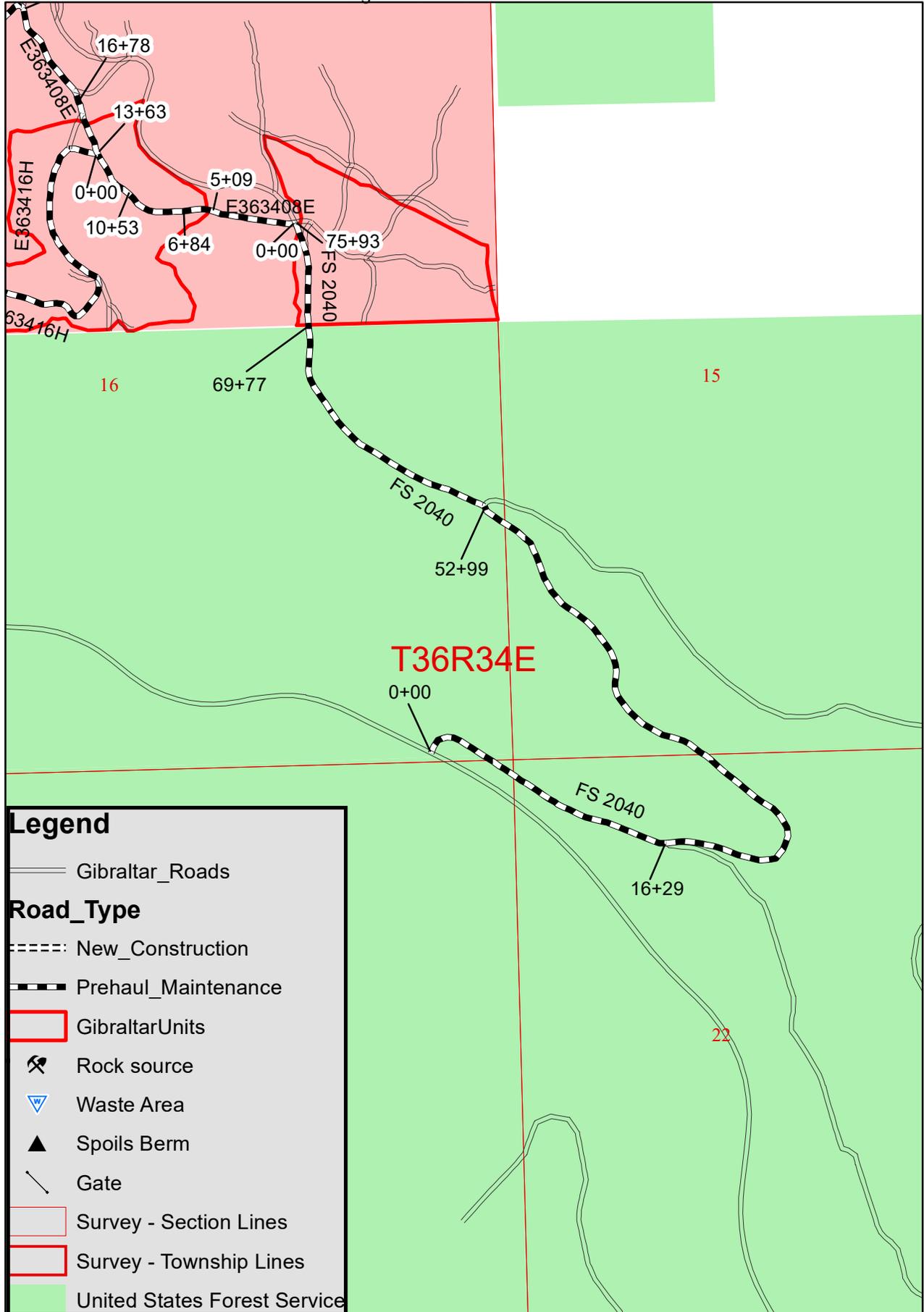
Region:Northeast

Map #4

Agreement No: 30-100480

County:Ferry

Trust: 03



Legend

- Gibraltar_Roads
- Road_Type**
- New_Construction
- Prehaul_Maintenance
- ▭ GibraltarUnits
- ⚡ Rock source
- ▽ Waste Area
- ▲ Spoils Berm
- ↘ Gate
- ▭ Survey - Section Lines
- ▭ Survey - Township Lines
- ▭ United States Forest Service

0 230 460 920 1,380 1,840 Feet

Washington State Department of Natural Resources

Q Gibraltar Timber Sale

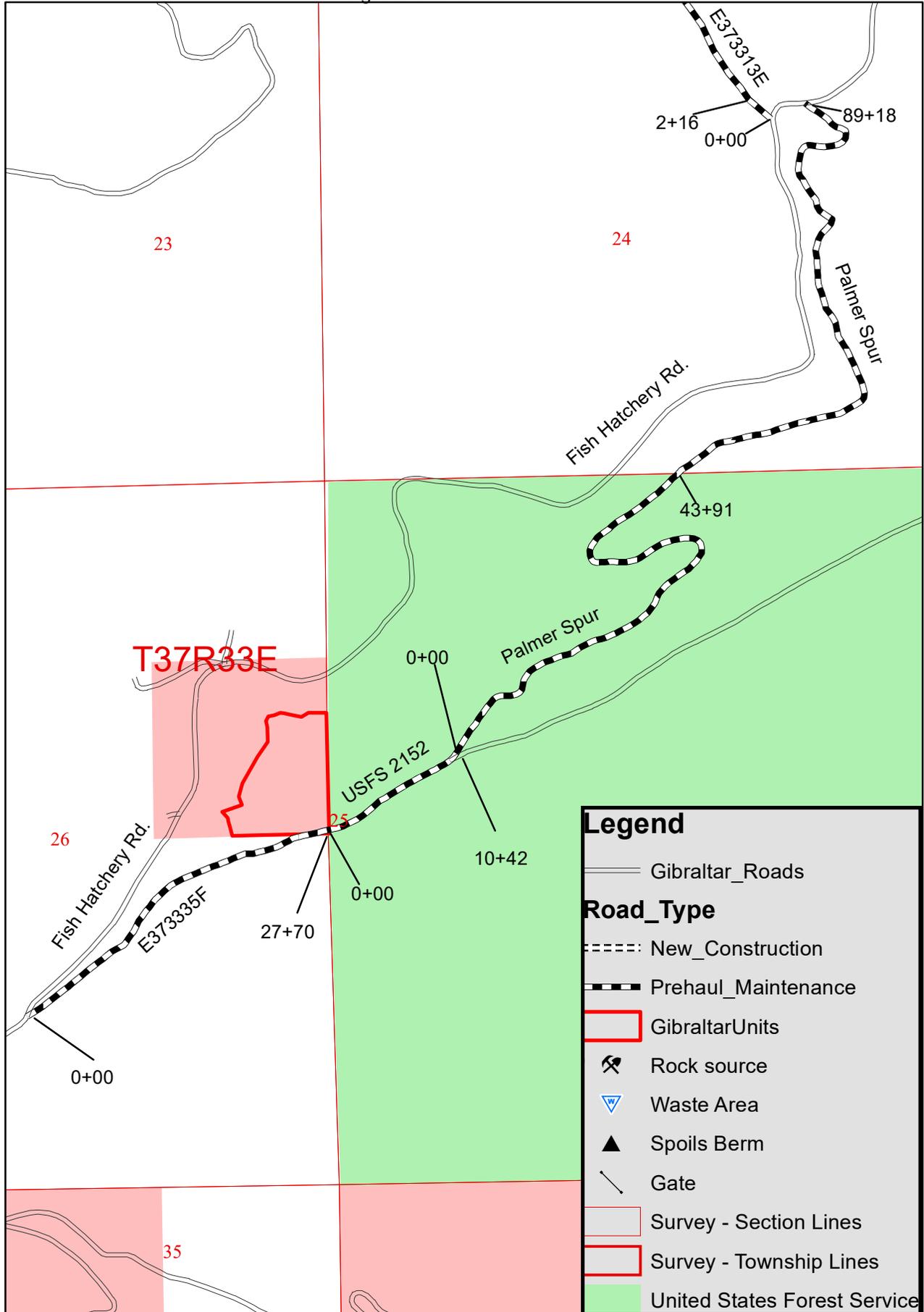
Region: Northeast

County: Ferry

Map #5

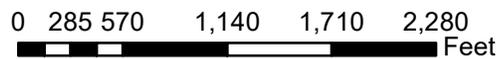
Trust: 03

Agreement No: 30-100480



Legend

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Washington State Department of Natural Resources

Q Gibraltar Timber Sale

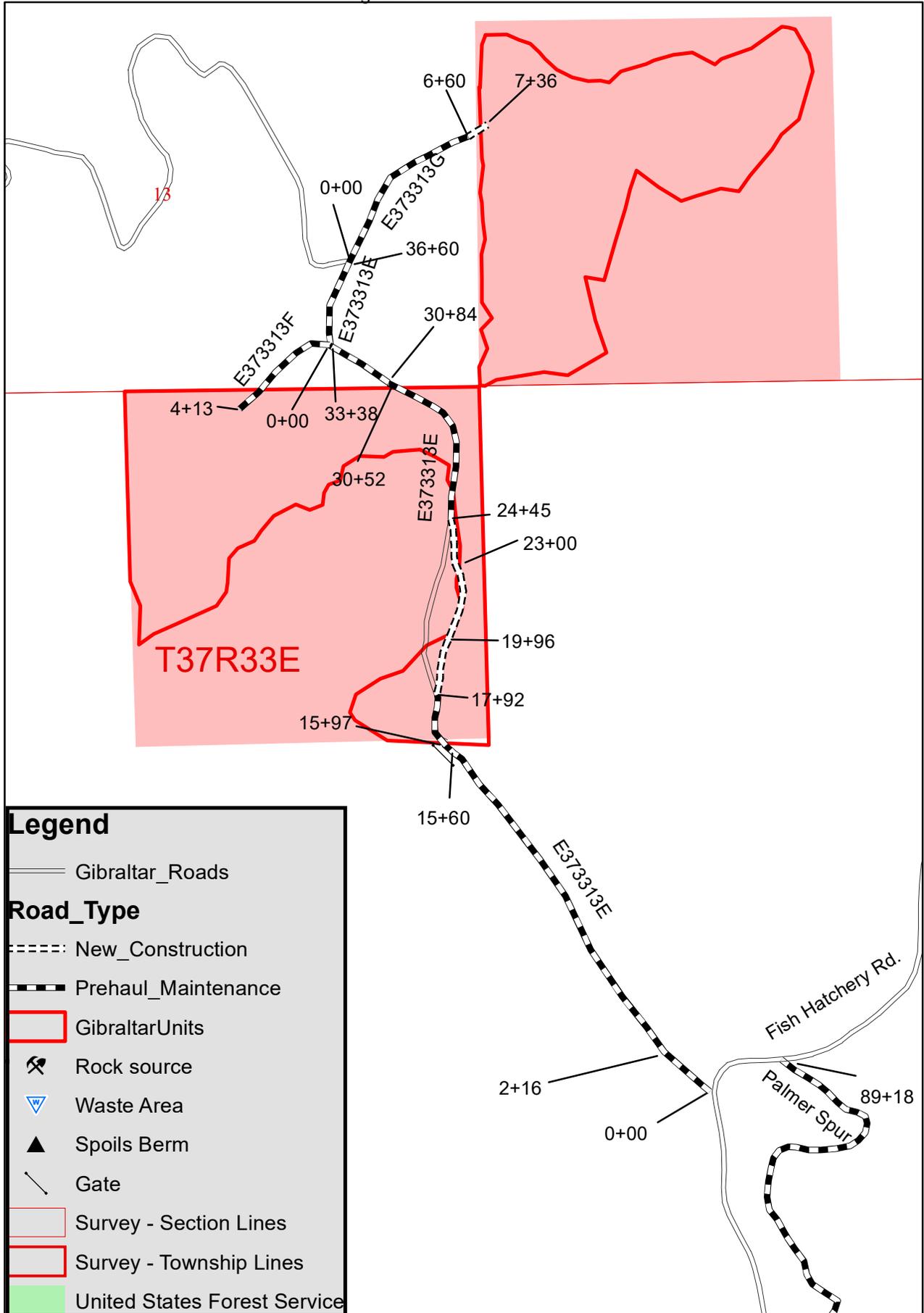
Region:Northeast

Map #6

Agreement No: 30-100480

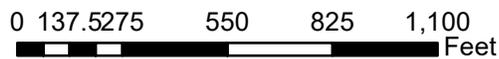
County:Ferry

Trust: 03



Legend

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- Rock source
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- Gate
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- Survey - Township Lines
- United States Forest Service



