



GOOD NEIGHBOR AUTHORITY TIMBER NOTICE OF SALE

SALE NAME: *Langille*

AGREEMENT NO: **36-107763**

AUCTION: October 24th, 2024 starting at 10:00 a.m., **COUNTY:** Skamania
Pacific Cascade Office, Castle Rock, WA
See DNR website for remote auction protocol.

SALE LOCATION: Sale located approximately 17 miles south of Randle, WA. Elevation 2,700'-4,000'.

PRODUCTS SOLD

AND SALE AREA:

Unit 01: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing NF-2810041 road.

Unit 02: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 03: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 04: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing NF-2810041 road.

Unit 05: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 06: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing NF-2810041 road.

Unit 07: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 08: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 09: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 10: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 11: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 12: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the Temp 2810.1 road.

Unit 13: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the Temp 2810.1 road.

Unit 14: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the Temp 2810.1 road.



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Unit 15: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing 2810000 road.

Unit 16: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing 2810000 road.

The above described products, located on approximately 183 acres on part(s) of: T09R08E Sections 4-8 and T10R08E Sections 29, 31, and 32, in Skamania County as shown on the attached timber sale map and as designated on the sale area.

ESTIMATED SALE VOLUMES AND QUALITY:

| Species | Avg DBH | Total MBF | Price \$/MBF | MBF by Grade | | | | | UT |
|-----------------|---------|-----------|--------------|--------------|----|-----|-------|-----|----|
| | | | | SM | 1S | 2S | 3S | 4S | |
| Douglas-fir | 14.5 | 1,318 | TBD | - | - | 186 | 879 | 244 | 9 |
| Western hemlock | 10.8 | 113 | TBD | - | - | - | 61 | 52 | - |
| Noble Fir | 12.2 | 74 | TBD | - | - | 8 | 41 | 21 | 4 |
| Silver Fir | 11.5 | 47 | TBD | - | - | - | 36 | 11 | - |
| Red Alder | 7.7 | 15 | TBD | - | - | - | - | 15 | - |
| Subtotal | | 1,566 | | - | - | 194 | 1,018 | 342 | 12 |

MINIMUM BID: TBD/MBF (Est. total value: \$TBD)

BID METHOD: Sealed Bids

ESTIMATED TOTAL VALUE: \$TBD

PERFORMANCE SECURITY:

\$TBD

SALE TYPE: MBF Scale

EXPIRATION DATE: October 1, 2008

ALLOCATION: Export Restricted

BIDDABLE SPECIES: Douglas-fir

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

HARVEST METHOD: Ground-based, shovel, forwarder, skidder, tethered, or cable. This sale is estimated at 52% uphill cable thinning, 1% downhill cable thinning and 47% ground-based thinning.



GOOD NEIGHBOR AUTHORITY TIMBER NOTICE OF SALE

Falling, yarding, and heavy equipment operations will not be permitted from October 1 to May 31 unless authorized in writing by the Contract Administrator to reduce soil damage and erosion.

Additional restrictions apply, see Remarks section below.

ROADS:

131.95 stations of Construction, 54.76 stations of Reconstruction, 1,487.59 stations of pre-haul maintenance, 135.45 stations of decommissioning. All road construction and haul will not be permitted from October 1 to June 30 unless authorized in writing by the Contract Administrator. Additionally, landing construction, temporary road construction, and rehabilitation, are not permitted from March 1 to July 15 in Units 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 due to the spotted owl nesting and fledging season. Reconstruction, and pre-haul maintenance work taking longer than 5 hours to complete in a single location, is not permitted on 2800000, 2810000, 2810041, 2810042, 2810051, Temp 2810.1, Temp 28142.1, Temp 28141.1, Temp 18141.2, and Temp 28141.3 from March 1 to July 15 to limit detrimental noise disturbance during the spotted owl nesting and fledging season. The distance between work sites that constitutes a separate work site is 0.25 miles. Any optional roads built by the Purchaser must meet all the specifications in the road plan.

Any optional roads built by the Purchaser must meet all the specifications in the road plan. On all optional roads, Purchaser may provide and place less rock than shown on the ROCK LIST, when approved in writing by the Contract Administrator given favorable environmental conditions for operations.

ACREAGE DETERMINATION

CRUISE METHOD: Acres determined using GPS methods. 183 gross acres, 2 acre deducted for roads, 181 net acres. Cruised using variable plot method. Basal Area Factors of 33.61, 40, and 46.94 used on the units. Sighting height was 4.5 feet. A total of 127 plots were taken.

Shapefiles are available upon request.

SPECIAL REMARKS: The following timing restrictions apply to this contract and shall apply in the locations shown on the attached timber sale map.

All road reconstruction activities and all timber haul operations are not permitted from October 1 to June 30 unless authorized in writing by the Contract Administrator.

If a wolf den or rendezvous site is discovered, the following timing restrictions will apply. Within 0.25 miles of the active wolf den or rendezvous sites, any road work, right-of-way timber falling and yarding, rock pit operation, or heavy equipment operations shall not be allowed from March 1st through September 1st, and within 1 mile all activities shall be seasonally restricted from April 1st to July 15th.

Harvest activities, including landing and temporary road construction, felling, skidding, yarding, and rehabilitation, are not permitted from March 1 to July 15 in Units 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 to limit detrimental noise disturbance during the spotted owl nesting and fledging season.



GOOD NEIGHBOR AUTHORITY TIMBER NOTICE OF SALE

Winter harvest operations may occur if authorized in writing by the Contract Administrator and if waiver conditions exist. See contract for conditions.

Slash piles shall be covered by plastic.

Slash piles shall not be created within 60 ft. of all streams.

Notify the Contract Administrator when Brushing is proposed from July 1st through October 31st as soon as possible.

The Forest Service will construct a bridge on the 2810041 road where it crosses Yellow Jacket Creek in 2025. Construction of this bridge must be completed prior to hauling on the 2810041 road.

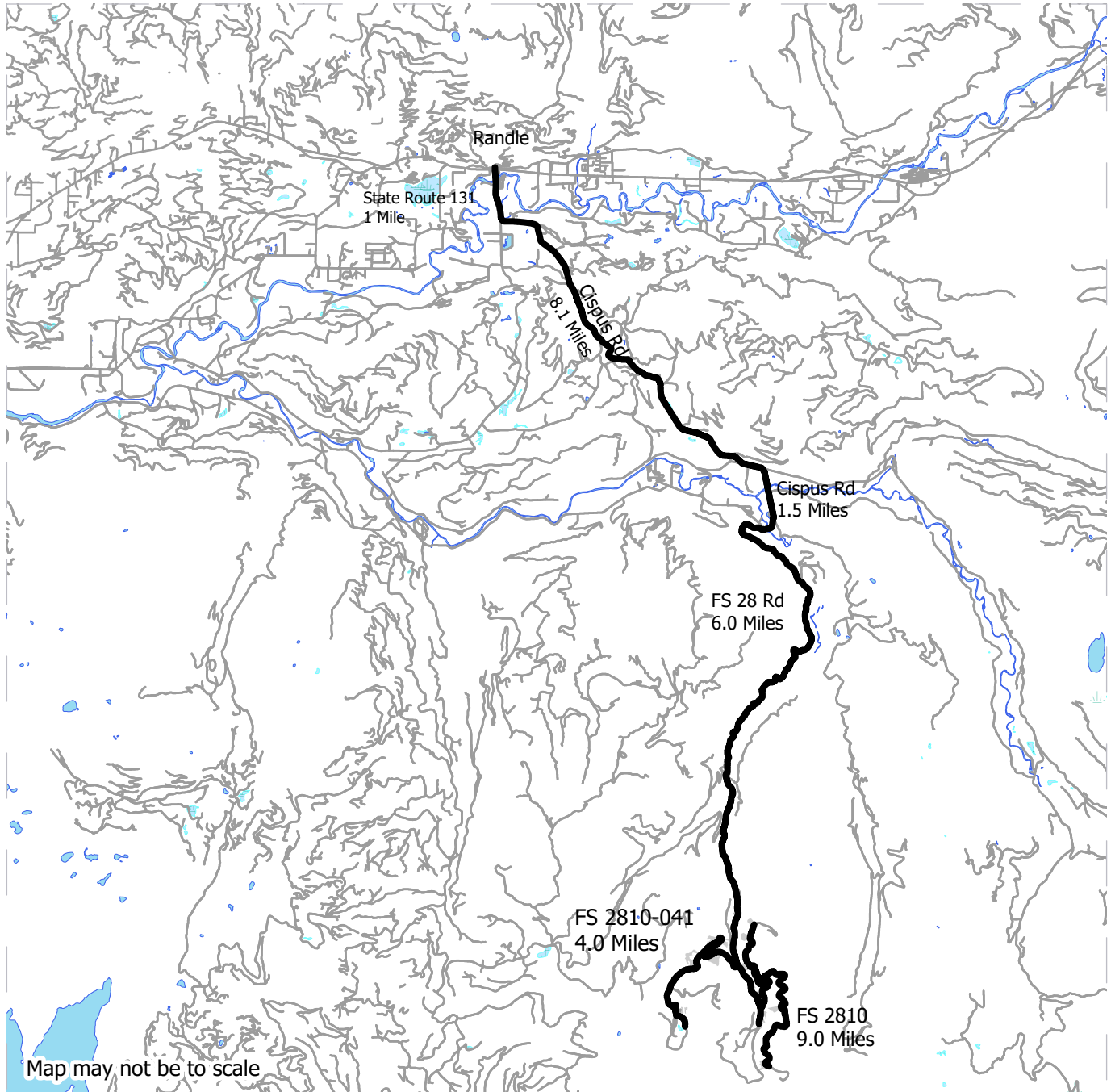
Work allowed in fish-bearing waters August 1 – August 15; exclude work August 16 through July 31. Work allowed in non-fish-bearing streams less than 0.25 miles from fish-bearing waters August 1 – August 15; exclude work August 16 through July 31.




For additional information, please contact Ben Hagedorn at (360) 819-7236 or Benjamin.hagedorn@dnr.wa.gov

DRIVING MAP

SALE NAME: LANGILLE
AGREEMENT#: None
TOWNSHIP(S): T10R08E, T09R08E

NATIONAL FOREST: Gifford Pinchot
COUNTY(S): Skamania
ELEVATION RGE: 2,700-4,000



| | |
|---|--------------|
|  | Harvest Unit |
|  | Haul Route |
|  | Other Route |

DRIVING DIRECTIONS:

From Randle head south on State Route 131 for 1 mile. Turn left onto Cispus Rd and follow for 8.1 miles. Turn right to continue on Cispus Rd and follow for 1.5 miles. Take a slight turn left onto the FS 28 Rd and follow for 6 miles.

Turn Left onto FS 2810 and follow for 9 miles (Units 7-16)

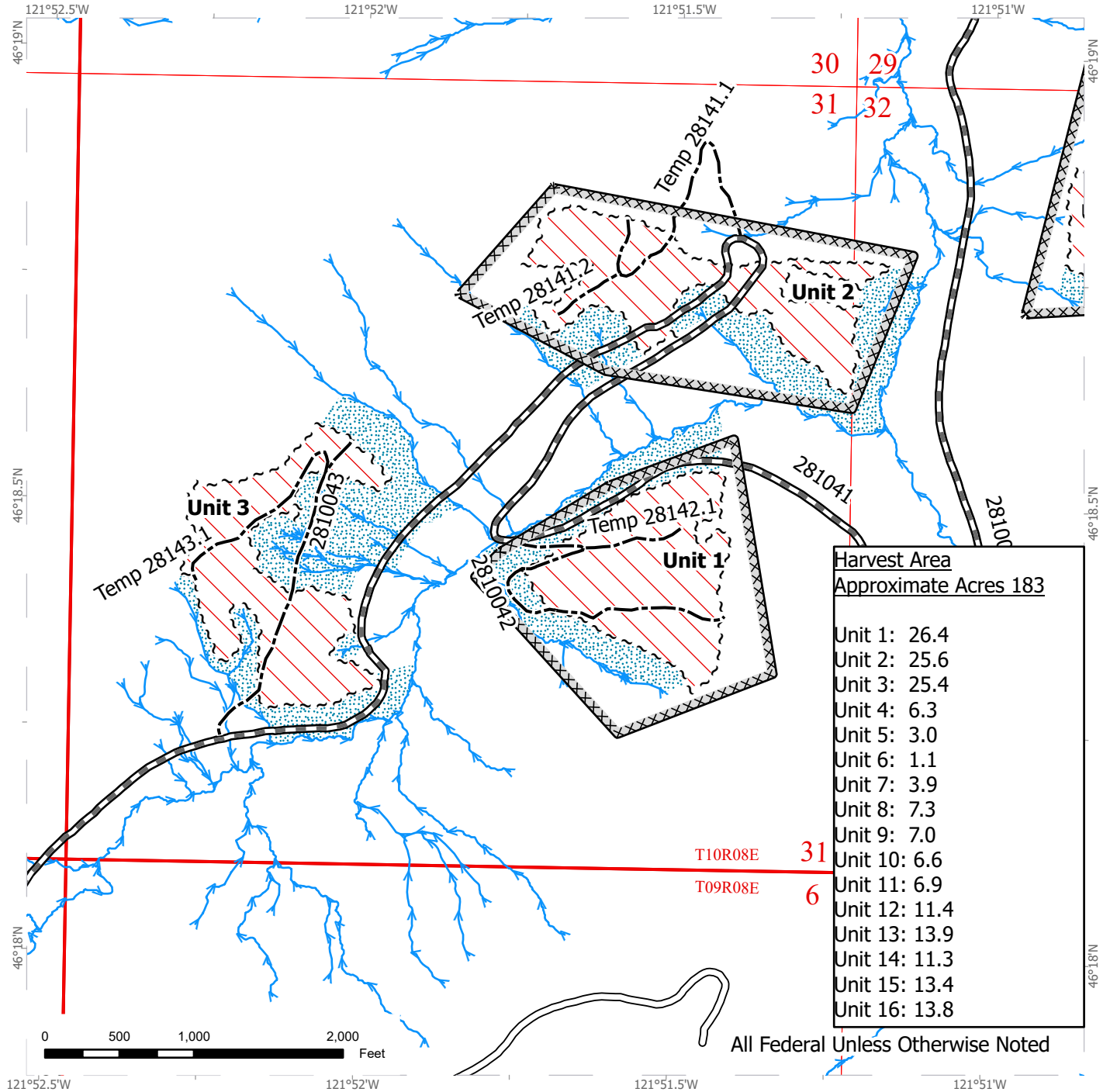
Turn Left onto FS 2810 and follow for 3.2 miles to FS 2810-041. Turn Right and follow for 4 miles. (Units 1-6)



GOOD NEIGHBOR AUTHORITY TIMBER SALE MAP

SALE NAME: LANGILLE
AGREEMENT #: 36-107763
TOWNSHIP(S): T10R08E, T09R08E

NATIONAL FOREST: Gifford Pinchot
COUNTY(S): Skamania
ELEVATION RGE: 2500-4500



| Harvest Area | |
|-----------------------|------|
| Approximate Acres 183 | |
| Unit 1: | 26.4 |
| Unit 2: | 25.6 |
| Unit 3: | 25.4 |
| Unit 4: | 6.3 |
| Unit 5: | 3.0 |
| Unit 6: | 1.1 |
| Unit 7: | 3.9 |
| Unit 8: | 7.3 |
| Unit 9: | 7.0 |
| Unit 10: | 6.6 |
| Unit 11: | 6.9 |
| Unit 12: | 11.4 |
| Unit 13: | 13.9 |
| Unit 14: | 11.3 |
| Unit 15: | 13.4 |
| Unit 16: | 13.8 |

All Federal Unless Otherwise Noted

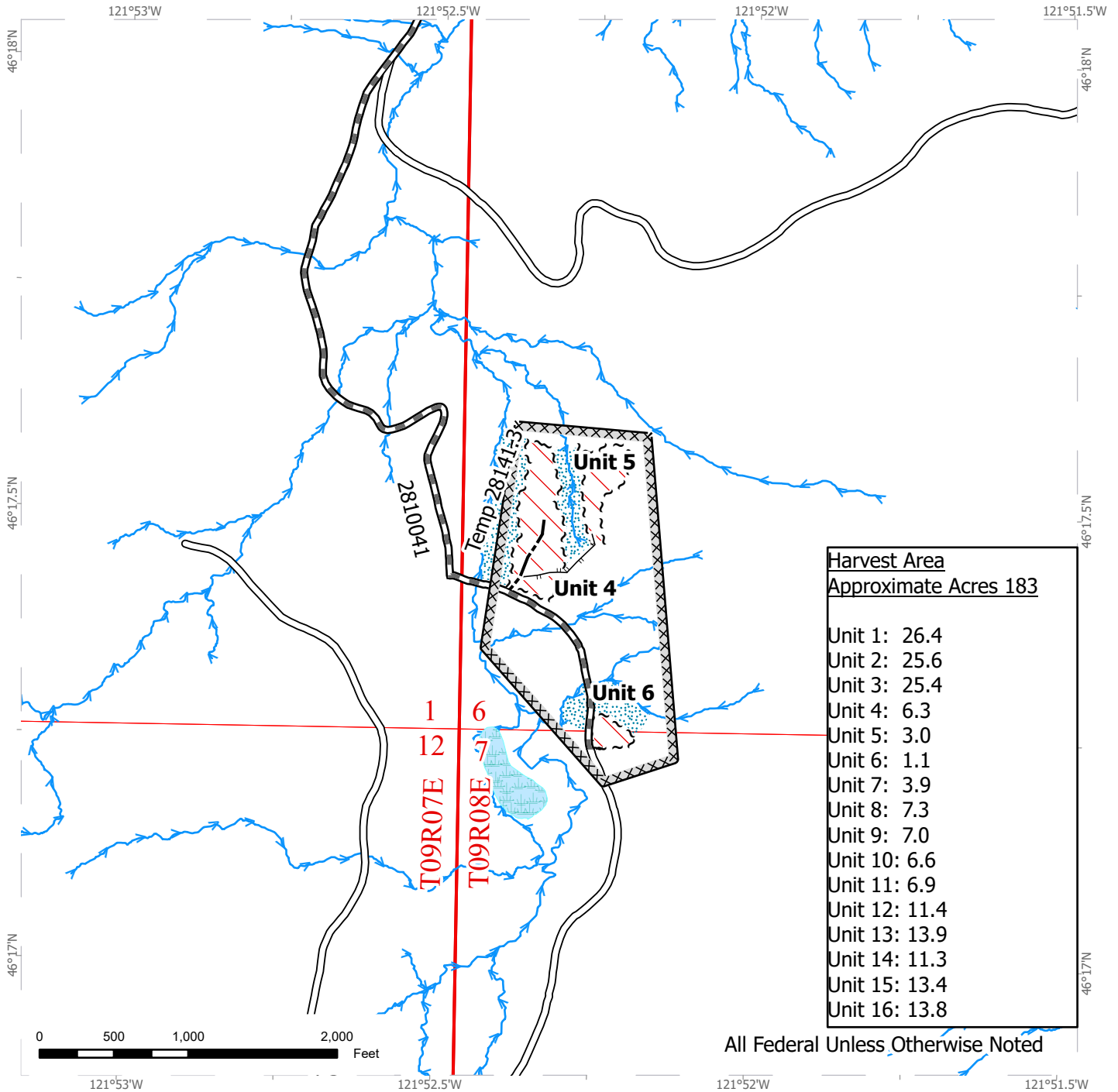
| | | |
|---------------------------|---------------------------------|------------------------------|
| Variable Density Thinning | Existing Roads | Streams |
| Riparian Zone | Required Pre-Haul Maintenance | Public Land Survey Sections |
| Sale Boundary Tags | Optional Temporary Construction | Public Land Survey Townships |
| Timing Restriction | | |



GOOD NEIGHBOR AUTHORITY TIMBER SALE MAP

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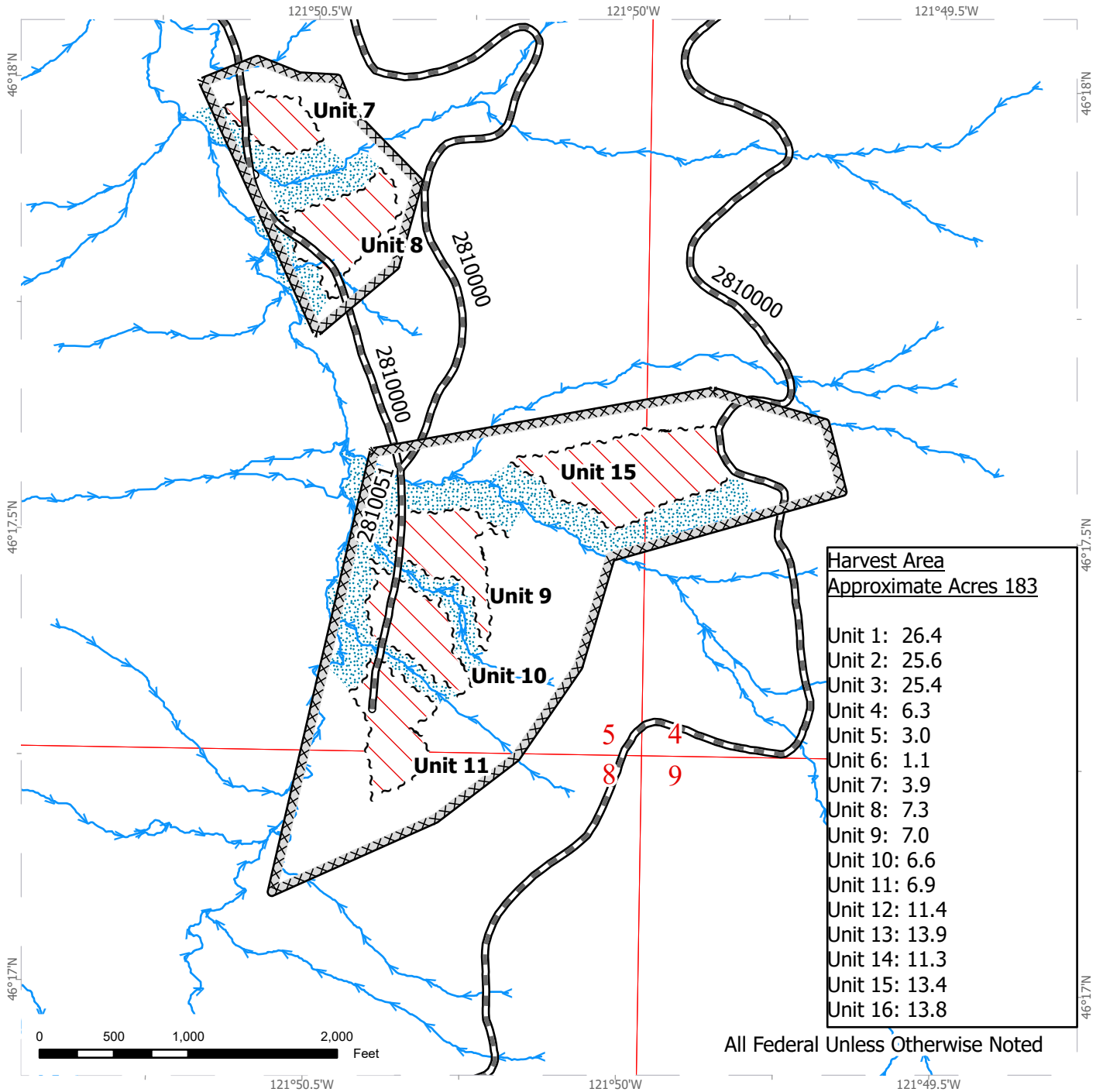
| | | |
|---------------------------|---------------------------------|------------------------------|
| Variable Density Thinning | Existing Roads | Streams |
| Riparian Zone | Required Pre-Haul Maintenance | Public Land Survey Sections |
| Sale Boundary Tags | Optional Temporary Construction | Public Land Survey Townships |
| Timing Restriction | | |



