

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Tillamook Field Office
6275 Blimp Blvd.
Tillamook, Oregon 97141**

Pumpkin Pi Timber Sale
ORN04-TS-2026.0402
Date: July 17, 2026

TIMBER SALE PROSPECTUS

THIS IS A PROSPECTUS ONLY. ATTACHMENTS MAY NOT INCLUDE ALL EXHIBITS REFERRED TO IN THE CONTRACT. THE COMPLETE CONTRACT, INCLUDING ALL EXHIBITS, IS AVAILABLE FOR INSPECTION AT THE NORTHWEST OREGON DISTRICT OFFICE.

NOTICE IS HEREBY GIVEN that the Bureau of Land Management will offer for sale timber as described herein for oral auction, pursuant to Instructions to Bidders, as stated on Form No. 5440-9. Written and oral bids will be received by the District Manager, or designated representative, in the timber sale room at the District Office, 1717 Fabry Road, S.E., Salem, Oregon. Written bids and deposits will be accepted beginning at 8:30 a.m. and the timber sale oral auction will commence at 9:00 a.m., on Wednesday, August 19, 2026. Before bids are submitted, full information concerning the timber, the conditions of sale and submission of bids, including appraised prices per species, should be obtained from the above District Manager, or designated representative. The right is hereby reserved to waive technical defects in this advertisement and to reject any or all bids. The United States reserves the right to waive any informality in bids received whenever such waiver is in the interest of the United States.

THIS PROSPECTUS does not constitute the decision document for purposes of appeal of a forest management decision. Consistent with 43 CFR Subpart 5003.2(b), the date the BLM posts the forest management decision on the BLM's ePlanning website establishes the effective date of the decision for purposes of an administrative appeal. The decision was posted to the BLM's ePlanning website on June 5, 2026, referring to the McKay Creek Forest Management Project, DOI-BLM-ORWA-N040-2023-0003-EA. For the purposes of 43 CFR 5401.0-6 and 5430.0-6, this advertisement is being published on 07/17/2026 and 07/24/2026.

AN ENVIRONMENTAL ASSESSMENT was prepared for this timber sale tract, and a Finding of No Significant Impact has been documented. These documents are available for inspection as background for each timber sale tract at the Tillamook Field Office.

A WRITTEN BID on Form 5440-9 at not less than the advertised appraised price on a unit basis per species and the required minimum bid deposit shall be required to participate in oral bidding. Oral bidding will be restricted to Douglas-fir. Forms can be found at the following website under Forestry Forms, 5000-5999.
<https://www.blm.gov/services/electronic-forms>

THE SUCCESSFUL BIDDER, as a condition of award, will be required to sign Form 5430-11, a certification that the bid was arrived at by the bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. Also, Form 5450-17, Export Determination must be completed by the successful bidder. To expedite procedure, this form should be completed and submitted with the written bid.

THE VOLUMES LISTED herein are estimates only. The sale volumes listed are based on 16-foot taper breaks which must be taken into consideration if comparisons are made with volume predictions based on other standards. The volumes based on 32-foot taper breaks are shown for comparison purposes. No sale shall be made for less than the advertised appraised price. The Purchaser shall be liable for the total purchase price, without regard to the amount bid per unit, even though the quantity of timber actually cut or removed or designated for taking is more or less than the estimated volume or quantity so listed.

THIS TIMBER SALE has been cruised based upon Eastside Scribner board foot measure. The minimum bid figures shown by species are dollars per thousand board feet (MBF). The minimum bid increment will be \$0.10 per MBF.

A PERFORMANCE BOND in an amount not less than 20 percent of the total purchase price will be required for all contracts of \$2,500 or more. A minimum performance bond of not less than \$500 will be required for all installment contracts less than \$2,500.

QUALIFIED SMALL BUSINESS concerns may apply to SBA for a loan to provide financing for access road construction required under the terms of qualifying timber sale contracts, and necessary contract changes will be made. Approval of loan applications rests with SBA and may be contingent on availability of funds. Applicants for such loans shall notify BLM of their intention to apply for a loan.

PRE-AWARD QUALIFICATIONS. The high bidder may be required to furnish information to determine the ability to perform the obligations of the contract. If the high bidder is determined not qualified, responsible or refuses to respond within fifteen (15) days of a request for information pertaining to qualifications, the contract may be offered and awarded for the amount of the high bid to the highest of the bidders who is qualified, responsible, and willing to accept the contract.

LOG EXPORT AND SUBSTITUTION: All timber sales, including timber from Federal rights-of-ways, shall be subject to the restrictions relating to the export and substitution of unprocessed timber from the United States in accordance with P.L. 94-165 and 43 CFR 5400 and 5420, as amended.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS: Excepting Port-Orford-cedar, all timber offered for sale hereunder is restricted from export from the United States in the form of unprocessed timber and is prohibited from being used as a substitute for exported private timber. The BLM has revised the log export restrictions special provision to reduce the log branding and painting requirements. The new requirements include branding of one end of all logs with a scaling diameter of over 10 inches. All loads of 11 logs or more, regardless of the diameter of the logs, will have a minimum of 10 logs branded on one end. All logs will be branded on loads of 10 logs or less. One end of all branded logs will be marked with yellow paint. At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. The Purchaser shall bear any increased costs for log branding and painting.

CONTRACT MODIFICATION, SUSPENSION OR TERMINATION: A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to: (1) Comply with the Endangered Species Act or to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), or; (2) Comply with a court order, or; (3) Protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines or management direction established in the ROD and RMP.

ADDITIONAL INFORMATION concerning this timber sale tract is available at the above District Office. A copy of the timber sale contract is also available for inspection at the District Office. The prospectus for this/these sale(s) is also available online at: <https://www.blm.gov/programs/natural-resources/forests-and-woodlands/timber-sales>. The prospectus includes maps and tables that cannot be made Section 508 compliant. For help with its data or information, please contact the Northwest Oregon District Office at 503-375-5646.

TIMBER SALE NOTICE

LUMP SUM SALE

NORTHWEST OREGON DISTRICT
TILLAMOOK FIELD OFFICE
COLUMBIA MASTER UNIT

Sale Date: August 19, 2026

CONTRACT NO.: ORN04-TS-2026.0402, Pumkin Pi Timber Sale, Lump Sum Sale
WASHINGTON COUNTY, OREGON: O&C: **Oral Auction**
BID DEPOSIT REQUIRED: \$831,900.00

All timber designated for cutting on: NW¼NE¼, N½NW¼, **Sec. 7**, T. 2 N., R. 2 W.; Lot 2, Lot 3, S½ NW¼, N½SW¼, SW¼SW¼, SE¼SE¼, **Sec. 01**, T. 2 N., R. 3 W.; W½SW¼, **Sec. 23**, SE¼SW¼, NE¼SE¼, S½SE¼, **Sec. 35**, T. 3 N., R. 3 W., WM., Oregon.

THIS TIMBER SALE HAS BEEN CRUISED BASED UPON EASTSIDE SCRIBNER MEASURE.

Minimum bid figures shown by species are dollars per thousand board feet (MBF). The minimum bid increment will be \$0.10 per MBF. **Oral bidding will be restricted to Douglas-fir.**

Approx. No. Merchantable Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Volume Times Appraised Price
20,621	17,970	Douglas-fir	21,214	\$377.40	\$8,006,163.60
6,382	928	Bigleaf Maple	1,225	\$24.70*	\$30,257.50
4,888	645	Red Alder	816	\$210.70	\$171,931.20
1,637	154	Western Redcedar	205	\$527.70	\$108,178.50
265	13	Western Hemlock	17	\$122.30	\$2,079.10
33,793	19,710	TOTALS	23,477		\$8,318,609.90
Clean Chips			2,500 tons	\$0.10 per ton	\$250.00
		GRAND TOTAL			\$8,318,859.90

* Minimum stumpage values were used to compute the appraised price/MBF (10% of pond value).

LOG EXPORT AND SUBSTITUTION RESTRICTIONS: All timber offered for sale here under is restricted from export from the United States in the form of unprocessed timber and prohibited from substitution of exported private timber.

CRUISE INFORMATION: The timber volumes for the harvest units were based on a variable plot cruise for estimating the board foot volume of trees. Plots were measured using a 40 basal area factor (BAF) for the regen and RW units. A 20 BAF was used in thinning harvest units. None of the total sale volume is salvage material. For merchantable Douglas-fir trees the average DBHOB is 22.8 inches; the average gross merchantable log contains 131 board feet; the total gross volume is approximately 25,340 MBF; and 93% recovery is expected.

CUTTING AREA: Five (5) units totaling approximately three hundred and ninety-five (395) acres, of which three hundred thirty-two (332) acres shall be regeneration harvest and sixty-three (63) acres shall be partial cut harvest. These acres are inclusive of Patch Cut and Clump Areas as shown on Exhibit A. In addition, approximately seven (7) acres of right-of-way shall be cut. Acres shown on Exhibit A have been calculated based on Global Positioning System traverse procedures including differential correction.

DURATION OF CONTRACT: Contract length will be 48 months for cutting and removal of timber.

LOCATION: The contract area is located approximately eight (8) air miles north of North Plains, Oregon. Starting in North Plains Oregon, head north on NW Shadybrook Road for approximately 1 mile. Turn left (northeast) onto Pumpkin Ridge Road and follow for 7.9 miles. Turn right onto NW Willis Lane and continue for 0.5 miles and enter Pumpkin Pi timber sale unit 2. Consult a project location map.

ROAD CONSTRUCTION, IMPROVEMENT, AND RENOVATION: The Purchaser will be required to do all work set forth below. The Purchaser shall supply all materials unless otherwise indicated.

1. New Road Construction:
Total Length: 144.47 Stations.
Road construction work to be performed is described in detail in Exhibit C and as shown on Exhibit A and C maps.
2. Renovation:
Total Length: 12+83 Stations
Road renovation work to be performed is described in detail in Exhibit C and as shown on Exhibit A and C maps.
3. Improvement:
Total Length: 169+97 Stations
Road renovation work to be performed is described in detail in Exhibit C and as shown on Exhibit A and C maps.
4. Estimated Quantities:
 - a. Clearing and Grubbing:
27.26 acres of Clearing and Grubbing
 - b. Culverts: Reference Exhibit C for details
1,260 feet of 18-inch Corrugated Plastic Pipe (CPP) – Type S
40 feet of 18-inch Corrugated Plastic Pipe (CPP) – Type C
 - c. Aggregate Material & Rock Source: Reference Exhibit C and D for details

Commercial Source:
17,601 CY 6” Jaw Run Base Rock
1,245 CY 1 ½”-0” Crushed Rock
1,232 CY 1-1/2”- 0” Crushed Maintenance Rock
1,245 CY 6” Jaw Run Base Rock Maintenance Rock

All rock required for project work shall be obtained from a commercial source.

Sec. 43. Wood Products Reserved from Cutting

RESERVED

- a. All timber in the Reserve and Clump Areas shown on Exhibit A and all trees that are painted orange, and/or posted, which mark the boundaries of the Reserve Area.
- b. All trees marked with orange paint above and below stump height within the boundaries of the Cutting Areas shown on Exhibit A. Trees marked as above, and over forty (40) inches diameter at breast height (DBH), may not be cut under Section 44.k. unless specifically approved in advance and in writing by the Contracting Officer and may be required to be retained on site.
- c. All conifer trees less than seven (7) inches DBH, all Pacific madrone, Pacific dogwood, Pacific yew, Oregon ash, and Oregon white oak in the Sale Areas shown on Exhibit A which do not present a safety hazard as determined by the Authorized Officer. If any are felled, they shall be retained on site.
- d. Existing down logs and snags in the Contract Area shown on Exhibit A, which do not present a safety hazard. All down logs and felled snags shall be retained on site.
- e. Trees felled within road rights-of-way, which are marked with yellow paint above and below stump height shall remain on site and be placed outside of the road prism as directed by the Authorized Officer.

Sec. 44. Special Provisions

LOGGING

- a. Before beginning operations on the Contract Area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. This written notification must be received by the Authorized Officer no less than seven (7) days prior to the date the Purchaser plans to begin or resume operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of seven (7) or more days.
- b. Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer must be held before the logging plan will be approved. All logging shall be done in accordance with the approved logging plan. The Purchaser shall provide a minimum of seven (7) days' notice when requesting the scheduling of a pre-work conference.
- c. Excessive damage to reserve timber, as determined by the Authorized Officer, will result in suspension of yarding and felling operations until corrective measures to prevent further damages have been approved by the Authorized Officer.

d. No falling, yarding, or loading is permitted in or through the Reserve Areas, shown on Exhibit A, unless otherwise approved by the Authorized Officer.

e. Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed by the Authorized Officer.

f. The Purchaser shall provide flaggers to control traffic on Pumpkin Ridge Rd whenever hazardous conditions are present from operations in accordance with Sec. 29. The Purchaser shall not block or close this road without concurrence from Washington County and the Authorized Officer.

g. At all landings, all non-merchantable logs more than eight (8) inches in diameter at the large end and exceeding eight (8) feet in length shall be scattered or decked at a location designated by the Authorized Officer.

h. In skyline harvest areas all yarding shall be done with a skyline or similar cable system equipped with a carriage capable of transporting the leading end of the logs clear of the ground. Full suspension is required within fifty (50) feet of streams. The rigging of tail or lift trees, intermediate supports and use of tail holds outside the Cutting Areas shall be required where necessary to meet this requirement. Space designated skyline corridors at a minimum of one hundred fifty (150) feet apart unless otherwise agreed to in writing by the Authorized Officer.

i. Ground-based operations are limited to slopes of thirty-five (35) percent or less. The Authorized Officer may approve the use of specialized, ground-based, mechanized equipment (machines specifically designed to operate on slopes greater than thirty-five (35) percent) except within two hundred ten (210) feet of streams. All skidding shall be done by equipment operated entirely on skid trails that have been approved by the Authorized Officer and use existing skid trails where available. Where ground-based operations are approved by the Authorized Officer, skid trails shall not exceed fifteen (15) percent of the total ground-based yarding area. Excavation on designated skid trails shall be limited to a maximum cut of one (1) foot unless otherwise approved by the Authorized Officer. The Purchaser shall directionally fall trees into the lead with the skidding direction and winch or carry the logs to the skid trails. Temporary logging roads, skid trails, and harvester/forwarder trails shall be water barred and blocked as directed by the Authorized Officer, concurrently during logging operations. Temporary logging roads, skid trails, and harvester/ forwarder trails will be de-compacted/tilled and covered with slash concurrently during logging as directed by the Authorized Officer.

j. No mechanized falling or ground-based equipment operation within harvest units shown on Exhibit A when the following conditions are present, as determined by the Authorized Officer:

1. Periods of abnormally wet weather, typically defined as consecutive days of precipitation or intensive precipitation in a single day at the sale area.

2. Harvest unit soils are of a condition where ground-based equipment causes rutting or trenching to a depth of twelve (12) inches or more, outside of approved skid trails.

k. Before cutting and removing any trees necessary to facilitate logging in the Cutting Areas shown on Exhibit A, the Purchaser shall identify the location of skid trails, cable yarding roads, and tail hold, tieback, guy line, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. Certain trees over (40) inches DBH may only be approved for cutting when there is no economically viable or practically feasible alternative, and if approved may be required to remain on site. In addition, before proceeding the following conditions must be met:

1. All skid roads and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees. The width of each skid road and/or cable yarding road shall be limited to twelve (12) feet unless otherwise approved by the Authorized Officer.

2. The Purchaser may immediately cut and remove additional timber to clear skid trails and cable yarding roads; and provide tail hold, tieback, guy line, lift and intermediate support trees when the trees have been marked with blue or green paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. When trees are marked with yellow paint above and below stump height, they may be cut but must remain on site. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Sec. 3(b) of the contract or sufficient bonding has been provided in accordance with Sec. 3(d) of the contract.