Washington State Department of Natural Resources

Map #7

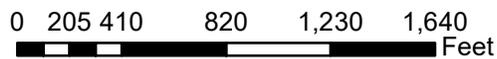
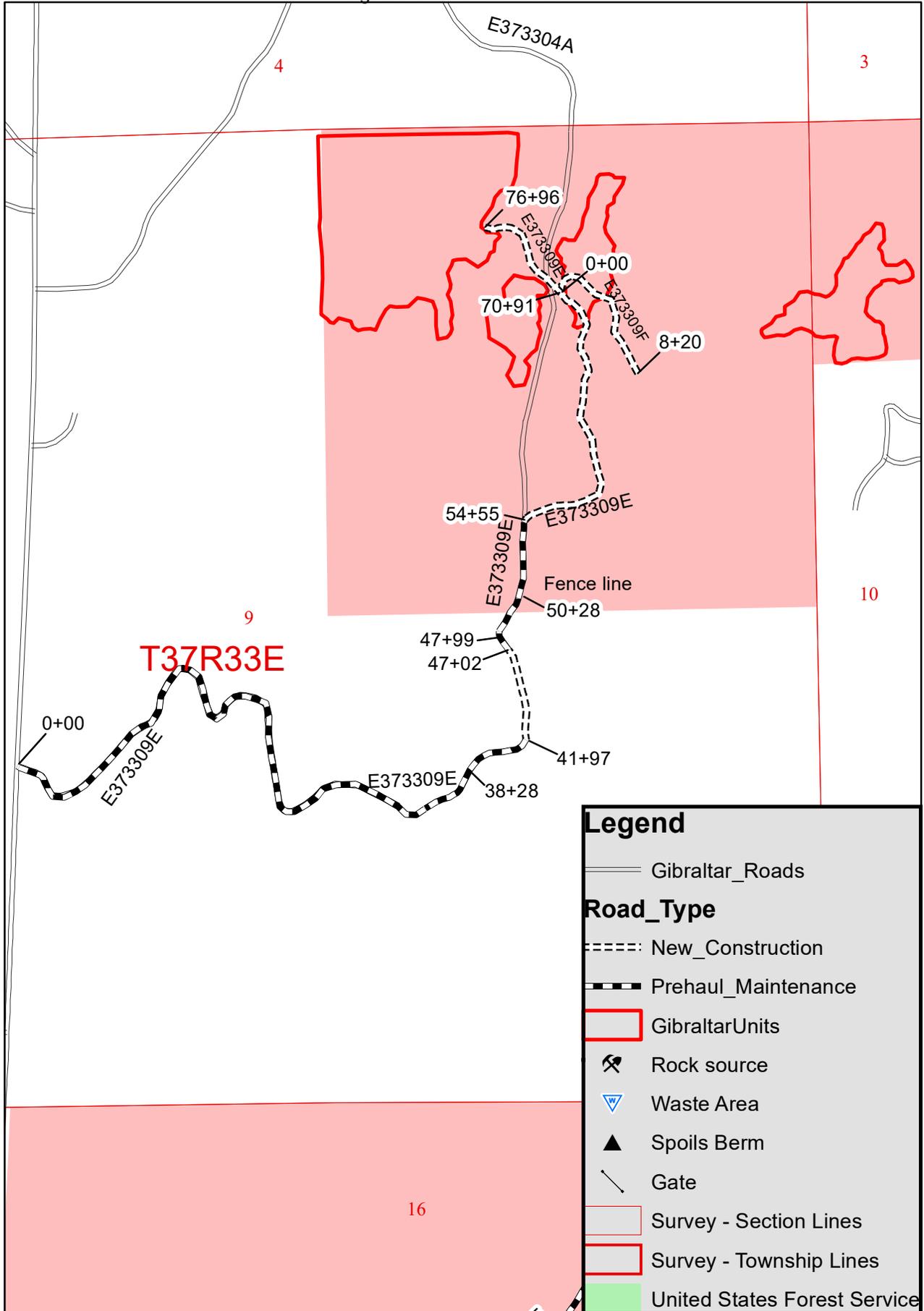
Q Gibraltar Timber Sale

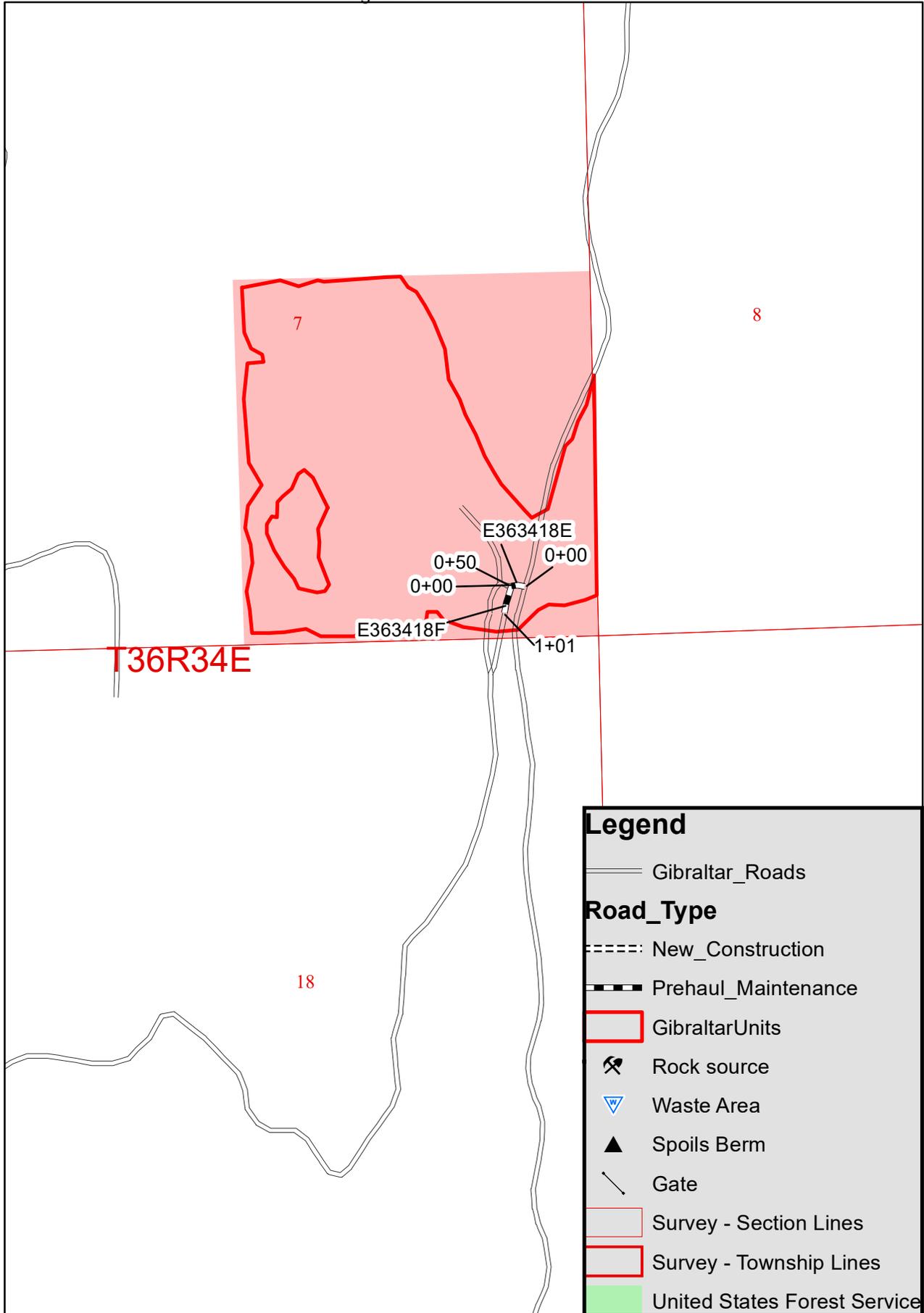
Region:Northeast

Trust: 03

Agreement No: 30-100480

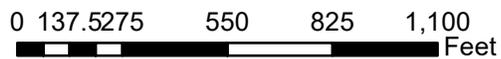
County:Ferry





Legend

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- Gate
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- Survey - Township Lines
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Washington State Department of Natural Resources