GOOD NEIGHBOR AUTHORITY TIMBER SALE MAP

SALE NAME: LANGILLE
AGREEMENT #: 36-107763
TOWNSHIP(S): T10R08E, T09R08E

NATIONAL FOREST: Gifford Pinchot
COUNTY(S): Skamania
ELEVATION RGE: 2500-4500



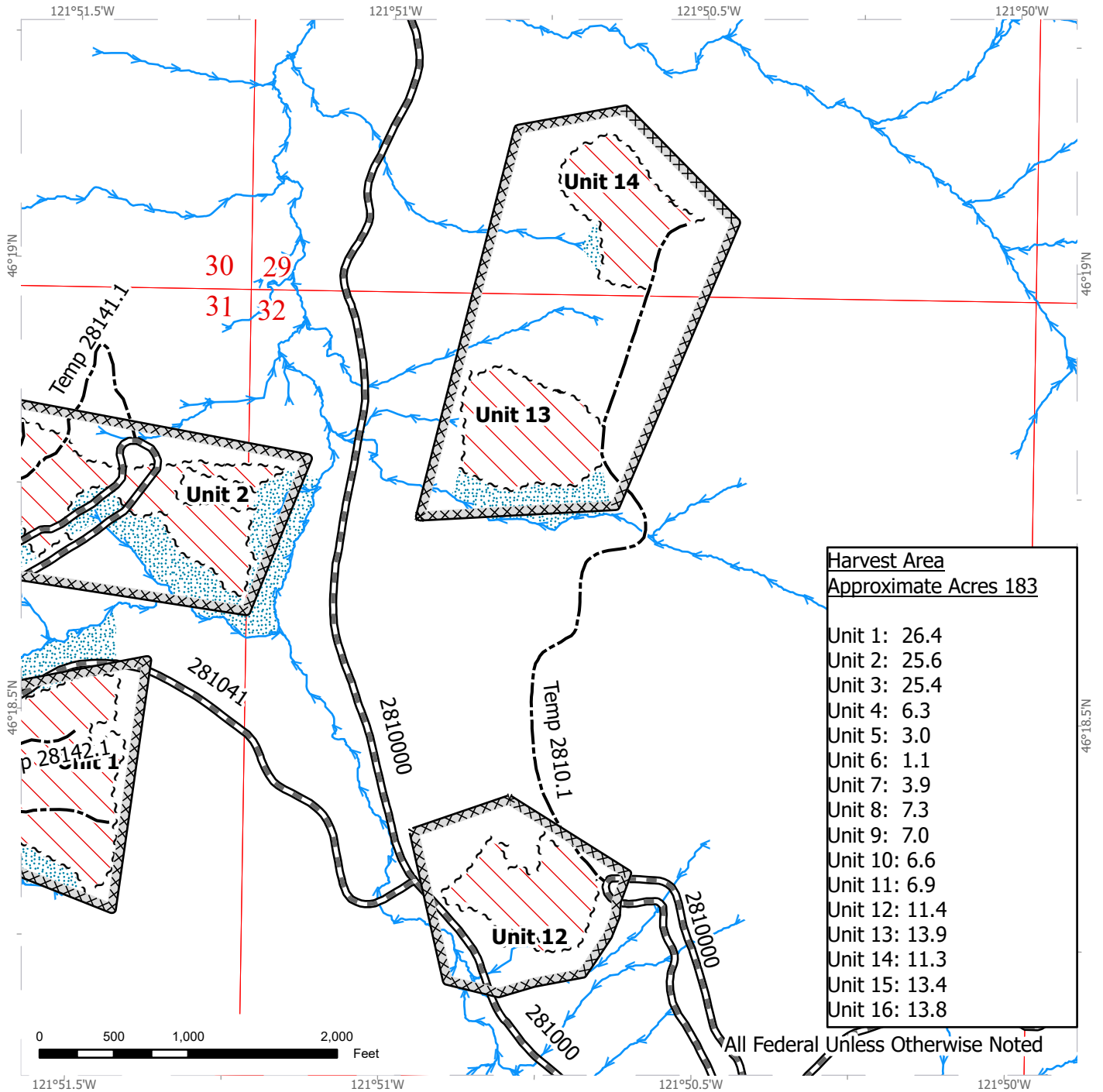
| | | |
|---------------------------|---------------------------------|------------------------------|
| Variable Density Thinning | Existing Roads | Streams |
| Riparian Zone | Required Pre-Haul Maintenance | Public Land Survey Sections |
| Sale Boundary Tags | Optional Temporary Construction | Public Land Survey Townships |
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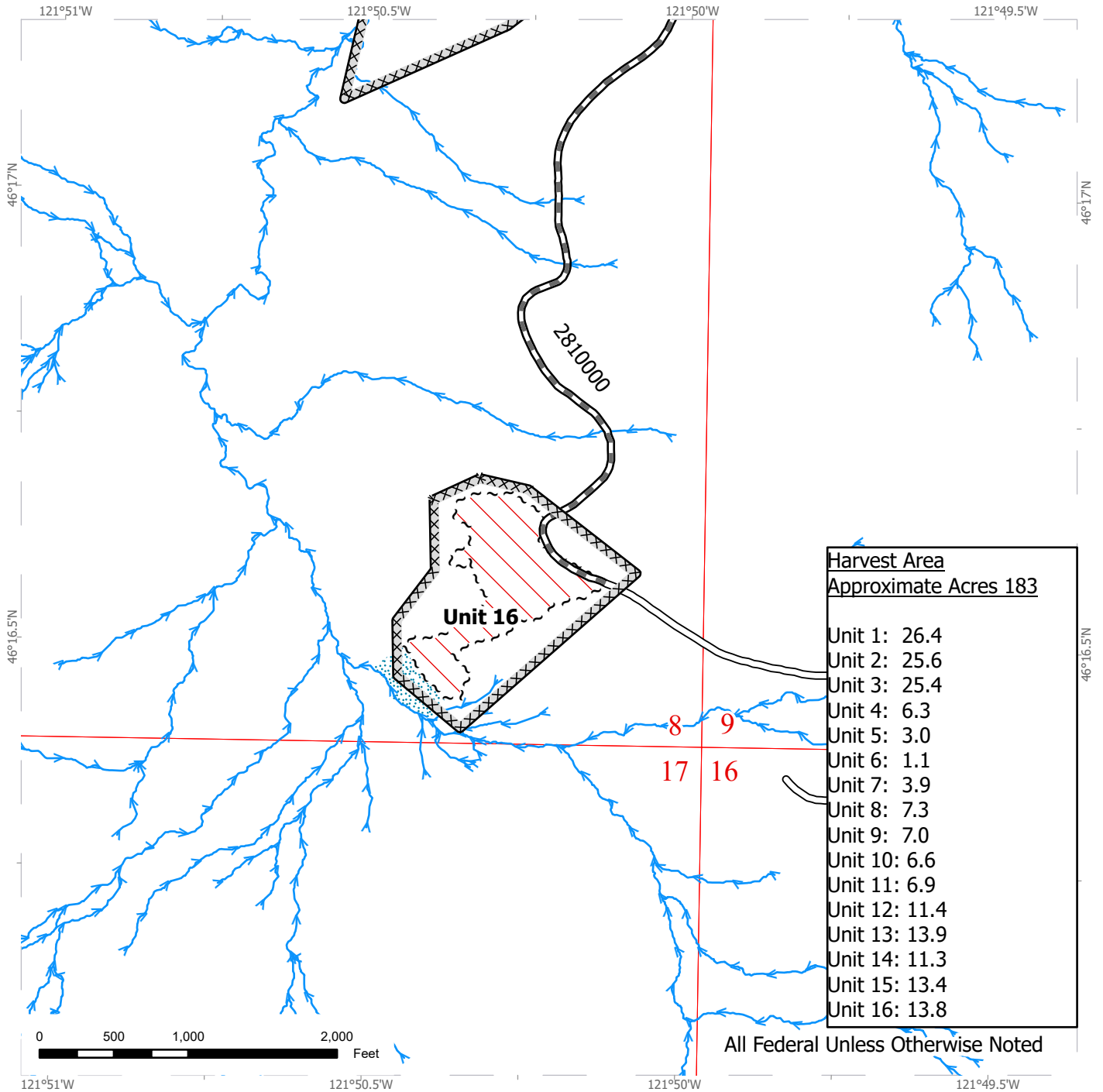


| | | |
|---------------------------|---------------------------------|------------------------------|
| Variable Density Thinning | Existing Roads | Streams |
| Riparian Zone | Required Pre-Haul Maintenance | Public Land Survey Sections |
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COUNTY(S): Skamania
ELEVATION RGE: 2500-4500

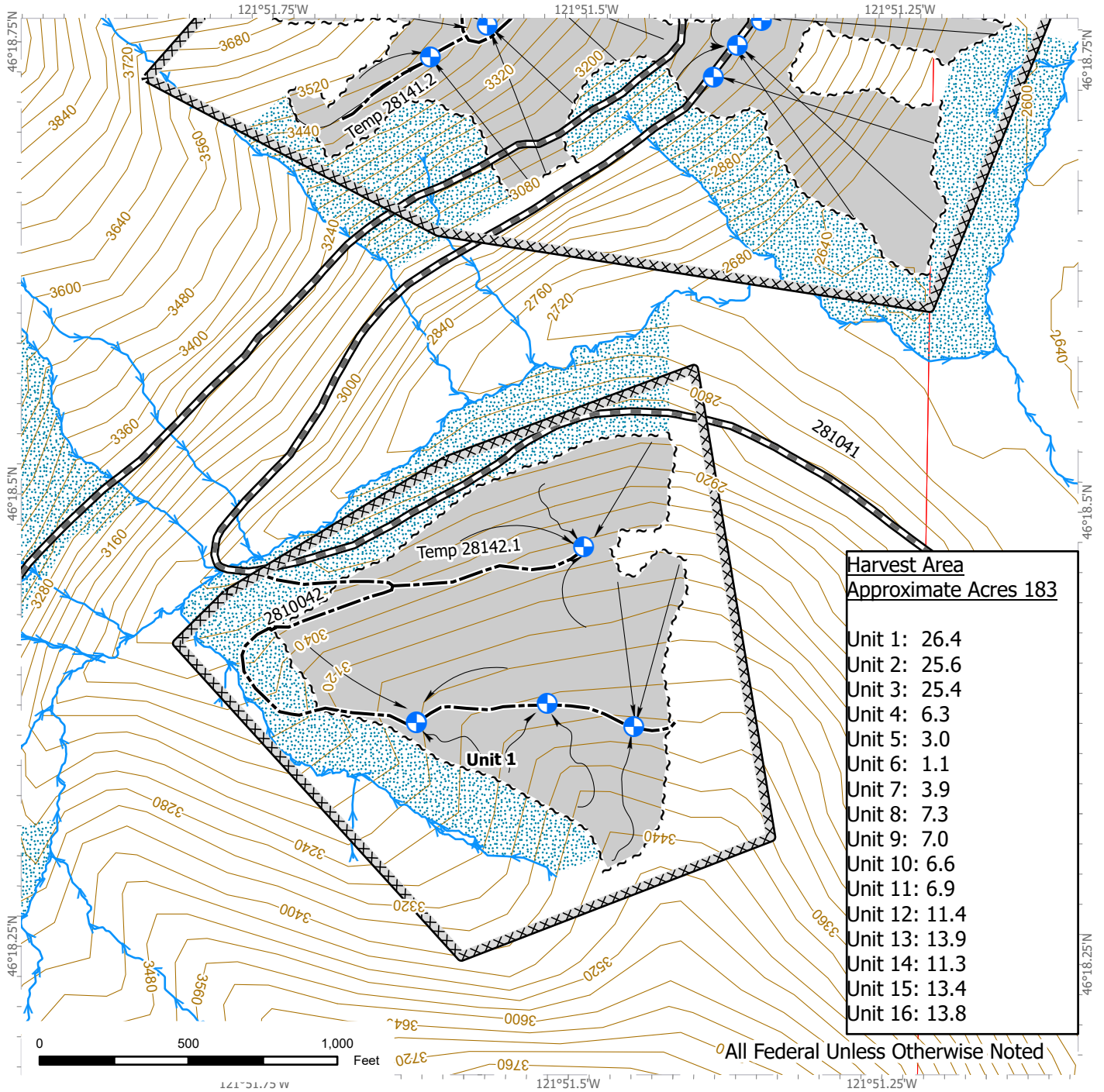


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|---------------------------|---------------------------------|------------------------------|
| Variable Density Thinning | Existing Roads | Streams |
| Riparian Zone | Required Pre-Haul Maintenance | Public Land Survey Sections |
| Sale Boundary Tags | Optional Temporary Construction | Public Land Survey Townships |
| Timing Restriction | | |

GOOD NEIGHBOR AUTHORITY LOGGING PLAN MAP

SALE NAME: LANGILLE
AGREEMENT #: 36-107763
TOWNSHIP(S): T09R08E, T10R08E

NATIONAL FOREST: Gifford Pinchot
COUNTY(S): Skamania
ELEVATION RGE: 2700-4000



| Harvest Area | |
|-----------------------|------|
| Approximate Acres 183 | |
| Unit 1: | 26.4 |
| Unit 2: | 25.6 |
| Unit 3: | 25.4 |
| Unit 4: | 6.3 |
| Unit 5: | 3.0 |
| Unit 6: | 1.1 |
| Unit 7: | 3.9 |
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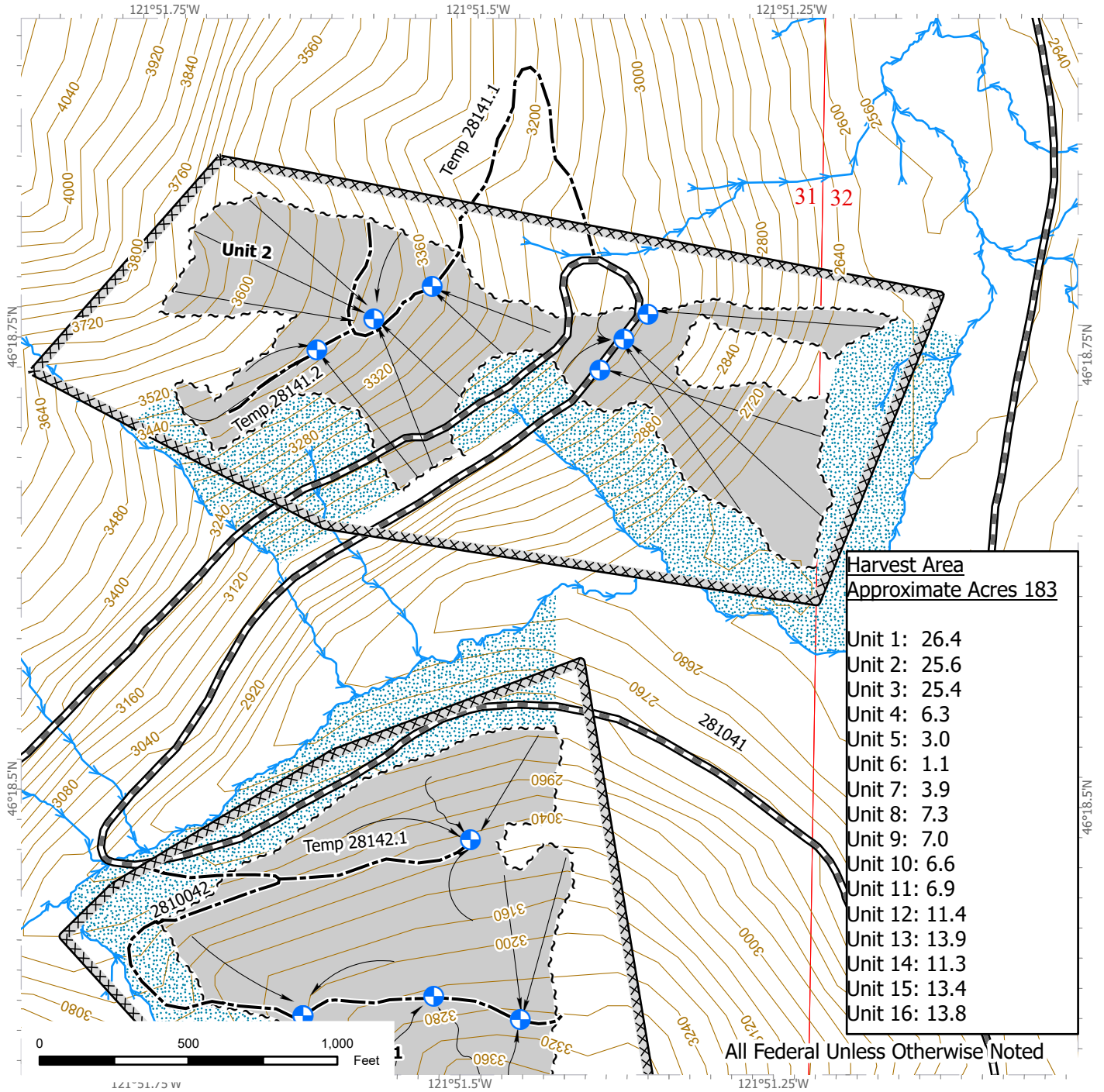
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|--------------------|---------------------------------|------------------------------|
| Cable | Existing Roads | Streams |
| Ground | Required Pre-Haul Maintenance | Stream Type |
| Harvest Unit | Optional Temporary Construction | Stream Break |
| Riparian Mgt Zone | | Landing - Proposed |
| Sale Boundary Tags | | Public Land Survey Sections |
| Timing Restriction | | Public Land Survey Townships |



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TOWNSHIP(S): T09R08E, T10R08E

NATIONAL FOREST: Gifford Pinchot
COUNTY(S): Skamania
ELEVATION RGE: 2700-4000



Harvest Area
Approximate Acres 183

| | |
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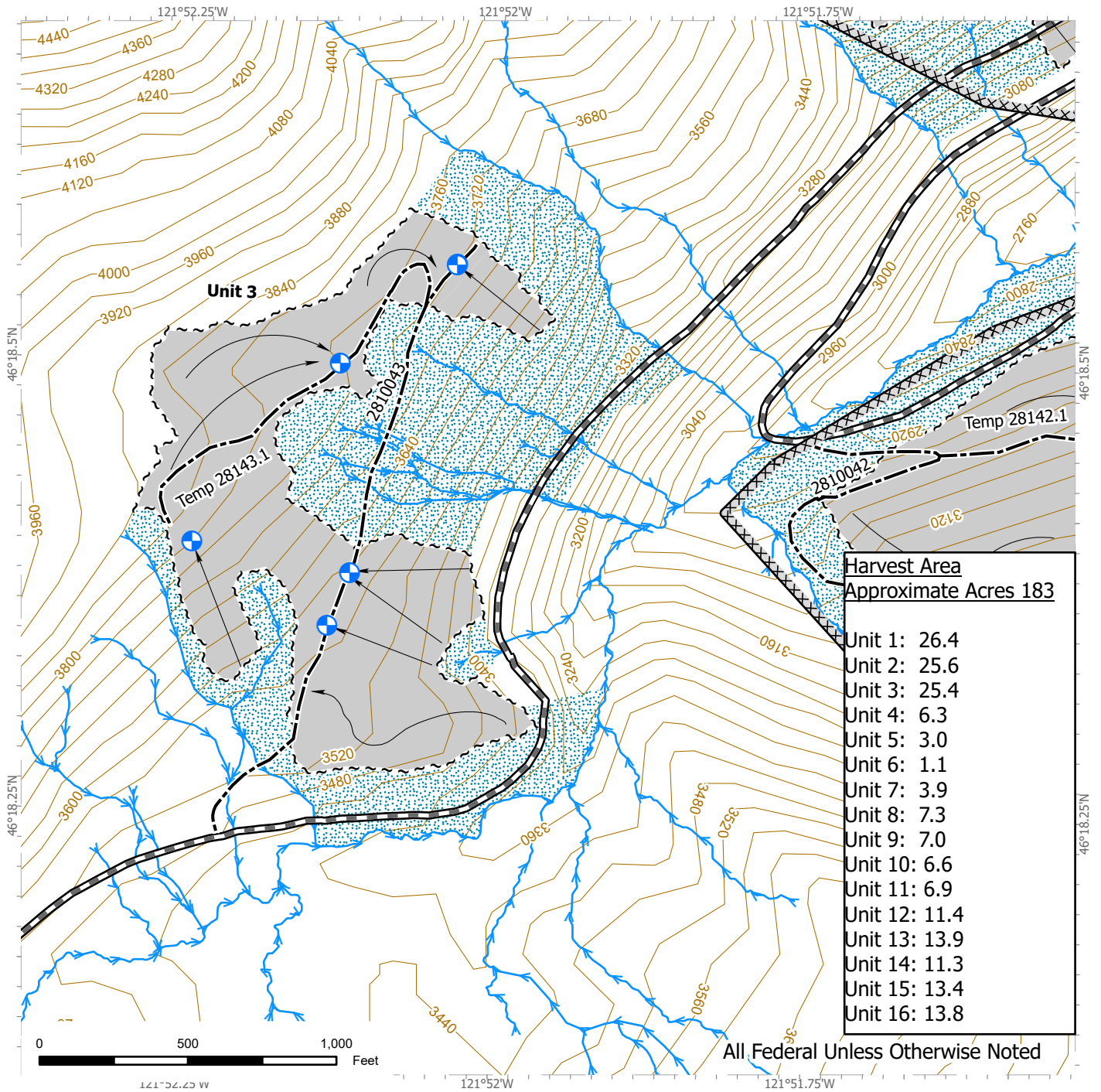
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|--------------------|---------------------------------|------------------------------|
| Cable | Existing Roads | Streams |
| Ground | Required Pre-Haul Maintenance | Stream Type |
| Harvest Unit | Optional Temporary Construction | Stream Break |
| Riparian Mgt Zone | | Landing - Proposed |
| Sale Boundary Tags | | Public Land Survey Sections |
| Timing Restriction | | Public Land Survey Townships |



GOOD NEIGHBOR AUTHORITY LOGGING PLAN MAP

SALE NAME: LANGILLE
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COUNTY(S): Skamania
ELEVATION RGE: 2700-4000