3. The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9. of the contract, or the Authorized Officer determines that the tree species are not listed in Exhibit B of this contract and otherwise reserved in Sec. 43. of the contract or any tree that exceeds forty (40) inches DBH shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Sec. 8. of the contract.

4. This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Sec. 10. of the contract constitutes a violation of the contract and under Sec. 13. of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.

5. If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8. or Sec. 9. of the contract as determined by

the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period deemed necessary and appropriate for the Government to safely measure and mark additional timber.

SEASONAL RESTRICTIONS

l. No road renovation (except roadside brushing, which is permitted year-round), road construction, road improvement, or road decommissioning, shown on Exhibit C, shall be conducted during the wet season (generally between October 16 of one calendar year to May 14 of the following calendar year), and during other periods of wet soil conditions, as determined by the Authorized Officer.

m. No log hauling, water hauling, or rock hauling on 3N-3-22.2, 3N-3-23.6, 3N-3-23.7, and 3N-3-23.8 roads during the wet season or during other periods of wet soil conditions as determined by Authorized Officer. Hauling may be allowed if the Purchaser, at their expense, elects to complete road work necessary to allow for wet season hauling, as determined by the Authorized Officer. Necessary road work will be determined on a road-by-road basis and may include, but is not limited to, rock surfacing, improving drainage features, and more frequent road maintenance.

n. No road maintenance, as shown on Exhibit E, and described in Exhibit D, shall be conducted when activities are likely to adversely affect resources as determined by the Authorized Officer.

o. No work in live streams shall be conducted between October 1 of one calendar year and July 14 of the following calendar year, both days inclusive, unless BLM receives a waiver from the Oregon Department of Fish and Wildlife and is approved by the Authorized Officer.

ROAD CONSTRUCTION, RENOVATION, IMPROVEMENT, MAINTENANCE AND USE

p. The Purchaser shall haul only on the designated haul route, shown in the tables below and in Exhibit E, unless an alternative route is approved by the Authorized Officer. The designated haul route for all units is out Pumpkin Ridge Road to the South toward North Plains.

q. The Purchaser shall construct natural surfaced roads: 3N-3-22.2, 3N-3-23.6, 3N-3-23.7, and 3N-3-23.8. The Purchaser shall construct rocked surfaced roads: 2N-3-1.0 (Sta. 5+34 – 17+10), N-3-1.3, 2N-3-1.4, 2N-3-2.1, 2N-3-2.2, 2N-3-7.0, 2N-3-7.1, 2N-3-12.0, and 3N-3-34.0 (Sta. 152+10 – 182+91). The Purchaser shall renovate rocked surfaced roads: 3N-3-34.0 (Sta. 0+00 – 12+83). The Purchaser shall improve rocked surfaced roads: 2N-3-1.0 (Sta. 0+00 – 5+34), 2N-3-1.1, 2N-3-1.2, 2N-3-2.0, 3N-3-34.0 (Sta. 12+83 – 152+10), 3N-3-35.0, and 3N-3-35.1. Construction, renovation, and improvement shall be done in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.

r. Any required construction, renovation, and improvement shall be completed and accepted prior to the removal of any timber, except right-of-way timber, over the road.

s. Any required construction, renovation, and improvement shall be completed and accepted prior to rock haul outside of the dry season (generally May 15 – October 15).

t. The Purchaser shall decommission 3N-3-22.2, 3N-3-23.6, 3N-3-23.7, and 3N-3-23.8, as shown on Exhibit C, by installing non-drivable waterbars, spreading grass seed, and blocking. Barriers shall be constructed, and clearing debris shall be placed on and around the barriers to prevent further use of the road by vehicles as shown on Exhibit C. Decommissioning and stabilization shall be completed within thirty (30) days of completion of yarding and hauling operations on that road.

u. The Purchaser is authorized to use the roads listed below and shown on Exhibit E which are under the jurisdiction of the Bureau of Land Management for the removal of Government timber sold under the terms of this contract and/or the hauling of rock and water as required in Exhibit C, Exhibit D, and Exhibit E provided the Purchaser complies with the condition set forth in Sec. 44(v).

Road No. and Segment	Length Used	Road Control	Road Surface Type	Maintenance Responsibility
2N-3-1.0	1,710'	BLM	Rocked	Purchaser
2N-3-1.1	486'	BLM	Rocked	Purchaser
2N-3-1.2	486'	BLM	Rocked	Purchaser
2N-3-1.3	277'	BLM	Rocked	Purchaser
2N-3-1.4	125'	BLM	Rocked	Purchaser
2N-3-2.1	499'	BLM	Rocked	Purchaser
2N-3-2.2	2,205'	BLM	Rocked	Purchaser
2N-3-7.0	971'	BLM	Rocked	Purchaser
2N-3-7.1	204'	BLM	Rocked	Purchaser
3N-3-22.2	1,103'	BLM	Natural	Purchaser
3N-3-23.6	616'	BLM	Natural	Purchaser
3N-3-23.7	488'	BLM	Natural	Purchaser
3N-3-23.8	478'	BLM	Natural	Purchaser
3N-3-34.0 (A1-E3,H1-H2)	14,425'	BLM	Rocked	Purchaser
3N-3-35.0	676'	BLM	Rocked	Purchaser
3N-3-35.1	1,998'	BLM	Rocked	Purchaser

v. The Purchaser shall perform any road repair and maintenance work on roads used and designated above, under the terms of Exhibit D, "Road Maintenance Specifications" of this contract which is attached hereto and made a part hereof. Purchaser shall spread one thousand two hundred thirty-two **1,232** cubic yards of crushed rock on 3N-3-34.0 (Seg. A1-E3) and six hundred thirty **630** cubic yards of jaw run as directed by the Authorized Officer and as part of maintenance requirements. Purchaser shall also pay a rockwear fee of thirty-four thousand six hundred fifty-nine and 45/100 (\$34,659.45) dollars to the Government. Additional fees for rockwear will be calculated at the current rate for additional timber volume for BLM controlled roads and be charged to the Purchaser and be paid prior to contract termination. Final maintenance shall be completed no later than one (1) year after contract expiration unless otherwise approved by the Authorized Officer.

w. In the use of the roads listed below and shown on Exhibit, E, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement S-905 (OR045624) between the United States of America and Stimson Lumber Company. The Purchaser will be required to enter into a license agreement with Stimson Lumber Company prior to commencement of operations. The Purchaser shall furnish to the Authorized Officer a copy of the required executed license agreement. The license agreement conditions include: 1) Purchaser pay a total fee of twenty-five thousand seven hundred five and 64/100 (\$25,705.64) dollars for removal of merchantable timber. 2) The Purchaser shall perform any road repair and maintenance work on Stimson Lumber Company controlled roads listed below under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made a part hereof. 3) Default by the Purchaser of said Right-of-Way and Road Use Agreement or any license agreement executed pursuant thereto, shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision. The Purchaser will be required to carry liability insurance with the limits of \$1,000,000/\$1,000,000/\$1,000,000 and a performance bond of \$1,000.00.

Road No. and Segment	Length Used	Road Control	Road Surface Type	Maintenance Responsibility
3N-3-34.0 (F1-F3)	2,431	Stimson Lumber Company	Rocked	Purchaser
2N-3-2.0	524'	Stimson Lumber Company	Rocked	Purchaser

x. In the use of the roads listed below and shown on Exhibit, E, the Purchaser shall comply with the conditions of the Access Road Easement RE-S 1297(OROR106274813), which is over land currently owned by Roberta R. Strom Living Trust. The road easement conditions include: 1) Purchaser pay a total fee of one thousand three hundred forty-one and 05/100 (\$1,341.05) dollars for removal of merchantable timber. 2) The Purchaser will be required to carry liability insurance with the limits of \$1,000,000/\$1,000,000/\$1,000,000 and provide a surety bond (or cash bond) in the amount of \$1,000.00.

Road No. and Segment	Length Used	Road Control	Road Surface Type	Maintenance Responsibility
2N-3-12.0	1,590'	Roberta R. Strom Living Trust	Rocked	Purchaser
3N-3-34.0 G1-G3	1,435'	Roberta R. Strom Living Trust	Rocked	Purchaser

y. The Purchaser agrees that if they request to use any other private road, subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, and is approved by the Authorized Officer, Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's shares of the capital investment of any such road.

z. With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of roads included in Exhibit E; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered with other users of these roads.

aa. The Purchaser shall be responsible for repair of any damage to roads or structures caused using overweight or over-dimension vehicles or equipment: 1) without written approval; 2) in violation of the conditions of a written approval; or 3) in a negligent manner. The amount of actual damage shall be determined by the Authorized Officer following a technical inspection and evaluation.

bb. The Purchaser shall perform any road repair and maintenance work on roads used (and designated as Purchaser Maintenance), under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made a part hereof. Purchaser shall spread one hundred fifteen **115** cubic yards of jaw run rock on non-BLM roads used for this timber sale, as directed by the Authorized Officer as part of maintenance requirements.

cc. Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures, or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices. No loading or yarding from asphalt surfaces is permitted.

ENVIRONMENTAL PROTECTION

dd. To prevent the spread of noxious weeds, the Purchaser shall clean all road construction equipment (except dump trucks) and clean all ground-based logging equipment that will be used off existing roads, as well as loaders and mechanically propelled brush cutters, prior to each entry onto the BLM Land shown on Exhibit A, as directed by the Authorized Officer. Cleaning shall be defined as removal of all dirt, grease, plant parts and material that may carry invasive and/or noxious weed parts or seeds.

FIRE PREVENTION

ee. Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power-driven equipment in construction or logging operations under this contract during the fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer. Purchaser shall take such measures for prevention and suppression of fire on the contract area and other adjacent Government lands used or traversed by Purchaser in connection with operations as are required by applicable laws and regulations. However, when in the opinion of the Authorized Officer, weather and other conditions affecting fire incidence and control make special precautions necessary to protect the contract area and said Government lands, Purchaser shall take such additional or other fire prevention and control measures as may be required by the Authorized Officer. The Purchaser shall comply with Oregon Department of Forestry Industrial Fire Precaution Level (IFPL)

I Fire Season requirements. At IFPL II and III, additional fire prevention and control provisions may be added as determined by the Authorized Officer and specified in written instructions to the Purchaser to mitigate dry fuel and weather conditions.

LOGGING RESIDUE REDUCTION

ff. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchasers satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the States willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measure(s) required by this contract: Perform logging residue reduction and site preparation work on approximately two hundred eighteen (218) acres of harvest area located within harvest units. The required work shall consist of any treatment or combination of treatments, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer. Prior to commencement of any operation under this Section of the contract, a slash disposal and pre-work conference between the purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. The number of acres of each treatment shall be determined by the Authorized Officer. All slash disposal shall be done in accordance with the plans developed at this pre-work conference. Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of Purchaser's operations under the terms of this contract.

1. Excavator pile and burn up to one hundred ninety-eight (198) acres of slash within ground-based portion and along roads as directed by the Authorized Officer. Slash shall be piled by an excavator equipped with a hydraulic thumb. Finished piles shall be tight and free of dirt.

a. Unmerchantable logs greater than six (6) inches in diameter on the small end shall be left in place or positioned so that they will not be burned.

b. Slash less than six (6) inches in diameter would be less than six (6) inches high or as directed by the Authorized Officer.

c. Machine piles shall be located as far as possible from retention trees, snags, or unit boundaries to minimize damage.

d. Machine piles shall be kept free of dirt and other non-wood debris and constructed as compactly as possible. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels.

e. A minimum ten (10) foot by ten (10) foot cover of four (4) mil (0.004) inch thick polyethylene cap shall be placed on top of each machine pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Plastic shall be held in place with woody debris or tied with rope or twine. The plastic must be secured so that it is held in place during strong wind conditions. The Purchaser is required to furnish the covering materials. Covering shall be completed as directed by the Authorized Officer.

f. Cutting Areas shall be piled during the same season that they are logged.

2. Slashing of approximately six (6) acres shall be completed as directed by the Authorized Officer.

a. All standing woody vegetation (brush), over one (1) foot in height shall be cut (slashed) and lopped into four (4) foot or smaller lengths in harvest units as directed by the Authorized Officer.

b. All woody vegetation, and whips shall be completely severed from the stump/ stem(s). Stump/stem height shall not exceed six (6) inches measured on the uphill side.

c. All conifers, Pacific madrone, Pacific dogwood, Oregon ash, Oregon white oak, and Pacific yew trees shall be reserved and undamaged.

3. Pile and burn fourteen (14) acres landing slash within thirty (30) feet of the edge of each landing, all tops, broken pieces, limbs and debris more than one (1) inch in diameter at the large end and longer than three (3) feet in length shall be piled within fifteen (15) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located adjacent to roads at least twenty (20) feet from any Reserve Tree and/or as directed by the Authorized Officer. Upon completion of landing piling, the Purchaser shall prepare the landing piles for burning by securely covering each landing pile with four (4) mil (0.004) inch thick polyethylene plastic film at least ten (10) feet wide. Landing piles shall be covered sufficiently to allow for ignition in wet conditions as approved by the Authorized Officer. The plastic shall be oriented southwest to northeast. Pieces of burnable material shall be placed on top of the plastic to secure it from moving and to prevent it from blowing off during strong wind episodes. The Purchaser is required to furnish the covering materials. The timing of this covering work shall be in accordance with instructions from the Authorized Officer. No landing debris shall be dozed off the landing and covered with dirt. Debris which has been buried and is determined to be the source of holdover fire shall be excavated by the Purchaser, at the Purchaser's expense, with a tractor and/or hydraulic excavator as directed by the Authorized Officer. If the structure of the landing piles will not permit adequate consumption of piled debris by burning, the Purchaser shall re-pile them at the direction of the Authorized Officer.

gg. Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop-up assistance as required herein, and measures required in Sec. 44(ff). The Purchaser shall, under supervision of the Authorized Officer or designated representative, assist in preparing units for burning, burning, mop-up, and patrol by furnishing, at the Purchaser's own expense, the services of personnel and equipment on each unit as shown below:

1. For Igniting, Burning, Mop-up of Piles on Units:

a) One (1) work leader(s) Firefighter Type 1 (FFT1) qualified according to

National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1) to supervise crew and equipment operations, and to serve as Purchaser's representative.

b) Ten-person crew Firefighter Type 2 (FFT2) qualified according to National Wildfire Coordination Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1, with sufficient fuel for burning, ten (10) drip torches, one (1) power saw, and one (1) backpack pump, one (1) tool for each crew member.

c) The crew shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crewmembers.

d) All ignition and mop-up personnel will be directly supervised by a BLM representative.

Aircraft and pilots used for Logging Residue Reduction or the suppression of escaped fires from Logging Residue Reduction operations, shall be acquired from a list of aircraft and pilots approved (i.e., carded for these specific activities) by the Office of Aircraft Services or the U.S. Forest Service. This list is available from BLM District Offices upon request.

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. In addition, all listed personnel shall be qualified according to the National Wildfire Coordinating Group (NWCG) Wildland Fire Qualification System Guide, PMS-310-1 and provide documentation of these qualifications. On the day of ignition all listed personnel shall be fluent in speaking and understanding English, clothing shall consist of long pants and long-sleeved shirts and be of approved aramid fabric (Nomex™ or equivalent), as well as being free of diesel fuel oil. All personnel shall wear lug sole boots with minimum eight (8) inch tall uppers that provide ankle support, approved hardhats and leather gloves. Personnel who do not meet these requirements or do not have proper clothing and personal protective equipment (PPE) will not be allowed to participate. All listed tools and equipment shall be in good usable condition. All power-driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power-driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop up on each cutting unit shown on Exhibit A for seventy-two (72) hours, as directed by the Authorized Officer within a five (5) day period commencing at 8:00 a.m. the day following the completion of ignition in that unit, or until released from such service by the Government, whichever occurs first.