Q Gibraltar Timber Sale

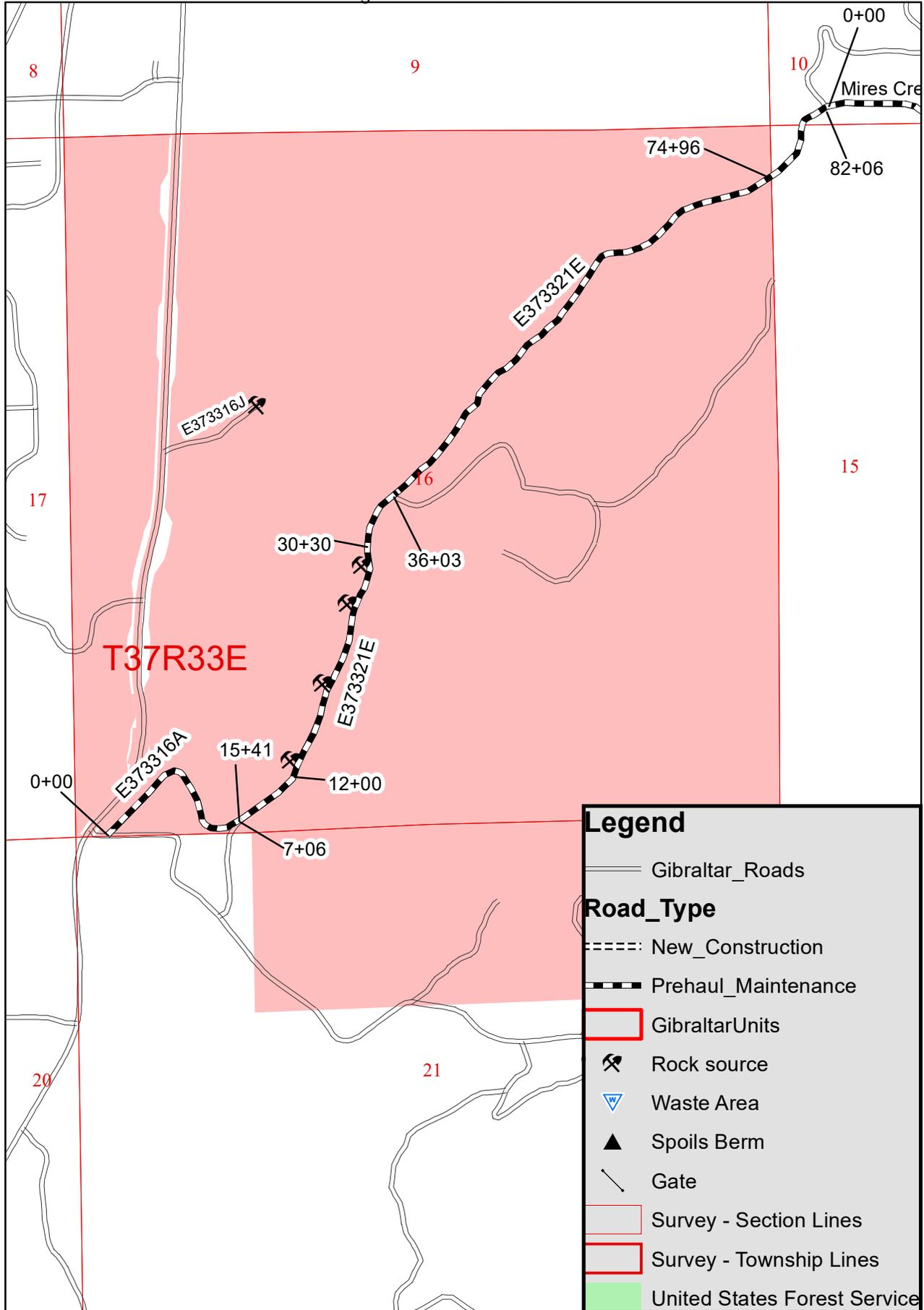
Agreement No: 30-100480

Region: Northeast

County: Ferry

Map #9

Trust: 03



0 285 570 1,140 1,710 2,280 Feet

Washington State Department of Natural Resources

Q Gibraltar Timber Sale

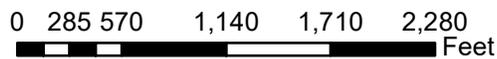
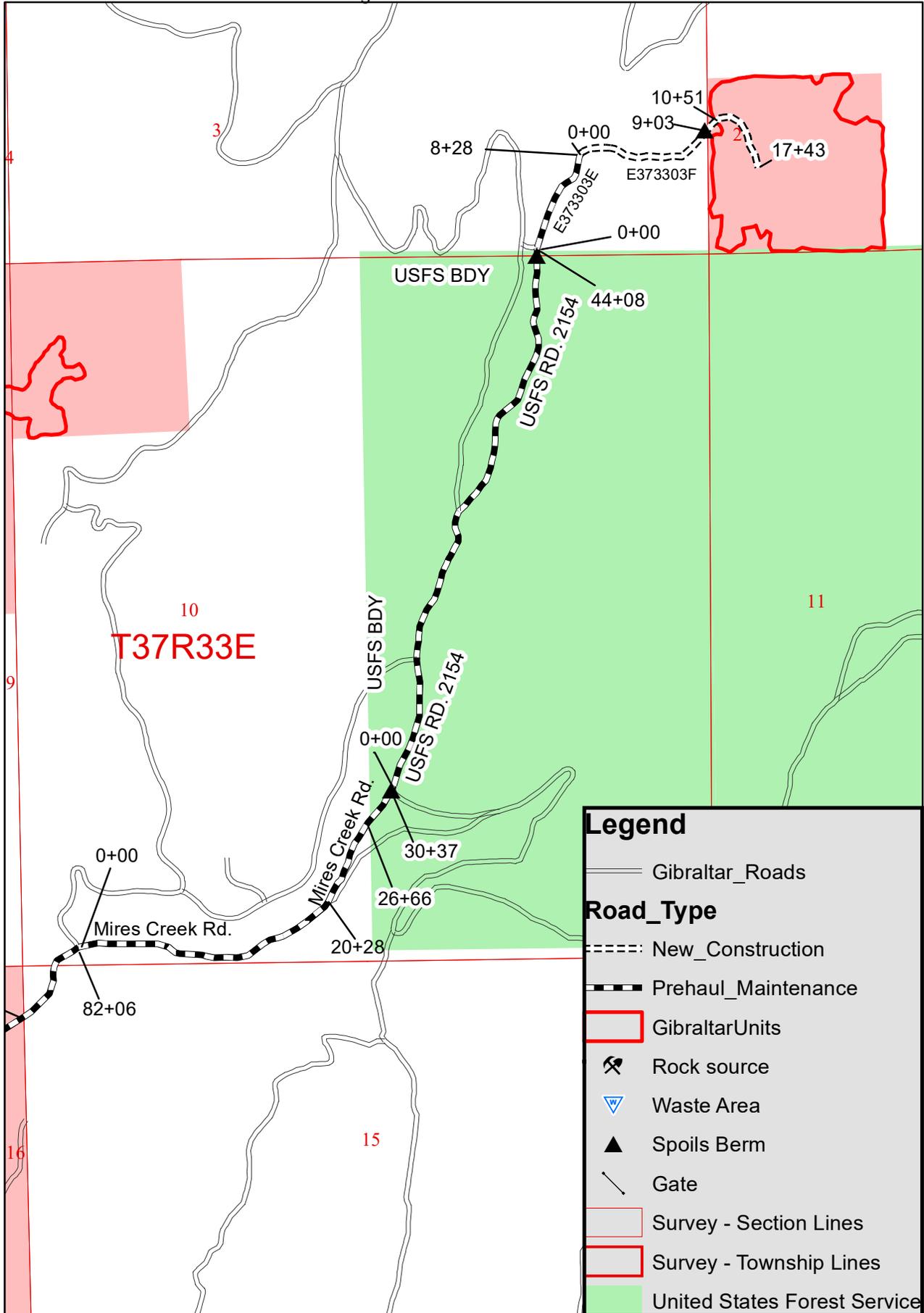
Region:Northeast

Map #10

Agreement No: 30-100480

County:Ferry

Trust: 03



Legend

- Gibraltar_Roads
- Road_Type**
- New_Construction
- - - - - Prehaul_Maintenance
- █ GibraltarUnits
- ⊗ Rock source
- ▼ Waste Area
- ▲ Spoils Berm
- ↘ Gate
- ▭ Survey - Section Lines
- ▭ Survey - Township Lines
- █ United States Forest Service

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Q GIBRALTAR TIMBER SALE ROAD PLAN
FERRY COUNTY
HIGHLANDS UNIT
NORTHEAST REGION

AGREEMENT NO.: 30-100480

STAFF ENGINEER: ERIC ANDERSON

DATE: 03-02-2020

DRAWN & COMPILED BY: ERIC ANDERSON

SECTION 0 – SCOPE OF PROJECT

0-1 ROAD PLAN SCOPE

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

0-2 REQUIRED ROADS

The specified work on the following roads is required.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
E363309F	16.83	Pre Haul Maintenance
E363316E	117.06	Pre Haul Maintenance
E363316G	15.81	Pre Haul Maintenance
E363316J	39.69	Pre Haul Maintenance
E363316K	32.28	Pre Haul Maintenance
E363316O	5.88	Pre Haul Maintenance
E363316Q	2.77	Pre Haul Maintenance
USFS 2040	75.93	Pre Haul Maintenance
E363408E	23.75	Pre Haul Maintenance
E363416F	32.99	Pre Haul Maintenance
E363416H	20.62	Pre Haul Maintenance
E363416S	4.21	Pre Haul Maintenance
E363416S	8.38	Construction
E363417E	3.52	Pre Haul Maintenance
E363417K	9.44	Pre Haul Maintenance
E363418E	0.50	Pre Haul Maintenance
E363418F	1.01	Pre Haul Maintenance
E373303E	8.28	Pre Haul Maintenance
E373303F	17.43	Construction
E373309E	49.50	Pre Haul Maintenance
E373309E	27.46	Construction

E373309F	8.20	Construction
E373316A	15.41	Pre Haul Maintenance
E373321E	75.00	Pre Haul Maintenance
Mires Creek Rd.	30.37	Pre Haul Maintenance
USFS 2154	44.08	Pre Haul Maintenance
E373313E	6.53	Construction
E373313E	30.07	Pre Haul Maintenance
E373313F	4.13	Pre Haul Maintenance
E373313G	6.60	Pre Haul Maintenance
E373313G	0.76	Construction
E373335F	27.70	Pre Haul Maintenance
USFS 2152	10.42	Pre Haul Maintenance
PALMER SPUR RD	89.18	Pre Haul Maintenance

0-4 CONSTRUCTION

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
E363416S	4+21 to 12+59	Grub, excavate and grade new road as marked in field.
E373303F	0+00 to 17+43	Grub, excavate and grade new road as marked in field. Incorporate designated drainage structures into road. At sta. 10+51, fill hole at edge of new road with pit run material.
E373309E	41+97 to 47+02	Grub, excavate and grade new road as marked in field. Incorporate designated drainage structures into road.
E373309E	54+55 to 76+96	Grub, excavate and grade new road as marked in field. Incorporate designated drainage structures into road.
E373309F	0+00 to 8+20	Grub, excavate and grade new road as marked in field. Incorporate designated drainage structures into road.
E373313E	17+92 to 24+45	Grub, excavate and grade new road as marked in field. Incorporate designated drainage structures into road.
E373313G	6+60 to 7+36	Grub, excavate and grade new road as marked in field. Incorporate

		designated drainage structures into road.
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0-6 PRE-HAUL MAINTENANCE

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

<u>Road</u>	<u>Stations</u>	<u>Requirements</u>
E363309F	0+00 to 16+83	Blade, shape, improve and maintain drainage.
E363316E	0+00 to 117+06	Blade, shape, improve and maintain drainage.
E363316G	0+00 to 15+81	Blade, shape, improve and maintain drainage.
E363316J	0+00 to 39+69	Blade, shape, improve and maintain drainage.
E363316K	0+00 to 32+28	Blade, shape, improve and maintain drainage.
E363316O	0+00 to 5+88	Blade, shape, improve and maintain drainage.
E363316Q	0+00 to 2+77	Blade, shape, improve and maintain drainage.
USFW 2040	0+00 to 75+93	Blade, shape, improve and maintain drainage.
E363408E	0+00 to 23+75	Blade, shape, improve and maintain drainage.
E363416F	0+00 to 32+99	Blade, shape, improve and maintain drainage.
E363416H	0+00 to 20+62	Blade, shape, improve and maintain drainage.
E363418E	0+00 to 0+50	Blade, shape, improve and maintain drainage.
E363418F	0+00 to 1+01	Blade, shape, improve and maintain drainage.
E363416S	0+00 to 4+21	Blade, shape, improve and maintain drainage.
E363417E	0+00 to 3+52	Blade, shape, improve and maintain drainage.
E363417K	0+00 to 9+44	Blade, shape, improve and maintain drainage.

E373303E	0+00 to 8+28	Blade, shape, improve and maintain drainage.
E373309E	0+00 to 41+97	Blade, shape, improve and maintain drainage.
E373309E	47+02 to 54+55	Blade, shape, improve and maintain drainage.
E373316A	0+00 to 15+41	Blade, shape, improve and maintain drainage.
E373321E	7+06 to 82+06	Blade, shape, improve and maintain drainage.
Mires Creek Rd.	0+00 TO 30+37	Blade, shape, improve and maintain drainage.
USFS 2154	0+00 to 44+08	Blade, shape, improve and maintain drainage.
E373313E	0+00 to 17+92	Blade, shape, improve and maintain drainage.
E373313E	24+45 to 36+60	Blade, shape, improve and maintain drainage.
E373313F	0+00 to 4+13	Blade, shape, improve and maintain drainage.
E373313G	0+00 to 6+60	Blade, shape, improve and maintain drainage.
E373335F	0+00 to 27+70	Blade, shape, improve and maintain drainage.
USFS 2152	0+00 to 10+42	Blade, shape, improve and maintain drainage.
PALMER SPUR RD.	0+00 to 89+18	Blade, shape, improve and maintain drainage.

0-7 POST-HAUL MAINTENANCE

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

0-12 DEVELOP ROCK SOURCE

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

SECTION 1 – GENERAL

1-1 ROAD PLAN CHANGES

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

1-2 UNFORESEEN CONDITIONS

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

1-3 ROAD DIMENSIONS

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

1-4 ROAD TOLERANCES

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

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

1-5 DESIGN DATA

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

1-6 ORDER OF PRECEDENCE

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

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

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

1-8 REPAIR OR REPLACEMENT OF DAMAGED MATERIALS

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

1-9 DAMAGED METALLIC COATING

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

1-10 WSDOT STANDARD SPECIFICATION REFERENCE

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

SUBSECTION ROAD MARKING

1-15 ROAD MARKING

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

- Orange Flagging.
- Construction Stakes.

1-18 REFERENCE POINT DAMAGE

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

1-21 HAUL APPROVAL

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

1-22 WORK NOTIFICATIONS

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

SUBSECTION RESTRICTIONS

1-25 ACTIVITY TIMING RESTRICTION

The operation of road construction equipment is not allowed on weekends or state recognized holidays, unless authorized in writing by the Contract Administrator. Road construction is not allowed on the E373313E road between September 1st and October 31st without written approval from the Contract Administrator.

1-26 OPERATING DURING CLOSURE PERIOD

If permission is granted to operate during a closure period listed in Clause 1-25 ACTIVITY TIMING RESTRICTION, Purchaser shall provide a maintenance plan to include further protection of state resources. Purchaser shall obtain written approval from the Contract Administrator for the maintenance plan, and shall put preventative measures in place before operating during the closure period. Purchaser is required to maintain all haul roads at their own expense including those listed in Contract Clause C-060 DESIGNATED ROAD MAINTAINER. If other operators are using, or desire to use these roads, a joint operating plan must be developed. All parties shall follow this plan.

1-29 SEDIMENT RESTRICTION

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

1-30 CLOSURE TO PREVENT DAMAGE

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

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

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

1-32 BRIDGE SURFACE RESTRICTION

The use of metal tracked equipment is not allowed on bridge surfaces at any time. If Purchaser must run equipment on bridge surfaces, then rubber tired equipment or other methods, approved in writing by Contract Administrator, must be used.