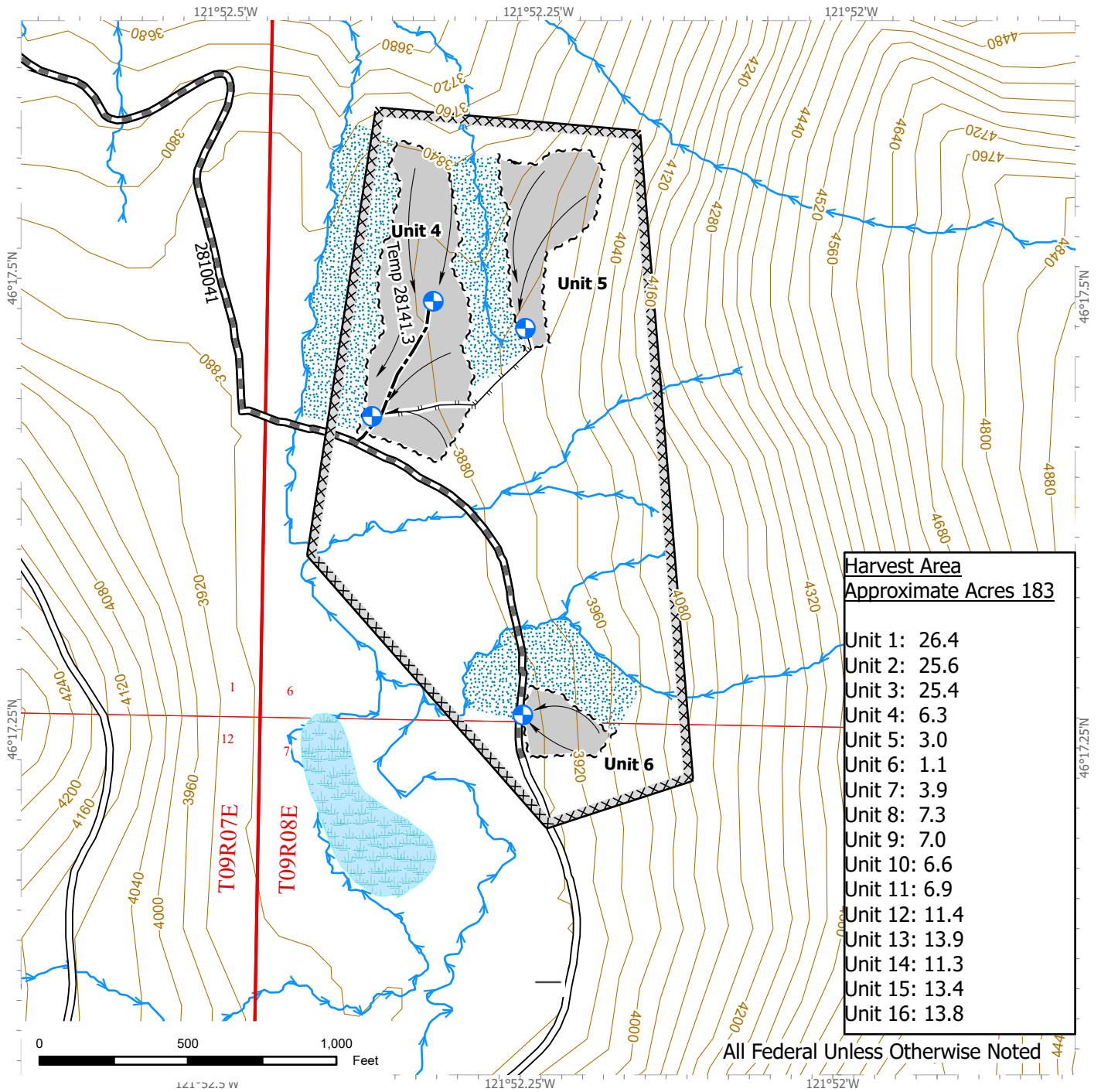
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| Cable | Existing Roads | Streams |
| Ground | Required Pre-Haul Maintenance | Stream Type |
| Harvest Unit | Optional Temporary Construction | Stream Break |
| Riparian Mgt Zone | | Landing - Proposed |
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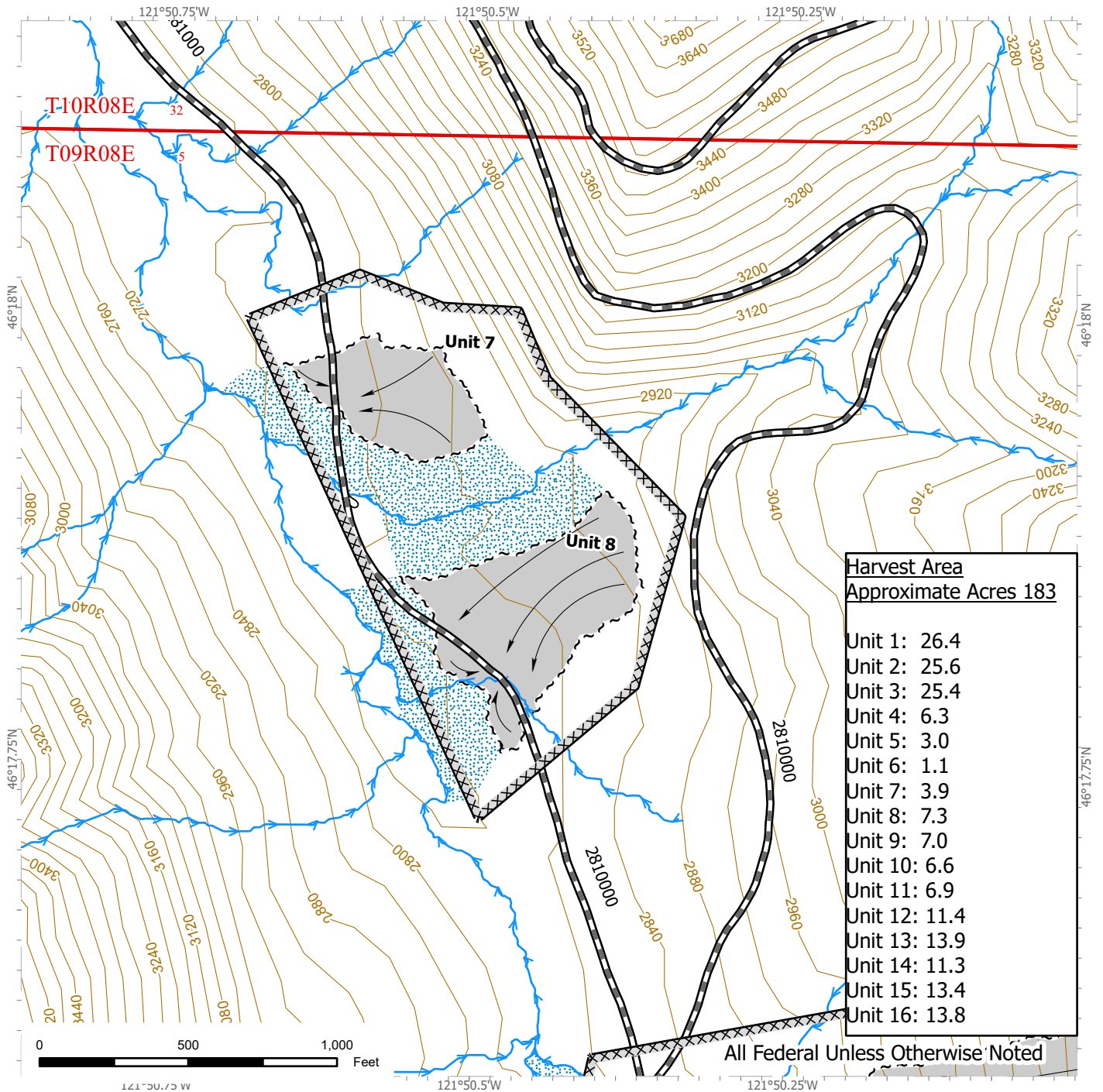
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| | | |
|--------------------|---------------------------------|------------------------------|
| Ground | Existing Roads | Streams |
| Harvest Unit | Required Pre-Haul Maintenance | Stream Type |
| Riparian Mgt Zone | Optional Temporary Construction | Stream Break |
| Sale Boundary Tags | Designated Skid Trail | Landing - Proposed |
| Timing Restriction | | Public Land Survey Sections |
| | | Public Land Survey Townships |

GOOD NEIGHBOR AUTHORITY LOGGING PLAN MAP

SALE NAME: LANGILLE
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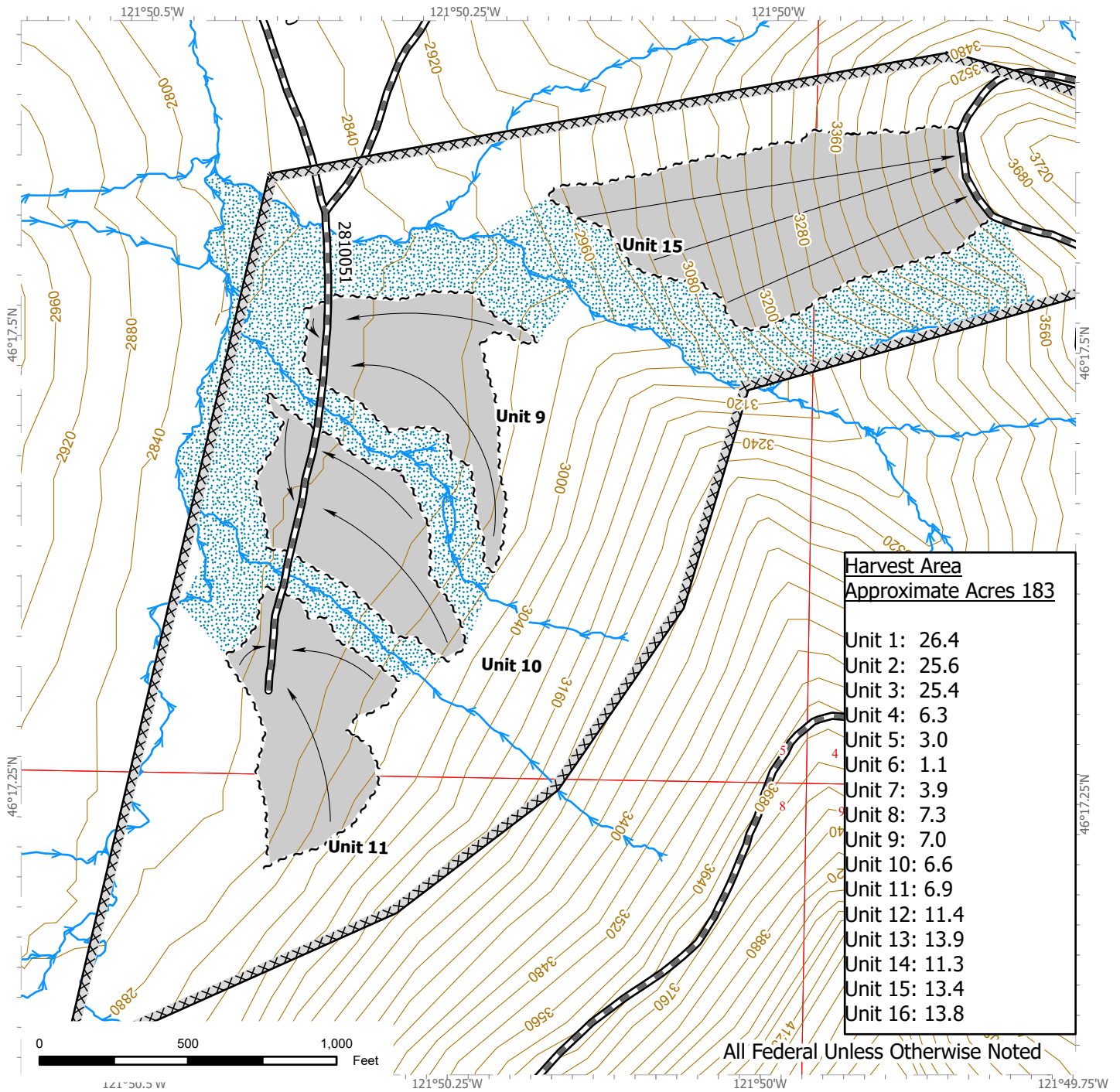
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|--------------------|---------------------------------|------------------------------|
| Ground | Existing Roads | Streams |
| Harvest Unit | Required Pre-Haul Maintenance | Stream Type |
| Riparian Mgt Zone | Optional Temporary Construction | Stream Break |
| Sale Boundary Tags | | Landing - Proposed |
| Timing Restriction | | Public Land Survey Sections |
| | | Public Land Survey Townships |



GOOD NEIGHBOR AUTHORITY LOGGING PLAN MAP

SALE NAME: LANGILLE
AGREEMENT #: 36-107763
TOWNSHIP(S): T09R08E, T10R08E

NATIONAL FOREST: Gifford Pinchot
COUNTY(S): Skamania
ELEVATION RGE: 2700-4000



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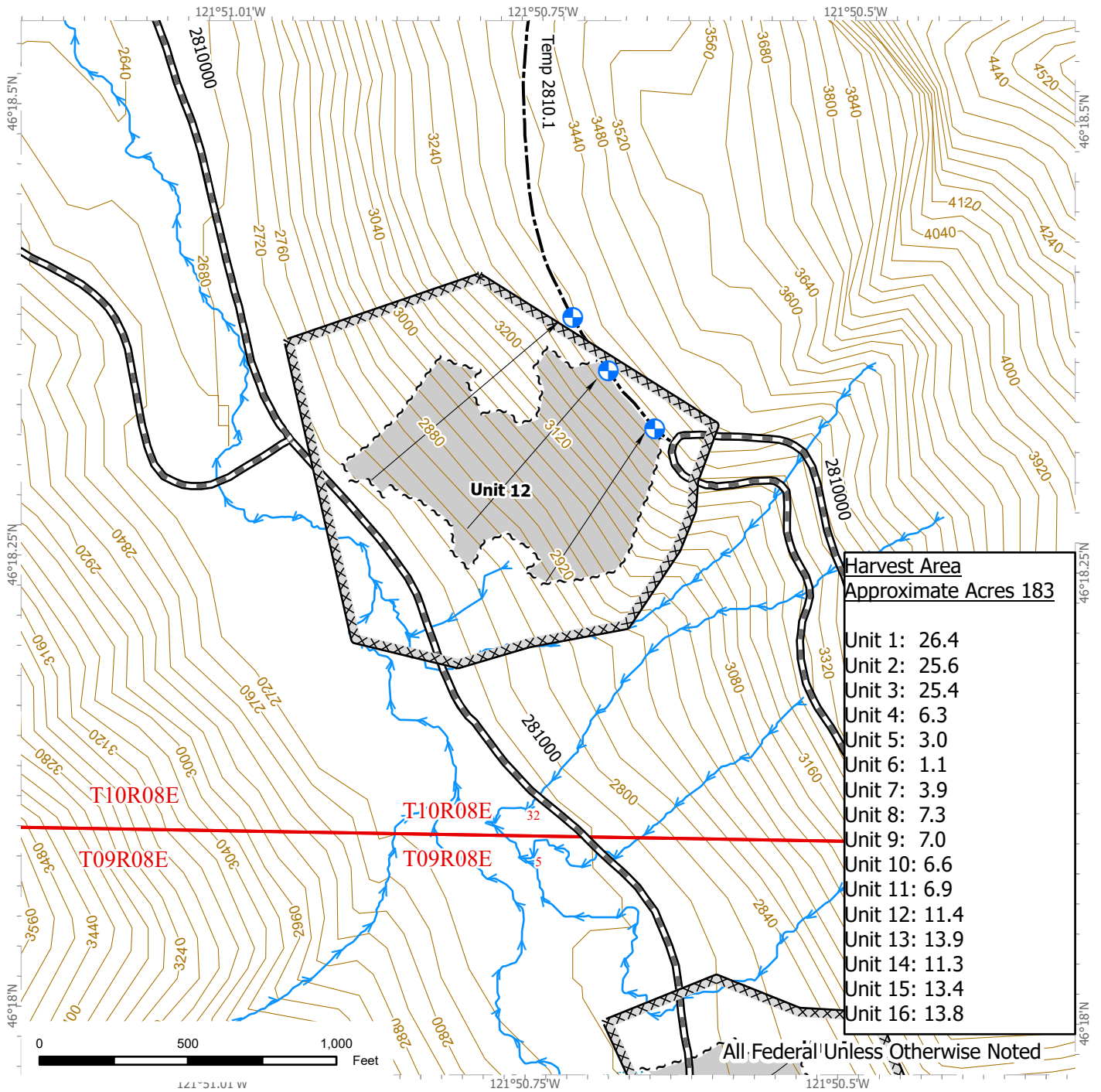
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|--------------------|---------------------------------|------------------------------|
| Cable | Existing Roads | Streams |
| Ground | Required Pre-Haul Maintenance | Stream Type |
| Harvest Unit | Optional Temporary Construction | Stream Break |
| Riparian Mgt Zone | | Landing - Proposed |
| Sale Boundary Tags | | Public Land Survey Sections |
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Harvest Area
Approximate Acres 183

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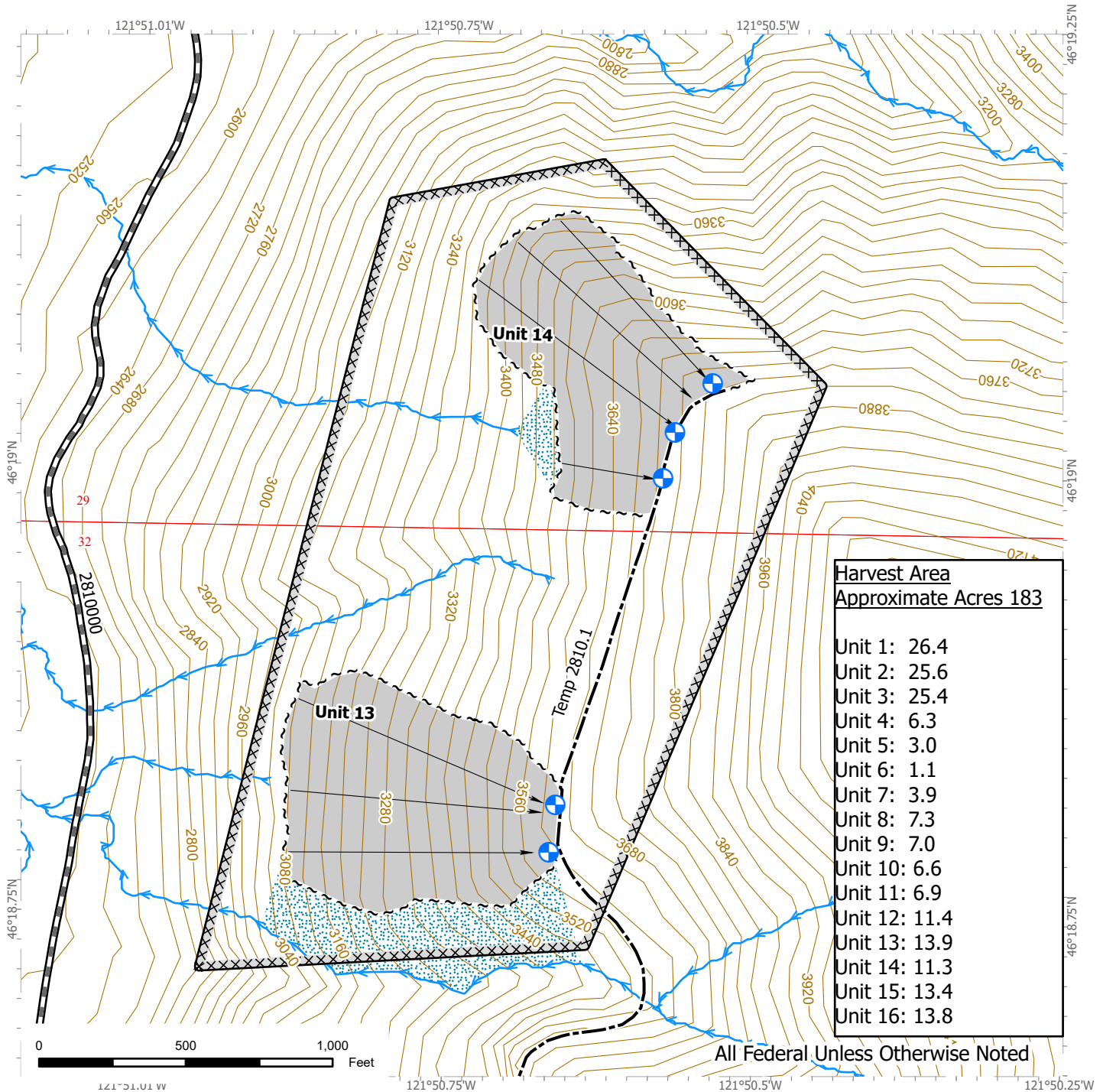
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| | | |
|--------------------|---------------------------------|-----------------------------|
| Cable | Existing Roads | Streams |
| Harvest Unit | Required Pre-Haul Maintenance | Stream Type |
| Riparian Mgt Zone | Optional Temporary Construction | Stream Break |
| Sale Boundary Tags | Landing - Proposed | Public Land Survey Sections |
| Timing Restriction | Public Land Survey Townships | |

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SALE NAME: LANGILLE
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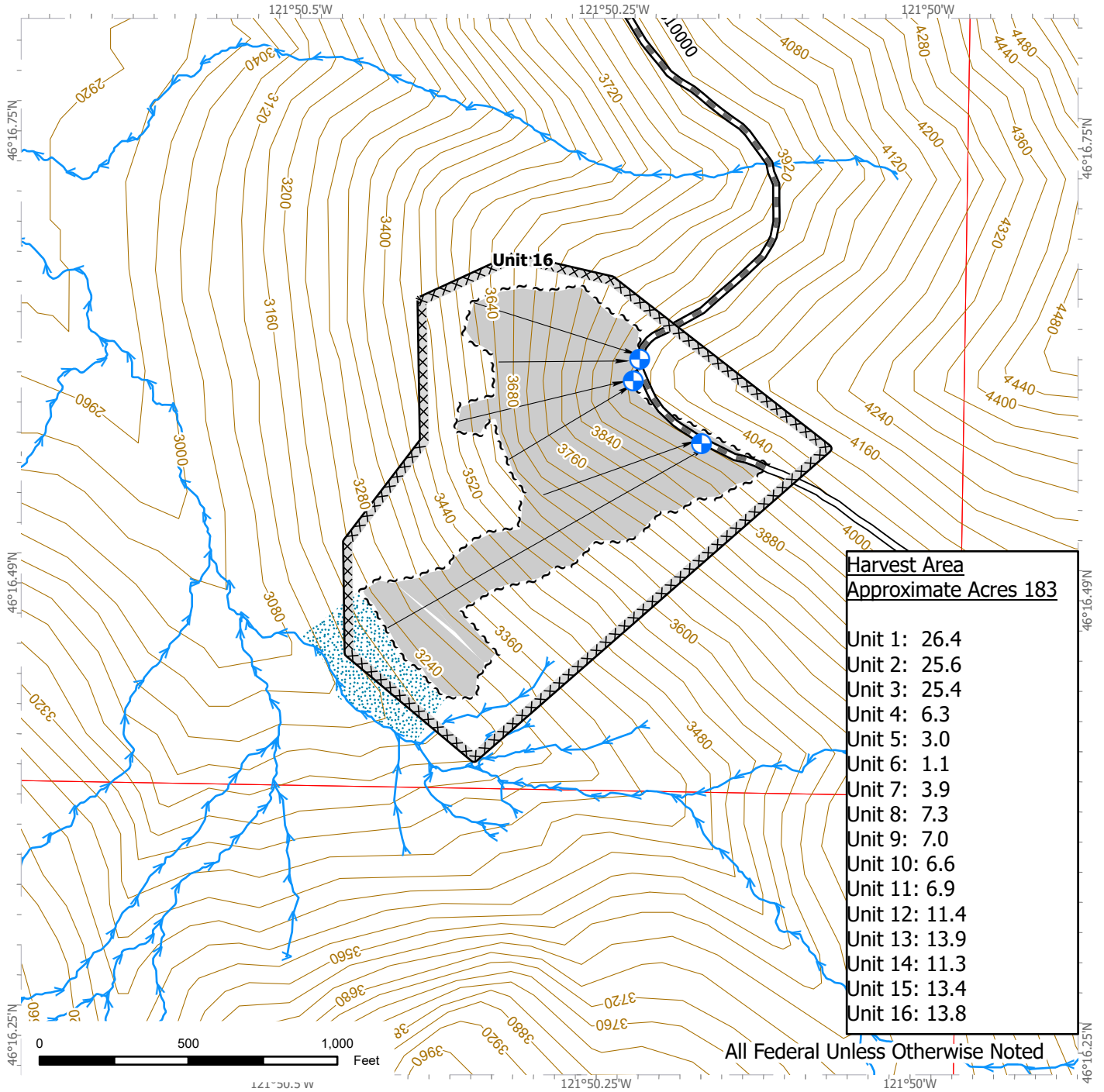
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| | | |
|-------------------------|---------------------------------|------------------------------|
| → Cable | Existing Roads | Streams |
| Harvest Unit | Required Pre-Haul Maintenance | Stream Type |
| Riparian Mgt Zone | Optional Temporary Construction | Stream Break |
| ~ ~ Sale Boundary Tags | | Landing - Proposed |
| XXXX Timing Restriction | | Public Land Survey Sections |
| | | Public Land Survey Townships |

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| Harvest Unit | Required Pre-Haul Maintenance | Stream Type |
| Riparian Mgt Zone | Optional Temporary Construction | Stream Break |
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| Timing Restriction | | Public Land Survey Sections |
| | | Public Land Survey Townships |



**STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES**

**BILL OF SALE AND CONTRACT FOR
GOOD NEIGHBOR AGREEMENT FOREST PRODUCTS**

Export Restricted MBF Scale AGREEMENT NO. 36-107763

SALE NAME: Langille

This Bill of Sale and Contract for Good Neighbor Agreement Forest Products (Contract) is entered into between the Washington State Department of Natural Resources (DNR), acting as the agent for the United States Department of Agriculture Forest Service (U.S. Forest Service) pursuant to the authority granted in 16 USC § 2113a, and [TBD] Purchaser, herein collectively referred to as the “Parties” or individually as a “Party.”