In event of a fire escapement, the Purchaser's personnel and equipment shall, under supervision of the Authorized Officer, take action to control and mop up the escaped fire until released from such service by the Government. If it becomes necessary to use furnished personnel and equipment for the suppression of a fire which escapes from the prescribed fire area for a period beyond the remainder of the day in which the fire escapes, then the Government shall, at its option: (1) reimburse the Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for the Western Area and at equipment rates shown in the current Oregon-

Washington Interagency Fire Fighting Equipment Rental Rates schedule until the Purchaser is released from such service by the Government; or (2) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

In situations where an escaped fire is controlled and contained by an adequate fire break (i.e., trail, road, stream, rock formation, etc.), the Government may permit the Purchaser to remove personnel for that day; provided that all mop up work on the escaped fire is included with mop up work on the prescribed fire area. In such an event, the Purchaser must sign a statement of agreement to complete mop up work on all escaped fire areas concurrently with mop up work on the prescribed fire area.

In case of injury to personnel or damage to equipment furnished as required by this subsection, liability shall be borne by the Purchaser, unless such injury or damage is caused by Government negligence.

Time is of the essence in complying with this provision. In the event the Purchaser fails to provide the personnel and equipment required herein, the Purchaser shall be responsible for all additional cost incurred by the Government in disposing of slash including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment and appropriate additional overhead expenses. If the Purchaser's failure results in a deferral of burning and new conditions necessitate additional personnel and equipment to accomplish the planned burn, the Purchaser also shall be responsible for such additional costs.

CREATION OF COARSE WOODY DEBRIS

hh. In the Coarse Woody Debris Creation Units shown on Exhibit F, the Purchaser shall select and top, high-girdle, basal-girdle, or fell four hundred and forty-six (446) live trees in accordance with Exhibit F. No adjustments of volume or value shall be made to meet these requirements. Coarse wood creation will be completed within one year of completion of yarding the timber in the sale.

LOG EXPORT RESTRICTION

ii. Unless otherwise authorized in writing by the Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over ten (10) inches, prior to the removal of timber from the contract area. All loads of eleven (11) logs or more will have a minimum of ten (10) logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of ten (10) logs or less. One (1) end of all branded logs to be processed domestically will be marked with a three (3) square inch spot of highway yellow paint. The Purchaser will stop trucks for accountability monitoring at mutually agreed upon locations when notified by the Authorized Officer.

If multiple trailers (mule trains) are used, each bunked load shall be considered an individual load, and these guidelines will apply to each bunked load. If a flatbed stake trailer is used, each bundle will be treated as a separate load.

At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. Any increased costs for log branding and painting shall be the responsibility of the Purchaser.

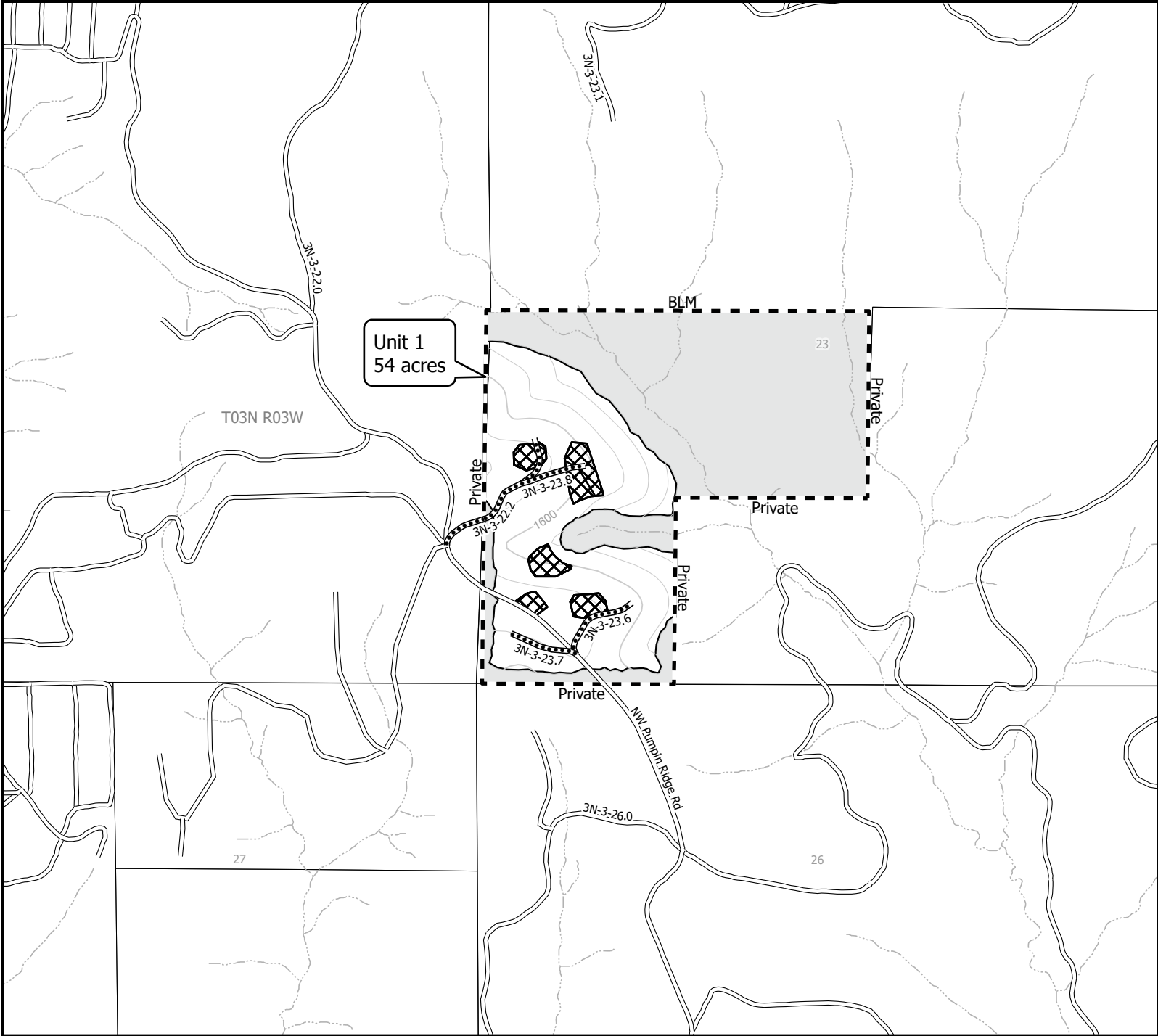


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
TIMBER SALE CONTRACT MAP

Contract No. ORN04-TS-2026.0402
Pumpkin Pi Timber Sale
Exhibit A
Page 1 of 4

6/15/2026

T. 3N. R. 3W, Section 23 W. M.



Partial Cut Area	63 acres
Regeneration Cut Area	332 acres
Right-of-Way	7 acres
Reserve Area	320 acres
Patch Cut Area	6 acres
Clump Area	1 acre
Total Contract Area	721 acres

0 500 1,000 2,000 3,000 Feet

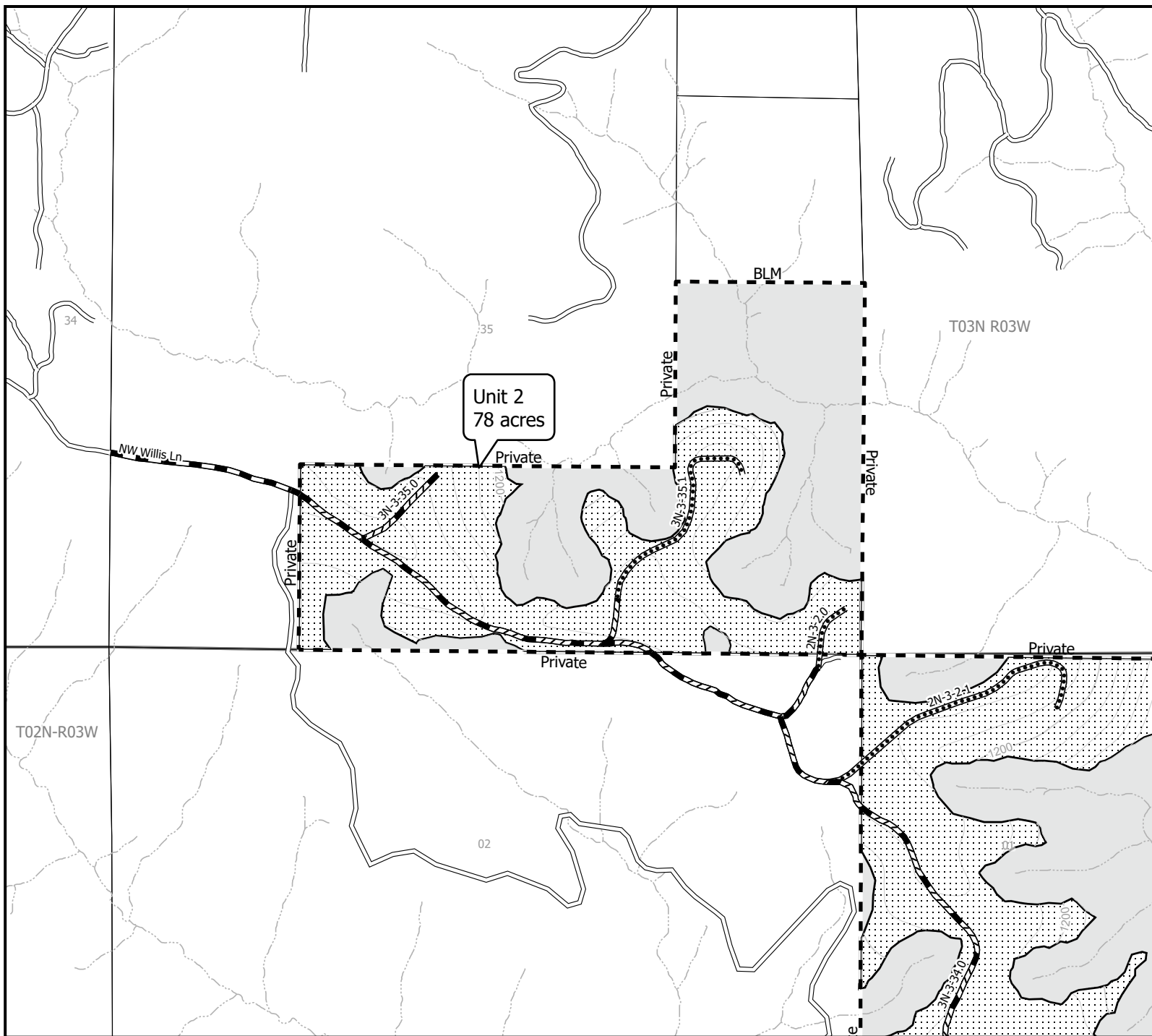
- | | | | |
|--|------------------|--|------------------|
| | Contract Area | | Road - Construct |
| | Reserve Area | | Existing Road |
| | Partial Cut Area | | Streams |
| | Patch Cut Area | | |

Contour Interval: 40 feet

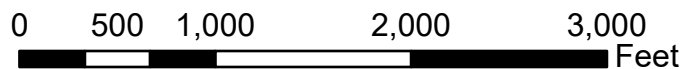
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.
Prepared by: Ryan Chen

6/15/2026

T. 3N. R. 3W, Section 35 W. M.; T. 2N. R. 3W, Section 01 W. M.



Partial Cut Area	63 acres
Regeneration Cut Area	332 acres
Right-of-Way	7 acres
Reserve Area	320 acres
Patch Cut Area	6 acres
Clump Area	1 acre
Total Contract Area	721 acres



- | | | | |
|---|----------------|---|------------------|
|  | Contract Area |  | Road - Construct |
|  | Reserve Area |  | Road - Improve |
|  | Regen Cut Area |  | Road - Renovate |
| | |  | Existing Road |
| | |  | Streams |

Contour Interval: 40 feet

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.
Prepared by: Ryan Chen

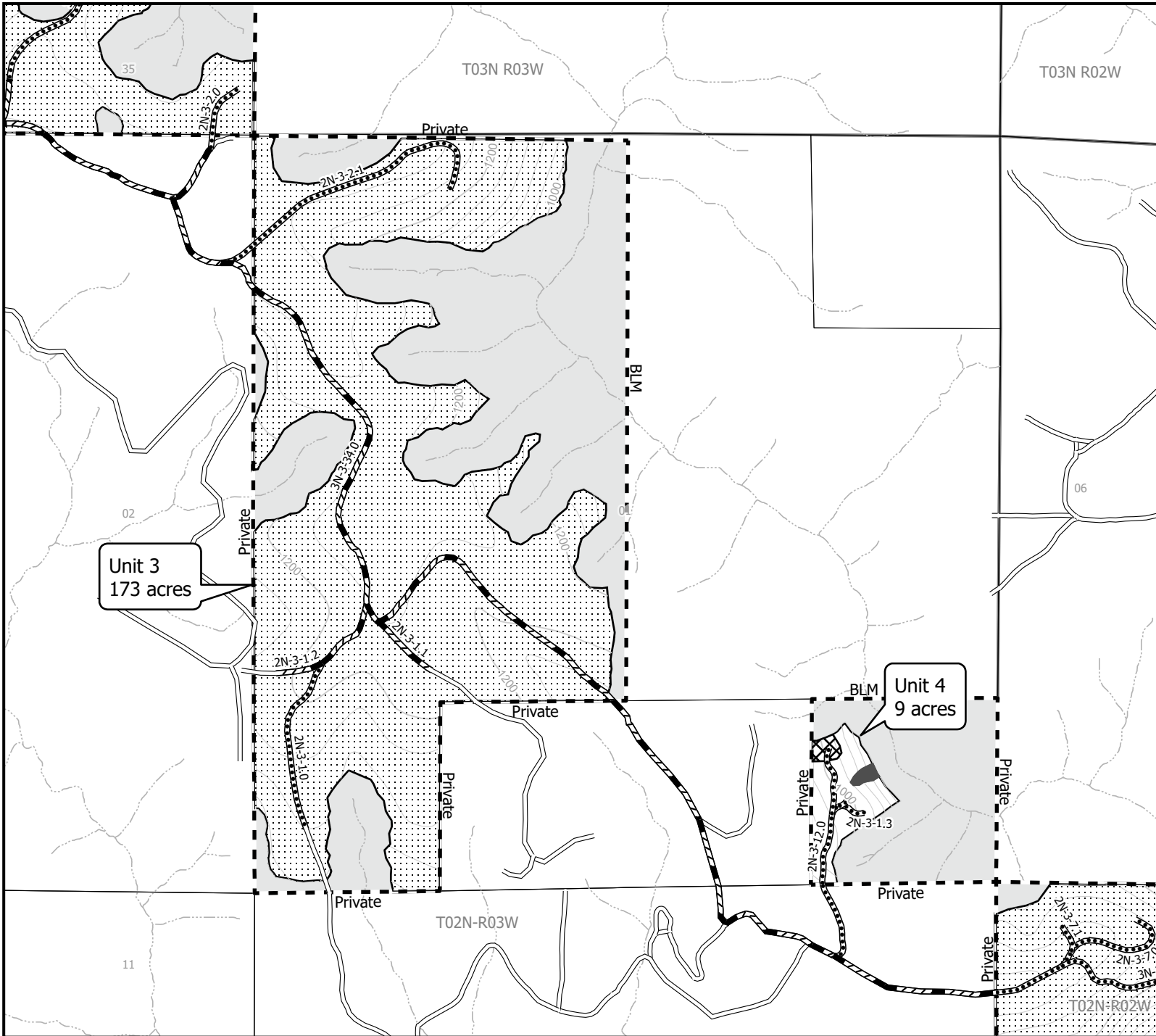


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
TIMBER SALE CONTRACT MAP

Contract No. ORN04-TS-2026.0402
Pumpkin Pi Timber Sale
Exhibit A
Page 3 of 4

6/15/2026

T. 3N. R. 3W, Section 35 W. M.; T. 2N. R. 3W, Section 01 W. M.; T. 2N. R. 2W, Section 07 W. M.



Partial Cut Area	63 acres
Regeneration Cut Area	332 acres
Right-of-Way	7 acres
Reserve Area	320 acres
Patch Cut Area	6 acres
Clump Area	1 acre
Total Contract Area	721 acres