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

After repairs, Purchaser shall have bridges load rated by a Registered Professional Engineer licensed in the State of Washington. All load rating reports, calculations, or drawings must be stamped by the licensed engineer and submitted to the Contract Administrator prior to allowing any work to continue. All damage to the bridge from transporting equipment will be repaired at the Purchaser's expense.

1-33 SNOW PLOWING RESTRICTION

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

SECTION 2 – MAINTENANCE

2-1 GENERAL ROAD MAINTENANCE

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

2-4 PASSAGE OF LIGHT VEHICLES

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

2-5 MAINTENANCE GRADING – EXISTING ROAD

Purchaser shall use a grader to shape the existing surface before final approval. Purchaser shall accomplish all grading using a motor grader.

2-6 CLEANING CULVERTS

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

2-7 CLEANING DITCHES, HEADWALLS, AND CATCH BASINS

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

SECTION 3 – CLEARING, GRUBBING, AND DISPOSAL

3-1 BRUSHING

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

3-2 BRUSHING RESTRICTION

Pulling, digging, pushing over, and other non-cutting methods used for vegetation removal may not be used for brushing. Excavator buckets, log loaders and similar equipment may not be used for brushing unless otherwise approved in writing by the Contract Administrator.

3-5 CLEARING

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

3-7 RIGHT-OF-WAY DECKING

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

3-8 PROHIBITED DECKING AREAS

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

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

3-10 GRUBBING

Purchaser shall remove all stumps between the grubbing limits specified on the TYPICAL SECTION SHEET. Purchaser shall also remove stumps with undercut roots outside the grubbing limits. Purchaser shall remove stumps using a hydraulic mounted excavator

unless authorized in writing by the Contract Administrator. Stumps over 22 inches diameter must be split. Stumps over 40 inches must be quartered. Grubbing must be completed before starting excavation and embankment.

3-12 STUMP PLACEMENT

Purchaser shall place grubbed stumps adjacent to the road shoulder and in compliance with all other clauses in this road plan. Stumps must be positioned upright, with root wads in contact with the forest floor on stable locations. Purchaser shall pile stumps no greater than 10 feet high.

3-14 STUMPS WITHIN DESIGNATED WASTE AREAS

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

3-20 ORGANIC DEBRIS DEFINITION

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

3-21 DISPOSAL COMPLETION

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

3-22 DESIGNATED WASTE AREA FOR ORGANIC DEBRIS

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

3-23 PROHIBITED DISPOSAL AREAS

Purchaser shall not place organic debris in the following areas:

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

3-24 BURYING ORGANIC DEBRIS RESTRICTED

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

3-30 EXCLUSION OF DOZER BLADES

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

3-31 PILING

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

3-32 END HAULING ORGANIC DEBRIS

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

SECTION 4 - EXCAVATION

4-1 EXCAVATOR CONSTRUCTION

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

4-2 PIONEERING

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

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

4-3 ROAD GRADE AND ALIGNMENT STANDARDS

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

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

4-4 SWITCHBACK STANDARDS

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

Purchaser shall follow these standards for switchbacks:

- Maximum adverse grades for switchbacks is 10%.
- Maximum favorable grades for switchbacks is 12%.
- Maximum transition grades entering and leaving switchbacks is a 5% grade change.

- Transition grades required to meet switchback grade limitations must be constructed on the tangents preceding and departing from the switchbacks.

4-5 CUT SLOPE RATIO

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

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

4-6 EMBANKMENT SLOPE RATIO

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

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

4-7 SHAPING CUT AND FILL SLOPE

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

4-8 CURVE WIDENING

The minimum widening placed on the inside of curves is:

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

4-9 EMBANKMENT WIDENING

The minimum embankment widening is:

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

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

4-12 FULL BENCH CONSTRUCTION

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

4-14 ONE-FOOT EXCAVATION LIMIT

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

4-21 TURNOUTS

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

4-22 TURNAROUNDS

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

4-25 DITCH CONSTRUCTION AND RECONSTRUCTION

Purchaser shall construct ditches into the subgrade as specified on the TYPICAL SECTION SHEET.

4-28 DITCH DRAINAGE

Ditches must drain to cross-drain culverts or ditchouts.

4-29 DITCHOUTS

Purchaser shall construct ditchouts as identified, as needed and as directed by the Contract Administrator. Ditchouts must be constructed in a manner that diverts ditch water onto the forest floor and must have excavation backslopes no steeper than a 1:1 ratio. Locations may not be changed without written approval from the Contract Administrator.

4-35 WASTE MATERIAL DEFINITION

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

4-36 DISPOSAL OF WASTE MATERIAL

Purchaser may sidecast waste material on side slopes up to 45% if the waste material is compacted and free of organic debris. On side slopes greater than 55%, all waste material must be end hauled or pushed to the designated embankment sites and waste areas identified in Clause 4-37 WASTE AREA LOCATION.

4-37 WASTE AREA LOCATION

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

4-38 PROHIBITED WASTE DISPOSAL AREAS

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

- Within 50 feet of a cross drain culvert.
- Within 100 feet of a live stream or wetland.
- Within a riparian management zone.
- Within a wetland management zone.
- On side slopes steeper than 35%.
- In locations that interfere with the construction of the road prism.
- In locations that impede drainage.
- Against standing timber.
- Outside the clearing limits

4-47 BORROW MATERIAL

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

4-48 NATIVE MATERIAL

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

4-49 BORROW SOURCE

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

4-55 ROAD SHAPING

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

4-56 DRY WEATHER SHAPING

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

4-60 FILL COMPACTION

Purchaser shall compact all embankment and waste material by routing equipment over the entire width of each lift. Waste material may be placed by end-dumping or sidecasting until sufficiently wide enough to support the equipment.

4-61 SUBGRADE COMPACTION

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

4-62 DRY WEATHER COMPACTION

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

SECTION 5 – DRAINAGE

5-5 CULVERTS

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

5-12 UNUSED MATERIALS STATE PROPERTY

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

5-15 CULVERT INSTALLATION

Culvert installation must be in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL and the National Corrugated Metal Pipe Association's "Installation Manual for Corrugated Steel Drainage Structures" Culverts over 18 inches diameter shall be banded using lengths of no less than 10 feet, and no more than one length less than 16 feet. Shorter section of banded culvert shall be installed at the inlet end.

5-16 APPROVAL FOR LARGER CULVERT INSTALLATION

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

5-17 CROSS DRAIN SKEW AND SLOPE

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

5-18 CULVERT DEPTH OF COVER

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

5-20 ENERGY DISSIPATERS

Purchaser shall install energy dissipaters in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts. Energy dissipater installation is subject to approval by the Contract Administrator.

5-21 DOWNSPOUTS AND FLUMES

Downspouts and flumes longer than 20 feet must be staked on both sides at a maximum interval of 10 feet with 6-foot heavy-duty steel posts, and fastened securely to the posts with No. 10 galvanized smooth wire 1/2-inch bolts in accordance with the CULVERT AND DRAINAGE SPECIFICATION DETAIL.

5-25 CATCH BASINS

Purchaser shall construct catch basins in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions of catch basins are 2 feet wide and 4 feet long unless specified otherwise on within the Road Plan.

5-26 HEADWALLS FOR CROSS DRAIN CULVERTS

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

5-30 DRIVABLE WATERBAR CONSTRUCTION

Purchaser shall construct drivable waterbars in accordance with the DRIVABLE WATERBAR DETAIL and as marked in the field. Drivable waterbars must be installed concurrently with construction of the subgrade and must be maintained in an operable condition. Purchaser shall install drivable waterbars using a crawler tractor. Use of any

other equipment is not allowed without written approval from the Contract Administrator.

5-31 ROLLING DIP CONSTRUCTION

Purchaser shall construct rolling dips in accordance with the ROLLING DIP DETAIL and as marked in the field. Rolling dips must be installed concurrently with construction of the subgrade and must be maintained in an operable condition. Purchaser shall install rolling dips using a crawler tractor. Use of other equipment is not allowed without written approval of the Contract Administrator.

5-33 NATIVE SURFACE ROADS

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

SECTION 6 – ROCK AND SURFACING

6-2 ROCK SOURCE ON STATE LAND

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

<u>Source</u>	<u>Location</u>	<u>Rock Type</u>
E363316E	Sta. 3+75 on E363316E Rd.	RIP RAP /FRACTURED ROCK
E373316J	Sta. 7+70 on E373316J Rd.	Pit run material
E373321E	Sta. 12+00 to 30+30 on E373321E Rd. Several shale slopes can be accessed along this stretch of road.	Loose talus/shale/pit run

6-5 ROCK FROM COMMERCIAL SOURCE

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

6-21 IN-PLACE PROCESSING

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

6-28 1 ¼-INCH MINUS CRUSHED ROCK

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

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

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

6-38 4-INCH IN-PLACE ROCK

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

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

6-50 LIGHT LOOSE RIP RAP

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

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

6-51 HEAVY LOOSE RIP RAP

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

<u>Quantity</u>	<u>Size Range</u>
30% to 90%	1 ton to 2 ton (28" - 36")
30% to 70%	500 lbs. to 1 ton (18" - 28")

20% to 50%
10% to 20%

50 lbs. to 500 lbs. (8" - 18")
3 inch to 50 lbs. (3" - 8")

6-55 ROCK APPLICATION MEASURED BY COMPACTED DEPTH

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

6-70 APPROVAL BEFORE ROCK APPLICATION

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

6-71 ROCK APPLICATION

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

6-76 DRY WEATHER ROCK COMPACTION

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

6-80 WATERING FOR DUST ABATEMENT

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

SECTION 7 – STRUCTURES

7-6 STREAM CROSSING INSTALLATION

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

CATTLE GUARDS

7-71 GATE CLOSURE DURING HAUL

Contractor may elect to install 4-wire gates instead of temporary cattle guards. On the following road(s), Contractor shall keep gates closed except for the passing of vehicles.

<u>Road</u>	<u>Station</u>	<u>Gate No.</u>	<u>Closure Period</u>	<u>Comment</u>
E373309E	<u>38+28</u>			Closed except for passing vehicles
E373309E	50+28			Closed except for passing vehicles
E373313E	30+84			Closed except for passing vehicles
E373303E	0+00			Closed except for passing vehicles
MIRES CREEK RD.	26+66			Closed except for passing vehicles

7-76 GATE INSTALLATION

On the following road(s), Contractor shall install the designated gate(s). Gate installations shall be installed within 30 days of beginning of road maintenance and construction operations.

<u>Road</u>	<u>Station</u>	<u>Type*</u>	<u>Furnished by</u>
E373313E	15+60	16' Stock Gate	Contractor

Stock gate installations shall be in accordance with the STOCK GATE DETAIL. The gate shall be placed parallel to the E373313E Road near station 15+60 where the driveway from a private residence intersects the E373313E Road. The gate shall be constructed so that it swings open east to north. Large rip rap rock shall be set at each end of the gate projecting away from the gate. The rip rap will go as far as necessary to block any ATV traffic from getting around the gate.

If fences exist at the site of gate installation(s), the Contractor shall be required to connect the fencing to the posts of the new installation, except by permission from the Contract Administrator.

7-78 GATE SUPPLIED BY PURCHASER

Purchaser shall provide all gates specified for installation in Clause 7-76 GATE INSTALLATION. Purchaser shall obtain written approval for the gates from the Contract Administrator before installation.

7-82 4-WIRE GATE INSTALLATION

On the following road(s), Purchaser shall widen or install 4-wire gates in accordance with the 4-WIRE GATE DETAIL. Gates must be installed to connect into the existing fencing.

E373309E	Sta. 38+28
E373309E	Sta. 50+28
E373313E	Sta. 30+84
E373303E	Sta. 0+00
MIRES CREEK RD.	Sta. 26+66

SECTION 9 – POST-HAUL ROAD WORK

9-1 EARTHEN BARRICADES

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

E363316E	Sta. 40+94
E373303F	Sta. 9+03
Mires Creek Rd.	Sta. 30+37
USFS 2154	Sta. 44+08

Purchaser shall install additional SPOILS BERMS at the direction of the Contract Administrator.

9-5 POST-HAUL MAINTENANCE

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

9-10 LANDING DRAINAGE

Purchaser shall provide for drainage of the landing surface at all landings.

10-15 CORRUGATED STEEL CULVERT

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

10-20 FLUME AND DOWNSPOUT

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

10-21 METAL BAND

Metal coupling and end bands must meet the AASHTO specification designated for the culvert and must have matching corrugations. Culverts 24 inches and smaller must have

bands with a minimum width of 12 inches. Culverts over 24 inches must have bands with a minimum width of 24 inches.