In consideration of the mutual covenants and agreements contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the State and Purchaser hereby agree to the following terms and conditions for the Contract.

SECTION G: GENERAL TERMS

G-001 Definitions

The following definitions apply throughout this contract;

Bill of Sale and Contract for Forest Products: The 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.

Contract Administrator: DNR’s State Forester’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 the Contract with the State for the right to harvest and remove forest products from the timber sale area.

Road Construction: Includes construction of all new temporary roads, reconstruction and maintenance of existing forest roads, and associated work as authorized and described in the Road Plan.

State: The State of Washington represented by the Washington State Department of Natural Resources (Seller), acting under an agreement with the U.S. Forest Service to act as their agent in the selling of Forest Products from the timber sale area, located on

U.S. Forest Service land, under the Good Neighbor Authority in 16 USC § 2113a. The State is represented by the State Forester as designated on the contract signature page. Contractual obligations of the Purchaser under the Contract are enforced by the State Forester 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 Contract. The Purchaser is responsible for independently negotiating, procuring and paying for all subcontracted services rendered.

United States Forest Service (U.S. Forest Service): An agency of the U.S. Department of Agriculture responsible for administering the nation's national forests.

G-010 Products Sold and Sale Area

Purchaser was the successful bidder on DATA MISSING and the sale was confirmed on _____. The State, as the U.S. Forest Service's agent, agrees to sell to Purchaser, and Purchaser agrees to purchase, cut, and remove the following forest products:

Unit 01: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing NF-2810041 road.

Unit 02: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 03: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 04: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing NF-2810041 road.

Unit 05: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 06: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing NF-2810041 road.

Unit 07: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 08: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 09: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 10: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 11: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags.

Unit 12: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the Temp 2810.1 road.

Unit 13: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the Temp 2810.1 road.

Unit 14: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the Temp 2810.1 road.

Unit 15: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing 2810000 road.

Unit 16: All timber as described for removal in Schedule B, bounded by white timber sale boundary tags and the existing 2810000 road.

The above described products, located on approximately 183 acres on part(s) of: Township 09 North, Range 08 East, Sections 04, 05, 07, and 08, and Township 10 North Range 08 East, Sections 29, 31, and 32 , in Skamania County as shown on the attached timber sale map and as designated on the sale area.

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 or U.S. Forest Service.

G-025 Schedules

The following attached schedules are hereby incorporated by reference:

| Schedule | Title |
|----------|-----------------------|
| A | Unit Name Crosswalk |
| B | Thinning Prescription |

G-030 Contract Term

Unless terminated earlier as authorized under the Contract, Purchaser shall remove the forest products conveyed and complete all work required by this contract prior to October 1, 2028 (Termination Date), unless this termination date is adjusted pursuant to G-040, or extended pursuant to G-050, in which case the new Termination Date shall be as established by the State.

G-040 Contract Term Adjustment - No Payment

Purchaser may request an adjustment in the contract term due to an interruption or delay in operations. A request for an adjustment must be submitted in writing and received by the State within 30 days after the start of the interruption or delay and describe Purchaser's reason for seeking a contract term adjustment. The request 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 (force majeure). A force majeure includes, but is not limited to acts of God, acts of the public enemy, acts of the Government, labor disputes, fires, insurrections, floods; road and bridge failures that deny Purchaser access to, or out of, the sale area; access road closures imposed by a road owner; excessive suspensions as provided in clause G-220; and regulatory actions, that do not arise from Purchaser's failure to comply with the Contract and which will prevent timber harvest for a period of less than 6 months.

The State shall adjust the term of the Contract to provide for additional calendar days equal to the actual time lost for the period that such force majeure continues in effect. All other terms and conditions of the Contract shall remain in effect during periods of force majeure. Lack of funds on the part of Purchaser, adverse market conditions, state approval or assistance delays, and/or similar conditions shall not constitute force majeure.

G-050 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 has diligently performed in accordance with contract provisions and the approved Plan of Operations. The term of this Contract may be extended for a reasonable time by the State, at the State's sole discretion, if all of the following conditions are satisfied:

- a. A written request for extension of the contract term must be received prior to the Termination Date of the Contract.
- b. Purchaser has completed all required roads and is in compliance with all contract and regulatory requirements (e.g., applicable Federal, state, and local laws).

- c. For the first extension, not to exceed 1 year, payment of at least 25 percent of the contract value based on the contract payment rate and advertised volume.

For the second extension, not to exceed 1 year, payment of at least 90 percent of the contract value based on the contract payment rate base and advertised volume.

The payments shall not include the initial deposit which shall be held until Purchaser has completed all obligations under this Contract.

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

To determine the unpaid portion of the timber value of the contract, multiply the contract payment rate for each item by the remaining volume for each item based on the volumes from the Timber Notice of Sale. In addition, all cash deposits that can be used for timber payments, except the initial deposit, will be deducted from the unpaid portion of the contract.

- e. Payment of [INSERT UPON AWARD OF CONTRACT] 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 \$500.00.
- g. Extension payments are non-refundable.

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 FORESTRY OPERATIONS to be performed under this contract WILL BE FREE FROM REGULATORY ACTIONS by governmental agencies.
- g. 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 or U.S. Forest Service that relate to Purchaser's operation. Any permits obtained by the State shall be transferred to Purchaser. Purchaser is responsible for all permits, amendments and renewals.

G-066 Termination Due to Governmental Regulatory Actions, Harm to the Environment or Administrative Appeal or Litigation

The State may terminate the Contract, in whole or in part, for any of the following reasons: (1) to prevent actual or potential harm to the environment including without limitation, harm to the land, water, air, habitat, animals, cave resources, or cultural resources; (2) to ensure consistency with U.S. Forest Service land and resource management plans; requirements for the timber sale imposed in any documents prepared pursuant to the National Environmental Policy Act of 1969, 42 USC 1531, et seq.; or compliance with any state or Federal law; (3) to conduct environmental analysis, including but not limited to, the Endangered Species Act of 1973, 16 USC 1531, et seq.; or (4) due to an existing or threatened administrative appeal or litigation involving the U.S. Forest Service or State that might affect or involve the timber sale, regardless of whether the Forest Service or State is required by an administrative or court order to terminate this Contract, or this Contract is named in such a proceeding.

In the event of termination for a reason stated above, Purchaser shall be entitled to a refund, or release of advanced deposits for timber cut but not removed from the sale area, and reimbursement of out-of-pocket expenses incurred as a direct result of the termination of operations; provided, however, that Purchaser shall not be entitled to any compensation provided herein when the Contract is terminated under this clause due to Purchaser's violation of any provision of the Contract. Out-of-pocket expenses do not

include, lost profits, attorney's fees, replacement cost of timber, cost or expenses of running a sawmill or other processing facility, expectancy damages, or any other anticipatory expenses suffered by Purchaser.

G-066.1 Termination Due to Catastrophic Damage

The Contract may be terminated by the State, in whole or in part, or the Purchaser may request in writing that the Contract be terminated in whole or in part, if the value of timber remaining to be cut is diminished materially because of catastrophic damage caused by forces beyond the control of the Purchaser. Catastrophic damage is defined as a major change or damage to timber on the sale area, or access to the sale area, or a combination thereof: (a) caused by forces beyond the control of Purchaser, occurring within a 12 month period, including, but not limited to, wind, flood, earthquake, landslide, fire, forest pest epidemic (except as provided below), or other major natural phenomenon; and (b) affecting the value of any trees or products authorized for sale under the Contract estimated to total (i) either more than half of the estimated timber volume stated in Notice of Sale; or (ii) more than 8.6 MMBF or equivalent.

A forest pest epidemic shall not be considered catastrophic damage under this clause when the major change or damage to timber is caused by insect or disease that occurs after felling of the timber unless Purchaser is prevented from removing such timber for reasons that would qualify for a Contract Term Adjustment in G-040.

In the event of termination for the reasons stated above, Purchaser shall be entitled to a refund, or release of advanced deposits for timber cut but not removed from the sale area, and reimbursement of out-of-pocket expenses incurred as a direct result of termination of operations. Out-of-pocket expenses do not include, lost profits, attorney's fees, replacement cost of timber, cost or expenses of running a sawmill or other processing facility, expectancy damages, or any other anticipatory expenses suffered by Purchaser.

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 and any unapplied payments; credit for unamortized improvements made by Purchaser; and payment of out-of-pocket expenses, but only under the circumstances where the Contract is terminated under G-066 or G-066.1 and the State is required to pay such out-of-pocket expenses. The State or U.S. Forest Service shall not be liable for any damages, whether direct, incidental or consequential.

G-080 Scope of State or U.S. Forest Service Advice

No advice by any agent, employee, or representative of the State or U.S. Forest Service regarding the method or manner of performing operations 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 or U.S. Forest Service 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 or U.S. Forest Service shall not be liable for any injuries resulting from Purchaser's reliance on any State or U.S. Forest Service advice regarding the method or manner of performance.

G-090 Sale Area Adjustment

The Parties may agree to adjustments in the sale area boundary due to the circumstances specified in G-066.1 or G-066. 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 excluded from harvest due to the circumstances to be measured. 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 is unable to 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-100 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 become a part of this contract and shall be paid for at the same rate and manner as other forest products under this Contract.

G-110 Title and Risk of Loss

Title. All right, title, and interest in, and to any timber, shall remain in the U.S. Forest Service, until it has been cut, measured, and removed from the sale area, at which time title shall vest in Purchaser. Any right of Purchaser to cut and remove the timber from the sale area shall end at the time this Contract terminates. Any timber not removed by the termination date remains the property of the U.S. Forest Service.

Risk of Loss. If timber is destroyed or damaged by an "unexpected event" that significantly changes the nature of the timber, the party with title, right and interest to the timber shall bear the timber value loss resulting from such destruction or damage. An "unexpected event" is defined to mean fire, wind, flood, insects or disease, or any similar cause; except that such losses caused by insect or disease after felling of timber shall be borne by Purchaser, unless Purchaser is prevented from removing such timber for reasons that would qualify for a Contract Term Adjustment in G-040.

Except as provided above, Purchaser will not be obligated to remove and pay for destroyed timber for which the U.S. Forest Service holds title. If timber is damaged by an unexpected event, and the U.S. Forest Service holds title and risk of loss for the damaged timber, the Contract Administrator shall make an appraisal to determine for each species the difference between the appraised unit value of the timber immediately prior to the value loss and the appraised unit value of timber after the loss. Current contract rates in effect at the time for the value loss shall be adjusted by differences to become the re-determined rates for the affected timber.

There shall be no obligation for the State to supply Federal timber, or for the Purchaser to accept and pay for other Federal timber, in lieu of that destroyed or damaged. Neither this contract provision, nor any other provision of the Contract, shall be construed to relieve Purchaser of liability for negligence resulting from its operations.

G-120 Responsibility for Work

All work, equipment, and materials necessary to perform this contract shall be the responsibility of Purchaser.

So far as practicable, Purchaser shall protect roads and other improvements (e.g., trails, telephone lines, ditches, fences) existing in the sale area. When Purchaser's operations are adjacent to properties of railway, telephone, or power companies, or other property, work shall not begin until Purchaser has identified actions necessary to prevent damage to such property. Purchaser shall cooperate with the owners of any underground or overhead utility lines in their removal and/or rearrangement operations in order that these operations may progress in a reasonable manner such that utility duplication rearrangement work may be reduced to a minimum, and services shall not be unnecessarily interrupted. In the event of interruption to utility services because of accidental breakage or as a result of lines being exposed or unsupported, Purchaser shall promptly notify the proper authority and shall cooperate with that authority in the restoration of service until the service is restored.

Any damage to roads and 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. Road is defined as the road bed, including but not limited to its component parts, such as subgrade, ditches, culverts, bridges, and cattle guards. Improvement is defined to include trails, telephone and utility lines, gates, fences, buildings or any other type of structure.

G-121 Exceptions

Exceptions to Purchaser's responsibility for repairs in clause G-120 shall be limited exclusively to the following:

1. Failure of (a) required improvements or roads designated in clause C-050, or (b) required or optional construction or reconstruction 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.

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 repair work identified by the State shall be promptly completed by Purchaser at an agreed price. If the Parties are unable to reach an agreement on price, Purchaser shall complete the repairs based on DNR's determination of the price. Purchaser shall be entitled to challenge the costs through the dispute resolution process in clause G-240. 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 Purchaser's 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 the State, U.S. Forest Service, agencies of the State or U.S. Forest Service, and all officials, agents and employees of the State or U.S. Forest, from and against all claims arising out of, or in any way whatsoever resulting from, 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 brought against the State, including without limitation claims brought against the State by Purchaser's agents, employees, representatives, or any subcontractor or its employees. Purchaser expressly agrees to indemnify, defend, and hold harmless the State or U.S. Forest Service for any claim arising out of or incident to Purchaser's or any subcontractors' performance or failure to perform the Contract. Purchaser's obligation to indemnify, defend, and hold harmless the State or U.S. Forest Service shall not be eliminated or reduced by any actual or alleged concurrent negligence of the State, U.S. Forest Service, or their 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 or U.S. Forest Service 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's 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 Forest Resilience Division in Olympia, WA 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 the 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, U.S. Forest Service, its elected and appointed officials, agents and employees shall be named as an additional insured on all general liability, excess, umbrella, and property insurance policies.

All insurance provided in compliance with this contract shall be primary as to any other insurance or self-insurance programs afforded to or maintained by State. 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 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 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 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 or U.S. Forest Service 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 State Forester of the state of Washington. The State Forester will notify Purchaser in writing who is responsible for administering the Contract (Contract Administrator). The State Forester 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 or U.S. Forest Service has any authority to bind the State or U.S. Forest Service to any affirmation, representation, or warranty concerning the forest products conveyed beyond the terms of this contract. The Contract Administrator shall be the State's authorized agent for purposes of receipt of notices under G-200.

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 under G-160, from the State, and any limits to this person's authority.

G-170 Assignment of Rights; Delegation of Performance (Subcontracting)

No rights or interest in this Contract shall be assigned by Purchaser without the prior written permission of the State, which approval shall be at the sole discretion of the State. Such approval shall not relieve the Purchaser of his or her responsibilities or liabilities under the Contract and may be given only if the third party assignee (assignee) has not been debarred or suspended from bidding on the award of U.S. Forest Service timber sale contracts in accordance with 36 CFR § 223.130 through 36 CFR § 223.145 and: (a) the assignee acquiring the rights of the Purchaser is acceptable to the State under the conditions and requirements then in effect for similar GNA timber sales, and assumes in writing all of the obligations to the State under the terms of the Contract as to the uncompleted portion; or (b) the rights are acquired by the assignee in trust as security and subject to such conditions as may be necessary for the protection of the public interests. 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 (i.e., subcontractor), but Purchaser is not thereby relieved of any duty to perform or any liability under this contract. Any 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 and 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

All notices required to be given under this Contract shall be in writing and personally delivered to the Party's authorized agent as provided in G-160; or sent by U.S. mail (certified mail requested), or personally delivered to a Party at the address listed below:

Department of Natural Resources Purchaser
Northwest Region
Attn: Annette Mesman
919 N Township Street
Sedro-Woolley, WA 98284

A party can designate a different authorized agent or address in writing by serving notice of such change as provided in this clause.

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 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. Purchaser shall not be entitled to any compensation if the Contract is terminated by the State as provided in this clause.
- b. If the Contract expires pursuant to clause G-030 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 for any of the reasons stated in G-066, for any other reason as provided for in the Contract or, if deemed necessary in the public interest.

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 or U.S. Forest Service, Purchaser is entitled to request a contract term adjustment under clause G-040.

If it reasonably appears that the damage that the State or U.S. Forest Service 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 all terms and conditions of this contract, then the State may elect to terminate the Contract under G-066 just as if the harvest was prevented by a governmental statute, 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 Federal law, is unauthorized. Purchaser agrees to pay two times the current contract rates for any unauthorized cutting, removal or damage of forest products.

G-240 Dispute Resolution

The following procedures apply in the event of a dispute regarding interpretation or administration of this Contract. The Parties agree that these procedures must be followed before a lawsuit can be initiated against the State. Purchaser's failure to

submit a request for resolution of a dispute under the procedures set forth shall relieve the State of any obligations whatsoever arising under the Contract regarding the dispute. As used herein, a dispute means a demand or assertion by Purchaser seeking, as a legal right, the extension or adjustment of the term of the Contract, or any other relief under the Contract, including a claim for the payment of any money.

a. In the event of a dispute, Purchaser must submit a written request to the State Forester for resolution of any dispute prior to seeking other relief. If the dispute involves a claim for money owed by the State, Purchaser shall submit with the written request a demand for the amount owed and any appropriate data necessary to establish that the amount requested accurately reflects what Purchaser claims is owing under the Contract for which the State is liable.

b. The State Forester will issue a written decision on Purchaser's request within ten business days for matters not involving a claim for money. In the case of a claim by Purchaser for money owed under the Contract, the State Forester shall render a decision within 30 days, or notify Purchaser of the date when a decision will be issued. The State Forester's decision shall be final unless Purchaser submits a request under c.

c. Within ten business days of receipt of the State Forester's decision, Purchaser may submit a written request for resolution of the dispute to the Department Supervisor of the Department of Natural Resources.

d. Unless otherwise agreed, a conference will be held by the Department Supervisor within 30 calendar days of the receipt of Purchaser's request for review of the State Forester's written decision. Purchaser and the State Forester will have an opportunity to present their positions. The Department Supervisor will issue a decision within a reasonable time of being presented with both Parties' positions.

G-250 Compliance with All Laws

Purchaser is responsible for completing all operations in compliance with all applicable statutes, regulations and laws; and in compliance with all applicable requirements of the U.S. Forest Service, Decision Notice and Finding of No Significant Impact (DN), Gifford Pinchot National Forest, including all applicable Mitigation Measures and Project Design Criteria in the Yellowjacket Environmental Assessment and associated errata, and applicable Best Management Practices contained in the Environmental Assessment. Failure to comply may result in suspension, and/or termination 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 and Personal Property Left on U.S. Forest Service Land

All equipment and personal property owned or in the possession of Purchaser, its employees, agents, or invitees, including independent contractors, shall be removed from the sale area and other U.S. Forest Service land by the termination date of this contract. Any equipment or personal property remaining on U.S. Forest Service land 60 days after the expiration of the contract may be removed and disposed of by the State. Purchaser shall pay to the State all costs of moving, storing, and disposing of such personal property and equipment. The State and the U.S. Forest Service shall not be responsible for any damages to or loss of the personal property or equipment, or damage caused by the moving, storing or disposal of the personal property or 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 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 U.S. Forest Service roads, State roads, and roads for which the State has acquired easements and road use permits; 2300000, 2800000, 2810000, 2810041, 2810042, 2810043, 2810051, Temp 2810.1, Temp 28142.1, Temp 28143.1, Temp 28141.1, Temp 18141.2, and Temp 28141.3. The State may authorize in writing the use of other roads subject to fees, restrictions, and prior rights.

The U.S. Forest Service shall have the right to use any road constructed by Purchaser during the term of the Contract for any and all purposes in connection with the protection and administration of the National Forest. Other parties, in connection with the logging of tributary National Forest timber, may use roads constructed by Purchaser when the Contract Administrator determines that such use will not materially interfere with Purchaser's Operations. The State may grant others the right to use the roads constructed by Purchaser during the term of the Contract if such uses are authorized by the U.S. Forest Service and will not materially interfere with Purchaser's operations.

G-320 Erosion Control

Reference Road Plan for revegetation measures. To reduce soil damage for cable operations and logging operations, the Contract Administrator may require water bars to be constructed, Forest Service provided grass seed to be placed on exposed soils,

slash mats to be utilized in skid trails, or other mitigation measures to be taken by the Purchaser, in addition to what is already required under this contract.

G-330 Pre-work Conference

Purchaser shall arrange with the Contract Administrator to review this Contract and examine the sale area before beginning any operations. Purchaser shall furnish the State a written Plan of Operations at the pre-work conference that includes the Harvest Plan required in H-040, and sets forth planned periods for road construction and completion of all other contractual requirements. The State's written approval of the Plan of Operations is a prerequisite to commencement of Purchaser's operations. A revised Plan of Operations shall be submitted by Purchaser for the Contract Administrator's approval to accommodate a contract adjustment under G-040, a contract extension under G-050, or if determined necessary by the Contract Administrator. 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

Purchaser shall protect all survey monuments, witness corners, reference monuments, and bearing trees (hereinafter collectively referred to as "survey markers") against destruction, obliteration, or damage during operations performed under the Contract. If any survey markers are destroyed, obliterated, or damaged by such operations, Purchaser shall hire an appropriate county surveyor or registered land surveyor to reestablish or restore the survey markers at the same location, using surveying procedures in accordance with the *Manual of Instruction for the Survey of the Public Lands of the United States* as required by the U.S. Forest Service under federal law and the State under RCW 58.24, and shall record such survey in appropriate county records. The Contract Administrator may prescribe in writing additional requirements for protection of monuments, corners, and bearing trees.

G-370 Blocking Roads

Purchaser shall not block the 2300000, 2800000, 2810000, and 2810041 roads unless authority is granted in writing by the Contract Administrator. Any other road the operator would like to block must be approved in writing by the Contract Administrator.

G-396 County Hauling Permit

The hauling of forest products, rock or equipment may require a county road hauling permit. Purchaser is responsible for obtaining a permit and any costs associated with extra maintenance or repair levied by a county. Purchaser must provide the Contract Administrator with a copy of the executed permit.

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.

SECTION P: PAYMENTS AND SECURITIES

P-010 Initial Deposit and Periodic Payment Schedule

Purchaser paid [TO BE DETERMINED ON DAY OF SALE] as an initial deposit to the State, which will be maintained until Purchaser has completed all obligations under this Contract. Purchaser shall not be entitled to any interest earned on the initial deposit. However, all or a portion of the initial deposit may be applied as the final payment for the timber if the State determines that adequate security exists for the performance or fulfillment of any remaining obligations of the Purchaser under the Contract. If the Contract expires without Purchaser's payment of the full amount specified in P-021, 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-021 Payment for Forest Products

Purchaser agrees to pay the following rates per MBF Scribner net log scale for forest products conveyed and cut or removed from the sale area.

[TO BE DETERMINED ON DAY OF SALE]

Species that are conveyed but are not listed in the table above shall be paid for at a rate to be determined by the State.

Utility logs, special cull and peelable cull logs of all species, included on loads of logs that are required to be removed and scaled per clause H-150 will be paid for on an adjusted gross scale basis at the rate of \$20.00 per MBF plus fees.

P-027 Payment for Removal of Optional Forest Products

Purchaser agrees to weigh all loads and pay the rate of \$2.00 per ton for forest product approved for removal from the sale area under clause H-157.

P-040 Weighing and Scaling Costs

Purchaser agrees to pay for all scaling and weighing costs for logs and other products sold under this Contract. Purchaser also agrees to pay for all costs associated with the transmission and reporting of scale or weight data.