0 500 1,000 2,000 3,000 Feet

- | | |
|------------------|------------------|
| Contract Area | Road - Construct |
| Reserve Area | Road - Improve |
| Partial Cut Area | Existing Road |
| Regen Cut Area | Streams |
| Patch Cut Area | |
| Clump Area | |

Contour Interval: 40 feet

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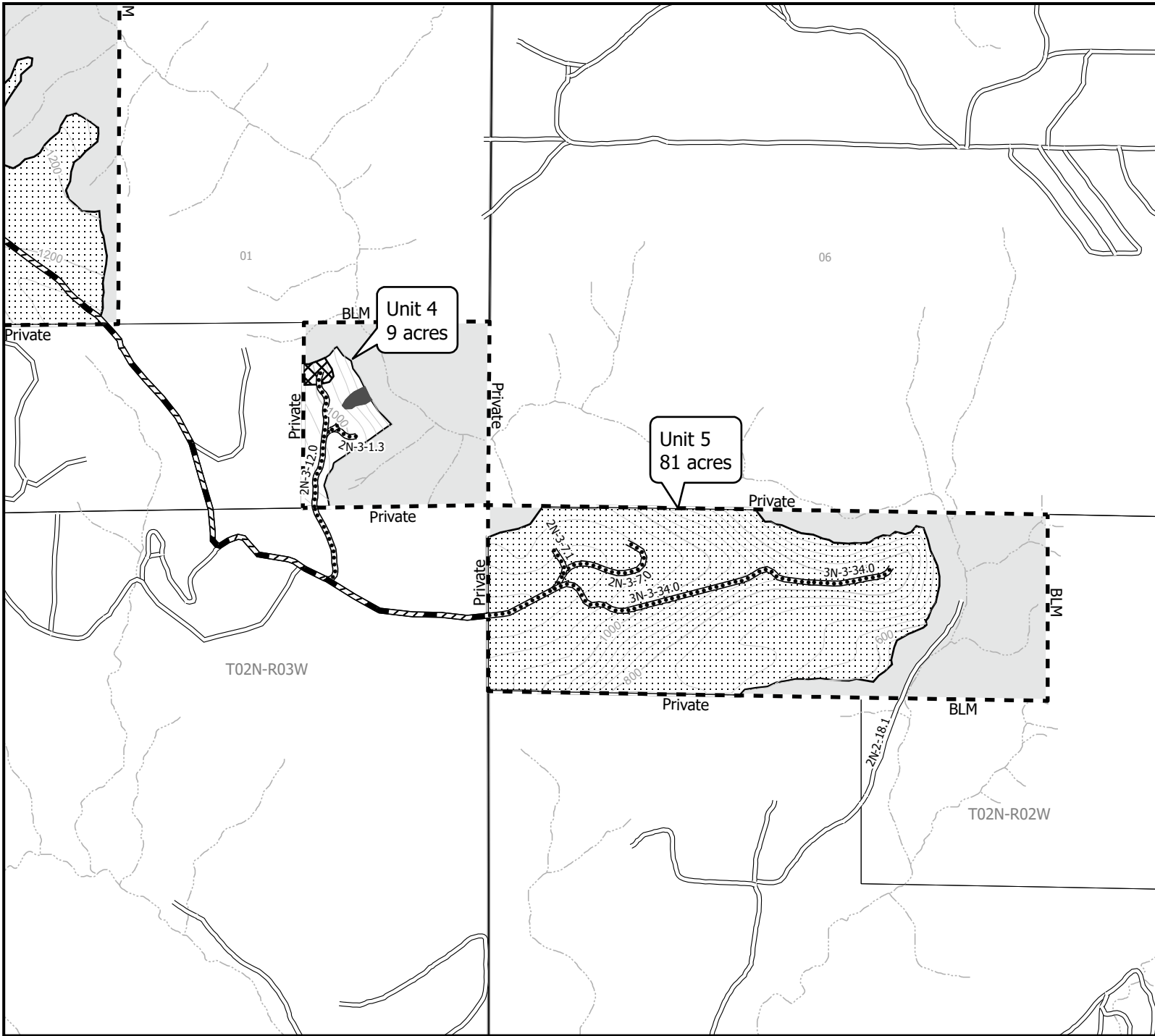


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
TIMBER SALE CONTRACT MAP

Contract No. ORN04-TS-2026.0402
Pumpkin Pi Timber Sale
Exhibit A
Page 4 of 4

6/15/2026

T. 2N. R. 3W, Section 01 W. M.; T. 2N. R. 2W, Section 07 W. M.



Partial Cut Area	63 acres
Regeneration Cut Area	332 acres
Right-of-Way	7 acres
Reserve Area	320 acres
Patch Cut Area	6 acres
Clump Area	1 acre
Total Contract Area	721 acres

0 500 1,000 2,000 3,000 Feet

- | | |
|------------------|------------------|
| Contract Area | Road - Construct |
| Reserve Area | Road - Improve |
| Partial Cut Area | Existing Road |
| Regen Cut Area | Streams |
| Patch Cut Area | |
| Clump Area | |

Contour Interval: 40 feet

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Prepared by: Ryan Chen

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-003

Contract No.

ORN04-TS-2026.0402

Pumpkin Pi

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A**.

SPECIES	ESTIMATED VOLUME OR QUANTITY (Units Specified)		PRICE PER UNIT	ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas Fir	21,214.0	MBF	\$377.40	\$8,006,163.60
Bigleaf Maple	1,225.0	MBF	\$24.70	\$30,257.50
Red Alder	816.0	MBF	\$210.70	\$171,931.20
Western Redcedar	205.0	MBF	\$527.70	\$108,178.50
Western Hemlock	17.0	MBF	\$122.30	\$2,079.10
Mixed Species	2,500.0	GTON	\$0.10	\$250.00
TOTALS	23,477.0 MBF, 2,500.0 GTON			\$8,318,859.90

The apportionment of the total purchase price is as follows:

Unit 1 - Unit 1

Bigleaf Maple	13.0 MBF	X	\$24.70	=	\$321.10
Mixed Species	85.0 GTON	X	\$0.10	=	\$8.50
Red Alder	47.0 MBF	X	\$210.70	=	\$9,902.90
Douglas Fir	1,533.0 MBF	X	\$377.40	=	\$578,554.20
Total	1593.0 Mbf, 85.0 Gton		\$588,786.70 ÷ 54.0 acres = \$10,903.46/Acre		

Unit 2 - Unit 2

Bigleaf Maple	257.0 MBF	X	\$24.70	=	\$6,347.90
Mixed Species	1,265.0 GTON	X	\$0.10	=	\$126.50
Red Alder	418.0 MBF	X	\$210.70	=	\$88,072.60
Douglas Fir	3,174.0 MBF	X	\$377.40	=	\$1,197,867.60
Western Redcedar	57.0 MBF	X	\$527.70	=	\$30,078.90
Total	3906.0 Mbf, 1265.0 Gton		\$1,322,493.50 ÷ 78.0 acres = \$16,955.04/Acre		

Unit 3 - Unit 3

Bigleaf Maple	632.0 MBF	X	\$24.70	=	\$15,610.40
Western Hemlock	12.0 MBF	X	\$122.30	=	\$1,467.60
Mixed Species	755.0 GTON	X	\$0.10	=	\$75.50
Red Alder	228.0 MBF	X	\$210.70	=	\$48,039.60
Douglas Fir	10,791.0 MBF	X	\$377.40	=	\$4,072,523.40
Western Redcedar	98.0 MBF	X	\$527.70	=	\$51,714.60
Total	11761.0 Mbf, 755.0 Gton		\$4,189,431.10 ÷ 173.0 acres = \$24,216.36/Acre		

Unit 4 - Unit 4

Bigleaf Maple	2.0 MBF	X	\$24.70	=	\$49.40
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-003

Contract No.

ORN04-TS-2026.0402

Pumpkin Pi

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A**.

Unit 4 - Unit 4

Mixed Species	10.0 GTON	X	\$0.10	=	\$1.00
Red Alder	7.0 MBF	X	\$210.70	=	\$1,474.90
Douglas Fir	227.0 MBF	X	\$377.40	=	\$85,669.80
Total	236.0 Mbf, 10.0 Gton				\$87,195.10 ÷ 9.0 acres = \$9,688.34/Acre

Unit 5 - Unit 5

Bigleaf Maple	295.0 MBF	X	\$24.70	=	\$7,286.50
Western Hemlock	5.0 MBF	X	\$122.30	=	\$611.50
Mixed Species	355.0 GTON	X	\$0.10	=	\$35.50
Red Alder	107.0 MBF	X	\$210.70	=	\$22,544.90
Douglas Fir	5,052.0 MBF	X	\$377.40	=	\$1,906,624.80
Western Redcedar	46.0 MBF	X	\$527.70	=	\$24,274.20
Total	5505.0 Mbf, 355.0 Gton				\$1,961,377.40 ÷ 81.0 acres = \$24,214.54/Acre

Unit ROW - ROW

Bigleaf Maple	26.0 MBF	X	\$24.70	=	\$642.20
Mixed Species	30.0 GTON	X	\$0.10	=	\$3.00
Red Alder	9.0 MBF	X	\$210.70	=	\$1,896.30
Douglas Fir	437.0 MBF	X	\$377.40	=	\$164,923.80
Western Redcedar	4.0 MBF	X	\$527.70	=	\$2,110.80
Total	476.0 Mbf, 30.0 Gton				\$169,576.10 ÷ 7.0 acres = \$24,225.16/Acre

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600	16-17	Watering
1000	17-20	Aggregate Base Course - Crushed Rock
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1700	23-24	Erosion Control
1800	24-26	Soil Stabilization
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	27	Earth Barricade, Waterdip, Drivable and Non-Drivable Waterbar Details
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**U.S. DEPARTMENT OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT – OREGON
TIMBER SALE CONTRACT
ROAD SPECIFICATIONS**

Road Number	New Construction (Stations and Miles)	Renovation (Stations and Miles)	Improvement (Stations and Miles)
2N-3-1.0	Sta. 11+76 = 0.223 Mi.		Sta. 5+34 = 0.101 Mi.
2N-3-1.1			Sta. 4+86 = 0.092 Mi.
2N-3-1.2			Sta. 4+86 = 0.092 Mi.
2N-3-1.3	Sta. 2+77 = 0.052 Mi.		
2N-3-1.4	Sta. 1+25 = 0.024 Mi.		
2N-3-2.0			Sta. 5+24 = 0.099 Mi.
2N-3-2.1	Sta. 4+99 = 0.095 Mi.		
2N-3-2.2	Sta. 22+05 = 0.418 Mi.		
2N-3-7.0	Sta. 9+71 = 0.184 Mi.		
2N-3-7.1	Sta. 2+04 = 0.039 Mi.		
2N-3-12.0	Sta. 15+90 = 0.301 Mi.		
3N-3-22.2	Sta. 11+03 = 0.209 Mi.		
3N-3-23.6	Sta. 6+16 = 0.117 Mi.		
3N-3-23.7	Sta. 4+88 = 0.092 Mi.		
3N-3-23.8	Sta. 4+78 = 0.091 Mi.		
3N-3-34.0	Sta. 30+81 = 0.584 Mi.	Sta. 12+83 = 0.243 Mi.	Sta. 139+27 = 2.638 Mi.
3N-3-35.0			Sta. 6+76 = 0.128 Mi.
3N-3-35.1	Sta. 16+34 = 0.309 Mi.		Sta. 3+64 = 0.069 Mi.

GENERAL – 100

101 - Pre-work Conference(s):

A pre-work conference will be held prior to the start of new construction, renovation, improvement, quarry development, and decommissioning operations. The Purchaser shall request the conference at least forty-eight (48) hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or their representatives, subcontractors or their representatives and the Authorized Officer and/or their representatives.

The purpose of the prework conference will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractors.

102 - Definitions:

AASHTO - American Association of State Highway and Transportation Officials. Current editions of tests and specifications.

ACI - American Concrete Institute

Apparent Opening Size (AOS) - Number of the U.S. Bureau of Standard sieve (or its opening size in millimeters or inches) having openings closest in size to the diameter of uniform particles which will allow five (5) percent by weight to pass through the geotextile material when shaken in a prescribed manner. This is also referred to as Equivalent Opening Size (EOS).

ASTM - American Society for Testing and Materials.

Base Course - Surfacing structure consisting of crushed gravel or stone, crushed sandstone, pit-run rock, bank or river-run gravels, etc., to provide support and, in the event no surface course is placed, the running surface for traffic load.

BLM - Bureau of Land Management

Borrow - Excavated material required for embankments and other portions of the work.

Burst Strength - The resistance of a geotextile material to rupture from pressure applied at right angles to the plane of the geotextile material under specified conditions, usually expressed as the amount of pressure causing failure. Rupture or burst results from tensile failure of the geotextile material.

Culvert - A pipe, pipe-arch, arch, or box structure constructed of metal, concrete, plastic or wood which provides an opening under the roadway primarily for the conveyance of liquids, pedestrians or livestock.

Curve Widening - Widening required on inside of curves to accommodate long log and equipment hauling trucks.

Embankment - A structure of soil, aggregate, or rock material placed on a prepared ground surface and constructed to subgrade.

End Haul - Excavated material moved, other than by dozer, to an embankment or waste area to prevent side casting material outside of the road prism.

Excess Excavation - Material from the roadway in excess of that needed for construction of the designed roadway (waste).

Grading - Leveling to grade, shaping and smoothing of a road subgrade; the shaping of roadside ditches as to grade and contour. In some instances, includes smoothing of the cut bank.

Overhaul - Distance excavated material is transported in excess of the distance included in the cost for excavation.

Landing - A cleared area that facilitates harvest operations and safely accommodates logging equipment, trucks, and felled timber.

Pioneer Road - Temporary construction access built along the route of the project.

Piping - The process by which soil particles are washed in or through pore spaces in drains and filters or poorly compacted fill/backfill material.

Plans - The approved drawings, or exact reproductions thereof which show the locations, character, dimensions, and details of the work to be done.

Purchaser - The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through their, or its agents, employees, or contractors.

Reasonably Close Conformity - Compliance with reasonable and customary manufacturing and construction tolerances where working tolerances are not specified.

Roadbed - The graded portion of the road within top and side slopes, prepared as a foundation for the pavement structure and shoulders.

Road Centerline - The longitudinal center of a roadbed.

Road Improvement - Work done to an existing road which improves it over its original design standard.

Road Renovation - Work done to an existing road which restores it to its original design.

Roadway - The portion of a road within limits of construction. Usually from the toe of the fill slope to a point where the cut slope intersects natural ground line. Synonym - road prism.

Scale - In quarrying, consists of the removal of loose or overhanging rock adhering to the solid face after a shot or a round of shots has been fired.

Scarification - The process of loosening or breaking up of the surface layer of soil or road, usually to a specified depth.

Shoulder - The portion of the roadbed contiguous with the traveled way designed for accommodation of stopped vehicles, safety, and lateral support of base and surface courses.

Slope ratio notation (horizontal: vertical) - Slope ratios for constructed cut and fill slopes are expressed as a ratio of horizontal units to vertical units.

Spalls - Flakes or chips of stone.

Specifications - A general term applied to all directions, provisions, and requirements pertaining to performance of the work.

Specific Gravity - The ratio of the density of a material to the density of water obtained by weighing known volumes of both items in air. A specific gravity less than one implies that the material will float.

Structures - Bridges, culverts, catch basins, retaining walls, underdrains, flumes, splash pads, downspouts, and other project features which may be involved in the work and not otherwise classified in these specifications.

Sub-base - Reinforcement of the subgrade with large particles of pit-run rock or crushed stone. Usually confined to roads having wet subgrades or subgrades with weak support characteristics.