10-23 RUBBER CULVERT GASKETS

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

10-24 GAUGE AND CORRUGATION

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

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

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

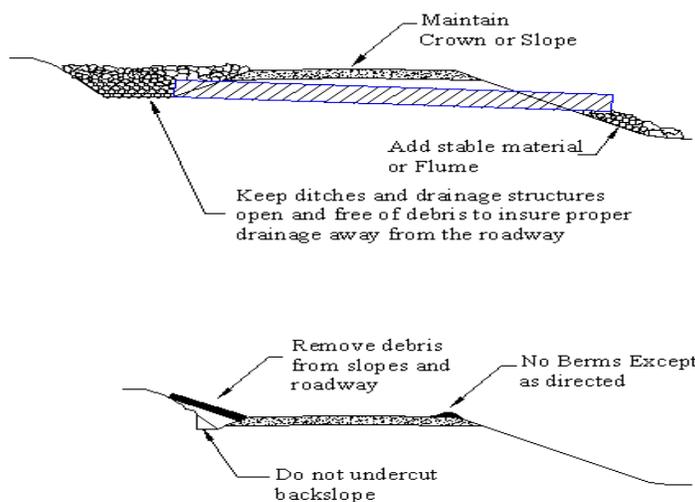
- (1) Repair bridges, culverts, cattle guards, fences and other road structures to conditions required by construction specifications.

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.

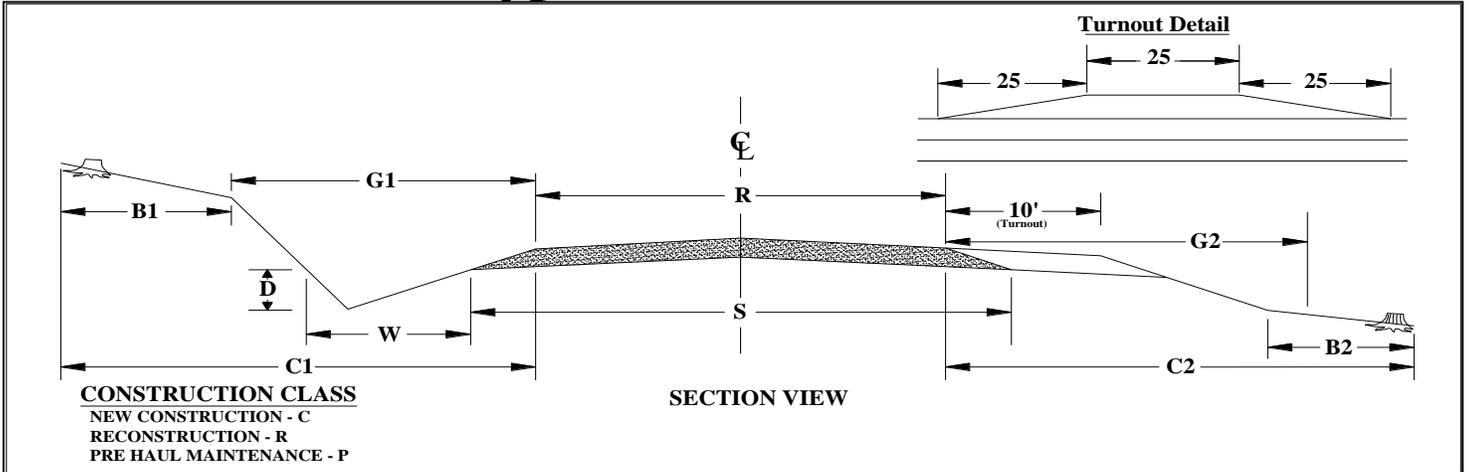


State of Washington
Department of Natural Resources

Application No. : 30-100480

Name of Sale: Q Gibraltar TS

Typical Section Sheet

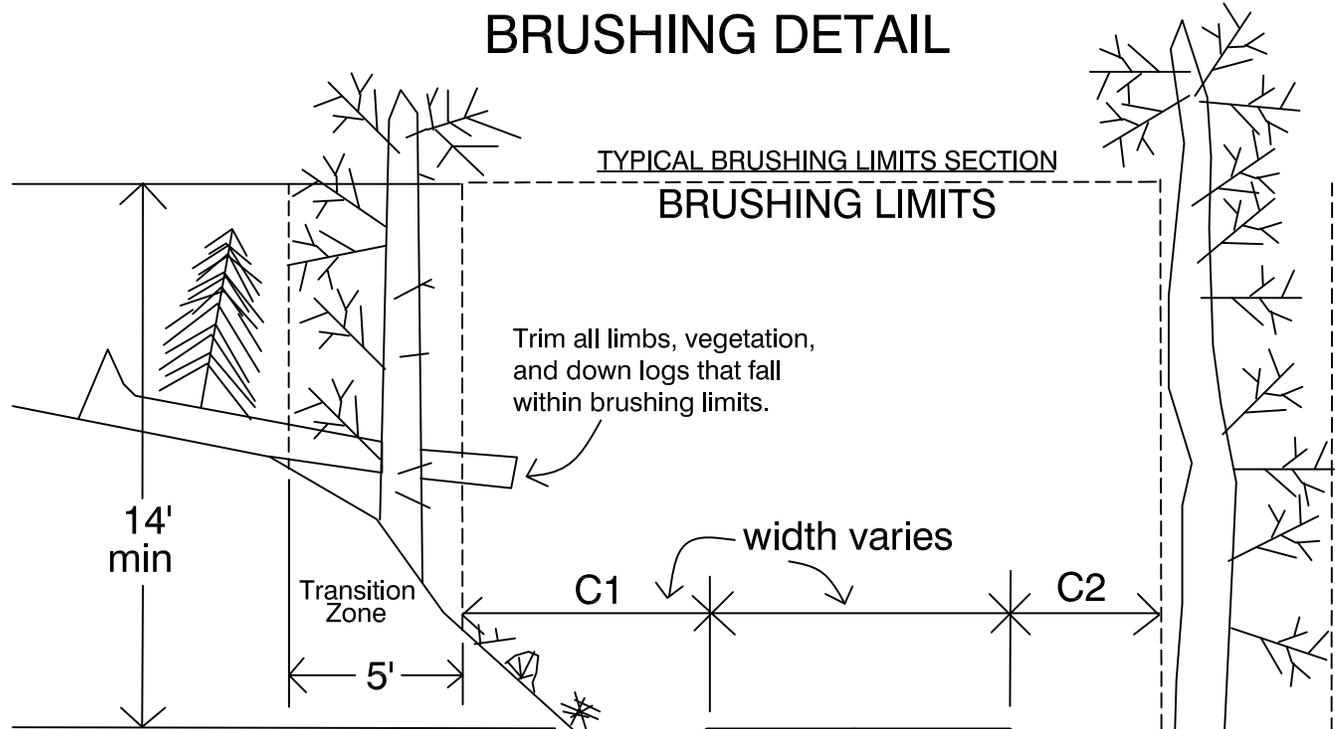


ROAD NAME	START STATION	END STATION	CONSTRUCTION CLASS	SUBGRADE WIDTH (S)	ROAD WIDTH (R)	INSLOPE "/>10'	OUTSLOPE "/>10'	DITCH WIDTH (W)	DITCH DEPTH (D)	DITCH SIDES	Tolerance Class	GRUBBING CUT BANK (G1)	GRUBBING FILL TOE (G2)	ROAD CUT CLEARING (B1)	ROAD FILL CLEARING (B2)	R/W CUT CLEARING (C1)	R/W FILL CLEARING (C2)
E363309F	0+00	16+83	P		12		4				C	3	3			6	6
E363316E	0+00	48+45	P		14		4				C	3	3			6	6
E363316E	48+45	49+45	R		16		4	3	1	L	C	3	3				
E363316E	49+45	117+06	P		14		4				C	3	3				
E363316G	0+00	15+81	P		12		4				C	3	3			6	6
E363316J	0++00	39+69	P		12		4				C	3	3			6	6
E363316K	0+00	32+28	P		12		4				C	3	3			6	6
E363316O	0+00	5+88	P		12		4				C	3	3			6	6
E363316Q	0+00	2+77	P		12		4				C	3	3			6	6
USFS 2040	0+00	75+93	P		16		4				C					6	6
E363408E	0+00	23+75	P		14		4				C	3	3			6	6
E363416F	0+00	32+99	P		12		4				C	3	3			6	6
E363416H	0+00	20+62	P		12		4				C	3	3				
E363416S	0+00	4+21	P		12		4				C	3	3				
E363416S	4+21	12+59	C		12		4				C	5	5			6	6
E363418E	0+00	0+50	P		12		4				C						
E363418F	0+00	1+01	P		12		4				C						
E363417E	0+00	3+52	P		14		4				C	3	3				
E363417K	0+00	9+44	P		12		4				C	3	3				
E373303E	0+00	8+28	P		12		4				C						
E373303F	0+00	17+43	C		12		4				C	5	5			6	6
E373309E	0+00	41+97	P		12		4				C						
E373309E	41+97	47+02	C		12		4				C	5	5			6	6

E373309E	47+02	54+55	P		12	4			C								
E373309E	54+55	80+22	C		12	4			C		5	5			6	6	
E373309F	0+00	8+20	C		12	4			C		5	5			6	6	
E373316A	0+00	15+41	P		14	4			C								
E373321E	7+06	82+06	P		12	4			C								
Mires Creek Rd.	0+00	30+37	P		12	4			C								
USFS 2154	0+00	44+08	P		14	4			C								
E373313E	0+00	17+92	P		12	4			C								
E373313E	17+92	24+45	C		12	4			C		5	5			6	6	
E373313E	24+45	36+60	P		12	4			C								
E373313F	0+00	4+13	P		12	4			C								
E373313G	0+00	6+60	P		12	4			C								
E373313G	6+60	7+36	C		12	4			C		5	5			6	6	
E373335F	0+00	27+70	P		14	4			C								
USFS 2152	0+00	10+42	P		16	4			C								
PALMER SPUR RD	0+00	89+18	P		16	4			C								

Date: 01-06-2020

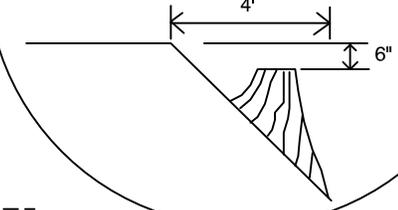
BRUSHING DETAIL



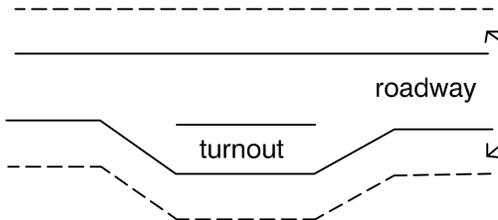
All limbs on standing trees that extend into the brushing limits shall be trimmed within 6" of the stem