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-052 Billing and Payment Procedure

The State will compute and forward to the Purchaser statements of charges provided for in the contract. Purchaser shall deliver payment to DNR's Forest Resilience Division in Olympia, WA on or before the date shown on the billing statement.

Payment will be based on the contract rate multiplied by the tons (tonnage contracts) or volume (mbf contracts) removed during the month or payment period. Included with the payment will be a summary report along with all related load tickets and the corresponding certified weight tickets for the payment period. The summary report will be generated using a computer spreadsheet and list the load tickets in ascending numerical order with the corresponding ticket number and weight or volume for each load.

P-070 Payment for Products: Damage, Theft, Loss or Mismatch

Forest products included in this agreement which are destroyed, damaged, stolen, lost, or mismatched shall be paid for by Purchaser on demand of the State. The rates contained in clause P-021 shall apply. If such material is not listed in P-021, the State shall establish the rates to be paid.

P-080 Payment Account Refund

Advance payments made under P-045 remaining on account above the value for the charges shall be returned to Purchaser within 30 days following the final report of charges. Interest shall accrue at the rate of five percent per month, or fraction thereof, on any balance owed after expiration of the thirty days.

P-090 Performance Security

Purchaser agrees to furnish, within 30 days of the confirmation date of the sale, security acceptable to the State in the amount of \$11,000[INCLUDE ON EXECUTION OF CONTRACT]. 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 62A.5 (Letters of Credit) 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 until all contractual obligations of the Purchaser are satisfied. 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 amount of the performance security required under the Contract after an Operating Release has been issued if the State determines that adequate security exists for any remaining obligations of Purchaser.

SECTION L: LOG DEFINITIONS AND ACCOUNTABILITY

L-010 Forest Products Conveyed

Forest products conveyed are all logs or parts of logs described by the 'Products Sold and Sale Area' (G-010) clause meeting the removal requirements listed in the 'Required Removal of Forest Products' (H-150) clause.

L-020 Short Logs - Peeler Blocks

Logs or parts of logs which are removed from the sale area that fail to meet the minimum gross length requirements shall be scaled and graded as short logs or peeler blocks. Such material shall be paid for at the forest products rates specified in this contract.

L-040 Utility Logs

Utility logs are logs that meet the minimum utility log standards as described by the log scaling rules applicable for this contract.

L-060 Load Tickets

Purchaser shall complete and use load tickets as directed by the Contract Administrator and, if required, use other identification as directed by the State to ensure accounting of forest products removed from the sale area. A load ticket must be fixed, as designated by the Contract Administrator, to each truck and trailer load prior to leaving the landing.

Purchaser shall account for all load tickets issued by the Contract Administrator and return unused tickets at termination of the contract, or as otherwise required by the Contract Administrator. Unused tickets not returned shall be subject to liquidated damages per clause D-030.

The State may also treat load tickets either not accounted for or not returned as lost forest products per clause P-070. All costs associated with computing the billings for lost forest products shall be borne by Purchaser.

L-070 Purchaser to Furnish Log Scale Information

Purchaser agrees to furnish the State with scaling information, supplied by a third party scaling organization showing the scale, count, and measure of forest products removed during each billing period unless the scale, count, and measure is performed by the State.

L-080 Scaling Rules

Determination of volume and grade of any forest products shall be conducted by a state approved third party scaling organization and in accordance with the Westside log scaling and grading rules and Scribner Volume Table, revised July 1, 1972, contained in the Northwest Log Rules Eastside and Westside Log Scaling Handbook (developed and produced by the Northwest Log Rules Advisory Group) and in effect on the date of confirmation of this contract.

Special scaling specifications shall be noted on the State's Brand Designation form which is hereby incorporated to this contract by reference.

L-110 State Approval of Log Scaling and Weighing Locations

Forest Product measurement and weighing facilities required by this Contract must be approved by the State. Forest products sold under the Contract which require log scaling shall be scaled, measured, or counted by a State approved third party log scaling organization.

Prior to forest products being hauled, the Contract Administrator must authorize in writing the use of State approved measurement and/or weighing facilities that are at or enroute to final destinations. Forest products from this sale shall be measured or weighed at facilities, which are currently approved for use by the State and are currently authorized for this sale. The State reserves the right to verify load volume and weights with State employees or contractors at the State's own expense. The State reserves the right to revoke the authorization of previously approved measurement locations.

L-120 Long Log Taper Distribution

Forest products over 40 feet long plus trim shall be segment scaled and the lower segment diameters shall be determined using actual taper. In order to utilize taper rules for determining segment diameters for poles and pilings greater than 40 feet in length plus trim, Purchaser must request use of a Pole and Piling Scaling Specification Agreement on file in the region office. Approval for usage of a special Pole and Piling Scaling Specification Agreement may be granted at the sole discretion of the State.

Following State approval for usage of the Pole and Piling Scaling Specification Agreement, the Brand Designation form shall be amended to incorporate the long log taper rules. The volume reported by the scaling organization for forest products over 40 feet plus trim will be expanded by 5 percent and the additional 5 percent volume shall be billed to the purchaser at the contract rate.

L-130 Conversion Factors

Forest products removed from the sale area that are not measured in units specified in the 'Payment for Forest Products' clause of this contract shall be converted to board feet using Department of Natural Resources' standard conversion factors.

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, yarding and heavy equipment operations will not be permitted from October 1 to June 30th unless authorized in writing by the Contract Administrator. Additionally, felling, yarding, and heavy equipment operations will not be permitted in Units 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 from March 1 through July 15 to limit detrimental noise disturbance during the spotted owl nesting and fledging season.

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-016.

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

H-012 Leave Tree Damage Definition

Leave trees are trees required for retention within the sale area. 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 1 square foot (144 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 its root system injured or 1/3 of the circumference of its bole has cambium layer 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-016 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. Mechanical harvesters, when traveling away from approved skid trails or roads, will operate on ground cover as thick and continuous as practical that protects the soil, such as slash, existing vegetation, downed saplings, or broken limbs.
- b. Location of the skid trails must be marked by Purchaser and approved by the Contract Administrator.
- c. Skid trails must be located outside of all no harvest buffers.
- d. Skid trails shall be re-established at previous skid trail locations, except where existing skid trails are causing detrimental soil or hydrologic conditions that could be avoided with alternative skid trail locations.

- e. Except for rub trees, skid trails shall be felled and yarded prior to the felling of adjacent timber.
- f. Rub trees shall be left standing until all skidding is complete.
- g. Excessive soil damage is not permitted. Excessive soil damage is described in clause H-017.
- h. Skid trails shall be covered with a mat of slash, 4-6 inches in depth, and prior to skidding to prevent excessive soil damage during skidding operations.
- i. Contract Administrator may require skid trails to be decompacted to a depth of 12 inches prior to closure of a skid trail.
- j. Once a skid trail is closed, Purchaser will not reopen a skid trail unless approved in writing by the Contract Administrator.
- k. Erosion control measures such as slash and mulch placement, seeding and water bars will be utilized where bare soil is exposed.
- l. Skid trails and skyline corridors shall be spaced, on average, 150 feet apart.
- m. Skyline yarding corridors across intermittent streams if full suspension can be obtained may be approved in writing 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, in all or in part, by the Contract Administrator, for such periods as may be deemed necessary to avoid damage when soil rutting exceeds 6 inches in depth and for a length of 10 feet or more as measured from the natural ground line, or when ground conditions are unfavorable.

Winter harvest is allowed if ground-based equipment can operate on snow which is at least 2 feet deep, or a combination of 3 to 4 inches of compacted snow and soil frozen to at least 6 inches in depth; operations shall not continue where snow does not provide protection - for example, if it rains heavily and the soil and snow become saturated. As an indicator, overnight temperatures should be less than 25 degrees F; afternoon daytime temperatures should not exceed 32 degrees F. Contract Administrator will update District Ranger on a weekly basis when winter operations are planned or in effect.

If over-snow haul is permitted, haul will occur when roads are covered by a minimum of 2-4 inches of compacted snow, and air temperatures at the lowest elevation on the

unpaved haul route have remained below 30 degrees F over the prior 24 hours. In addition, all culvert locations and stream crossings will be marked to permit appropriate drainage work and subsequent plowing. Drainage outlets must be cut into any snow berms created by plowing operations to ensure proper drainage of snowmelt and precipitation on roadway.

To reduce soil damage, the Contract Administrator may require water bars to be constructed, Forest Service provided grass seed to be placed on exposed soils, or other mitigation measures to be taken by the Purchaser, in addition to what is already required under this Contract. Suspended operations shall not resume unless approval to do so has been given, in writing, by the Contract Administrator.

H-025 Timing Requirements for Timber Removal

All timber must be removed within 30 days of being felled.

H-030 Timber Falling

Trees shall be felled and logs shall be bucked to obtain the greatest practicable utilization of forest products and other valuable materials conveyed.

H-035 Fall Trees Into Sale Area

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

H-040 Purchaser Harvest Plan

Purchaser shall, as part of the Plan of Operations, prepare an acceptable Harvest Plan for each operating season for planned units. The Harvest Plan shall address the harvest and haul operations and be presented to the Contract Administrator at the pre-work conference. The Harvest Plan shall be approved by the Contract Administrator prior to beginning the harvest operation. Purchaser shall not deviate from the Harvest Plan without prior written approval by the Contract Administrator.

H-050 Rub Trees

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

H-052 Branding and Painting

All timber shall be painted with a spot of highway yellow paint not less than three square inches in size, and branded on each end with a hammer brand approved by the State prior to removal from the sale area. Purchaser shall not use the brand pattern

selected to mark timber for another source in violation of the requirements set forth in 36 CFR § 223.195.

H-080 Snags Not to be Felled

Snags not required to be felled for safety reasons shall 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 and shall not exceed 12 inches in height measured on the uphill side, or 2 inches above the root collar, whichever is lower.

H-120 Harvesting Equipment

Forest products sold under this contract shall be felled by hand or mechanical means and yarded by ground based equipment on slopes of 35% or less. Avoid uphill travel on forest soils greater than 30% slope. On slopes greater than 35%, cable yarding shall be used. Tethered equipment is allowed in units 1, and 3 on slopes between 45-70 percent to mechanically fell and bunch timber, and tethered shovel equipment is allowed on slopes 35 to 55 percent. Authority to use other equipment or to operate outside the equipment specifications detailed above must be approved in writing by the Contract Administrator.

H-125 Log Suspension Requirements

Lead-end suspension is required for all yarding activities except for yarding across intermittent streams. The Contract Administrator can approve corridors across intermittent streams if full suspension can be obtained across the entire bankfull channel including 20 feet on either side of the channel edge, and where skyline corridors would be a maximum of 12 feet wide and cumulatively not occupy more than 15% of the stream length in the treatment stand.

H-131 Hauling Schedule

The hauling of forest products will not be permitted from October 1 to June 30th unless authorized in writing by the Contract Administrator. Hauling of forest products shall occur after all repair work is completed along the designated haul route. Hauling of forest products shall occur in accordance with all other maintenance operations associated with the designated haul route.

H-140 Special Harvest Requirements

Purchaser shall accomplish the following during the harvest operations:

1. Fall and yard away from all waters when possible. No yarding in riparian reserves.
2. A copy of the timber sale prospectus map and contract shall be present onsite during active operations.
3. Tops and limbs shall be redistributed in the unit to the satisfaction of the Contract Administrator.
4. Maintain legacy features wherever practical and safe, including remnant trees, snags, and large down woody debris.
5. Heavy equipment should operate on operationally-generated slash mats (limbs, tops, or otherwise unmerchantable material) to minimize soil compaction and long term soil disturbance. The slash mat shall be as thick and continuous as practicable, though not to exceed 12 inches.
6. When practical, save topsoil on site from areas to be disturbed and replace over disturbed soil when operations conclude..
7. Immediately following their use, temporary roads, spur roads and landings shall be “rehabilitated” by decompacting the road surface to a depth of 18 inches or greater. Rehabilitation shall not occur during times of excessive wet conditions and/or when soil has reached saturation. Equipment shall not travel across the decompacted surface. Native seed and mulch composed of certified weed free straw or onsite forest debris must be applied to the disturbed ground. Seed shall be provided by the Forest Service.
8. Silt fences, certified weed free straw bales, or other catchment systems approved by the Contract Administrator shall be located to intercept runoff from landings prior to reaching any road, ditch, or stream. Any sediment that is captured and deposited behind sediment catchments will be removed annually and deposited out on the forest floor to ensure it does not have a direct flow path to a system road, ditch, or stream.
9. Hazard trees that are felled along haul routes shall be retained to add to large woody debris on the ground, unless otherwise approved by the Contract Administrator.
10. Average residual logging debris depth shall not exceed 12 inches immediately post-harvest.
11. Coarse woody debris may be moved for access; however, disturbance should be minimized. Large, old stumps shall be kept intact and not uprooted wherever possible.

12. Trees felled in the vicinity of streams, wetlands, seeps, or springs shall be felled away from aquatic features. Portions of trees falling into no-cut buffers shall be left on the ground where they were felled.
13. Ground-based equipment shall travel on operationally generated slash where possible. Yarding activities shall be planned to make as few trips as possible.
14. Feller bunchers/ mechanical harvesters shall not operate like a skidder and travel while bearing the weight of trees except in some occasions at the ends of a skid trail where it may cause less disturbance than a skidder.
15. Areas of soil displacement resulting from logging systems shall be treated to prevent rill and gully erosion and potential sediment delivery to stream courses. This may include re-contouring, decompacting, placing seed and slash, etc.
16. No fuel storage, refueling, or long-term staging of heavy equipment shall occur in riparian buffers or within 150 feet of live water, whichever is greater.
17. Workers shall properly store and dispose of food and garbage while working on site.

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

H-142 Wildlife Timing Restrictions

The following wildlife timing restrictions apply to this contract and shall apply in the locations shown on the attached timber sale map.

Harvest activities, including landing and temporary road construction, felling, skidding, yarding, and rehabilitation, are not permitted from March 1 to July 15 in Unit 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 to limit detrimental noise disturbance during the spotted owl nesting and fledging season.

Reconstruction, Temporary Construction, and Pre-Haul Maintenance work taking longer than 5 hours to complete in a single location, is not permitted on system roads from March 1 to July 15 to limit detrimental noise disturbance during the spotted owl nesting and fledging season.

H-150 Required Removal of Forest Products

Purchaser shall remove from the sale area and present for scaling or weighing all forest products conveyed in G-010 that meet the following minimum net scale dimensions:

| Species | Net bd ft | Log length (ft) | Log dib |
|---------|-----------|-----------------|---------|
| All | 10 | 12 | 5 |

The State may treat failure to remove forest products left on the sale area that meet the above specifications as a breach of this Contract. At the State's option, forest products left on the sale area upon termination of the Contract that meet the above specifications may be scaled for volume or measured and converted to weight by the State or a third party scaling organization and billed to Purchaser at the contract payment rate. All costs associated with scaling, measuring and computing the billing will be borne by the Purchaser.

H-157 Optional Removal of Forest Products Not Designated

If in the course of operations, Purchaser decides to remove forest products that are below the minimum designated removal specifications per the 'Required Removal of Forest Products' (H-150), the payment rates in clause P-027 shall apply.

Forest products designated as optional shall be decked separately from forest products designated as required for removal. Prior to removal from the sale area, optional forest products as described in this clause must be inspected and approved by the Contract Administrator. Optional forest products may not be mixed with forest products that are required for removal by this contract and shall be removed from the sale area in separate truck loads using load tickets specified by the Contract Administrator.

All material removed under this clause is subject to the same log and load accountability rules as defined in the Log Definitions and Accountability section of this contract. Purchaser shall follow the payment procedures as required in the P-052 clause and will submit a separate summary report for all forest products removed from the sale area under the authority of this clause.

H-160 Mismatch

Mismatch is defined as forest products remaining on the sale area that would have met the specifications in clause H-150 if bucking lengths had been varied to include such products.

The State may treat mismatch as a breach of this Contract. At the State's option, forest products that are left on the sale area may be scaled for volume by the State or a third party scaling organization and billed to Purchaser at the contract payment rate. All costs associated with scaling and computing the billing will be borne by Purchaser.

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 otherwise 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 40 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 Area

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

H-240 Lop and Scatter

The tops of all felled trees shall be lopped and slash scattered away from leave trees.

H-260 Fall Leaners

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

SECTION C: CONSTRUCTION AND MAINTENANCE

C-040 Road Plan

Purchaser shall comply with all of the road construction, associated work provisions, and all other terms and conditions of the Road Plan for this sale, dated August 7th, 2024 which is hereby made a part of this Contract.

C-050 Purchaser Road Maintenance and Repair

Purchaser shall perform road maintenance and repair work at its own expense on 2300000, 2800000, 2810000, 2810041, 2810042, 2810043, 2810051, Temp 2810.1, Temp 28142.1, Temp 28143.1, Temp 28141.1, Temp 18141.2, and Temp 28141.3. All work shall be completed to the specifications detailed in the Road Plan.

C-080 Landing Locations Approved Prior to Construction

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

C-090 Landing Location

Landings should be located where past landings were located, unless a new location would cause less resource effect or where no past landings were used to harvest the unit.

New landings shall be located outside of all no harvest buffers. Avoid placing landings adjacent to streams, riparian buffers, wet areas and unstable slopes.

Landings shall be limited to the area needed for safe and efficient yarding and loading operations and have proper drainage.

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, a plan for the prevention and reporting of wildfires within the sale area; a communication plan for reporting wildfires; a description of fire prevention and control measures on the logging unit; and a list of qualified personnel and equipment available for implementing the plan. The ERP shall include the valid contact numbers for qualified personnel available for implementing the ERP, and the equipment available, and procedures for responding to, medical emergencies, fire, hazardous spills, forest practice violations and any unauthorized or unlawful activity occurring 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 to the Contract Administrator for inspection and approval at the prework meeting and kept readily available to all personnel, including subcontractors, on site during active operations. Purchaser shall make any revisions to the ERP required by the Contract Administrator, either upon initial inspection or anytime thereafter, required for operations within the sale area during the Contract.

S-010 Fire Hazardous Conditions

Fire Precautionary Period. The fire precautionary period for this Contract is April 15 to October 15. The Contract Administrator may change the dates of the precautionary period by advance written notice. Required tools and equipment shall be kept in

serviceable condition and immediately available for fire-fighting at all times during Purchaser's Operations in Fire Precautionary Period.

Purchaser acknowledges that operations under this Contract may increase the risk of fire. Purchaser shall conduct all operations under this Contract 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. Purchaser shall, both independently and in cooperation with the U.S. Forest Service, take the highest degree of care to prevent fires resulting from Purchaser's Operations. Purchaser shall furnish and maintain in good and serviceable conditions such wildland firefighting tools and equipment, and take such fire prevention measures as may be required by the U.S. Forest Service or the State to meet the fire protection requirements of the Contract and the existing fire danger. The requirements shall not be less than are required under the laws of the State of Washington (i.e., WAC 332-24-401 through .411).

In the event of an uncontrolled fire, Purchaser shall immediately report the incident to the appropriate authorities specified in the ERP. Purchaser agrees to provide equipment and personnel working at the site to safely and effectively engage in first response fire suppression activity. Purchaser agrees to reimburse the State and U.S. Forest Service for the cost of fire suppression incurred as the result of the negligence or willful acts of its employees, agents, subcontractors, etc.

The Contract Administrator may require the Purchaser to suspend any or all of Purchaser's Operations when ignition conditions identified in the ERP are met, or when fire is within or threatening the Operational Area. Purchaser's failure to effectively engage in fire-safe operations is considered a breach and may result in suspension of operations.

S-030 Landing Debris Clean Up

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

Average residual logging debris depth should not exceed 12 inches immediately post-harvest.

Slash piles shall be covered with plastic. Every slash pile shall be 30% covered. Plastic shall be secured and anchored.

Landings shall be decompacted to a depth of 18 inches.

Scatter, pile, or remove logging slash less than 8 inches in diameter from within 25 feet of Forest Service Roads 2300000, 2800000, 2810000, 2810041.

S-035 Logging Debris Clean Up

Average residual logging debris depth should not exceed 12 inches immediately post-harvest. Slash and debris created from harvest activities shall be treated in a manner approved in writing by the Contract Administrator.

S-040 Noxious Weed Control

Purchaser shall thoroughly pressure wash all equipment prior to entry onto U.S. Forest Service land, or before moving equipment between infested sites, to remove all contaminated soils, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Equipment shall be considered free of soil seed, and other such debris when a visual inspection does not disclose such material. The Contract Administrator reserves the right to also require the cleaning of equipment as required by this clause in cases where equipment is being moved onto nonfederal lands.

Purchaser shall notify the Contract Administrator in advance of moving all off-road logging and construction equipment onto U.S. Forest Service lands. Notification will include a location approved by the Contract Administrator where the equipment will be cleaned by the Purchaser, and made available for inspection by the State at a time agreed by the Parties. Only logging and construction equipment cleaned as required under this clause, and inspected by the Contract Administrator (or designee), will be allowed to operate on Federal lands within the sale area. All subsequent move-ins of equipment to the sale area shall be treated in the same manner as the initial move in. "Off-road equipment" includes all logging and construction machinery, except for log trucks, chip vans, pickup trucks or vehicles used to transport personnel on a daily basis. All logging equipment operating in unit 11 will be washed and inspected for approval prior to continuing sale operations.

All material (e.g. soil, gravel, sand borrow, mulch, aggregate, etc.) transported onto National Forest System land or incorporated into the work shall be certified weed-free. The contractor shall provide the Contract Administrator written notification of proposed material sources 14 days prior to use. If weed species are present in the proposed source, appropriate mitigation measures may allow conditional use of the source as required by the Contract Administrator.

S-050 Cessation of Operations for Low Humidity

During the precautionary period, when the humidity is 30 percent or lower on the sale area, all operations must cease unless authority to continue is granted by the State in writing.

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 precautionary period or as extended by the State and shall provide trained personnel to operate this equipment on the sale area during all operating periods.

S-120 Stream Protection

No timber shall be felled into, across, or yarded through any stream without written approval by the Contract Administrator.

S-130 Hazardous Materials

a. Hazardous Materials and Waste - Regulatory Compliance

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

b. Hazardous Materials Spill Prevention

All operations shall be conducted in a manner that prevents the release of hazardous materials, including petroleum products, into the environment (water, air or land). If the total oil or oil products storage exceeds 1320 gallons or if any single container exceeds a capacity of 660 gallons, the purchaser will prepare and provide the Contract Administrator a Spill Prevention Control and Counter measures Plan prior to commencing operations. The plan shall meet EPA requirements including certification by a registered professional engineer.

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 4 to 6 gallons of oil, coolant, solvent or contaminated water are available on site to quickly address potential spills from any piece of equipment at all times throughout active operations. Spill kit must also contain one or more oil-absorbing floating booms to contain a spill if it gets into a stream or other waterbody and plastic garbage bags for disposal of used pads and booms off-Forest. 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 and recover a hazmat spill equal to the largest single on site storage container volume. (HAZWOPER reg. 29 CFR 1910.120 (j) (1) (vii)).

d. Hazardous Material Release Reporting

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

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

DNR Contract Administrator

ECY - Northwest Region:

1-425-649-7000

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

ECY - Southwest Region:

1-360-407-6300

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

ECY - Central Region:

1-509-575-2490

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

ECY - Eastern Region:

1-509-329-3400

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

In addition to the above, Purchaser shall immediately notify the Contract Administrator if any leakage or spillage enters any stream, water course or area of open water.

S-131 Refuse Disposal

All Purchaser generated refuse shall be removed from state or U.S. Forest Service lands for proper disposal prior to termination of this contract. No refuse shall be burned, buried or abandoned on state or U.S. Forest Service 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.

SECTION D: DAMAGES

D-010 Liquidated Damages

The clauses in the DAMAGES section of this contract provide for payments by Purchaser to the State for certain breaches of the terms of this contract. These payments are agreed to as liquidated damages and not as penalties. They are reasonable estimates of anticipated harm to the State 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.