Surface Course - Top layer of a road structure consisting of finely crushed gravels or asphalt designed to provide a smooth-running surface for traffic load.

Subgrade - The top surface of a roadbed upon which the traveled way and shoulders are constructed.

Timber - Standing trees, downed trees, or logs which can be measured in board feet.

Traveled Way - The portion of the roadbed used for the movement of vehicles, exclusive of shoulders.

Typical Cross Sections - Cross-sectional plane of a typical roadway; showing natural ground line and designed roadway in relation to cut and fill, through cut, and through fill.

Turnaround – Extra widening of the roadbed used for allowing commercial vehicles to turnaround.

Turnout - Extra widening of the roadbed at appropriate intervals on single-lane roads for passing purposes.

102a - Tests Used in These Specifications:

AASHTO T 11 Quantity of rock finer than No. 200 sieve.

<u>AASHTO T 27</u>	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
<u>AASHTO T 89</u>	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
<u>AASHTO T 90</u>	Plastic limits and plasticity index of soil. a. Plastic limit - lowest water content at which the soil remains plastic. b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
<u>AASHTO T 96</u>	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
<u>AASHTO T 99</u>	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4-inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4-inch sieve. 56 blows/layer & 3 layers.
<u>AASHTO T 119</u>	Slump of hydraulic cement concrete.
<u>AASHTO T 152</u>	Air content of freshly mixed concrete.
<u>AASHTO T 166</u>	Specific Gravity of compacted Bituminous Mixtures.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
<u>AASHTO T 180</u>	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.
<u>AASHTO T 191</u>	<u>Sand Cone.</u> Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
<u>AASHTO T 205</u>	<u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil.
<u>AASHTO T 209</u>	Maximum Specific Gravity of Bituminous Paving Mixtures.
<u>AASHTO T 210</u>	Durability of aggregates based on resistance to produce fines.
<u>AASHTO T 224</u>	Correction for coarse particles in the soil.
<u>AASHTO T 238</u>	Density of Soil and Soil-Aggregate in place by nuclear methods.

AASHTO T 248 Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.

ASTM D 4564 Determination of relative density of cohesion less soils.

DMSO (dimethyl sulfide) Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

103 - Compaction equipment shall meet the following requirements:

103b - Sheepsfoot/Tamping rollers. A tamping roller unit shall consist of two (2) watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of two and a half (2.5) miles per hour. The drums shall be no less than sixty (60) inches in diameter and no less than fifty-four (54) inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than seven (7) inches from the face of the drums.

The distance between circumferential rows of tamper feet shall be such that the diagonal distance from any foot to the nearest foot in each adjacent row shall be not more than twelve (12) inches. The cross-sectional area of the face of each tamper foot, measured perpendicular to the axis of the stud, shall be not less than 5-1/2 square inches nor more than eight (8) square inches.

The weight of the tamping-roller unit shall be such as to exert a minimum pressure of two hundred fifty (250) pounds per square inch on the ground area in contact with the tamping feet, and the roller shall be so designed that the weight may be increased to exert a pressure up to five hundred (500) pounds per square inch on the ground area in contact with the tamping feet.

The ground pressure shall be determined by dividing the total weight of the roller unit, not including the weight of the tractor, by the total cross-sectional area of the tamping feet in one (1) row of tamping feet parallel to the axis of the roller.

103f - Vibratory roller. The drum diameter shall be not less than forty-eight (48) inches, the drum width not less than fifty-eight (58) inches and have a turning radius of fifteen (15) feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be seven (7) tons at 1600 RPM. It shall be activated by a power unit of not less than twenty-five (25) horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.

103g - Vibratory compactor. Vibratory compactors shall consist of multiple or gang-type compacting units or pads with a minimum variable width of two (2) feet. It shall be self-contained and capable of compacting material as required.

103h - Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than fifty-six (56) inches, nor shall be more than sixty-six (66) inches and the drum width be eighty-four (84) inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be one (1) inch in height and spaced not more than eight and one half (8-1/2) inches apart.

103i - Other. Compaction equipment approved by the Authorized Officer.

CLEARING AND GRUBBING - 200

201 - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans and as marked on the ground.

201a - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications and as staked on the ground.

202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend ten (10) feet back of the top of the cut slope and five (5) feet out from the toe of the fill slope.

202b - Where clearing limits for channel changes and waste areas have not been staked or shown on the plans, the limits shall extend ten (10) feet back of the top of the cut slope and five (5) feet outside of the outside slope lines.

203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsections 202 and 202b, as shown on the plans, and as marked on the ground.

203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing, unless otherwise authorized. Felled snags shall be left as down woody debris outside of the clearing limits.

203c - Disposal of logs from private timber cleared within the limits established shall consist of decking at a location designated by the Authorized Officer.

204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the

clearing operation. Undisturbed stumps, roots and other solid objects which will be a minimum of four (4) feet below subgrades or slope surfaces or embankments are excluded.

204a - Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.

205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.

206a - Notwithstanding Subsections 204 and 205, clearing and grubbing debris resulting from landing construction, waste area construction, turnaround construction, or log fill replacement shall be placed at disposal sites and shall not be covered with excavated material. Location of disposal sites will be determined by the Authorized Officer.

210 - Disposal of clearing and grubbing debris, stumps and cull logs shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.

210a - Disposal of clearing and grubbing debris, stumps, and cull logs on non-government property shall be by scattering over non-government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer.

211 - For slopes greater than 35% or areas designated by the Authorized Officer, disposal of clearing and grubbing debris, stumps, and cull logs shall be by end hauling and piling in designated waste areas and in a manner acceptable to the Authorized Officer.

212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.

213 - No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

301 - This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable and slide materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

302 - Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work

necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground.

303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.

304 - Borrow shall consist of suitable material required for the construction of embankments or for other portions of the work; such material shall be obtained from sources selected by the Purchaser at his option and approved by the Authorized Officer.

305 - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground.

305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.

305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding eight (8) inches in depth.

305d - Where embankments are constructed predominantly of blasted rock material, depth of layers shall not exceed (4) feet. Rock fragments having dimensions greater than 4 feet will be permitted provided that they have no dimensions greater than (6) feet and that clearance between adjacent fragments is adequate for the placing and compacting of material in horizontal layers as specified, and that no part of the larger fragments comes within (4) feet of subgrade.

306 - Layers of embankment and selected borrow, as specified under Subsections 305a, 305b, and 317 shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103b, 103g, or 103i. Final Subgrades shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f or 103i and approved by the Authorized Officer.

306a - Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall have a minimum compaction of six (6) passes over each full-width layer, or fraction thereof.

308 - In the case of rock fills, placement of material in layers is not required and such material may be placed by end-dumping or other methods approved by the Authorized Officer provided that the rock be reasonably prevented from escaping beyond the embankment toe.

311 - In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.

313 - In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of six (6) inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

314 - When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of two (2) feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.

315 - Borrow material required for the construction of embankment or for other portions of the work shall be obtained from sources adjacent to the roadway.

316 - Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.

317 - Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics from sources shown on the plans.

320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.

321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.

321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.

- 322 - When so indicated on the plans, selected coarse rock encountered in the excavation shall be conserved for slope protection or special rock embankment purposes and placed in accordance with the requirements and details of Section 1400 of these specifications and as shown on the plans.
- 323 - In the construction of channel changes and stream-crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.
- 324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of a half (1/2) feet on the uphill side.
- 327 - The finished grading shall be approved by the Authorized Officer in segments or for the total project. The Purchaser shall give the Authorized Officer three (3) days' notice prior to final inspection of the grading operations.

PIPE CULVERTS - 400

- 401 - This work shall consist of installing pipe culverts (and furnishing 2 culverts described in the Construction Worklist), downspouts, and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer upon completion of the roadbed and upon installation of the appurtenance structures. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Additionally, pipe culverts, downspouts, and erosion control devices may be unnecessary at the option of the Authorized Officer, in which case the Authorized Officer may request the Purchaser to only furnish such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 403 - Grade culverts shall have a gradient from two (2) percent to four (4) percent greater than the adjacent road grade. Grade culverts shall be skewed down grade thirty (30) degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- 404 - Damage to the spelter, or burn back in excess of three-eighths (3/8) inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated steel pipe.
- 405a - Corrugated-(aluminized) steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274, or AASHTO M 289 as specified on the plans.
- 405e - Corrugated-polyethylene pipe for culverts 18-inch through 24-inch diameter shall meet the requirements of AASHTO M 294, Type S.

Corrugated-polyethylene pipe for culverts to be used for downspouts 18-inch through 24-inch diameter shall meet the requirements of AASHTO M 294, Type C.

Installation will be subject to the same specification as other pipe materials.

406 - Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.

406a - "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.

406e - Neoprene gaskets shall be used to join aluminum pipe culverts.

408 - Pipe culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.

409 - Structural-plate pipe culverts and pipe-arch culverts shall be installed in accordance with the plans and detailed erection instructions furnished by the manufacturer. One copy of the erection instructions shall be submitted to the Authorized Officer (3) days prior to erection.

410 - Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.

411 - Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram included in the plans and the Culvert Installation Detail Sheet.

412 - Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of twenty-four (24) inches below the invert grade for a width of at least one (1) pipe diameter or span on each side of the pipe and shall be backfilled with selected granular or fine readily compactable soil material or crushed rock material.

413 - All pipe culverts shall be bedded on a 1-1/2"-0" crushed rock material in accordance with Section 1200 gradation. Bedding shall have a depth of not less than six (6) inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.

414a - The invert grade of the bedding shall be cambered at the middle ordinate a minimum of 1 percent of the total length of the drainage structure. Camber shall be developed on a parabolic curve.

415 - Inspection of pipe culverts having a diameter of (30) inches and pipe-arch culverts having a height of (40) inches or a cross sectional area of (13) or larger shall be made before backfill is placed. Culverts found to be out of alignment or damaged shall be replaced, reinstalled or repaired as directed by the Authorized Officer at the Purchaser's expense.

416 - Side-fill material for pipe culverts shall be placed within one (1) pipe diameter, or a minimum of one (1) foot, of the sides of the pipe barrel, and to a half (1/2) pipe diameter on round pipes with granular material (or 1-1/2"-0" crushed rock material in accordance with Section 1200 gradation if crushed bedding/backfill is required in the rock sheets and Section 413).

The remaining fill material shall be of fine, readily compactable soil and be free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.

419 - The pipe culverts, after being bedded and backfilled as required by these specifications, shall be protected by an 18" cover of fill before heavy equipment is permitted to cross the drainage structures.

421 - Trenches and bedding rock necessary for the installation of perforated pipe shall conform to the lines, grades, dimensions and typical diagram as shown on the plans.

423 - Construction of catch basins conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for grade culverts.

424 - Construction of splash pads and energy dissipaters conforming to lines, grades, dimensions and typical diagram shown on the plans, shall be required for grade culverts and culverts as listed on the culvert sheet.

426 - Culvert markers consisting of six (6) foot steel fence posts painted blue shall be furnished, fabricated, and installed by the Purchaser at the inlet of all culverts (installed and existing) as marked. Marker shall be installed within six (6) inches of upslope side of culvert inlet.

427 - The Purchaser shall record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.

428 - The Purchaser shall remove and dispose of old culverts (removed in the construction phase) in a legal manner, off of Government property, and pay any fees required. The Purchaser shall remove the old culverts from the work site prior to road acceptance.

429 - Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site in a manner that will avoid damage to adjacent property. Provide for downstream waterflow with no more than ten (10) percent increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

430 - During culvert installations or replacement activities, all stream flow shall be diverted around the culvert work occurring in live streams, as to maintain downstream flows and minimize turbidity. Woody material removed from stream channels during culvert work shall be placed in the stream channel downstream of the culvert.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans, and as marked on the ground.

501a - This work shall include the removal and disposal of slides in accordance with these specifications and as marked on the ground.

502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans.

502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.

503a - Material from the ditchline reestablishment excavation shall be hauled to designated disposal sites or at locations directed by the Authorized Officer.

504 - Existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f and 103i.

504a - Minimum compaction required shall be six (6) passes over each full-width layer, or fraction thereof, as measured along the centerline per layer of material.

506 - The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe

structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.

508 - Vegetation encroaching on the roadbed and the drainage ditches of existing roads shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.

509 - The finished grading and compacting shall be approved by the Authorized Officer. The Purchaser shall give the Authorized Officer three (3) days' notice prior to final inspection of the grading operations.

WATERING - 600

601 - This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.

602 - Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications.

603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the roadbed.

604 - Water required under these specifications shall be obtained at the times and at the locations indicated below:

Willamette Meridian				Dates Available	
Common Name	Section	T	R	From	To
City of North Plains	--	--	--	--	--

Use of water sources are subject to applicable State water regulations. If the required water is not available at the locations specified, water shall be obtained from a source approved by the Authorized Officer as permitted by Oregon Water Resources. A reduction shall be made in the total purchase price to reflect additional hauling distance based on rental rates from current BLM Timber Appraisal Cost Schedules. It is estimated that approximately forty thousand (40,000) gallons may be required for processing rock.

605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of the water sources specified under Subsection 604 for use of water sources approved by the Authorized Officer. Purchaser shall notify the Bureau of Land Management when an agreement has been met and shall provide a copy of the documentation.

AGGREGATE BASE COURSE - 1000
CRUSHED ROCK MATERIAL

1001 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and culvert bedding approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans.

Material not conforming to these specifications will be rejected and shall be removed from the road or stockpile at the purchaser's expense. Unutilized material shall remain the property of the BLM and shall be handled as directed by the Authorized Officer.

1002a - Crushed rock materials shall be obtained from a commercial source selected by the Purchaser at his option providing that the rock materials selected comply with the specifications in this section.

1003 - Crushed rock material produced from gravel shall have two (2) manufactured fractured faces on sixty-five (65) percent, by weight, of the material retained on the No. 4 sieve. If necessary to meet the above requirements or to eliminate an excess of filler, the gravel shall be screened before crushing.

1004 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1004
AGGREGATE BASE COURSE
CRUSHED ROCK MATERIAL

Percentage by weight passing square mesh sieves
AASHTO T 11 & T 27
GRADATION

Sieve Designation	ABC - D
6-inch	95
4-inch	-
3-inch	45-65
1-1/2-inch	-
1-inch	-
3/4-inch	-
No. 4	10 Max
No. 10	-
No. 40	-

When requested by the Authorized Officer, the Purchaser shall follow the sampling and testing procedures as described in sections 1004a and provide results to the Authorized Officer.

1004a - The Purchaser shall be required to take one sample of each 2,000 cubic yards of crushed rock material produced, using approved AASHTO sampling procedures. The Purchaser shall submit samples to a certified lab or shall perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures and perform testing for sand equivalency requirements using AASHTO T 176 testing procedures. Prior to testing, each sample shall be split as requested by the Authorized Officer, making one-half of the sample with proper identification available for testing by the Authorized Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within twenty-four (24) hours of receiving sampling results. The Purchaser shall provide test results for the first five hundred (500) cubic yards produced prior to commencing production crushing and hauling.

1005 - Crushed rock material shall not exceed thirty-five (35) percent loss as determined by AASHTO T 96.

1006 - Crushed rock material shall show a durability value of not less than thirty-five (35) as determined by AASHTO T210.

1007 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than thirty (35) and a plasticity index of not less than four (4) and not more than twelve (12) as determined by AASHTO T 89 and AASHTO T 90.

1008 - If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless

otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

1009 - Shaping and compacting of roadbed shall be completed and approved prior to placing crushed rock material, in accordance to the requirements of Subsections 300, 400, and 500. Notification for final inspection of base rock shall be three (3) days prior to the spreading of crushed cap rock.

1010 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed, turnarounds, and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and marked on the ground. Compacted layers shall not exceed nine (9) inches in depth. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

1010a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification unless approved by the Authorized Officer in advance.