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

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

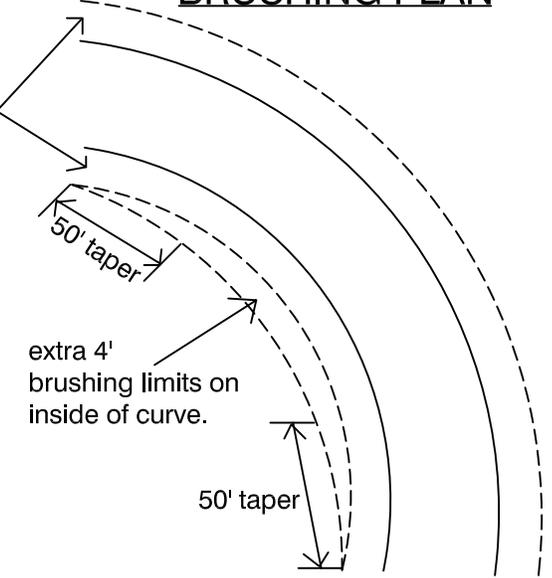


CURVE BRUSHING PLAN



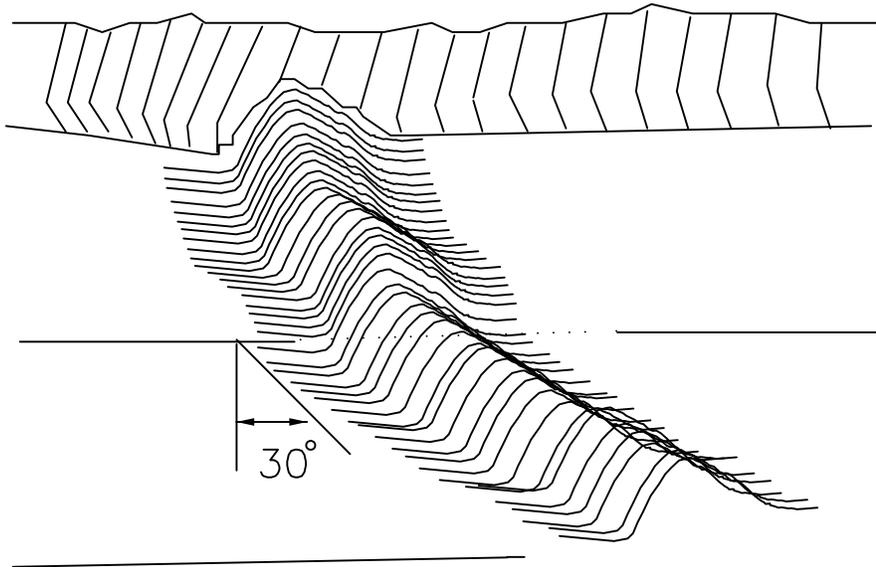
TURNOUT BRUSHING PLAN

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

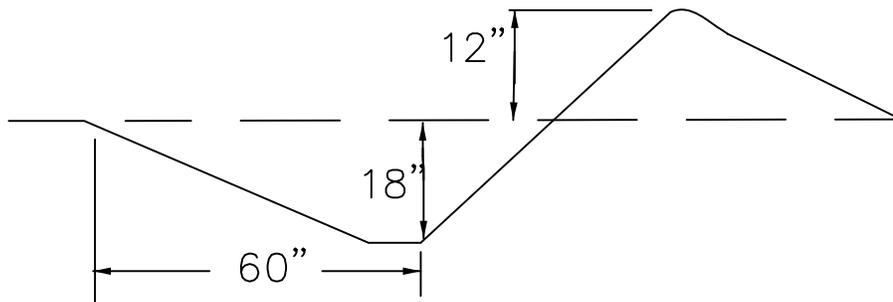


Brushing limits as shown on typical section

Top View

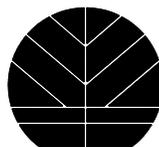


Side View



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

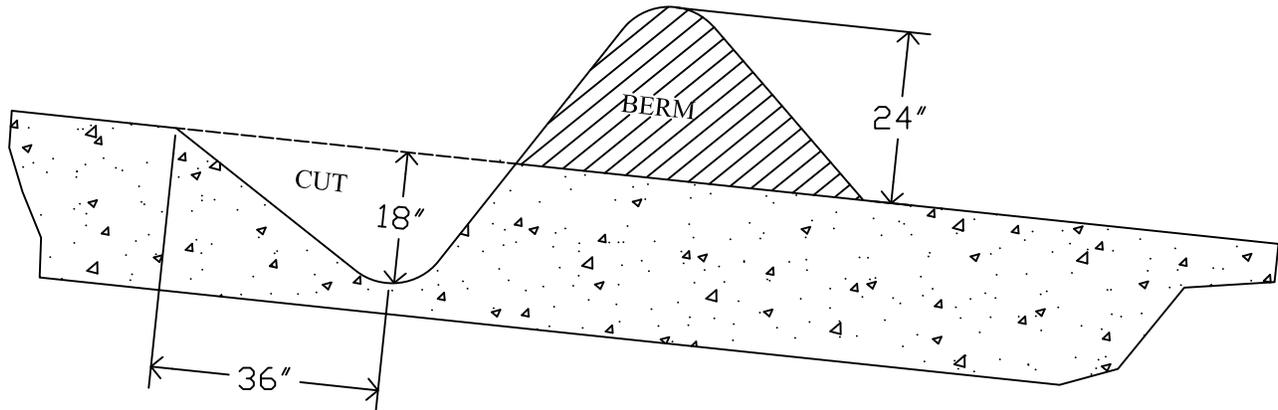
**Northeast Region
Colville, Washington**

Designed By: Stash Slabinski 9/06/05

Drawn By: Stash Slabinski 9/06/05

Revised:

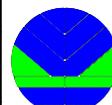
Non-Driveable Water Bar Detail



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



WASHINGTON STATE DEPARTMENT OF
Natural Resources

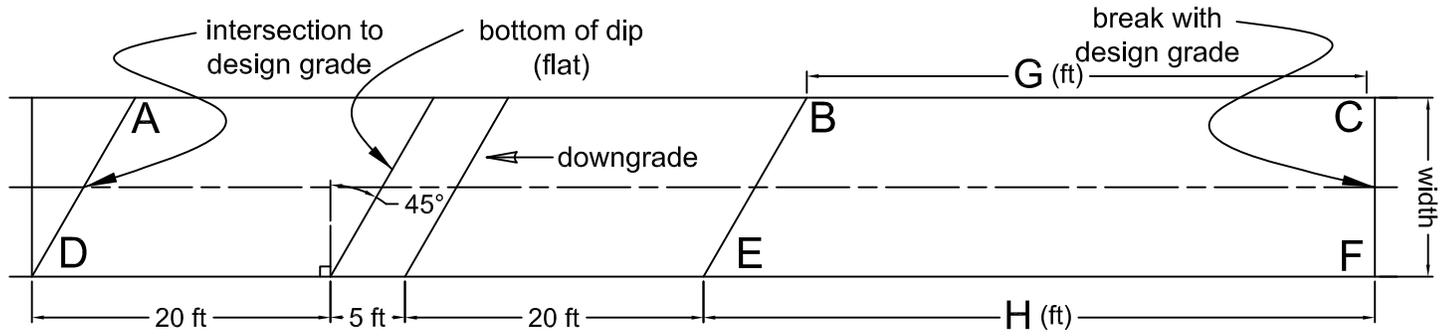
Northeast Region Colville, Washington		
Designed By:	Stash Slabinski	4/21/05
Drawn By:	Stash Slabinski	4/21/05

Revised:

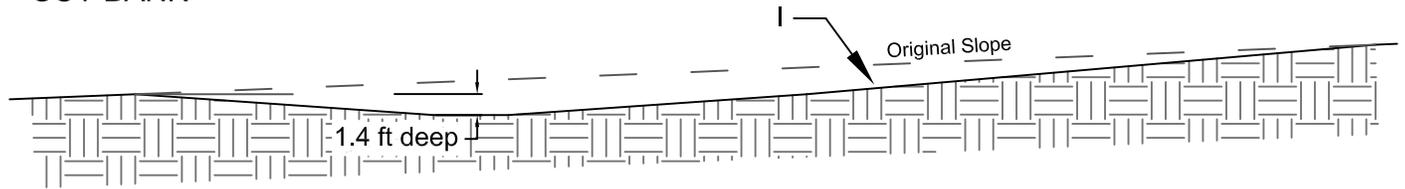
1 OF 1

STANDARD 45° ROLLING DIP

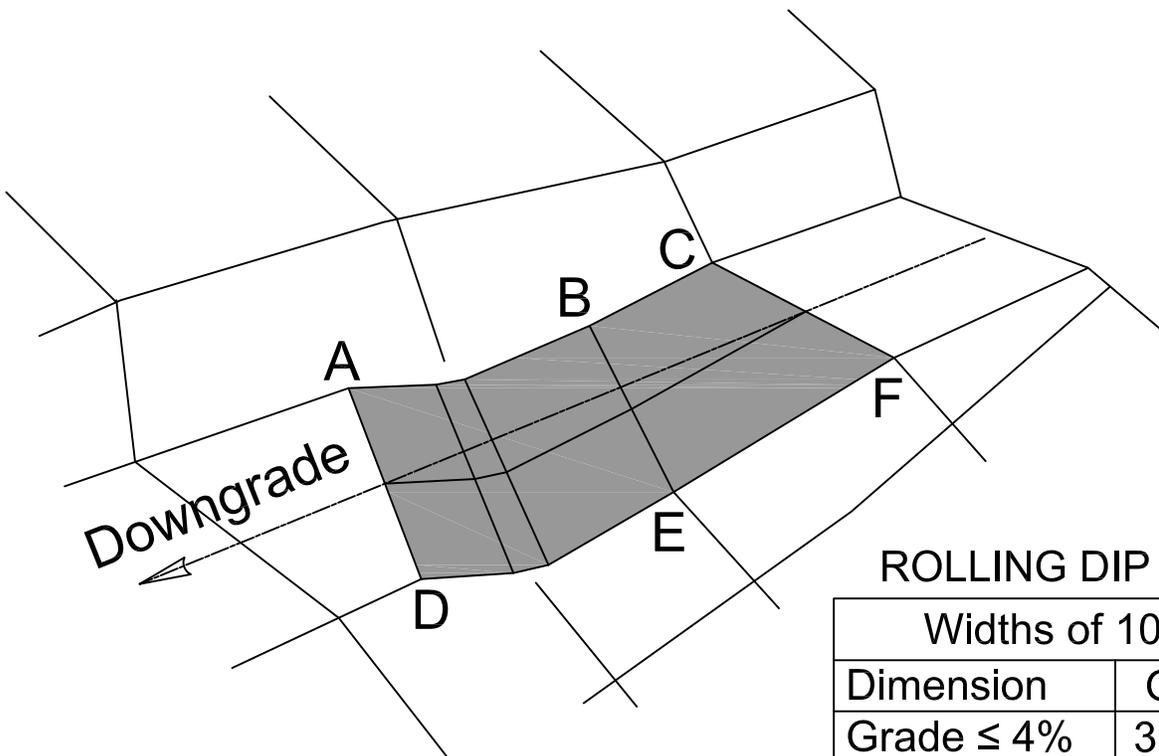
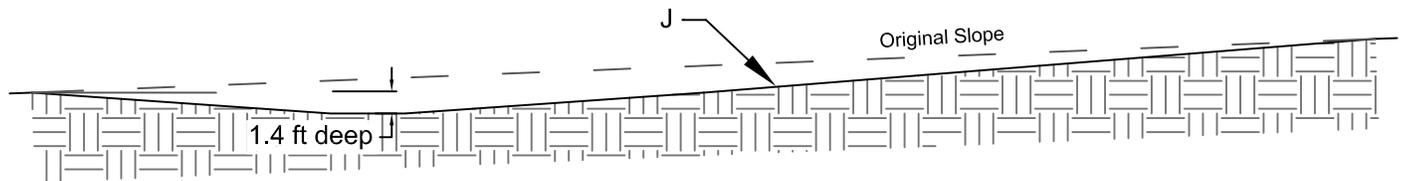
PLAN OF ROLLING DIP