D-020 Failure to Remove Forest Products

Purchaser's failure to remove all or part of the forest products sold in this agreement prior to the expiration of the contract term results in substantial injury to the State and the U.S. Forest Service. The value of the forest products sold at the time of breach is not readily ascertainable. Purchaser's failure to perform disrupts National Forest management plans and the state's role in implementing such plans, the actual cost of which is difficult to assess. A resale involves additional time and expense and is not an adequate remedy. Therefore, Purchaser agrees to pay the State as liquidated damages a sum calculated using the following formula:

$$LD = .35V-ID-P+C+A$$

Where:

- LD = Liquidated Damage value.
- V = The unremoved value at the date of breach of contract. The value is determined by subtracting the removal volume to date from the State's cruise volume multiplied by the contract bid rates.
- ID = Initial Deposit paid at date of contract that has not been applied to timber payments.
- P = Advance payments received but not yet applied to specific contract requirements.
- C = Charges assessed for contract requirements completed prior to breach of contract but not paid for.
- A = Administrative Fee = \$2,500.00.

The above formula reflects the Purchaser's forfeiture of the initial deposit in accordance with clause P-010 by deducting the initial deposit from the amount owed. In no event shall the liquidated damages be less than zero. Interest on the liquidated damage is owed from the date of breach until final payment, calculated using the following formula: Interest = $r \times LD \times N$.

Where:

- r = daily equivalent of an annual interest at current interest rate as established by WAC 332-100-030.
- LD = Liquidated damage value.
- N = Number of days from date of breach to date payment is received.

D-030 Inadequate Log Accountability

Removal of forest products from the sale area without adequate branding and/or valid load tickets attached to the load and scaling forest products in a location other than the facility approved by the State can result in substantial injury to the State or U.S. Forest Service. Failure to properly account for loads and scaling and/or weighing information can result in loss to the State or U.S. Forest Service. The potential loss from not having proper branding, ticketing, scaling and/or weighing location and accountability is not readily ascertainable. Purchaser's failure to perform results in a loss of log weight and scale accountability, increases the potential for unauthorized removal of forest products, and increases the State's administration costs, the actual costs of which are difficult to assess.

Enforcement actions for unauthorized removal of forest products for each improperly branded load, improperly ticketed load, lost or unaccounted for tickets, or use of a facility not authorized for this sale or improper submission of scaling data are impractical, expensive, time consuming and are not an adequate remedy. Therefore, Purchaser agrees to pay the State, as liquidated damages, a sum of \$100 each time a load of logs does not have branding as required in the contract, \$250 each time a load of logs does not have a load ticket as required by the contract, \$250 each time a load ticket has not been filled out as required by the plan of operations, \$250 each time a load is weighed or scaled at a location not approved as required under this contract, \$250 each time a log ticket summary report is not submitted properly, and if a third party Log and Load Reporting Service is required, \$250 each time scaling or weight data is not properly submitted to the Log and Load Reporting Service per clause L-071, and \$250 each unused ticket that is not returned to the State, for any reason.

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 National Forest. The value of the damaged leave trees at the time of the breach is not readily ascertainable. Therefore, Purchaser agrees to pay the State as liquidated damages at the rate of \$1,000.00 per tree for all damaged trees in the sale area.

SECTION M: MISCELLANEOUS

M-010 Federal Endangered Species Act

The Federal Endangered Species Act of 1973 (ESA), 16 USC § 1531et seq. prohibits a person from taking any Federally listed threatened or endangered species. Taking under

the Federal ESA may include alteration of habitat. Neither this Contract, or the State's approval of Purchaser's Plan of Operations, is certification that Purchaser's operations under the plan are lawful under the ESA. Purchaser's compliance with the plan is not in lieu of compliance with any Federal requirements under the ESA or its implementing regulations.

M-020 Forest Resources Conservation and Shortage Relief Act of 1990

Purchaser must comply with the provisions of the Forest Resources Conservation and Shortage Relief Act of 1990 (Act), (16 USC 620 *et seq.*), and its implementing regulations (36 CFR § 223.185 *et seq.*), as the Act and rules now exist or are hereafter amended. Prior to award, during the life of this contract, and for a period of three years from the Contract Termination Date, Purchaser shall upon request furnish to the State and the U.S. Forest Service records showing the volume and geographic origin of unprocessed timber from private lands exported or sold for export by Purchaser or affiliates. Prior to delivering unprocessed timber to another party, Purchaser shall require each buyer, exchange, or recipient to execute an acceptable agreement that will: (i) identify the Federal origin of the timber; (ii) specify domestic processing for the timber involved; (iii) require the execution of such agreements between the parties to any subsequent transactions involving the timber; (iv) require that all hammer brands and/or yellow paint must remain on logs until they are either legally exported or domestically processed, whichever is applicable; and (v) otherwise comply with the requirements of the Act, 16 USC 620(d). No later than 10 (ten) days following the execution of any such agreement between Purchaser and another party, Purchaser shall furnish to U. S. Forest Service a copy of each such agreement. Purchaser shall retain, for three years from the Termination Date, the records of all sales, exchanges, or dispositions of all timber. For breach of this Subsection, the State may terminate this contract and the U.S. Forest Service may take such other action as may be provided by statute or regulation, including the imposition of penalties. When the Contract is terminated by the State for a violation of the Act or rules under this clause, the State shall not be liable for any Claim submitted by Purchaser relating to the termination.

M-030 Debarment, Suspension, Ineligibility, and Exclusion.

Purchaser is a corporation organized and existing under the laws of the State of [insert State] and certifies by execution of the Contract that it is not, nor are its principals, presently debarred, suspended, proposed for debarment or suspension, declared ineligible, or excluded from participation in any transaction with the Federal government. Purchaser shall immediately notify the State without undue delay if it receives a notice from the Federal government that it or its principals are proposed for debarment or suspension, or are debarred, suspended, declared ineligible, or excluded from participating in a transaction with the Federal government.

Purchaser shall require all subcontractors to provide written certification that they are not debarred, suspended, ineligible, or excluded from participating in a transaction with the Federal government. (Execution of Department of Agriculture Form AD-1048 is

sufficient to satisfy this requirement.) Purchaser shall maintain a file of certifications and provide a copy to the Contract Administrator upon request.

M-040 Certification Regarding Felony Conviction and Tax Delinquent Status.

Purchaser, by signature below, certifies that: (1) Neither the corporation or its principals have been convicted of a felony violation under any Federal law within the preceding 24 months of the effective date of the Contract; and (2) Neither the corporation or its principals have failed to file all Federal tax returns required during the three years preceding the Contract; have been convicted of a criminal offense under the Internal Revenue Code; or have been notified of any unpaid Federal tax assessment for which the liability remains unsatisfied, unless the assessment is the subject of an installment agreement or offer in compromise that has been approved by the Internal Revenue Service and is not in default.

M-050 Human Remains, Artifacts, and Other Cultural and Historic Items

In the event that human remains, burials, funerary items, sacred objects, object of cultural patrimony, prehistoric artifacts (i.e., arrowheads, spear points, mortars, pestles, other ground stone tools, knives, scrapers, or flakes from the manufacture of tools, fire pits, peeled trees, etc.) or historic period artifacts or features (i.e., fragments of old plates or ceramic vessels, weathered glass, dumps of old cans, cabins, root cellars, etc.) are found during project implementation, work on the site shall cease immediately to protect the find from further damage or disruption and the U.S. Forest Service Archeologist will be notified. No further work shall be allowed on the site until the Forest Archeologist has approved a plan for managing or preserving the remains or items.

M-060 Payment of Taxes

The State makes no representations concerning tax liability or consequences arising from the purchase of Federal timber under the Contract. It is Purchaser's sole responsibility to pay all taxes owed, including any forest excise taxes under RCW 84.33.

M-070 Non-Discrimination in Employment

In connection with the performance of work under this Contract, Purchaser agrees not to discriminate against any applicant for employment, employee, or independent contractor on the basis of race, color, national origin, sex, religion, age, disability, sexual orientation, or marital status. This shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment, layoff or termination; rates of pay, or other forms of compensation; and selection for training, including apprenticeship. Purchaser agrees to comply with all Federal and state laws governing non-discrimination in employment applicable to the work performed under the Contract.

M-080 Records

Purchaser shall maintain all reports, data, correspondence, other and information pertaining to this Contract for a period of 6 years, and provide copies to the State upon request.

M-090 Waiver

Any provision of the Contract that is determined to be invalid, void, or illegal shall in no way affect, impair, or invalidate any other provision of the Contract, such other provisions remaining in full force and effect.

M-100 Severability Clause

Any provision of the Contract that is determined to be invalid, void, or illegal shall in no way affect, impair, or invalidate any other provision of the Contract, such other provisions remaining in full force and effect.

M-110 Effective Date

This Contract shall be effective upon the date signed by the State of Washington, Department of Natural Resources.

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

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Purchaser

Print Name

State Forester

Date: _____

Date: _____

Address:

Draft

Langille

Schedule A – Unit Name Crosswalk

Schedule A serves as a general resource for translating the Timber Sale unit number to their corresponding NEPA stand ID number. Refer to the Yellowjacket Project Environmental Assessment and its supporting documents for the official NEPA stand boundary locations.

| Langille Unit numbers | NEPA Stand ID |
|-----------------------|---------------|
| 1 | 117 |
| 2 | 114, 115, 116 |
| 3 | 121 |
| 4 | 123 |
| 5 | 123 |
| 6 | 123 |
| 7 | 102, 103 |
| 8 | 103 |
| 9 | 105 |
| 10 | 105 |
| 11 | 105 |
| 12 | 100, 102 |
| 13 | 99 |
| 14 | 97 |
| 15 | 106 |
| 16 | 111, 112 |

Langille
Schedule B - Thinning Prescription

The thinning is generally a thinning from below, retaining the “largest”, “healthiest”, and “best formed” designated live tree species utilizing a species preference and leave tree criteria. Cut designated species within DBH limits to the Basal Area Target in accordance with Table 1, and the leave tree priority criteria until basal area requirements are met.

Table 1 Langille Thinning Prescriptions

| Unit Number | Designated Species (Species Preference Order: Highest to Lowest in Cut Priority) | Target Residual Basal Area (ft²/ac) | Designated Species DBH Cutting Limits (min - max in.) |
|--------------------|---|---|--|
| 01 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 02 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 03 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 04 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 05 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 06 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 07 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |

| | | | |
|----|--|-----|------|
| 08 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 140 | 7-26 |
| 09 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 10 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 11 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 12 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 13 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 14 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 15 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |
| 16 | Douglas-fir /Western hemlock /Pacific silver fir /Noble fir | 130 | 7-26 |

Designated Species – These are species to be removed if they are within the diameter limit. Each species listed is in order of preference *to cut* from highest weight to lowest weight. Except on landings, skid trails and temporary roads, all other tree species are to be left.

General Conditions

All dead trees are not to be designated for cutting, unless for safety mitigation. All live trees of any species above 7 inches DBH within the treatment area are to be included in achieving post-harvest residual basal area targets. Any trees tagged as boundary trees may be used to achieve the basal area target if their diameter is greater than the lower diameter limit. No

trees with diameters in excess of the maximum diameter presented in **Table 1** should be harvested from treatment units unless they are within the right of way for road construction, skid trails, yarding corridors, or landings.

Thinning Prescription – General area within the harvest units, excluding road right-of-way and landings. Thinning is from below, retaining the “largest”, “healthiest”, and “best formed” designated live tree species according to a species preference. Prescription is to be achieved by cutting smallest live designated tree species first until the desired target basal area is achieved. As such, basal area may vary +/- 40 square feet per acre in any particular point within the treatment unit in order to retain trees with the best desired leave tree characteristics. Test plots will be measured in the field by the Contract Administrator. The resulting average for the entire unit shall have a basal area tolerance not to exceed +/- 5 ft².

Definitions:

“Largest” – Trees which in comparison to other adjacent trees are larger in diameter and/or taller in height.

“Healthiest” – Free of signs of insect or disease infestation, or other stressors. Live crown ratios which exceed 30%. If no trees are free of such indicators, retain the trees which have the greatest live crown ratio.

“Best Formed” – Trees which are best formed are generally single-stemmed and are lacking: sweep, crooks, cat faces, bear damage, or other disfigurements. If no trees are free of such indicators, retain the trees which are the straightest and have the least amount of disfigurements.

Leave Tree Priority

Overarching Criteria – all designated species and diameter leave trees should generally be the largest, healthiest, best formed trees in the dominant or codominant crown classes.

Special Thinning Conditions:

In areas where thinning is not necessary (i.e., prescription is met), do not put in corridors.

Certification of Fallers and yarder operations – see clause H-011.

The Contract Administrator and Faller/Harvester Operator will jointly review the take tree selection criteria as outlined in Schedule B of the contract.

In conjunction with the Contract Administrator, the Faller/Harvester Operator will mark a designated area as a test plot within the sale area boundary. Satisfactory thinning of the test plot completes the certification process. Certification may be revoked at any time by Contract Administrator if Contract Administrator determines that the prescription is not being implemented properly.

Timber Sale Cruise Report Langille

Sale Name:

Sale Type: MBF SCALE

Region:

District:

Lead Cruiser: Alan Douglas

Other Cruisers: Blake Warnstadt, Matt Llobet

Cruise Narrative:

Langille is located 16 miles south of Randle, WA. Access is provided by State Routes 12 and 131, Cispus Rd, and forest roads 23, 041, and 2810. Units 13 and 14 require a walk-in from the 2810 rd., but the rest of the sale has direct road access.

All units are variable density thinnings (VDT). The prescription calls for leaving a residual basal area of 130-140. Preferred cut species is Douglas-fir. Diameter cut-window ranges from 7"-35".

127 variable radius plots were used to tally 685 trees and measure 235 cut trees.

Boles were segmented into lengths based on a preference for long logs and taking into account location of defect. Preferred length for conifers is 40'. Preferred length for hardwoods is 30'.

Units mostly contain Douglas-fir mixed with co-dominant/subordinate noble fir and western hemlock. Trace amounts of black cottonwood, silver fir, red alder, sitka spruce, western red cedar, mountain hemlock, and yellow cedar are also growing in the sale area. Douglas-fir in low elevation/sheltered areas contains high quality and pole quality segments. Timber found at higher elevation averages smaller and shows more defect. Noted defects include bear damage, spike knots, broken/dead tops, and frost cracks.

Topography in the sale area ranges from flat (units 4-11) to steeply sloped (units 1-3, 12-16). Ground is broken/rocky in places. Some units contain small cliffs.

Timber Sale Notice Volume (MBF)

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| DF | 14.5 | 11.3 | | 1,318 | 186 | 879 | 244 | 9 |
| WH | 10.8 | | | 113 | | 61 | 52 | |
| NF | 12.2 | | | 74 | 8 | 41 | 21 | 4 |
| SF | 11.5 | | | 47 | | 36 | 11 | |
| RA | 7.7 | | | 15 | | | 15 | |
| ALL | 13.8 | 11.3 | | 1,566 | 194 | 1,018 | 342 | 12 |

Timber Sale Notice Weight (tons)

| Sp | Tons by Grade | | | | |
|----|---------------|-------|-------|-------|---------|
| | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| DF | 10,762 | 1,365 | 7,181 | 2,156 | 60 |

| Sp | Tons by Grade | | | | |
|-----|---------------|-------|-------|-------|---------|
| | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| WH | 987 | | 566 | 421 | |
| NF | 575 | 63 | 335 | 156 | 21 |
| SF | 408 | | 298 | 110 | |
| RA | 95 | | | 95 | |
| ALL | 12,827 | 1,428 | 8,380 | 2,938 | 81 |

Timber Sale Overall Cruise Statistics

| BA (sq ft/acre) | BA SE (%) | V-BAR (bf/sq ft) | V-BAR SE (%) | Net Vol (bf/acre) | Vol SE (%) |
|--------------------|--------------|---------------------|-----------------|----------------------|---------------|
| 213.7 | 3.1 | 104.0 | 2.1 | 22,687 | 3.6 |

Timber Sale Unit Cruise Design

| Unit | Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|---------|--|-----------------|--------------|------------|-------------------|-----------------|
| Unit 1 | B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft | 26.4 | | 16 | 9 | 1 |
| Unit 2 | B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft | 25.1 | | 14 | 8 | 0 |
| Unit 3 | B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft | 25.4 | | 14 | 8 | 0 |
| Unit 4 | B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 4.5 ft | 6.3 | | 6 | 6 | 0 |
| Unit 5 | B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 3.0 | | 4 | 4 | 0 |
| Unit 6 | B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 4.5 ft | 1.1 | | 3 | 3 | 0 |
| Unit 7 | B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 3.7 | | 4 | 4 | 0 |
| Unit 8 | B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 6.9 | | 7 | 7 | 1 |
| Unit 9 | B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft | 6.7 | | 6 | 6 | 0 |
| Unit 10 | B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft | 6.2 | | 6 | 6 | 0 |
| Unit 11 | B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft | 6.7 | | 6 | 6 | 0 |
| Unit 12 | B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 11.4 | | 7 | 7 | 0 |
| Unit 13 | B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 13.9 | | 8 | 8 | 0 |

| Unit | Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|---------|--|--------------|-----------|---------|----------------|--------------|
| Unit 14 | B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 11.3 | | 7 | 7 | 0 |
| Unit 15 | B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft | 13.4 | | 9 | 9 | 0 |
| Unit 16 | B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft | 13.8 | | 10 | 10 | 0 |
| All | | 181.3 | | 127 | 108 | 2 |

Timber Sale Log Grade x Sort Summary

| Sp | Status | Grade | Sort | Dia | Len | BF Gross | BF Net | Defect % | Tons | MBF Net |
|----|--------|---------|----------|------|-----|----------|--------|----------|---------|---------|
| DF | LIVE | 2 SAW | Domestic | 14.0 | 36 | 651 | 634 | 2.6 | 835.6 | 114.9 |
| DF | LIVE | 2 SAW | HQ-B | 13.2 | 40 | 402 | 394 | 1.9 | 529.2 | 71.5 |
| DF | LIVE | 3 SAW | Domestic | 8.7 | 37 | 3,708 | 3,665 | 1.2 | 5,463.3 | 664.5 |
| DF | LIVE | 3 SAW | HQ-B | 9.7 | 40 | 942 | 909 | 3.5 | 1,325.0 | 164.7 |
| DF | LIVE | 3 SAW | Pole | 9.0 | 42 | 277 | 277 | 0.0 | 392.9 | 50.2 |
| DF | LIVE | 4 SAW | Domestic | 5.4 | 29 | 1,364 | 1,339 | 1.9 | 2,144.6 | 242.8 |
| DF | LIVE | 4 SAW | Pole | 7.0 | 30 | 6 | 6 | 0.0 | 11.1 | 1.2 |
| DF | LIVE | CULL | Cull | 5.9 | 8 | 48 | 0 | 100.0 | 0.0 | 0.0 |
| DF | LIVE | UTILITY | Pulp | 5.3 | 13 | 48 | 48 | 0.0 | 60.3 | 8.7 |
| NF | LIVE | 2 SAW | Domestic | 13.4 | 40 | 52 | 42 | 19.3 | 62.8 | 7.6 |
| NF | LIVE | 3 SAW | Domestic | 7.8 | 40 | 231 | 229 | 0.9 | 335.5 | 41.5 |
| NF | LIVE | 4 SAW | Domestic | 5.0 | 28 | 115 | 114 | 0.6 | 155.9 | 20.7 |
| NF | LIVE | CULL | Cull | 6.2 | 3 | 0 | 0 | 100.0 | 0.0 | 0.0 |
| NF | LIVE | UTILITY | Pulp | 5.0 | 19 | 20 | 20 | 0.0 | 20.6 | 3.7 |
| RA | LIVE | 4 SAW | Domestic | 5.3 | 27 | 82 | 80 | 1.5 | 95.1 | 14.6 |
| RA | LIVE | CULL | Cull | 5.0 | 7 | 8 | 0 | 100.0 | 0.0 | 0.0 |
| SF | LIVE | 3 SAW | Domestic | 7.1 | 35 | 197 | 197 | 0.0 | 297.9 | 35.7 |
| SF | LIVE | 4 SAW | Domestic | 5.7 | 32 | 61 | 61 | 0.0 | 110.4 | 11.1 |
| SF | LIVE | CULL | Cull | 5.0 | 6 | 2 | 0 | 100.0 | 0.0 | 0.0 |
| WH | LIVE | 3 SAW | Domestic | 7.4 | 37 | 341 | 337 | 1.2 | 565.6 | 61.1 |
| WH | LIVE | 4 SAW | Domestic | 5.0 | 32 | 285 | 285 | 0.2 | 421.2 | 51.6 |
| WH | LIVE | CULL | Cull | 5.0 | 7 | 8 | 0 | 100.0 | 0.0 | 0.0 |

Timber Sale Log Sort x Diameter Bin Summary

| Sp | Bin | Status | Sort | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|-------|--------|------|-----|-----|--------|----------|------|---------|
| DF | 5 - 7 | LIVE | Pulp | 5.2 | 13 | 48 | 0.0 | 60.3 | 8.7 |
| DF | 5 - 7 | LIVE | Cull | 5.4 | 7 | 0 | 100.0 | 0.0 | 0.0 |

| Sp | Bin | Status | Sort | Dia | Len | BF Net | Defect % | Tons | MBF Net |
|----|---------|--------|----------|------|-----|--------|----------|---------|---------|
| DF | 5 - 7 | LIVE | Domestic | 5.8 | 32 | 2,373 | 1.5 | 3,796.6 | 430.3 |
| DF | 5 - 7 | LIVE | Pole | 7.0 | 30 | 6 | 0.0 | 11.1 | 1.2 |
| DF | 8 - 11 | LIVE | Cull | 8.1 | 2 | 0 | 100.0 | 0.0 | 0.0 |
| DF | 8 - 11 | LIVE | Pole | 9.0 | 42 | 277 | 0.0 | 392.9 | 50.2 |
| DF | 8 - 11 | LIVE | HQ-B | 9.6 | 40 | 909 | 3.5 | 1,325.0 | 164.7 |
| DF | 8 - 11 | LIVE | Domestic | 9.8 | 36 | 2,631 | 1.3 | 3,811.2 | 477.0 |
| DF | 12 - 15 | LIVE | HQ-B | 13.0 | 40 | 394 | 1.9 | 529.2 | 71.5 |
| DF | 12 - 15 | LIVE | Domestic | 13.2 | 37 | 463 | 3.4 | 647.6 | 84.0 |
| DF | 12 - 15 | LIVE | Cull | 14.7 | 3 | 0 | 100.0 | 0.0 | 0.0 |
| DF | 16 - 19 | LIVE | Domestic | 16.9 | 34 | 170 | 0.4 | 188.0 | 30.9 |
| DF | 16 - 19 | LIVE | Cull | 17.5 | 2 | 0 | 100.0 | 0.0 | 0.0 |
| NF | 5 - 7 | LIVE | Pulp | 5.0 | 19 | 20 | 0.0 | 20.6 | 3.7 |
| NF | 5 - 7 | LIVE | Domestic | 5.8 | 31 | 255 | 0.3 | 365.8 | 46.2 |
| NF | 5 - 7 | LIVE | Cull | 6.2 | 3 | 0 | 100.0 | 0.0 | 0.0 |
| NF | 8 - 11 | LIVE | Domestic | 9.7 | 40 | 88 | 2.2 | 125.6 | 16.0 |
| NF | 12 - 15 | LIVE | Domestic | 13.6 | 40 | 42 | 19.3 | 62.8 | 7.6 |
| RA | 5 - 7 | LIVE | Cull | 5.0 | 7 | 0 | 100.0 | 0.0 | 0.0 |
| RA | 5 - 7 | LIVE | Domestic | 5.3 | 27 | 80 | 1.5 | 95.1 | 14.6 |
| SF | 5 - 7 | LIVE | Cull | 5.0 | 6 | 0 | 100.0 | 0.0 | 0.0 |
| SF | 5 - 7 | LIVE | Domestic | 6.1 | 35 | 202 | 0.0 | 320.2 | 36.6 |
| SF | 8 - 11 | LIVE | Domestic | 9.8 | 32 | 56 | 0.0 | 88.2 | 10.2 |
| WH | 5 - 7 | LIVE | Cull | 5.0 | 6 | 0 | 100.0 | 0.0 | 0.0 |
| WH | 5 - 7 | LIVE | Domestic | 5.6 | 33 | 509 | 0.6 | 785.4 | 92.3 |
| WH | 8 - 11 | LIVE | Domestic | 9.4 | 35 | 113 | 1.2 | 201.4 | 20.5 |