1012 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction, determined by Authorized Officer, and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f and 103i. Minimum compaction shall be six (6) passes over each full-width layer, or fraction thereof.

1016 - The Purchaser may place in stockpile 18,846 cubic yards truck measure of Gradation D crushed rock material at 3N-3-34.0 (Sta. 4+37). Such material shall be used as shown on the plans and as directed by the Authorized Officer. All crushed rock material so stockpiled shall be placed on the designated roads prior to termination of the timber sale contract.

1017 - Prior to stockpiling Subsection 1004 Gradation D and A crushed rock material, the stockpile site shall be prepared by clearing and disposing of all trees, stumps, brush, and other debris in accordance with Section 200. The floor of each stockpile site shall be graded to a level and uniform cross section. A minimum of 18,846 cubic yards, stockpile measure, may be placed amongst the following stockpile sites:

Stockpile No.	Willamette Meridian			Approx. Cu. Yds.	Road No.
	Sec.	T.	R.		
1	--	--	--	--	3N-3-34.0 (Sta. 4+37)

1018 - The equipment and methods used for stockpiling crushed rock material and for removing material from the stockpiles shall be such that minimum degradation or segregation of the material will result and that minimal amounts of foreign material will be incorporated into the crushed base material. There will be no intermingling of stockpiled materials.

1020 - Crushed rock material required under Section 1000 of these specifications shall first be placed in stockpile after crushing. The Purchaser shall notify the Authorized Officer a minimum of (3) days in advance of the date he intends to commence the crushing and stockpiling operation so that progressive test samples can be taken as the crushed rock material is produced. Sample material shall remain in separate stockpiles (2000 CY maximum) until such time the Authorized Officer receives test results which indicate compliance with Subsections 1003, 1004, 1004a, 1005, 1006, 1007, and 1008. Crushed rock material so tested shall be approved in writing by the Authorized Officer within (6) days from receiving sampling results date. Approved material may then be removed from temporary stockpile for placement on the designated roads or combined in designated base stockpile. In no event shall the Purchaser place crushed rock materials on the road from sources other than the tested and approved stockpiles. Noncompliance with the requirements of this subsection shall constitute grounds for the rejection of crushed rock materials furnished under this contract.

AGGREGATE SURFACE COURSE – 1200
CRUSHED ROCK MATERIAL

1201 - This work shall consist of furnishing, hauling, and placing one (1) or more layers of crushed rock material on roadbeds, base courses, and culvert bedding approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road or stockpile at the purchaser's expense. Unutilized material shall remain the property of the BLM and shall be handled as directed by the Authorized Officer.

1202a - Crushed rock materials used in this work shall be obtained from commercial source selected by the Purchaser at his option providing that the rock materials selected comply with the specifications in this section.

1203 - When crushed rock material is produced from gravel, not less than seventy-five (75) percent by weight of the particles retained on the No. 4 sieve will have 4 manufactured fractured faces. If necessary to meet the above requirements or to eliminate an excess of filler, the gravel shall be screened before crushing.

1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204
AGGREGATE SURFACE COURSE
CRUSHED ROCK MATERIAL
Percentage by weight passing square mesh sieves
AASHTO T 11 & T 27
GRADATION

Sieve Designation	ASC -C
1-1/2-inch	95
1-inch	-
3/4-inch	60-90
1/2-inch	-
No. 4	30-55
No. 8	22-43
No. 30	11-27
No. 40	-
No. 200	3-15

When requested by the Authorized Officer, the Purchaser shall follow the sampling and testing procedures as described in sections 1204a and provide results to the Authorized Officer.

1204a - The Purchaser shall be required to take one sample for each 1,000 cubic yards of crushed rock material to be utilized using AASHTO sampling procedures. The Purchaser shall submit samples to a certified lab or perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures and also perform testing for sand equivalency requirements using AASHTO T 176 testing procedures. Prior to testing, each sample shall be split as requested by Authorized Officer, making one half of the sample, with proper identification, available for testing by the Authorized Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within 24 hours of receiving sampling results. The Purchaser shall provide test results for the first (500) cubic yards produced prior to commencing production crushing and hauling.

1205 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than thirty-five (35) at five hundred (500) revolutions, as determined by AASHTO T 96.

1206 - Crushed rock material shall show a durability value of not less than thirty-five (35) as determined by AASHTO T210.

1207 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than thirty-five (35) and a plasticity index of not less

than four (4) and not more than twelve (12) as determined by AASHTO T 89 and AASHTO T 90.

1208 - If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

1209 - Shaping and compacting of roadbed, base course, or culvert trench shall be completed and approved prior to placing crushed rock material, in accordance to the requirements of Subsections 300, 400, 500, and 700. Notification for final inspection of base rock shall be three (3) days prior to the spreading of crushed cap rock.

1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed, landings, base course and culvert trench in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and marked on the ground. Compacted layers shall not exceed 4 inches in depth. When more than one (1) layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification unless approved by the Authorized Officer in advance.

1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction, as determined by Authorized Officer, and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f, 103g, and 103i . Minimum compaction shall be six (6) passes over each full-width layer, or fraction thereof.

1216 - The Purchaser shall place in stockpile 2,477 cubic yards truck measure of Gradation C crushed rock material at 3N-3-34.0 (Sta. 4+37). Such material shall be used to reinforce and repair areas of deficient support which appear during the hauling operation. Crushed rock material so stockpiled shall be placed on the designated road prior to termination of the timber sale contract.

1217 - Prior to stockpiling Subsection 1204 Gradation C crushed rock material, the stockpile site shall be prepared by clearing and disposing of all trees, stumps, brush, and other debris in accordance with Section 200. A minimum of 2,477 cubic yards, stockpile measure, may be placed at the following stockpile sites:

Stockpile No.	Willamette Meridian			Approx. Cu. Yds.	Road No.
	Sec.	T.	R.		
1	--	--	--	--	3N-3-34.0 (Sta. 4+37)

1218 - The equipment and methods used for stockpiling crushed rock material and for removing material from the stockpiles shall be such that minimum degradation or segregation of the material will result and that minimal amounts of foreign material will be incorporated into the crushed base material and that there will be no intermingling of stockpiled materials.

1220 - Crushed rock material required under Section 1200 of these specifications shall first be placed in stockpile after crushing. The Purchaser shall notify the Authorized Officer a minimum of (3) days in advance of the date he intends to commence the crushing and stockpiling operations so that progressive test samples can be taken as the crushed rock material is produced. Sampled materials shall remain in separate stockpiles (1,000 CY maximum) until such time the Authorized Officer receives test results which indicate compliance with Subsections 1203, 1204, 1204a, 1205, 1206, 1207, 1208, and 1208a. Crushed rock material so tested shall be approved in writing by the Authorized Officer within 6 days from receiving sampling results date. Approved material may then be removed from temporary stockpile for placement on the designated road or combined in designated crushed rock stockpile. In no event shall the Purchaser place crushed rock materials on the road from sources other than the tested and approved stockpiles. Noncompliance with the requirements of this subsection shall constitute grounds for the rejection of all crushed rock materials furnished under this contract.

EROSION CONTROL - 1700

1701 - This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.

1704 - The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800 and the Geotextile requirement of Section 1300.

1708 - Newly constructed and renovated roads to be carried over the winter period, shall be blocked to vehicular traffic and waterbars installed prior to the wet season.

1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using waterbars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic. A winterization plan shall be submitted to the Authorized Officer no later than September 15th of each harvest season.

SOIL STABILIZATION – 1800

1801 - This work shall consist of seeding on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is not required for road acceptance under Sec. 18 of this contract.

1802a - Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation and improvement, landings, borrow sites, and disposal sites in accordance with these specifications and as shown on the plans. The seed shall be spread at a rate of ten (10) pounds/acre.

1803 - Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal periods:

From	To
April 15	May 15
September	October 31

The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

1804 - The Purchaser shall furnish the following species of grass seed meeting corresponding germination, purity, and weed-content requirements:

Species	Germination Min. %	Purity Min. %	Crop and Weed Content Max. %	Noxious Weed Content Max. %	Seed Mix Composition (lbs)
Blue Wildrye	85%	97%	0%	0%	80-90%

Yarrow/self-heal/pearly everlasting	85%	97%	0%	0%	10-20%
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Furnished seed shall meet or exceed the factors in the above table. Prior to applying seed, the contractor will supply the BLM with the seed label showing testing results.

If seed is not available that meets the factors in the above table, the project area would be sown with seed approved by the resource area botanist. Prior to applying seed, the contractor will supply the BLM with the seed label showing testing results. Seed shall meet Oregon Certified Seed (Blue Tag) requirements.

1806a - Additional soil stabilization work consisting of seeding, fertilizing, and mulching, may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

1808 - Mulch materials conforming to the requirements of Subsections 1808a shall be furnished by the Purchaser and applied in accordance with Subsection 1812.

1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops which are free from mold, or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placement.

1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.

1811 - The Purchaser shall apply to the disturbed soils that are wet and/or within fifty (50) feet each side of "live stream" locations and all disposal sites a mixture of grass seed and straw mulch material at the application rate to be determined by Authorized Officer based on visual observation of trial applications.

1812 - The Purchaser shall furnish and apply to the area designated for treatment as shown on the plans, a mixture of grass seed, fertilizer, and mulch material at the application rate to be determined by the Authorized Officer based on visual observation of trial applications.

1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.

1815 - The seed and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 1815b.

1815b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipacker seeders, fertilizer spreaders, or other approved mechanical seeding equipment may be used when seed and fertilizer are to be applied in dry form.

1817 - At the beginning of each day's operation, a measured area will be seeded and mulched to assure uniform application.

1819 - The Purchaser shall notify the Authorized Officer at least three (3) days in advance of date they intends to commence the specified soil stabilization work.

1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.

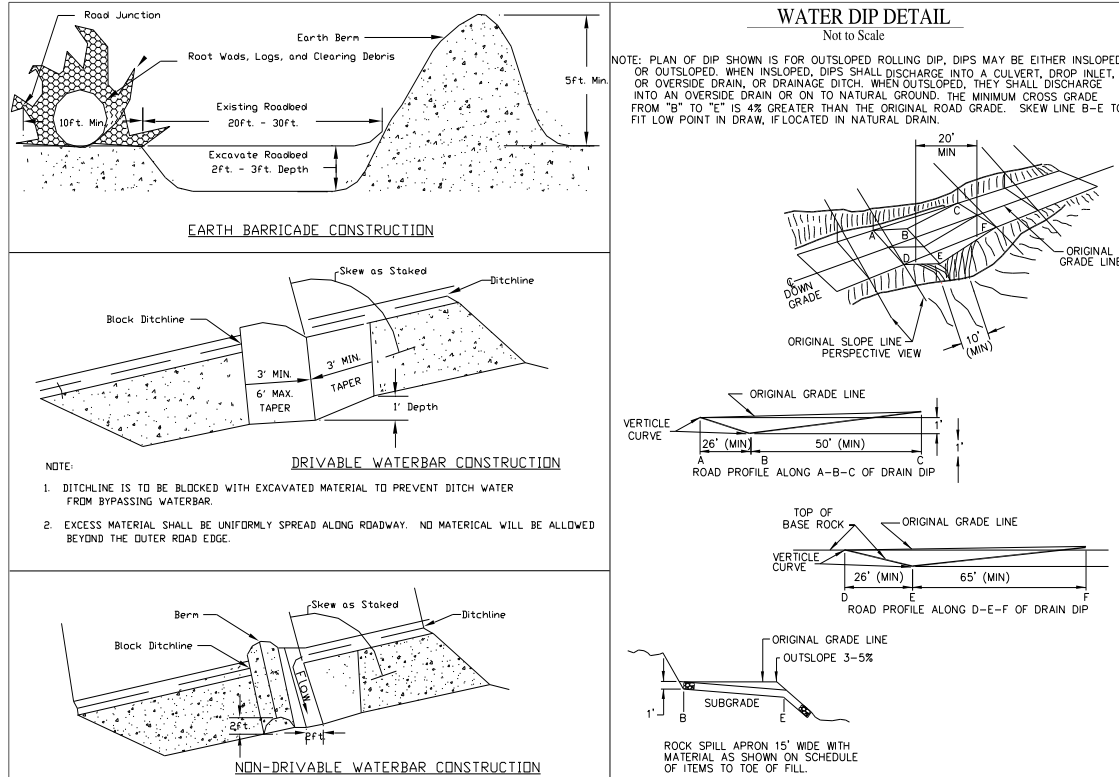
1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

BARRICADES AND CONTROL DEVICES - 2700

2701 - This work will consist of furnishing and placement of barricades, warning signs, and other protection required to prevent injury to people and damage to property due to culvert installations, brushing, and other construction work. Purchaser shall submit a site plan showing how the specifications in this section and of Sec. 44 will be accomplished.

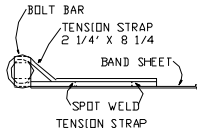
2702 - Maintain condition, operation, and effectiveness of traffic control devices throughout period of use. Materials used for the temporary structures and controls are property of Contractor and shall be removed from Government land when need for their service has ended.

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NORTHWEST OREGON DISTRICT OFFICE – OREGON
Earth Barricade, Waterdip, Drivable and Non-Drivable Waterbar Details

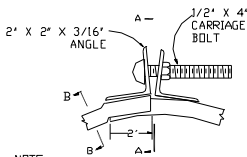
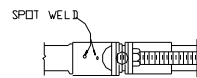


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Culvert Band Details

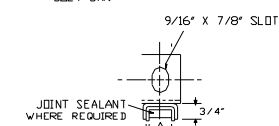
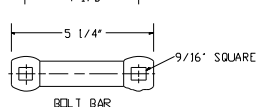
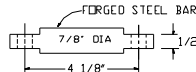
NOTE:
DESIGN VARIATIONS IN FASTENERS,
(STRAPS, BARS & WELDS) WHICH
PROVIDE A TENSILE STRENGTH OF
7500 LBS. ARE PERMISSIBLE.



DETAIL A



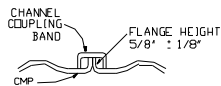
NOTE:
AS AN ALTERNATE TO SWEDGE, AN
OVERSIZE BRIDGE CLIP MAY BE USED.



DIMENSIONS IN INCHES

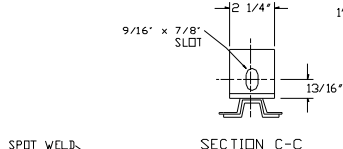
T	A	PIPE WALL THICKNESS
.875	3/4	109 OR LIGHTER
1.09	1	138 OR HEAVIER

SECTION A-A

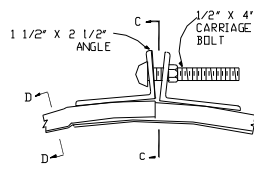
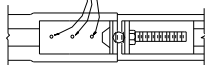


SECTION B-B

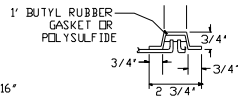
CHANNEL
BAND
COUPLER



SECTION C-C

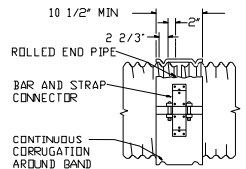
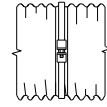


FLANGED END COUPLER



SECTION D-D

SHOWN WITH ALTERNATE TYPES
OF JOINT SEALERS



STANDARD CONSTRUCTION IS 1 PIECE 12"
THRU 48" AND 2 PIECE 54" AND ABOVE

THE HUGGER COUPLER BAND OR AN APPROVED EQUIVALENT COUPLER BAND SHALL BE MADE OF THE SAME MATERIAL AND FINISH AS THE PIPES JOINED. THE COUPLER BANDS SHALL HAVE A MINIMUM WIDTH OF 10 1/2 INCHES AND MAY BE TWO NUMERICAL THICKNESSES LIGHTER THAN THE GAGE OR THICKNESS DESIGNATED FOR THE CONDUIT JOINED. THE BAND SHALL BE DESIGNED TO BE DRAWN TOGETHER WITH TWO 1/2 INCH BOLTS THROUGH USE OF A BAR AND STRAP SUITABLY WELDED TO THE BAND. THE BAND SHALL ENGAGE AND MESH WITH THE SECOND ANNULAR CORRUGATION INWARD FROM THE END OF EACH OF THE CONDUIT SECTIONS JOINED.