CUT BANK



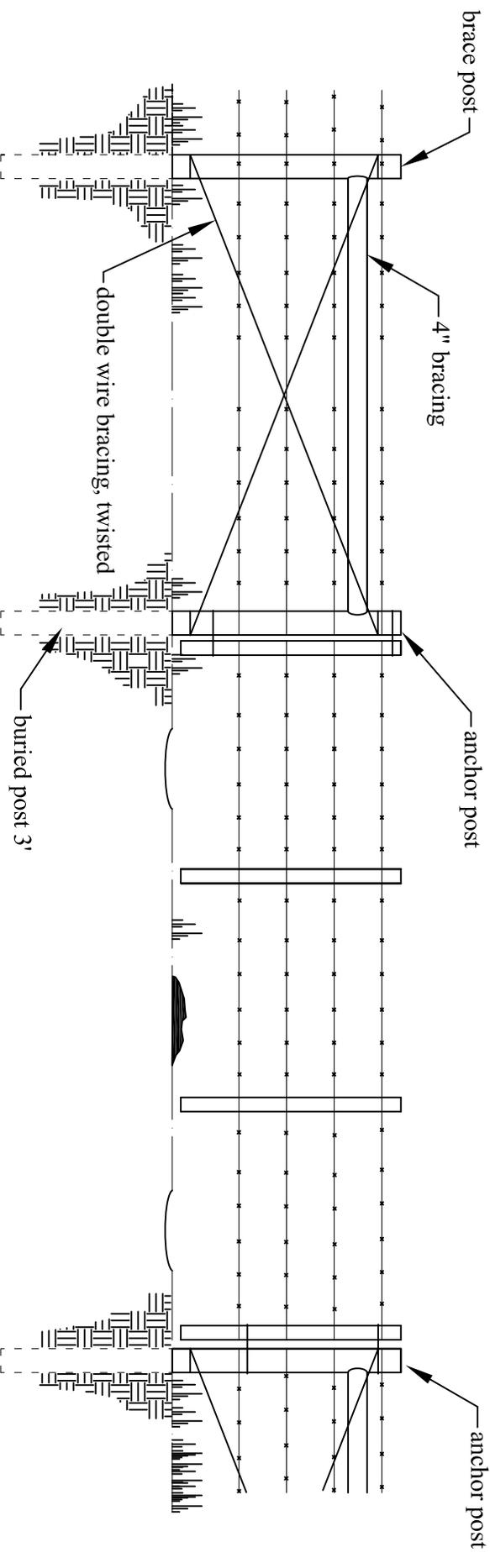
FILL SLOPE



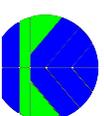
ROLLING DIP DEMENSIONS

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

4 Strand Wire Gate and Gate Brace Detail



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



Washington State Department of
Natural Resources

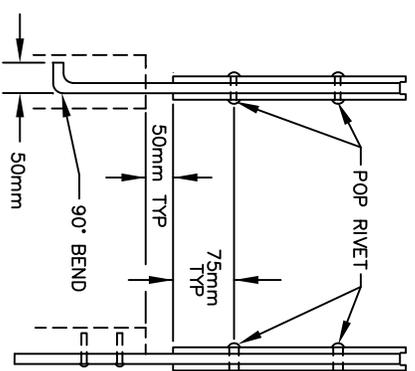
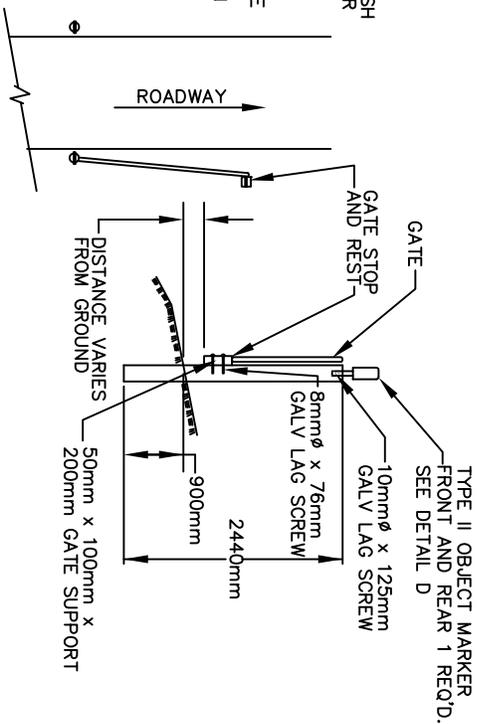
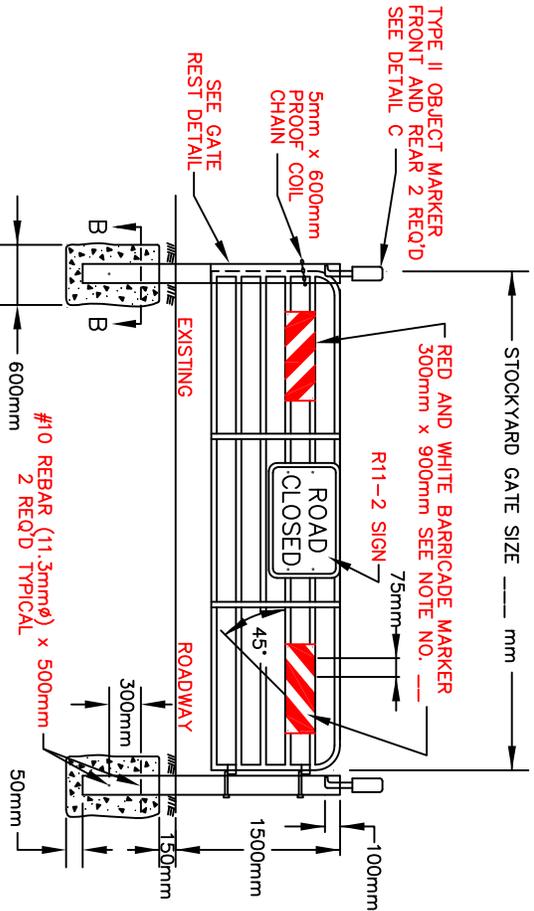
Northeast Region
Colville, Washington

Drawn by: Jason Bauer

Revised: 10/06/2009

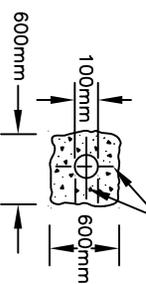
STOCK GATE (TUBE GATE) -- OPTION 1

1. THE GATE SHALL BE STOCKYARD TYPE OR ITS EQUIVALENT. THE GATE FRAME SHALL BE FABRICATED FROM 32mm HIGH STRENGTH STEEL TUBING (450MPa, MIN. YIELD STRENGTH). THE VERTICAL STAYS SHALL BE HIGH STRENGTH PRESS FORMED 76mm x 300mm GAUGE STEEL (OR EQUAL) ON BOTH FACES. FINISH ON THE GATE AND THE TWO GATE POSTS SHALL CONSIST OF AT LEAST ONE PRIMER COAT AND ONE COAT OF DARK GREEN SURFACE PAINT.
2. ALL BOLTS AND LAG SCREWS SHOWN INCLUDE WASHERS AND NUTS.
3. BARRICADE MARKER PANELS SHALL BE ALUMINIUM OVERLAIN WITH "3 M" REFLECTIVE SHEETING, WIDE ANGLE FLATTOP, PRESSURE SENSITIVE, NO. 3280, IMPERIAL WHITE TRANSPARENT "STOP SIGN RED" CODE NO. 712 SHALL BE APPLIED BY SILK SCREEN PROCESSING, AIR BRUSHING OR SPRAYING TO PRODUCE STRIPING, EQUAL PRODUCTS AND PROCESSES MAY BE APPROVED.
4. WOODEN POST AND WOODEN GATE REST SHALL BE TREATED WITH PENTA CHLOROPHENAL WITH MINIMUM NET RETENTION OF 8 kg/m³ (DRY CRYSTAL).
5. CONCRETE SHALL CONFORM TO SECTION 602-METHOD A, B OR C.
6. ALL STEEL MEMBERS EXCEPT LAG SCREWS, CHAIN, GATE, FRAME, REBAR, AND BOLTS SHALL BE A-36.

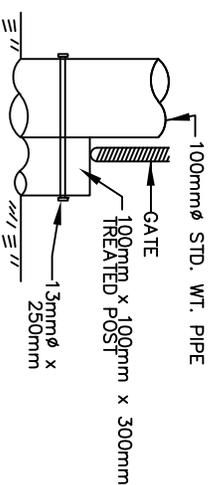


DETAIL C DETAIL D

#10 REBAR (11.3mm ϕ) x 500mm 2 REQ'D TYPICAL



SECTION B-B

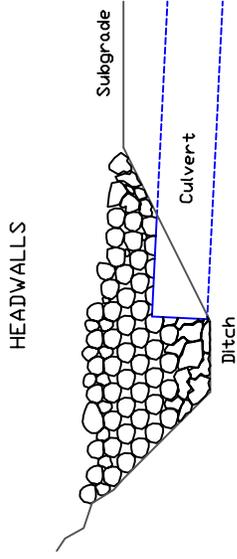
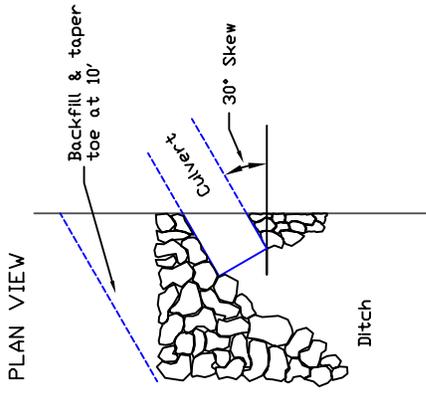


GATE REST DETAIL

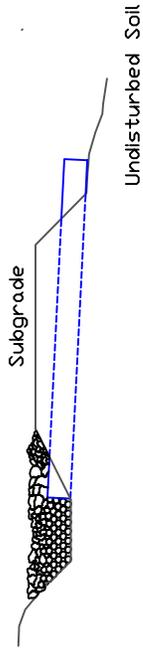
ITEM	MATERIAL LIST FOR GATE	DESCRIPTION	QUANTITY
BOLT		13mm ϕ x 250mm - FOR GATE REST	1 EA.
BOLTS		8mm ϕ x 64mm - FOR SIGNS	12 EA.
CHAIN		5mm PROOF COIL CHAIN 600mm LONG	1 EA.
GATE		STOCKYARD TYPE	1 EA.
GATE POSTS		100mm ϕ STANDARD WEIGHT PIPE	2 EA.
REBARS		#10 REBAR (11.3mm ϕ) x 500mm long	4 EA.
SIGN		TYPE II OBJECT MARKER	3 EA.
SIGN		RED AND WHITE BARRICADE MARKER	2 EA.
SIGN		R 11-2	1 EA.
TREATED POST		100mm x 100mm x 2440mm TREATED POST	1 EA.
TREATED POST		100mm x 100mm x 300mm TREATED POST	1 EA.
LAG SCREW		10mm ϕ x 125mm LONG GALV.	06CU Meter
LAG SCREW		8mm ϕ x 76mm LONG GALV.	2 EA.
FIR BLOCK		50mm x 100mm x 200mm GATE SUPPORT	2 EA.
STRAP IRON		64mm x 6mm x 500mm TYPE II SIGN MOUNTING BRACKET	1 EA.
			3 EA.

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CULVERT AND DRAINAGE SPECIFICATIONS DETAIL - D1

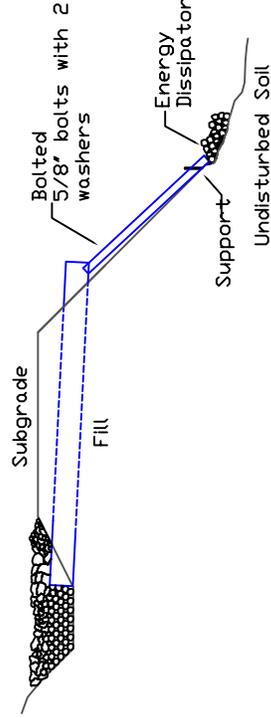


Headwall to be constructed of material that will resist erosion



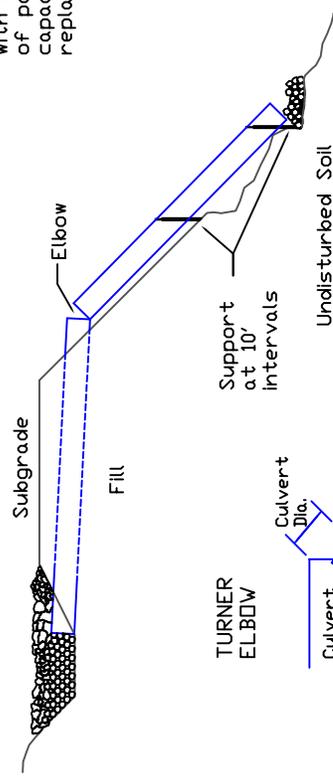
FLUME

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



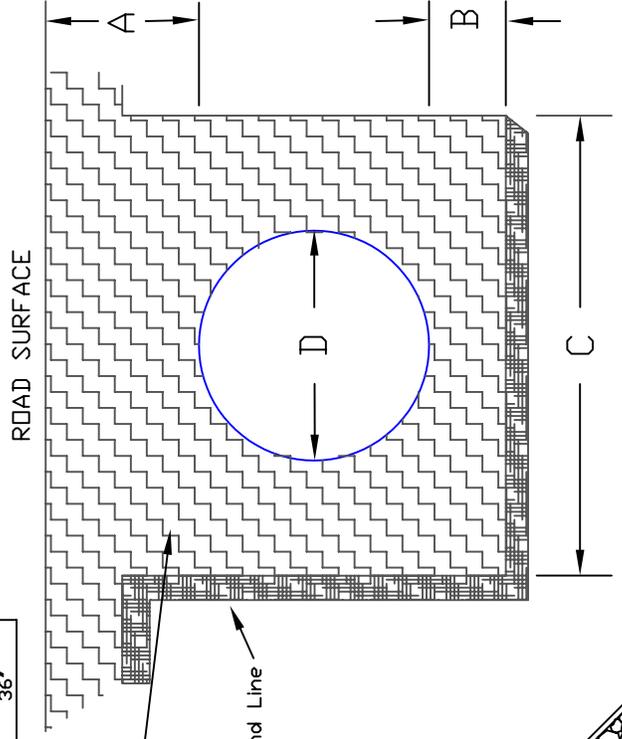
DOWNSPOUT

Use where ground conditions are irregular.