Cruise Unit Report Unit 1

Unit Sale Notice Volume (MBF): Unit 1

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | |
|-----|------|----------|-----|---------------------|-------|-------|
| | | | | All | 3 Saw | 4 Saw |
| DF | 12.1 | | | 57 | 33 | 24 |
| WH | 7.8 | | | 30 | | 30 |
| RA | 7.7 | | | 15 | | 15 |
| ALL | 9.6 | | | 101 | 33 | 69 |

Unit Cruise Design: Unit 1

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft | 26.4 | | 16 | 9 | 1 |

Unit Cruise Summary: Unit 1

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| SF | | 4 | 0.3 | 0 |
| NF | | 1 | 0.1 | 0 |
| RC | | 2 | 0.1 | 0 |
| DF | 7 | 54 | 3.4 | 0 |
| WH | 3 | 17 | 1.1 | 0 |
| RA | 2 | 4 | 0.3 | 0 |
| ALL | 12 | 82 | 5.1 | 0 |

Unit Cruise Statistics: Unit 1

| 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 (%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| SF | 8.4 | 178.9 | 44.7 | | | | | | |
| NF | 2.1 | 400.0 | 100.0 | | | | | | |
| RC | 4.2 | 273.3 | 68.3 | | | | | | |
| DF | 113.4 | 58.1 | 14.5 | 85.1 | 36.7 | 13.9 | 9,657 | 68.8 | 20.1 |
| WH | 35.7 | 139.5 | 34.9 | 109.2 | 12.5 | 7.2 | 3,899 | 140.0 | 35.6 |
| RA | 8.4 | 178.9 | 44.7 | 87.6 | 11.3 | 8.0 | 736 | 179.2 | 45.4 |
| ALL | 172.3 | 40.2 | 10.1 | 90.7 | 29.0 | 8.4 | 15,626 | 49.6 | 13.1 |

Unit Summary: Unit 1

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 7 | ALL | 11.3 | 50 | 71 | 2,220 | 2,146 | 3.3 | 36.2 | 25.2 | 7.5 | 56.7 |
| DF | LIVE | LEA | 29 | ALL | 14.5 | 56 | 76 | 7,769 | 7,511 | 3.3 | 76.9 | 88.2 | 23.2 | 198.3 |
| NF | LIVE | LEA | 1 | ALL | 18.6 | 80 | 96 | | | | 1.1 | 2.1 | 0.5 | |
| RA | LIVE | CUT | 2 | ALL | 8.0 | 31 | 64 | 617 | 552 | 10.6 | 18.1 | 6.3 | 2.2 | 14.6 |
| RA | LIVE | LEA | 0 | ALL | 10.0 | | | 206 | 184 | 10.6 | 3.9 | 2.1 | 0.7 | 4.9 |
| RC | LIVE | LEA | 2 | ALL | 9.8 | 23 | 36 | | | | 8.0 | 4.2 | 1.3 | |
| SF | LIVE | LEA | 3 | ALL | 14.6 | 57 | 73 | | | | 7.2 | 8.4 | 2.2 | |
| WH | LIVE | CUT | 3 | ALL | 8.1 | 35 | 62 | 1,147 | 1,147 | 0.0 | 29.4 | 10.5 | 3.7 | 30.3 |
| WH | LIVE | LEA | 6 | ALL | 11.3 | 44 | 64 | 2,752 | 2,752 | 0.0 | 36.2 | 25.2 | 7.5 | 72.7 |
| ALL | LIVE | CUT | 12 | ALL | 9.6 | 41 | 66 | 3,984 | 3,845 | 3.5 | 83.7 | 42.0 | 13.4 | 101.5 |
| ALL | LIVE | LEA | 41 | ALL | 13.4 | 51 | 70 | 10,727 | 10,447 | 2.6 | 133.3 | 130.2 | 35.4 | 275.8 |
| ALL | ALL | CUT +LEAVE | 53 | ALL | 12.1 | 47 | 69 | 14,711 | 14,292 | 2.8 | 217.0 | 172.3 | 48.8 | 377.3 |

Cruise Unit Report Unit 2

Unit Sale Notice Volume (MBF): Unit 2

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| DF | 15.7 | 11.0 | | 292 | 53 | 201 | 35 | 4 |
| ALL | 15.7 | 11.0 | | 292 | 53 | 201 | 35 | 4 |

Unit Cruise Design: Unit 2

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft | 25.1 | | 14 | 8 | 0 |

Unit Cruise Summary: Unit 2

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| NF | | 2 | 0.1 | 0 |
| WH | | 6 | 0.4 | 0 |
| DF | 21 | 62 | 4.4 | 1 |
| ALL | 21 | 70 | 5.0 | 1 |

Unit Cruise Statistics: Unit 2

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| NF | 6.7 | 254.2 | 67.9 | | | | | | |
| WH | 20.1 | 176.4 | 47.1 | | | | | | |
| DF | 207.9 | 35.1 | 9.4 | 119.8 | 34.0 | 7.4 | 24,912 | 48.8 | 12.0 |
| ALL | 234.7 | 34.2 | 9.1 | 119.8 | 34.0 | 7.4 | 28,126 | 48.2 | 11.8 |

Unit Summary: Unit 2

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|----|-----|------|----|-----|----------|--------|----------|------|-------|------|---------|
| DF | LIVE | CUT | 21 | ALL | 15.4 | 68 | 86 | 11,691 | 11,652 | 0.3 | 75.2 | 97.2 | 24.8 | 292.5 |
| DF | LIVE | LEA | 17 | ALL | 15.7 | 73 | 95 | 13,303 | 13,260 | 0.3 | 82.3 | 110.6 | 27.9 | 332.8 |
| NF | LIVE | LEA | 2 | ALL | 20.8 | 76 | 97 | | | | 2.8 | 6.7 | 1.5 | |
| WH | LIVE | CUT | 0 | ALL | 11.8 | | | | | | 8.8 | 6.7 | 2.0 | |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| WH | LIVE | LEA | 3 | ALL | 16.5 | 77 | 95 | | | | 9.0 | 13.4 | 3.3 | |
| ALL | LIVE | CUT | 21 | ALL | 15.1 | 68 | 86 | 11,691 | 11,652 | 0.3 | 84.0 | 103.9 | 26.7 | 292.5 |
| ALL | LIVE | LEA | 22 | ALL | 16.0 | 74 | 95 | 13,303 | 13,260 | 0.3 | 94.1 | 130.8 | 32.7 | 332.8 |
| ALL | ALL | CUT +LEAVE | 43 | ALL | 15.5 | 71 | 91 | 24,994 | 24,912 | 0.3 | 178.1 | 234.7 | 59.4 | 625.3 |

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Cruise Unit Report Unit 3

Unit Sale Notice Volume (MBF): Unit 3

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw |
| DF | 13.6 | | | 89 | 13 | 52 | 23 |
| SF | 11.5 | | | 43 | | 32 | 11 |
| WH | 16.1 | | | 6 | | 6 | |
| ALL | 12.9 | | | 137 | 13 | 90 | 34 |

Unit Cruise Design: Unit 3

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1C: VR, 1 BAF (46.94) Measure/Count Plots, Sighting Ht = 4.5 ft | 25.4 | | 14 | 8 | 0 |

Unit Cruise Summary: Unit 3

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| RC | | 1 | 0.1 | 0 |
| SF | 4 | 31 | 2.2 | 0 |
| DF | 6 | 21 | 1.5 | 0 |
| WH | 1 | 3 | 0.2 | 0 |
| ALL | 11 | 56 | 4.0 | 0 |

Unit Cruise Statistics: Unit 3

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| RC | 3.4 | 374.2 | 100.0 | | | | | | |
| SF | 103.9 | 73.4 | 19.6 | 83.5 | 18.6 | 9.3 | 8,675 | 75.7 | 21.7 |
| DF | 70.4 | 103.8 | 27.7 | 104.1 | 17.5 | 7.2 | 7,327 | 105.2 | 28.6 |
| WH | 10.1 | 198.7 | 53.1 | 65.8 | 0.0 | 0.0 | 662 | 198.7 | 53.1 |
| ALL | 187.8 | 42.7 | 11.4 | 90.4 | 22.8 | 6.9 | 16,966 | 48.4 | 13.3 |

Unit Summary: Unit 3

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 6 | ALL | 13.3 | 60 | 74 | 3,489 | 3,489 | 0.0 | 34.8 | 33.5 | 9.2 | 88.6 |
| DF | LIVE | LEA | 7 | ALL | 12.2 | 61 | 75 | 3,838 | 3,838 | 0.0 | 45.4 | 36.9 | 10.6 | 97.5 |
| RC | LIVE | LEA | 1 | ALL | 18.0 | 55 | 68 | | | | 1.9 | 3.4 | 0.8 | |
| SF | LIVE | CUT | 4 | ALL | 12.0 | 54 | 66 | 1,679 | 1,679 | 0.0 | 25.6 | 20.1 | 5.8 | 42.6 |
| SF | LIVE | LEA | 17 | ALL | 12.7 | 50 | 61 | 6,996 | 6,996 | 0.0 | 95.3 | 83.8 | 23.5 | 177.7 |
| WH | LIVE | CUT | 1 | ALL | 16.1 | 45 | 54 | 221 | 221 | 0.0 | 2.4 | 3.4 | 0.8 | 5.6 |
| WH | LIVE | LEA | 1 | ALL | 16.1 | 65 | 81 | 441 | 441 | 0.0 | 4.7 | 6.7 | 1.7 | 11.2 |
| ALL | LIVE | LEA | 26 | ALL | 12.8 | 54 | 66 | 11,275 | 11,275 | 0.0 | 147.3 | 130.8 | 36.5 | 286.4 |
| ALL | LIVE | CUT | 11 | ALL | 12.9 | 57 | 70 | 5,388 | 5,388 | 0.0 | 62.8 | 57.0 | 15.8 | 136.9 |
| ALL | ALL | CUT +LEAVE | 37 | ALL | 12.8 | 55 | 67 | 16,663 | 16,663 | 0.0 | 210.1 | 187.8 | 52.4 | 423.2 |

Cruise Unit Report Unit 4

Unit Sale Notice Volume (MBF): Unit 4

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | |
|-----|------|----------|-----|---------------------|-------|-------|---------|
| | | | | All | 3 Saw | 4 Saw | Utility |
| NF | 10.6 | | | 29 | 13 | 12 | 3 |
| DF | 11.1 | | | 13 | 5 | 7 | 1 |
| WH | 10.0 | | | 6 | | 6 | |
| ALL | 10.7 | | | 48 | 18 | 26 | 4 |

Unit Cruise Design: Unit 4

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 4.5 ft | 6.3 | | 6 | 6 | 0 |

Unit Cruise Summary: Unit 4

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| SS | | 1 | 0.2 | 0 |
| MH | | 1 | 0.2 | 0 |
| NF | 8 | 31 | 5.2 | 0 |
| DF | 6 | 6 | 1.0 | 0 |
| WH | 3 | 4 | 0.7 | 0 |
| ALL | 17 | 43 | 7.2 | 0 |

Unit Cruise Statistics: Unit 4

| 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 (%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| SS | 5.6 | 244.9 | 100.0 | | | | | | |
| MH | 5.6 | 244.9 | 100.0 | | | | | | |
| NF | 173.7 | 44.8 | 18.3 | 90.9 | 31.8 | 11.2 | 15,785 | 55.0 | 21.5 |
| DF | 33.6 | 154.9 | 63.2 | 61.0 | 39.2 | 16.0 | 2,052 | 159.8 | 65.2 |
| WH | 22.4 | 181.7 | 74.2 | 57.2 | 25.8 | 14.9 | 1,281 | 183.5 | 75.6 |
| ALL | 240.9 | 20.5 | 8.4 | 83.2 | 35.5 | 8.6 | 20,050 | 41.0 | 12.0 |

Unit Summary: Unit 4

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 6 | ALL | 11.1 | 34 | 46 | 2,251 | 2,052 | 8.8 | 50.0 | 33.6 | 10.1 | 12.9 |
| MH | LIVE | LEA | 1 | ALL | 7.4 | 17 | 19 | | | | 18.8 | 5.6 | 2.1 | |
| NF | LIVE | CUT | 8 | ALL | 10.6 | 43 | 62 | 4,601 | 4,583 | 0.4 | 82.3 | 50.4 | 15.5 | 28.9 |
| NF | LIVE | LEA | 18 | ALL | 13.5 | 51 | 67 | 11,248 | 11,202 | 0.4 | 124.0 | 123.2 | 33.5 | 70.6 |
| SS | LIVE | LEA | 1 | ALL | 15.7 | 47 | 58 | | | | 4.2 | 5.6 | 1.4 | |
| WH | LIVE | CUT | 3 | ALL | 10.0 | 30 | 41 | 961 | 961 | 0.0 | 30.8 | 16.8 | 5.3 | 6.1 |
| WH | LIVE | LEA | 1 | ALL | 11.8 | 35 | 44 | 320 | 320 | 0.0 | 7.4 | 5.6 | 1.6 | 2.0 |
| ALL | LIVE | CUT | 17 | ALL | 10.6 | 38 | 53 | 7,813 | 7,595 | 2.8 | 163.1 | 100.8 | 30.9 | 47.9 |
| ALL | LIVE | LEA | 21 | ALL | 12.9 | 46 | 60 | 11,568 | 11,522 | 0.4 | 154.4 | 140.0 | 38.6 | 72.6 |
| ALL | ALL | CUT +LEAVE | 38 | ALL | 11.8 | 42 | 56 | 19,381 | 19,118 | 1.4 | 317.5 | 240.9 | 69.5 | 120.4 |

Cruise Unit Report Unit 5

Unit Sale Notice Volume (MBF): Unit 5

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| NF | 12.1 | | | 28 | 4 | 17 | 7 | |
| DF | 14.1 | | | 7 | | 6 | 1 | 1 |
| WH | 13.3 | | | 4 | | 3 | 1 | |
| ALL | 12.6 | | | 39 | 4 | 26 | 9 | 1 |

Unit Cruise Design: Unit 5

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 3.0 | | 4 | 4 | 0 |

Unit Cruise Summary: Unit 5

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| NF | 5 | 19 | 4.8 | 0 |
| DF | 2 | 2 | 0.5 | 0 |
| WH | 2 | 2 | 0.5 | 0 |
| ALL | 9 | 23 | 5.8 | 0 |

Unit Cruise Statistics: Unit 5

| 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 (%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| NF | 223.0 | 36.0 | 18.0 | 115.1 | 23.5 | 10.5 | 25,660 | 42.9 | 20.8 |
| DF | 23.5 | 115.5 | 57.7 | 102.0 | 17.9 | 12.6 | 2,394 | 116.8 | 59.1 |
| WH | 23.5 | 115.5 | 57.7 | 56.1 | 47.9 | 33.8 | 1,317 | 125.0 | 66.9 |
| ALL | 269.9 | 26.1 | 13.0 | 108.8 | 29.9 | 10.0 | 29,372 | 39.7 | 16.4 |

Unit Summary: Unit 5

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|---|-----|------|----|-----|-------------|-----------|-------------|-------|------|------|------------|
| DF | LIVE | CUT | 2 | ALL | 14.1 | 59 | 76 | 2,394 | 2,394 | 0.0 | 21.6 | 23.5 | 6.3 | 7.2 |
| NF | LIVE | CUT | 5 | ALL | 12.1 | 55 | 76 | 9,759 | 9,454 | 3.1 | 102.9 | 82.1 | 23.6 | 28.4 |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| NF | LIVE | LEA | 12 | ALL | 15.1 | 63 | 86 | 16,730 | 16,207 | 3.1 | 113.2 | 140.8 | 36.2 | 48.6 |
| WH | LIVE | CUT | 2 | ALL | 13.3 | 46 | 58 | 1,415 | 1,317 | 6.9 | 24.3 | 23.5 | 6.4 | 4.0 |
| ALL | LIVE | LEA | 12 | ALL | 15.1 | 63 | 86 | 16,730 | 16,207 | 3.1 | 113.2 | 140.8 | 36.2 | 48.6 |
| ALL | LIVE | CUT | 9 | ALL | 12.6 | 54 | 73 | 13,569 | 13,165 | 3.0 | 148.8 | 129.1 | 36.3 | 39.5 |
| ALL | ALL | CUT +LEAVE | 21 | ALL | 13.7 | 58 | 78 | 30,298 | 29,372 | 3.1 | 262.0 | 269.9 | 72.5 | 88.1 |

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Cruise Unit Report Unit 6

Unit Sale Notice Volume (MBF): Unit 6

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | |
|-----|------|----------|-----|---------------------|-------|-------|
| | | | | All | 3 Saw | 4 Saw |
| NF | 10.6 | | | 2 | 1 | 1 |
| WH | 14.3 | | | 1 | 0 | 1 |
| ALL | 12.1 | | | 3 | 2 | 2 |

Unit Cruise Design: Unit 6

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (33.61) Measure All, Sighting Ht = 4.5 ft | 1.1 | | 3 | 3 | 0 |

Unit Cruise Summary: Unit 6

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| SS | | 1 | 0.3 | 0 |
| NF | 2 | 13 | 4.3 | 0 |
| WH | 2 | 2 | 0.7 | 0 |
| ALL | 4 | 16 | 5.3 | 0 |

Unit Cruise Statistics: Unit 6

| 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 (%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| SS | 11.2 | 173.2 | 100.0 | | | | | | |
| NF | 145.6 | 53.3 | 30.8 | 89.5 | 17.1 | 12.1 | 13,030 | 56.0 | 33.1 |
| WH | 22.4 | 173.2 | 100.0 | 43.9 | 15.9 | 11.3 | 984 | 173.9 | 100.6 |
| ALL | 179.3 | 39.0 | 22.5 | 83.4 | 33.6 | 16.8 | 14,948 | 51.5 | 28.1 |

Unit Summary: Unit 6

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|---|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| NF | LIVE | CUT | 2 | ALL | 10.6 | 37 | 56 | 2,005 | 2,005 | 0.0 | 36.6 | 22.4 | 6.9 | 2.2 |
| NF | LIVE | LEA | 9 | ALL | 13.0 | 43 | 57 | 11,025 | 11,025 | 0.0 | 133.7 | 123.2 | 34.2 | 12.1 |
| SS | LIVE | LEA | 1 | ALL | 11.1 | 26 | 32 | | | | 16.7 | 11.2 | 3.4 | |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| WH | LIVE | CUT | 2 | ALL | 14.3 | 42 | 51 | 1,013 | 984 | 2.9 | 20.1 | 22.4 | 5.9 | 1.1 |
| ALL | LIVE | CUT | 4 | ALL | 12.0 | 39 | 54 | 3,018 | 2,989 | 1.0 | 56.7 | 44.8 | 12.8 | 3.3 |
| ALL | LIVE | LEA | 10 | ALL | 12.8 | 41 | 54 | 11,025 | 11,025 | 0.0 | 150.4 | 134.4 | 37.5 | 12.1 |
| ALL | ALL | CUT +LEAVE | 14 | ALL | 12.6 | 40 | 54 | 14,043 | 14,014 | 0.2 | 207.1 | 179.3 | 50.3 | 15.4 |

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Cruise Unit Report Unit 7

Unit Sale Notice Volume (MBF): Unit 7

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw |
| DF | 13.7 | | | 74 | 15 | 44 | 16 |
| ALL | 13.7 | | | 74 | 15 | 44 | 16 |

Unit Cruise Design: Unit 7

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|---|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 3.7 | | 4 | 4 | 0 |

Unit Cruise Summary: Unit 7

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| NF | | 2 | 0.5 | 0 |
| WH | | 2 | 0.5 | 0 |
| DF | 13 | 21 | 5.3 | 1 |
| ALL | 13 | 25 | 6.3 | 1 |

Unit Cruise Statistics: Unit 7

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| NF | 23.5 | 115.5 | 57.7 | | | | | | |
| WH | 23.5 | 200.0 | 100.0 | | | | | | |
| DF | 246.4 | 32.5 | 16.3 | 131.7 | 15.8 | 4.4 | 32,446 | 36.2 | 16.8 |
| ALL | 293.4 | 8.0 | 4.0 | 131.7 | 15.8 | 4.4 | 38,626 | 17.7 | 5.9 |

Unit Summary: Unit 7

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|----|-----|------|----|-----|----------|--------|----------|-------|-------|------|---------|
| DF | LIVE | CUT | 13 | ALL | 13.7 | 69 | 92 | 20,512 | 20,086 | 2.1 | 149.0 | 152.6 | 41.2 | 74.3 |
| DF | LIVE | LEA | 8 | ALL | 16.2 | 81 | 103 | 12,623 | 12,360 | 2.1 | 65.6 | 93.9 | 23.3 | 45.7 |
| NF | LIVE | LEA | 2 | ALL | 20.8 | 91 | 116 | | | | 9.9 | 23.5 | 5.1 | |
| WH | LIVE | LEA | 2 | ALL | 13.6 | 52 | 65 | | | | 23.3 | 23.5 | 6.4 | |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| ALL | LIVE | CUT | 13 | ALL | 13.7 | 69 | 92 | 20,512 | 20,086 | 2.1 | 149.0 | 152.6 | 41.2 | 74.3 |
| ALL | LIVE | LEA | 12 | ALL | 16.2 | 75 | 95 | 12,623 | 12,360 | 2.1 | 98.8 | 140.8 | 34.8 | 45.7 |
| ALL | ALL | CUT +LEAVE | 25 | ALL | 14.7 | 71 | 94 | 33,135 | 32,446 | 2.1 | 247.8 | 293.4 | 76.1 | 120.1 |

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Cruise Unit Report Unit 8

Unit Sale Notice Volume (MBF): Unit 8

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | |
|-----|------|----------|-----|---------------------|-------|-------|
| | | | | All | 3 Saw | 4 Saw |
| DF | 12.7 | | | 60 | 47 | 14 |
| ALL | 12.7 | | | 60 | 47 | 14 |

Unit Cruise Design: Unit 8

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 6.9 | | 7 | 7 | 1 |

Unit Cruise Summary: Unit 8

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| NF | | 1 | 0.1 | 0 |
| WH | | 1 | 0.1 | 0 |
| DF | 14 | 33 | 4.7 | 1 |
| ALL | 14 | 35 | 5.0 | 1 |

Unit Cruise Statistics: Unit 8

| 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 (%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| NF | 6.7 | 264.6 | 100.0 | | | | | | |
| WH | 6.7 | 264.6 | 100.0 | | | | | | |
| DF | 221.3 | 58.4 | 22.1 | 93.3 | 23.9 | 6.4 | 20,642 | 63.1 | 23.0 |
| ALL | 234.7 | 50.3 | 19.0 | 93.3 | 23.9 | 6.4 | 21,893 | 55.7 | 20.1 |