GASKETS AND "HUGGER" TYPE BANDS, OR AN APPROVED EQUIVALENT COUPLER, SHALL BE INSTALLED INSTALLED ON ALL 48" AND LARGER METAL PIPES.

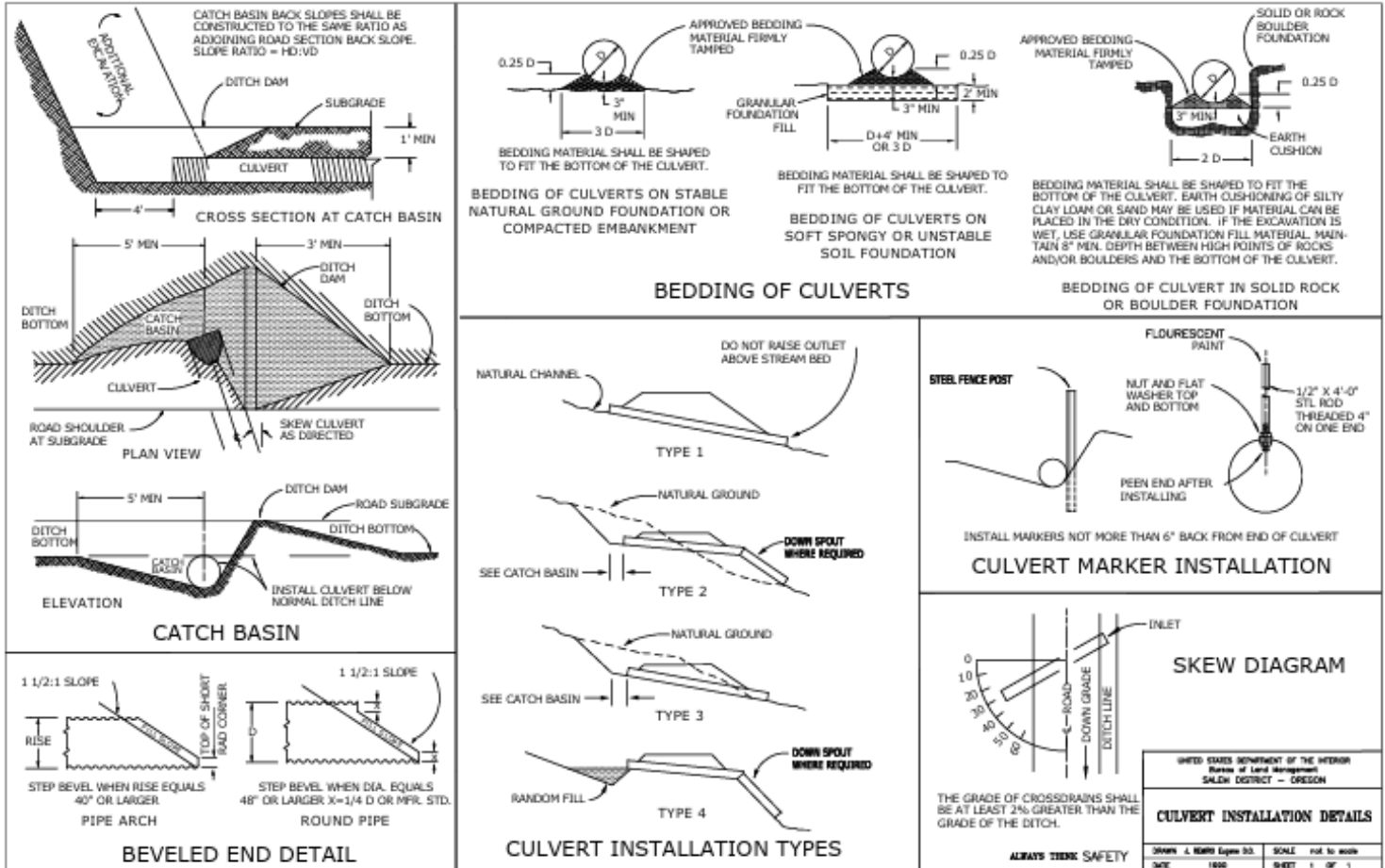
"HUGGER" COUPLER BANDS

STANDARD COUPLER BANDS									
CORRUGATED									
CULVERT SIZE INCHES	STD. ANNULAR		HELICAL		3' x 1'		6' x 1'		
	WIDTH	BOLTS	WIDTH	BOLTS	WIDTH	BOLTS	WIDTH	BOLTS	
UNDER 18	7	2	7	2					
18 TO 54	12	3	12	3	14	3	18	3	
OVER 54	24	5	24	5	24	5	24	4	

DATA IN THIS BLOCK DOES NOT APPLY TO PERFORATED PIPE UNDERDRAIN. FOR BANDS WITH "PUNCH-OUT" TYPE CONNECTIONS, 2 BOLTS ARE PERMISSIBLE FOR EACH LAP. BANDS SHALL LAP 1/2 WIDTH ONTO EACH SECTION OF PIPE AND MUST FULLY ENIRCLE THE JOINT FORMING A NEARLY WATERTIGHT CONNECTION

- ⓐ BANDS WITH ANGLES
- ⓑ BANDS WITH TENSION TYPE CONNECTIONS

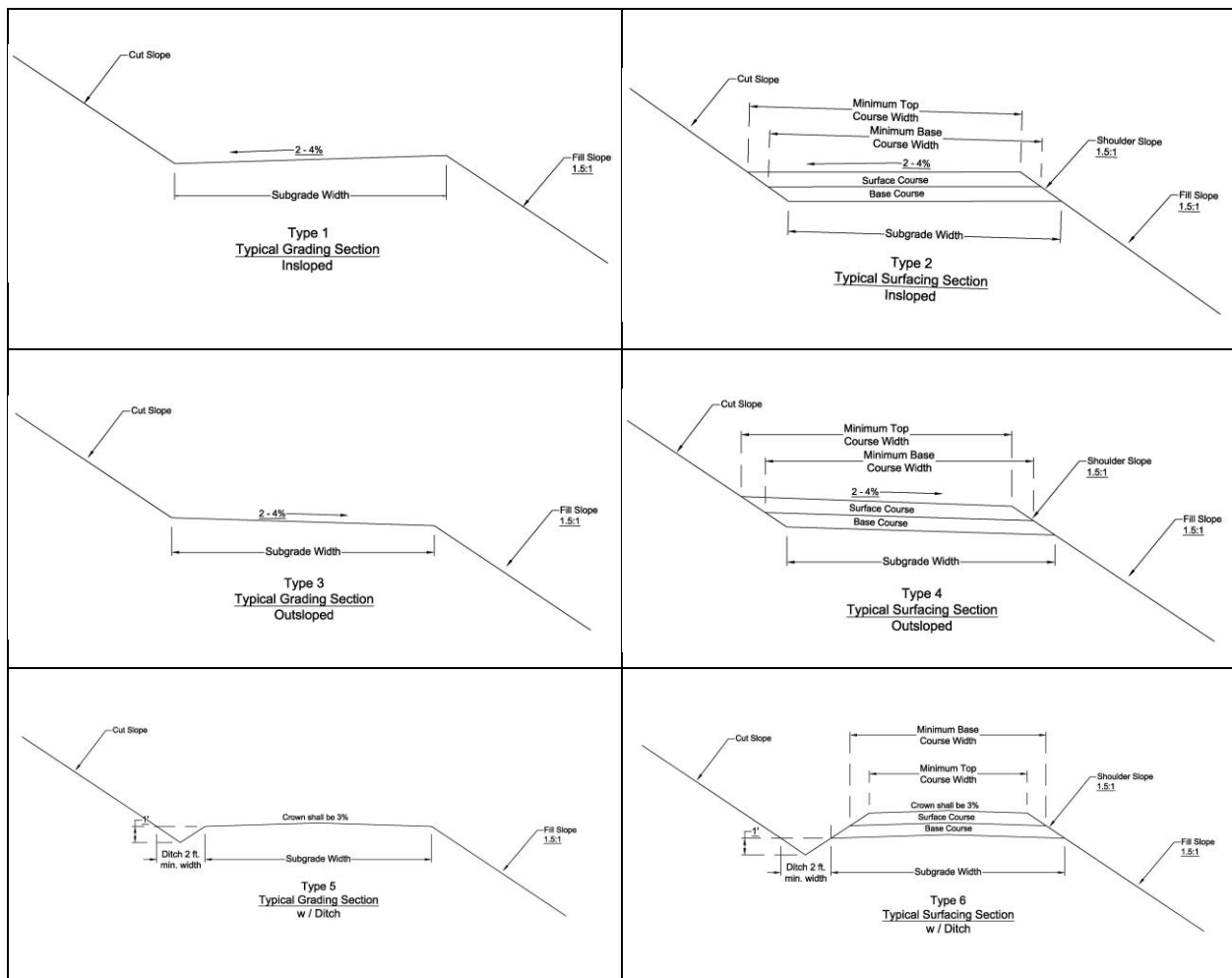
U.S. DEPT. OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT OFFICE – OREGON
Culvert Installation Detail

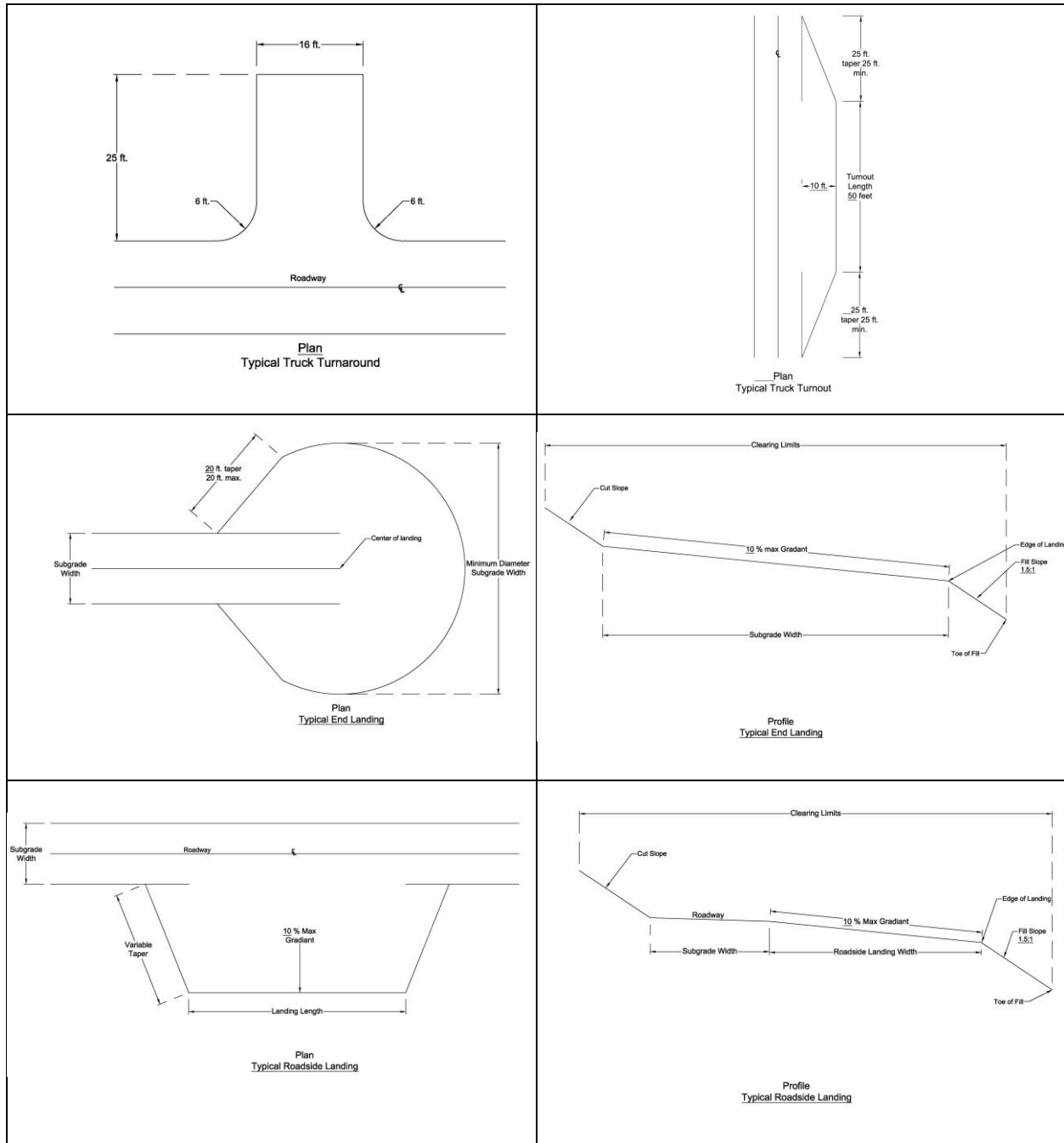


Note: Culverts 20' in length or smaller shall be one piece (no joints). No culvert piece shall be shorter than (5) foot. Minimization of banding is required.

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Road Prism Detail

Typical Road Cross Section: The diagram below shows the typical road cross section, truck turnout, truck turnaround, and landing types that the Purchaser will be required to follow when specified or when directed by the Authorized Officer. Road type specifications can be found in the construction work list.





Extra Subgrade Widths: Add to each shoulder one (1) foot for fills of one to six (1-6) feet and add to each shoulder two (2) feet for fills over six (6) feet. Widen the inside shoulder of curves as shown on Exhibit C Road Plan Maps.

Backslopes: The Purchaser shall construct backslopes as shown in the table below unless otherwise specified by the Authorized Officer:

Material	Cut Slopes	Fills Slopes
Solid Rock	1/4:1	Angle of Repose
Soft Rock and Shale	1/2:1	Angle of Repose
Common: Slopes under 55%	1:1	1-1/2:1
Common: Slopes over 55%	3/4:1	1-1/2:1

Full bench construction is required on side slopes exceeding 60%.

Turnouts: Width of turnout is ten (10) feet in addition to subgrade width or as specified in construction worklist. Located approximately as described in construction worklist or intervisible and not more than seven hundred fifty (750) feet apart.

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Road Plan and Construction Work List Details

2N-3-1.0: Improvement of a 14' outsloped subgrade with a 12' rocked running surface (Type 4) and new construct of a 14' outsloped subgrade with a 12' rocked running surface (Max grade 12%)(Type 4). Clearing and grubbing required for establishment of road, ditchout, roadside landing, turnaround/turnout, and landing. Grading, compacting, and construction of road, ditchout, roadside landing, turnaround/turnout, and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 862 CY) as marked. Spread 150 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required.

0+00 - Junction with 3N-3-34.0 (Sta. 88+60). Start improvement of a 14' outsloped subgrade with a 12' rocked running surface. Spread 20 CY of 6" jaw run base rock. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale. Start of segment A1.

1+87 - Entering through cut.

3+80 - End of through cut. Construct a ditchout to the right.

5+34 - Junction with 2N-3-1.2. End of segment A1, start of segment A2. End improvement of a 14' outsloped subgrade with a 12' rocked running surface. Start new construct of a 14' outsloped subgrade with a 12' rocked running surface. Entering through cut. Construct ditchouts as needed.

7+27 - End of through cut. Construct a roadside landing to the left. Spread 40 CY of 6" jaw run base rock.

11+12 - Construct a truck turnout/turnaround to the left. Spread 40 CY of 6" jaw run base rock.

17+10 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End of 9" lift of 6" jaw run base rock. End of new construct.