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

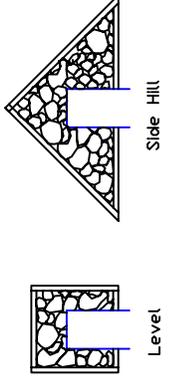
CULVERT BACKFILL & BASE PREPARATION (For Culverts Less Than 36')



BEDDING MATERIAL:

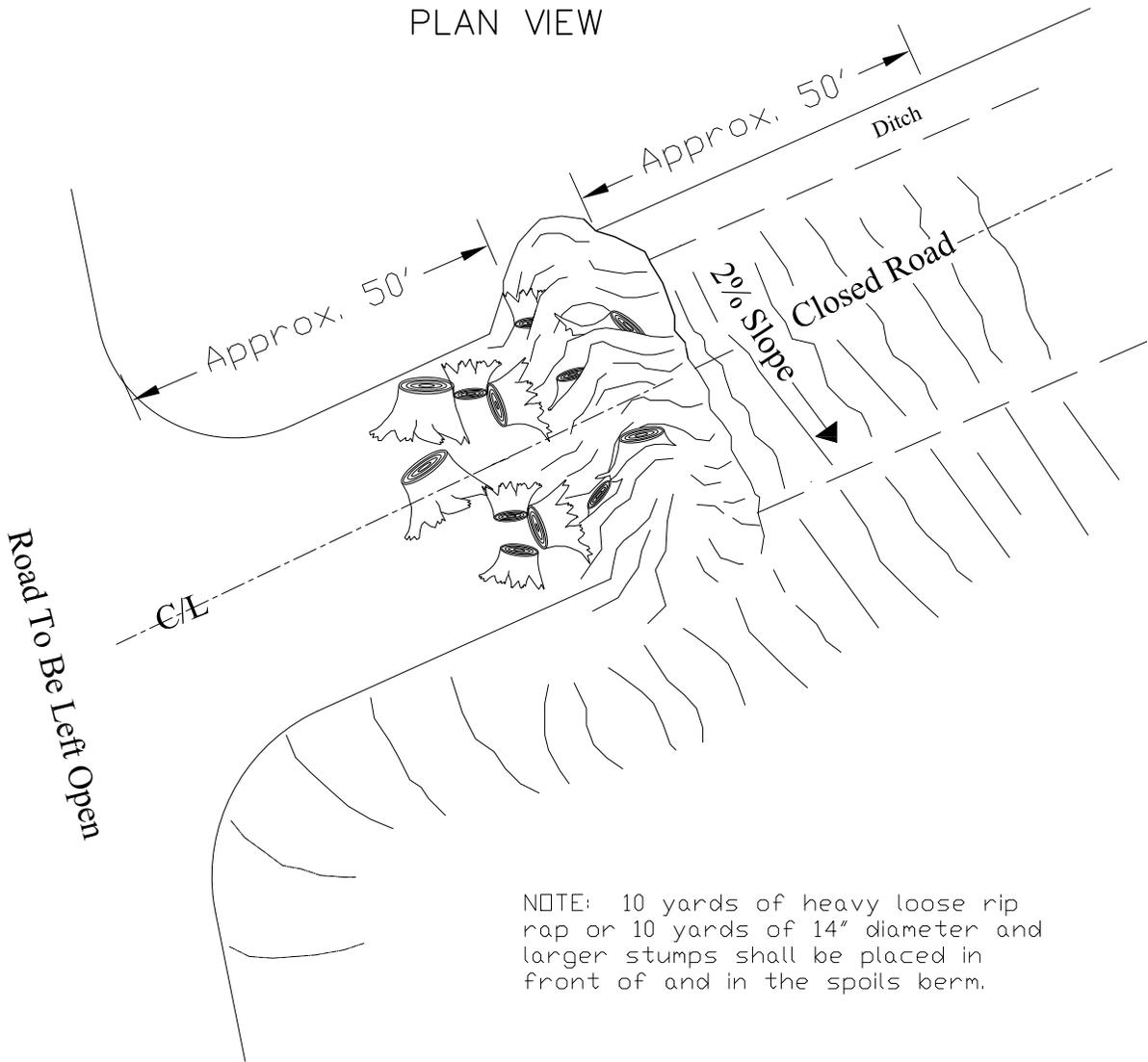
Use granular material - 3' minus. Large rocks shall be replaced with suitable material. Materials of poor or non-uniform bearing capacity shall be removed and replaced with suitable fill.

DISSIPATOR SPEC'S
Size in Culvert Diameters
Area 2×2
Depth 1
Aggregate 1/3

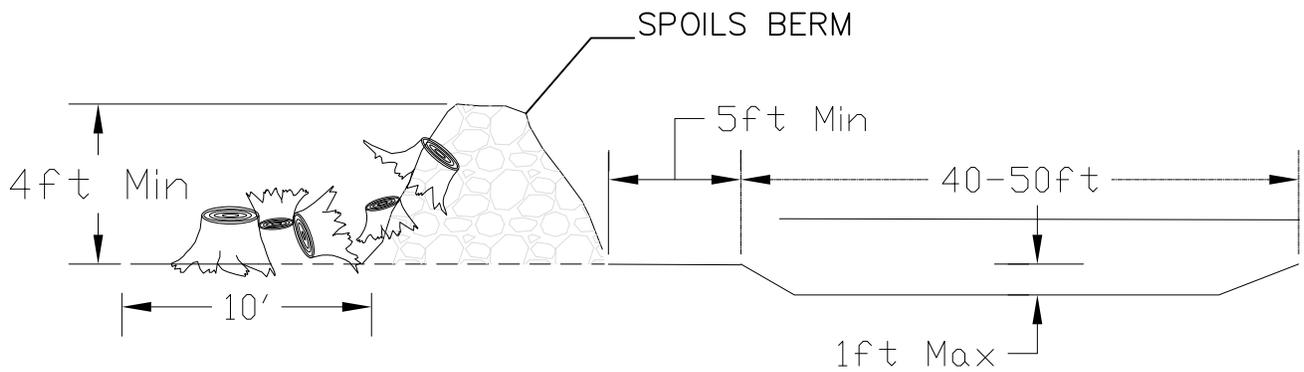


SPOILS BERM DETAIL

PLAN VIEW



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



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

County: *Osage*
 District: Highlands
 Contract Administrator:
 Eric Anderson

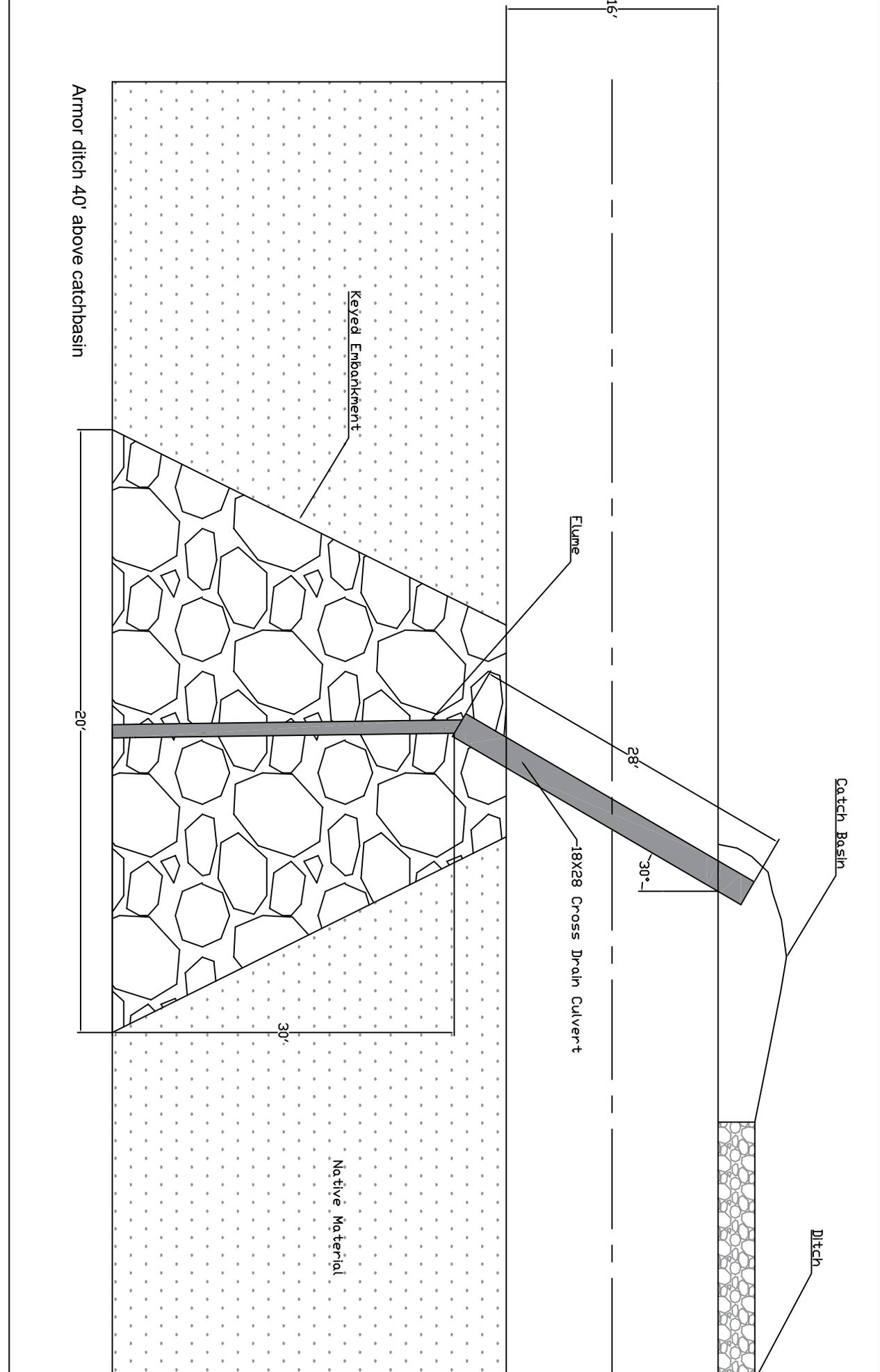
Revisions

By Date

Legal Description:
T37R33S9

Drawn: CR Project: Keyed Embankment
 Designed: CR View: Plan View
 Checked: Date: 12/10/19
 Sheet: 1/2

Gibraltar Keyed Embankment



Q GIBRALTAR TIMBER SALE

REGION: Northeast

CONTRACT #:30-100480 ENGINEER: Eric Anderson

DISTRICT: Highlands

DATE:12/15/2019

	<i>Construction</i>	<i>Reconstruction</i>	<i>Maintenance</i>	
ROAD NUMBERS:	E363416S		E363309F	E373303E
Comments:	E373303F		E363316E	E373309E
	E373309E		E363316G	E373316A
	E373309F		E363316J	E373321E
	E373313E		E363316K	MIRES CREEK
	E373313G		E363316O	RD
			E363316Q	USFS 2154
			USFS 2040	E373313E
			E363408E	E373313F
			E363416F	E373313G
			E363416H	E373335F
			E363416S	USFS 2152
			E363417E	PALMER
			E363417K	SPUR RD
			E363418E	
			E363418F	
ROAD STANDARD:	<i>Construction</i>	<i>Reconstruction</i>	<i>Maintenance</i>	
NUMBER OF STATIONS:	68.76	0.00	793.03	
CLEARING & GRUBBING:				
EXCAVATION AND FILL:	\$47,673		\$7,300	
MISC. MAINTENANCE:			\$11,446	
ROAD ROCK:				
ADDITIONAL ROCK:				
CULVERTS AND FLUMES:			\$700	
STRUCTURES/MATERIALS:				

TOTAL COSTS:	\$47,673	\$0	\$19,446
<i>COST PER STATION:</i>	\$693	\$0	\$25

	\$/per move	# of moves	Total
MOBILIZATION:	\$500	7	\$3,500

Excavation

Extra Rock

Total for Extras

Extras are not in total

TOTAL (All Roads) = \$70,619.00
SALE VOLUME mbf = 3,310
TOTAL \$/MBF = \$21.34