Unit Summary: Unit 8

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 14 | ALL | 12.7 | 54 | 75 | 9,123 | 8,757 | 4.0 | 106.7 | 93.9 | 26.3 | 60.4 |
| DF | LIVE | LEA | 19 | ALL | 16.9 | 75 | 95 | 12,381 | 11,885 | 4.0 | 81.8 | 127.4 | 31.0 | 82.0 |
| NF | LIVE | LEA | 1 | ALL | 11.0 | 38 | 52 | | | | 10.2 | 6.7 | 2.0 | |
| WH | LIVE | LEA | 1 | ALL | 15.0 | 58 | 71 | | | | 5.5 | 6.7 | 1.7 | |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| ALL | LIVE | LEA | 21 | ALL | 16.3 | 70 | 89 | 12,381 | 11,885 | 4.0 | 97.5 | 140.8 | 34.7 | 82.0 |
| ALL | LIVE | CUT | 14 | ALL | 12.7 | 54 | 75 | 9,123 | 8,757 | 4.0 | 106.7 | 93.9 | 26.3 | 60.4 |
| ALL | ALL | CUT +LEAVE | 35 | ALL | 14.5 | 62 | 82 | 21,504 | 20,642 | 4.0 | 204.2 | 234.7 | 61.1 | 142.4 |

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Cruise Unit Report Unit 9

Unit Sale Notice Volume (MBF): Unit 9

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| DF | 13.7 | 11.0 | | 120 | 28 | 68 | 23 | 1 |
| ALL | 13.7 | 11.0 | | 120 | 28 | 68 | 23 | 1 |

Unit Cruise Design: Unit 9

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft | 6.7 | | 6 | 6 | 0 |

Unit Cruise Summary: Unit 9

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| NF | | 9 | 1.5 | 0 |
| WH | | 1 | 0.2 | 0 |
| DF | 22 | 32 | 5.3 | 1 |
| ALL | 22 | 42 | 7.0 | 1 |

Unit Cruise Statistics: Unit 9

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| NF | 60.0 | 117.4 | 47.9 | | | | | | |
| WH | 6.7 | 244.9 | 100.0 | | | | | | |
| DF | 213.3 | 22.7 | 9.3 | 122.1 | 17.4 | 3.7 | 26,051 | 28.6 | 10.0 |
| ALL | 280.0 | 22.1 | 9.0 | 122.1 | 17.4 | 3.7 | 34,192 | 28.1 | 9.8 |

Unit Summary: Unit 9

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|----|-----|------|----|-----|----------|--------|----------|-------|-------|------|---------|
| DF | LIVE | CUT | 22 | ALL | 13.7 | 63 | 86 | 18,790 | 17,910 | 4.7 | 143.3 | 146.7 | 39.6 | 120.0 |
| DF | LIVE | LEA | 10 | ALL | 18.6 | 82 | 104 | 8,541 | 8,141 | 4.7 | 35.3 | 66.7 | 15.5 | 54.5 |
| NF | LIVE | LEA | 9 | ALL | 16.9 | 87 | 112 | | | | 38.5 | 60.0 | 14.6 | |
| WH | LIVE | LEA | 1 | ALL | 12.1 | 53 | 70 | | | | 8.3 | 6.7 | 1.9 | |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| ALL | LIVE | LEA | 20 | ALL | 17.2 | 82 | 104 | 8,541 | 8,141 | 4.7 | 82.1 | 133.3 | 32.0 | 54.5 |
| ALL | LIVE | CUT | 22 | ALL | 13.7 | 63 | 86 | 18,790 | 17,910 | 4.7 | 143.3 | 146.7 | 39.6 | 120.0 |
| ALL | ALL | CUT +LEAVE | 42 | ALL | 15.1 | 70 | 93 | 27,331 | 26,051 | 4.7 | 225.4 | 280.0 | 71.6 | 174.5 |

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Cruise Unit Report Unit 10

Unit Sale Notice Volume (MBF): Unit 10

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| DF | 14.3 | 11.0 | | 130 | 19 | 86 | 23 | 3 |
| NF | 16.0 | | | 14 | 4 | 10 | | 1 |
| ALL | 14.4 | 11.0 | | 144 | 22 | 96 | 23 | 3 |

Unit Cruise Design: Unit 10

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft | 6.2 | | 6 | 6 | 0 |

Unit Cruise Summary: Unit 10

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| WH | | 1 | 0.2 | 0 |
| DF | 25 | 29 | 4.8 | 1 |
| NF | 2 | 17 | 2.8 | 0 |
| ALL | 27 | 47 | 7.8 | 1 |

Unit Cruise Statistics: Unit 10

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| WH | 6.7 | 244.9 | 100.0 | | | | | | |
| DF | 193.3 | 27.5 | 11.2 | 125.9 | 22.9 | 4.6 | 24,348 | 35.8 | 12.1 |
| NF | 113.3 | 46.9 | 19.2 | 170.7 | 36.1 | 25.5 | 19,344 | 59.2 | 31.9 |
| ALL | 313.3 | 9.6 | 3.9 | 142.5 | 22.8 | 4.4 | 44,642 | 24.8 | 5.9 |

Unit Summary: Unit 10

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|----|-----|------|----|-----|----------|--------|----------|-------|-------|------|---------|
| DF | LIVE | CUT | 25 | ALL | 14.3 | 66 | 90 | 21,755 | 20,990 | 3.5 | 149.4 | 166.7 | 44.1 | 130.1 |
| DF | LIVE | LEA | 4 | ALL | 17.4 | 84 | 106 | 3,481 | 3,358 | 3.5 | 16.1 | 26.7 | 6.4 | 20.8 |
| NF | LIVE | CUT | 2 | ALL | 16.0 | 92 | 120 | 2,490 | 2,276 | 8.6 | 9.5 | 13.3 | 3.3 | 14.1 |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| NF | LIVE | LEA | 15 | ALL | 20.1 | 94 | 120 | 18,676 | 17,068 | 8.6 | 45.4 | 100.0 | 22.3 | 105.8 |
| WH | LIVE | LEA | 1 | ALL | 14.8 | 70 | 88 | | | | 5.6 | 6.7 | 1.7 | |
| ALL | LIVE | LEA | 20 | ALL | 19.1 | 89 | 114 | 22,157 | 20,426 | 7.8 | 67.1 | 133.3 | 30.4 | 126.6 |
| ALL | LIVE | CUT | 27 | ALL | 14.4 | 68 | 92 | 24,246 | 23,266 | 4.0 | 158.9 | 180.0 | 47.4 | 144.2 |
| ALL | ALL | CUT +LEAVE | 47 | ALL | 15.9 | 74 | 98 | 46,403 | 43,692 | 5.8 | 226.0 | 313.3 | 77.8 | 270.9 |

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Cruise Unit Report Unit 11

Unit Sale Notice Volume (MBF): Unit 11

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|---------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw | Utility |
| DF | 15.6 | 13.0 | | 86 | 13 | 59 | 13 | 0 |
| WH | 10.0 | | | 20 | | 16 | 5 | |
| ALL | 14.0 | 13.0 | | 106 | 13 | 75 | 17 | 0 |

Unit Cruise Design: Unit 11

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (40) Measure All, Sighting Ht = 4.5 ft | 6.7 | | 6 | 6 | 0 |

Unit Cruise Summary: Unit 11

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| NF | | 3 | 0.5 | 0 |
| DF | 14 | 28 | 4.7 | 1 |
| WH | 3 | 7 | 1.2 | 0 |
| ALL | 17 | 38 | 6.3 | 1 |

Unit Cruise Statistics: Unit 11

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| NF | 20.0 | 109.5 | 44.7 | | | | | | |
| DF | 186.7 | 51.9 | 21.2 | 127.6 | 17.4 | 4.6 | 23,824 | 54.7 | 21.7 |
| WH | 46.7 | 175.0 | 71.4 | 152.8 | 8.2 | 4.8 | 7,131 | 175.2 | 71.6 |
| ALL | 253.3 | 8.2 | 3.3 | 132.7 | 17.1 | 4.1 | 33,609 | 18.9 | 5.3 |

Unit Summary: Unit 11

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|----|-----|------|----|-----|----------|--------|----------|------|-------|------|---------|
| DF | LIVE | CUT | 14 | ALL | 15.6 | 75 | 98 | 13,352 | 12,763 | 4.4 | 75.3 | 100.0 | 25.3 | 85.5 |
| DF | LIVE | LEA | 13 | ALL | 18.3 | 84 | 106 | 11,572 | 11,061 | 4.4 | 47.4 | 86.7 | 20.3 | 74.1 |
| NF | LIVE | LEA | 3 | ALL | 15.9 | 76 | 96 | | | | 14.5 | 20.0 | 5.0 | |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| WH | LIVE | CUT | 3 | ALL | 10.0 | 60 | 90 | 3,097 | 3,056 | 1.3 | 36.7 | 20.0 | 6.3 | 20.5 |
| WH | LIVE | LEA | 4 | ALL | 14.6 | 69 | 90 | 4,129 | 4,075 | 1.3 | 22.9 | 26.7 | 7.0 | 27.3 |
| ALL | LIVE | LEA | 20 | ALL | 17.0 | 78 | 100 | 15,701 | 15,136 | 3.6 | 84.8 | 133.3 | 32.3 | 101.4 |
| ALL | LIVE | CUT | 17 | ALL | 14.0 | 70 | 96 | 16,449 | 15,819 | 3.8 | 112.0 | 120.0 | 31.6 | 106.0 |
| ALL | ALL | CUT +LEAVE | 37 | ALL | 15.4 | 74 | 98 | 32,150 | 30,955 | 3.7 | 196.8 | 253.3 | 63.9 | 207.4 |

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Cruise Unit Report Unit 12

Unit Sale Notice Volume (MBF): Unit 12

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | |
|-----|------|----------|-----|---------------------|-------|-------|
| | | | | All | 3 Saw | 4 Saw |
| DF | 14.8 | | | 80 | 65 | 15 |
| ALL | 14.8 | | | 80 | 65 | 15 |

Unit Cruise Design: Unit 12

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 11.4 | | 7 | 7 | 0 |

Unit Cruise Summary: Unit 12

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| RC | | 1 | 0.1 | 0 |
| DF | 9 | 29 | 4.1 | 0 |
| ALL | 9 | 30 | 4.3 | 0 |

Unit Cruise Statistics: Unit 12

| 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 (%) |
|-----|--------------------|--------------|--------------|---------------------|-----------------|-----------------|----------------------|---------------|---------------|
| RC | 6.7 | 264.6 | 100.0 | | | | | | |
| DF | 194.5 | 42.8 | 16.2 | 116.9 | 14.1 | 4.7 | 22,730 | 45.1 | 16.8 |
| ALL | 201.2 | 46.1 | 17.4 | 116.9 | 14.1 | 4.7 | 23,513 | 48.2 | 18.0 |

Unit Summary: Unit 12

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 9 | ALL | 14.8 | 66 | 86 | 7,188 | 7,054 | 1.9 | 50.5 | 60.4 | 15.7 | 80.4 |
| DF | LIVE | LEA | 20 | ALL | 16.5 | 70 | 88 | 15,974 | 15,676 | 1.9 | 90.3 | 134.1 | 33.0 | 178.7 |
| RC | LIVE | LEA | 1 | ALL | 15.0 | 58 | 73 | | | | 5.5 | 6.7 | 1.7 | |
| ALL | LIVE | LEA | 21 | ALL | 16.4 | 69 | 87 | 15,974 | 15,676 | 1.9 | 95.8 | 140.8 | 34.7 | 178.7 |
| ALL | LIVE | CUT | 9 | ALL | 14.8 | 66 | 86 | 7,188 | 7,054 | 1.9 | 50.5 | 60.4 | 15.7 | 80.4 |
| ALL | ALL | CUT | 30 | ALL | 15.9 | 68 | 87 | 23,162 | 22,730 | 1.9 | 146.3 | 201.2 | 50.4 | 259.1 |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|----|---|---|-----|----|-----|-------------|-----------|-------------|-----|----|----|------------|
|----|--------|----|---|---|-----|----|-----|-------------|-----------|-------------|-----|----|----|------------|

| | | | | | | | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| +LEAVE | | | | | | | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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Cruise Unit Report Unit 13

Unit Sale Notice Volume (MBF): Unit 13

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | |
|-----|------|----------|-----|---------------------|-------|-------|
| | | | | All | 3 Saw | 4 Saw |
| DF | 15.3 | | | 115 | 97 | 18 |
| WH | 14.0 | | | 9 | 7 | 2 |
| ALL | 15.2 | | | 124 | 104 | 20 |

Unit Cruise Design: Unit 13

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 13.9 | | 8 | 8 | 0 |

Unit Cruise Summary: Unit 13

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| DF | 13 | 32 | 4.0 | 0 |
| WH | 1 | 5 | 0.6 | 0 |
| ALL | 14 | 37 | 4.6 | 0 |

Unit Cruise Statistics: Unit 13

| 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 | 187.8 | 46.3 | 16.4 | 108.2 | 19.6 | 5.4 | 20,316 | 50.3 | 17.2 |
| WH | 29.3 | 190.0 | 67.2 | 111.3 | 0.0 | 0.0 | 3,266 | 190.0 | 67.2 |
| ALL | 217.1 | 30.4 | 10.8 | 108.6 | 18.8 | 5.0 | 23,582 | 35.8 | 11.9 |

Unit Summary: Unit 13

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 13 | ALL | 15.3 | 64 | 80 | 8,306 | 8,253 | 0.6 | 59.7 | 76.3 | 19.5 | 114.7 |
| DF | LIVE | LEA | 19 | ALL | 11.2 | 55 | 70 | 12,139 | 12,062 | 0.6 | 163.0 | 111.5 | 33.3 | 167.7 |
| WH | LIVE | CUT | 1 | ALL | 14.0 | 64 | 79 | 653 | 653 | 0.0 | 5.5 | 5.9 | 1.6 | 9.1 |
| WH | LIVE | LEA | 4 | ALL | 9.9 | 46 | 56 | 2,613 | 2,613 | 0.0 | 43.9 | 23.5 | 7.5 | 36.3 |
| ALL | LIVE | LEA | 23 | ALL | 10.9 | 53 | 67 | 14,752 | 14,675 | 0.5 | 206.9 | 135.0 | 40.8 | 204.0 |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| ALL | LIVE | CUT | 14 | ALL | 15.2 | 64 | 80 | 8,959 | 8,906 | 0.6 | 65.2 | 82.1 | 21.1 | 123.8 |
| ALL | ALL | CUT +LEAVE | 37 | ALL | 12.1 | 56 | 70 | 23,710 | 23,582 | 0.5 | 272.1 | 217.1 | 61.8 | 327.8 |

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Cruise Unit Report Unit 14

Unit Sale Notice Volume (MBF): Unit 14

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw |
| DF | 14.8 | | | 34 | 11 | 18 | 5 |
| WH | 10.3 | | | 7 | | 7 | |
| ALL | 13.6 | | | 41 | 11 | 24 | 5 |

Unit Cruise Design: Unit 14

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1: VR, 1 BAF (46.94) Measure All, Sighting Ht = 4.5 ft | 11.3 | | 7 | 7 | 0 |

Unit Cruise Summary: Unit 14

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| DF | 4 | 21 | 3.0 | 0 |
| WH | 1 | 5 | 0.7 | 0 |
| ALL | 5 | 26 | 3.7 | 0 |

Unit Cruise Statistics: Unit 14

| 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 | 140.8 | 50.9 | 19.2 | 90.7 | 30.9 | 15.5 | 12,769 | 59.6 | 24.7 |
| WH | 33.5 | 155.8 | 58.9 | 86.4 | 0.0 | 0.0 | 2,897 | 155.8 | 58.9 |
| ALL | 174.3 | 37.2 | 14.0 | 89.9 | 27.0 | 12.1 | 15,666 | 46.0 | 18.5 |

Unit Summary: Unit 14

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|-----|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 4 | ALL | 14.8 | 55 | 68 | 3,109 | 3,040 | 2.2 | 28.1 | 33.5 | 8.7 | 34.4 |
| DF | LIVE | LEA | 15 | ALL | 12.7 | 54 | 67 | 9,949 | 9,729 | 2.2 | 122.0 | 107.3 | 30.1 | 109.9 |
| WH | LIVE | CUT | 1 | ALL | 10.3 | 46 | 55 | 579 | 579 | 0.0 | 11.6 | 6.7 | 2.1 | 6.5 |
| WH | LIVE | LEA | 4 | ALL | 10.5 | 51 | 62 | 2,318 | 2,318 | 0.0 | 44.6 | 26.8 | 8.3 | 26.2 |
| ALL | LIVE | CUT | 5 | ALL | 13.6 | 53 | 65 | 3,689 | 3,620 | 1.9 | 39.7 | 40.2 | 10.8 | 40.9 |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| ALL | LIVE | LEA | 19 | ALL | 12.2 | 54 | 66 | 12,267 | 12,047 | 1.8 | 166.6 | 134.1 | 38.4 | 136.1 |
| ALL | ALL | CUT +LEAVE | 24 | ALL | 12.5 | 53 | 65 | 15,955 | 15,666 | 1.8 | 206.3 | 174.3 | 49.2 | 177.0 |

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Cruise Unit Report Unit 15

Unit Sale Notice Volume (MBF): Unit 15

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | |
|-----|------|----------|-----|---------------------|-------|-------|
| | | | | All | 3 Saw | 4 Saw |
| DF | 11.9 | | | 53 | 39 | 14 |
| ALL | 11.9 | | | 53 | 39 | 14 |

Unit Cruise Design: Unit 15

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft | 13.4 | | 9 | 9 | 0 |

Unit Cruise Summary: Unit 15

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| SF | | 1 | 0.1 | 0 |
| RC | | 3 | 0.3 | 0 |
| DF | 11 | 42 | 4.7 | 0 |
| ALL | 11 | 46 | 5.1 | 0 |

Unit Cruise Statistics: Unit 15

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| SF | 3.7 | 300.0 | 100.0 | | | | | | |
| RC | 11.2 | 300.0 | 100.0 | | | | | | |
| DF | 156.8 | 30.3 | 10.1 | 96.9 | 20.2 | 6.1 | 15,199 | 36.4 | 11.8 |
| ALL | 171.8 | 34.5 | 11.5 | 96.9 | 20.2 | 6.1 | 16,646 | 40.0 | 13.0 |

Unit Summary: Unit 15

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|----|--------|-----|----|-----|------|----|-----|----------|--------|----------|-------|-------|------|---------|
| DF | LIVE | CUT | 11 | ALL | 11.9 | 53 | 77 | 4,038 | 3,981 | 1.4 | 53.2 | 41.1 | 11.9 | 53.3 |
| DF | LIVE | LEA | 31 | ALL | 13.8 | 53 | 69 | 11,381 | 11,218 | 1.4 | 111.5 | 115.8 | 31.2 | 150.3 |
| RC | LIVE | LEA | 3 | ALL | 10.8 | 36 | 53 | | | | 17.6 | 11.2 | 3.4 | |
| SF | LIVE | LEA | 1 | ALL | 7.1 | 19 | 28 | | | | 13.6 | 3.7 | 1.4 | |

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| ALL | LIVE | LEA | 35 | ALL | 13.0 | 48 | 63 | 11,381 | 11,218 | 1.4 | 142.7 | 130.7 | 36.0 | 150.3 |
| ALL | LIVE | CUT | 11 | ALL | 11.9 | 53 | 77 | 4,038 | 3,981 | 1.4 | 53.2 | 41.1 | 11.9 | 53.3 |
| ALL | ALL | CUT +LEAVE | 46 | ALL | 12.7 | 49 | 67 | 15,419 | 15,199 | 1.4 | 195.9 | 171.8 | 47.9 | 203.7 |

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Cruise Unit Report Unit 16

Unit Sale Notice Volume (MBF): Unit 16

| Sp | DBH | Rings/In | Age | MBF Volume by Grade | | | |
|-----|------|----------|-----|---------------------|-------|-------|-------|
| | | | | All | 2 Saw | 3 Saw | 4 Saw |
| DF | 15.7 | | | 107 | 35 | 60 | 13 |
| WH | 12.2 | | | 30 | | 23 | 7 |
| SF | 11.3 | | | 4 | | 4 | |
| ALL | 14.3 | | | 141 | 35 | 87 | 19 |

Unit Cruise Design: Unit 16

| Design | Cruise Acres | FMA Acres | N Plots | N Cruise Plots | N Void Plots |
|--|--------------|-----------|---------|----------------|--------------|
| B1C: VR, 1 BAF (33.61) Measure/Count Plots, Sighting Ht = 4.5 ft | 13.8 | | 10 | 10 | 0 |

Unit Cruise Summary: Unit 16

| Sp | Cruised Trees | All Trees | Trees/Plot | Ring-Count Trees |
|-----|---------------|-----------|------------|------------------|
| NF | | 9 | 0.9 | 0 |
| RC | | 1 | 0.1 | 0 |
| DF | 21 | 33 | 3.3 | 0 |
| WH | 8 | 23 | 2.3 | 0 |
| SF | 1 | 3 | 0.3 | 0 |
| ALL | 30 | 69 | 6.9 | 0 |

Unit Cruise Statistics: Unit 16

| 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 (%) |
|-----|-----------------|-----------|-----------|------------------|--------------|--------------|-------------------|------------|------------|
| NF | 30.2 | 97.3 | 30.8 | | | | | | |
| RC | 3.4 | 316.2 | 100.0 | | | | | | |
| DF | 110.9 | 51.6 | 16.3 | 110.2 | 20.9 | 4.6 | 12,221 | 55.7 | 16.9 |
| WH | 77.3 | 82.1 | 26.0 | 80.1 | 29.2 | 10.3 | 6,188 | 87.1 | 27.9 |
| SF | 10.1 | 316.2 | 100.0 | 90.5 | 0.0 | 0.0 | 912 | 316.2 | 100.0 |
| ALL | 231.9 | 28.5 | 9.0 | 97.4 | 26.8 | 4.9 | 22,596 | 39.2 | 10.3 |

Unit Summary: Unit 16

| Sp | Status | Rx | N | D | DBH | BL | THT | BF Gross | BF Net | Defect % | TPA | BA | RD | MBF Net |
|-----|--------|---------------|----|-----|------|----|-----|-------------|-----------|-------------|-------|-------|------|------------|
| DF | LIVE | CUT | 21 | ALL | 15.7 | 61 | 84 | 8,143 | 7,777 | 4.5 | 52.5 | 70.6 | 17.8 | 107.3 |
| DF | LIVE | LEA | 12 | ALL | 18.8 | 70 | 90 | 4,653 | 4,444 | 4.5 | 20.9 | 40.3 | 9.3 | 61.3 |
| NF | LIVE | LEA | 9 | ALL | 16.9 | 64 | 81 | | | | 19.4 | 30.2 | 7.4 | |
| RC | LIVE | LEA | 1 | ALL | 12.2 | 28 | 35 | | | | 4.1 | 3.4 | 1.0 | |
| SF | LIVE | CUT | 1 | ALL | 11.3 | 48 | 67 | 333 | 304 | 8.7 | 4.8 | 3.4 | 1.0 | 4.2 |
| SF | LIVE | LEA | 2 | ALL | 11.9 | 46 | 62 | 666 | 608 | 8.7 | 8.7 | 6.7 | 1.9 | 8.4 |
| WH | LIVE | CUT | 8 | ALL | 12.2 | 48 | 62 | 2,272 | 2,152 | 5.3 | 33.1 | 26.9 | 7.7 | 29.7 |
| WH | LIVE | LEA | 15 | ALL | 11.8 | 47 | 66 | 4,261 | 4,036 | 5.3 | 66.4 | 50.4 | 14.7 | 55.7 |
| ALL | LIVE | LEA | 39 | ALL | 14.2 | 53 | 72 | 9,580 | 9,088 | 5.1 | 119.5 | 131.1 | 34.2 | 125.4 |
| ALL | LIVE | CUT | 30 | ALL | 14.3 | 55 | 75 | 10,748 | 10,233 | 4.8 | 90.4 | 100.8 | 26.5 | 141.2 |
| ALL | ALL | CUT +LEAVE | 69 | ALL | 14.2 | 54 | 73 | 20,328 | 19,321 | 5.0 | 209.9 | 231.9 | 60.8 | 266.6 |