2N-3-1.1: Improvement of a 14' outsloped subgrade with a 12' rocked running surface (Max Grade 2%, Type 4). Clearing and grubbing required for road, turnaround, and landing. Grading, compacting, and construction of road, turnaround and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 245 CY) as marked. Spread 90 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required.

0+00 - Junction with road 3N-3-34.0 (Sta. 91+58). Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1.

3+92 - Construct truck turnaround right. Spread 20 CY 6" jaw run base rock.

4+86 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. End of new construct.

2N-3-1.2: Improvement of a 14' outsloped subgrade with a 12' rocked running surface (Max Grade 2%, Type 4). Clearing and grubbing required for road and landing. Grading, compacting, and construction of road and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 245 CY) as marked. Spread 70 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required.

0+00 - Junction with road 2N-3-1.0 (Sta. 5+34). Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1.

1+20 – 2+89 Daylight berm on outside right edge to drain right.

4+86 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. End of new construct.

2N-3-1.3: New construct of a 15' ditched/crowned subgrade with a 12' rocked running surface (Type 6)(Max grade 15%). Clearing and grubbing required for establishment of road and ditchline and landing. Grading, compacting, and construction of road and ditchline and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 152 CY) as marked. Spread 70 CY of 6" Jaw Run Base Rock as marked (ABC – D) as marked. Spread 10 CY of 1 ½" -0" Crushed Spot Rock as marked (ASC- C) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with 2N-3-12.0 (Sta. 10+84). Spread 20 CY of 6" jaw run base rock capped with 10 CY of 1 ½" -0" crushed spot rock as junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1. Use material generated from the 2N-3-12.0 road as fill as needed and as directed. Start of through fill.

0+77 - Junction with 2N-3-1.4 to the left. End of segment A1, start of segment A2. End of through fill.

2+77 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. Construct a ditchout to the right on the backside of landing. End of new construct.

2N-3-1.4: New construct of a 15' ditched/crowned subgrade with a 12' rocked running surface (Type 6)(Max grade 10%). Clearing and grubbing required for establishment of road and ditchline and landing. Clearing and grubbing required for establishment of road and ditchline and landing. Grading, compacting, and construction of road and ditchline and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 65 CY) as marked. Spread 70 CY of 6" Jaw Run Base Rock as marked (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with 2N-3-1.3 (Sta. 0+77). Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1. Use material generated from the 2N-3-12.0 road as fill as needed and as directed. Start of through fill.

1+25 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End of 9" lift of 6" jaw run base rock. End of new construct.

2N-3-2.0: Improvement of a 14' outsloped subgrade with a 12' rocked running surface (Type 4) Clearing and grubbing required for road and landing. Grading, compacting, and construction of road and roadside and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 264 CY) as marked. Spread 20 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required.

0+00 - Junction with road 3N-3-34.0 (Sta. 52+02). Start improvement of a 14' outsloped subgrade with a 12' rocked running surface. Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On Stimson property. Start of segment A1.

0+20 - Start through cut. Slope right to drain to 3N-3-34.0 road.

1+23 - End through cut and outslope road right.

5+24 - Junction with 2N-3-2.1. End of segment A1. End of improvement.

2N-3-2.1: New construct of a 14' outsloped subgrade with a 12' rocked running surface (Max grade 18%, Type 4). Clearing and grubbing required for road, roadside

landing/turnaround, and landing. Grading, compacting, and construction of road and roadside landing/turnaround and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 252 CY) as marked. Spread 100 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with road 2N-3-2.0 (Sta. 5+24). Start a 9" lift of 6" jaw run base rock. On Stimson property. Start of segment A.

0+93 - Property line. Leaving Stimson land, entering BLM land. End of segment A1, start of segment B1. Timber sale boundary. Entering Pumpkin Pi timber sale.

2+67 - Construct a roadside landing/turnaround to the left. Spread 50 CY of 6" jaw run base rock. Use suitable material as fill.

4+99 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. End of new construct.

2N-3-2.2: New construct of a 14' outsloped subgrade with 12' rocked running surface (Max grade 18%, Type 4). Clearing and grubbing required for establishment of road and roadside landing, turnaround, turnaround/roadside landing, ditchout, and landing. Grading, compacting, and construction of road and roadside landing, turnaround, turnaround/roadside landing, ditchout, and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 1,165 CY) as marked. Spread 210 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with road 3N-3-34.0 (Sta. 59+08). Spread 20 CY of 6" jaw run base rock for junction apron Start a 9" lift of 6" jaw run base rock. On Stimson property. Start of segment A.

2+64 - Property line. Leaving Stimson property and entering BLM. Entering Pumpkin Pi timber sale boundary. End of segment A, start of segment B.

7+87 - Construct a truck turnaround/roadside landing to the right. Spread 40 CY 6" jaw run base rock.

12+49 - Construct a truck turnaround/roadside landing to the right. Spread 40 CY 6" jaw run base rock.

17+90 - Construct truck turnaround right. Spread 20 CY 6" jaw run base rock. Entering through cut.

19+90 - Construct a roadside landing to the left. Spread 40 CY 6" Jaw Run spot base rock on landing. Use suitable material as fill. End of through cut. Construct a ditchout to the left.

22+05 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. Use suitable material as fill. End of new construct.

2N-3-7.0: New construct of a 14' outsloped subgrade with 12' rocked running surface (Max grade 14%, Type 4). Clearing and grubbing required for establishment of road, roadside landing/turnaround, ditchout, and landing. Grading, compacting, and construction of road, roadside landing/turnaround, ditchout, and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 513 CY) as marked. Spread 160 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with road 3N-3-34.0 (Sta. 157+10). Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1.

1+25 - Junction with 2N-3-7.1 to the left. End of segment A1, start of segment A2.

4+50 - Entering through cut.

6+25 - Construct a roadside landing/turnaround to the right. Spread 50 CY 6" Jaw Run spot base rock on landing. Use suitable material as fill. End of through cut. Construct a ditchout to the right.

8+00 - Construct a roadside landing to the right. Spread 40 CY 6" Jaw Run spot base rock on landing. Use suitable material as fill.

9+71 - Construct a 50' diameter landing. Cut material left and fill right. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. End of new construct.

2N-3-7.1: New construct of a 14' outsloped subgrade with 12' rocked running surface (Max grade 10%, Type 4). Clearing and grubbing required for establishment of road and landing. Grading, compacting, and construction of road and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 103 CY) as marked. Spread 70 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with road 2N-3-7.0 (Sta. 1+25). Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1.

2+04 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. End of new construct.

2N-3-12.0: New construct of a 14' outsloped subgrade with 12' rocked running surface (Type 4)(Max grade 10%), new construct of a 16' ditched/crowned subgrade with a 12' rocked running surface (Type 6)(Max grade 18%), and new construct of a 14' ditched/crowned subgrade with a 12' rocked running surface (Type 6)(Max grade 6%). Clearing and grubbing required for establishment of road and ditchline, roadside landing/turnaround, landing, and culvert installations. Grading, compacting, and construction of road and ditchline, roadside landing/turnaround, landings, and culvert installations. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 879 CY) as marked. Spread a 4" lift of 1 ½"-0" Crushed Rock (ASC – C)(1 Lift; approx.. 273 CY). Spread 120 CY of 6" Jaw Run Base Rock as marked (ABC – D) as marked. Spread 10 CY of 1 ½" -0" Crushed Spot Rock as marked (ASC- C) as marked. Place 35 CY of 1 ½"-0" Crushed Bedding/Backfill Rock as marked (ASC-C). Install 2 culverts. Install 2 inlet markers. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with 3N-3-34.0 (Sta. 139+65). Start of 14' outsloped subgrade with a 12' rocked running surface. Spread 20 CY of 6" jaw run base rock capped with 10 CY of 1 ½"-0" crushed spot rock as junction apron. Start a 9" lift of 6" jaw run base rock capped with a 4" lift of 1 ½"-0" crushed rock. On Private land. On non-exclusive easement, DO NOT EXCEED POSTED CLEARING LIMITS (40' wide). Start of segment A1.

4+00 - End new construct of 14' outsloped subgrade with a 12' rocked running surface. Start new construct of a 16' ditched/crowned subgrade with a 12' rocked running surface. Entering through cut, start ditching on both sides.

5+80 - Property line. Leaving Private land, entering BLM land. End of segment A1, start of segment B1. End of non-exclusive easement. Timber sale boundary. Entering Pumpkin Pi timber sale.

7+30 - Install an 18" x 35' CPP. Place 15 CY of 1 ½"-0" crushed bedding/backfill rock. Spread base rock and cap rock lifts over pipe. Install inlet marker.

10+07 - End of through cut, end of ditch on the right. Construct a ditchout to the right. Install an 18" x 40' CPP. Place 20 CY of 1 ½"-0" crushed bedding/backfill rock. Spread base rock and cap rock lifts over pipe. Install inlet marker.

10+84 - Junction with 2N-6-1.3 to the right. End of segment B1, start of segment B2. Use material from the 2N-3-12.0 road as fill for the 2N-6-1.3 and 2N-6-1.4 roads.

12+09 - Start of through fill. End of 4" lift of 1 ½"-0" crushed rock. Continue 9" lift of 6" jaw run base rock.

13+65 - Construct a roadside landing/turnaround to the right. Spread 50 CY of 6" jaw run base rock. Use suitable material as fill.

14+15 - End of through fill, resume ditch to the left.

15+90 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. Construct a ditchout to the left on the backside of landing. End of 9" lift of 6" jaw run base rock. End of new construct.

3N-3-22.2: New construct of a 14' outsloped subgrade with natural surfacing (Max Grade 10%, Type 3). Clearing and grubbing required for establishment of road, turnout/roadside landing, roadside landing/turnaround, and landing. Grading, compacting, and construction of road, turnout/roadside landing, roadside landing/turnaround, and landing. Spread 20 CY of 6" Jaw Run Base Rock as marked (ABC-D). Spread 10 CY of 1 ½"-0" Crushed Spot Rock as marked (ASC-C). Place 25 CY of Crushed Bedding/Backfill Rock as marked (ASC-C). Install 1 culvert as marked. Install 1 inlet marker. Cut and fill as needed or as directed by the Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with NW Pumpkin Ridge Road. Spread 20 CY of 6" jaw run base rock capped with 10 CY of 1 ½"-0" crushed spot rock as junction apron. Install an 18" x 60' CPP with a lead-off ditch to disconnect existing ditchline. Place 25 CY of 1 ½"-0" crushed bedding/backfill rock. Install inlet marker. On private land. Start of segment A1.

3+38 - Property line. Leaving Private land, entering BLM land. End of segment A1, start of segment B1. Timber sale boundary. Entering Pumpkin Pi timber sale.

3+63 - Construct a truck turnout/roadside landing to the right.

5+89 - Construct a roadside landing/turnaround to the right.

7+18 - Junction with 3N-3-23.8 to the right. End of segment B1, start of segment B2.

11+03 - Construct a large 100' diameter landing. End of new construct.

3N-3-23.6: New construct of a 14' outsloped subgrade with natural surfacing (Max Grade 15%, Type 3). Clearing and grubbing required for establishment for road, landing/turnaround and

landing. Grading, compacting, and construction of road, landing/turnaround and landing. Spread 20 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Spread 10 CY of 1 ½" -0" Crushed Spot Rock (ASC- C) as marked. Cut and fill as needed or as directed by the Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with NW Pumpkin Ridge Road. Spread 20 CY of 6" jaw run base rock capped with 10 CY of 1 ½"-0" crushed spot rock as junction apron. On BLM land. Within Pumpkin Pi timber sale. Start of segment A1.

4+22 - Construct a roadside landing/turnaround to the left. Use suitable material as fill.

6+16 - Construct a large 100' diameter landing. End of new construct.

3N-3-23.7: New construct of a 14' outsloped subgrade with natural surfacing (Max Grade 15%, Type 3). Clearing and grubbing required for establishment for road and landing. Grading, compacting, and construction of road and landing. Spread 20 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Spread 10 CY of 1 ½" -0" Crushed Spot Rock (ASC- C) as marked. Cut and fill as needed or as directed by the Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with NW Pumpkin Ridge Road. Spread 20 CY of 6" jaw run base rock capped with 10 CY of 1 ½"-0" crushed spot rock as junction apron. On BLM land. Within Pumpkin Pi timber sale. Start of segment A1.

4+88 - Construct a large 100' diameter landing. End of new construct.

3N-3-23.8: New construct of a 14' outsloped subgrade with natural surfacing (Max Grade 15%, Type 3). Clearing and grubbing required for establishment for road and landing. Grading, compacting, and construction of road and landing. Cut and fill as needed or as directed by the Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with 3N-3-22.2 (Sta. 7+18). On BLM land. Within Pumpkin Pi timber sale. Start of segment A1.

4+78 - Construct a 50' diameter landing. End of new construct.

3N-3-34.0: Renovation of a 15' ditched/crowned subgrade with a 12' rocked running surface, improvement of a 15' ditched/crowned subgrade with a 12' rocked running surface (Type 6), improvement of a 14' outsloped subgrade with a 12' rocked running surface (Type 4), and new

construct of a 16' ditched/crowned subgrade with a 12' rocked running surface (Type 6)(Max grade 18%). Medium brushing with clearing and grubbing required for road and ditchline establishment, turnouts, roadside landings/turnarounds, roadside landings/turnouts, waste areas, ditchouts, culvert installations, and landing. Grading (including ditchline establishment), compacting, and construction of road and ditch, turnouts, turnarounds, waste areas, roadside landings/turnarounds, ditchouts, landings, and culvert installations. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 9,399 CY) as marked. Spread a 4" lift of 1 ½"-0" Crushed Rock (ASC – C)(1 Lift; approx. 427 CY). Spread 550 CY of 6" Jaw Run Base Rock as marked as marked (ABC – D). Spread 10 CY of 1 ½"-0" Crushed Spot Rock as marked (ASC-C). Place 425 CY of 1 ½"-0" Crushed Bedding/Backfill Rock as marked (ASC-C). Install 32 culverts. Install 31 inlet markers. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with Willis County Road. Start renovation of a 15' ditched/crowned subgrade with 12' rocked running surface. Property Line. Starting onto Stimson land. Main ditchline is on the left. Start of through cut, start of ditching on both sides. Start of segment A1.

0+14 - Existing gate with additional steel members to block side entrances.

3+80 - Existing low spot. Existing CPP Good. Install Inlet Marker. Clean lead-off ditch from culvert outlet (approx. 25').

4+37 - Junction with private timber roads to the right and left. End of segment A1, start of segment A2. Construct a large stockpile site to the left.

4+84 - Low Spot. Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread 10 CY 6" jaw run base rock. Install Inlet Marker. Construct a lead-off ditch from culvert outlet to ditchline of road on the right. Wrap the ditchline from road on the left into ditchline leading to this culvert.

7+04 - Low Spot. Construct ditchouts to the left and right.

11+80 - Construct a turnout to the left. Spread 20 CY 6" Jaw Run base rock capped with 10 CY 1 ½"-0" crushed spot rock. Junction with Stimson road to the right. Construct a ditchout to the left. Continue ditchline on the right along Stimson road to the right. Main ditchline continues on the left. End of segment A2, start of segment A3. Start 9" lift of 6" Jaw Run base rock.

12+83 - Property Line. Leaving Stimson, Entering BLM. End of segment A3, start of segment B1. End renovation of a 15' ditched/crowned subgrade with a 12' rocked running surface. Start improvement of a 15' ditched/crowned subgrade with a 12' rocked running surface. Start of through cut, start of ditching on both sides. Continue main ditchline on the left.

- 15+20 - Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 25'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 16+22 - Construct roadside landing right. Wrap ditchline on right along edge of landing and construct ditchout behind landing. Spread 40 CY 6" Jaw Run spot base rock on landing.
- 16+65 - Low Spot. Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 30'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 18+70 - Junction with 3N-3-35.0 to the left. Wrap outside road edge ditchline of road to the left into this ditchline. End of segment B1, start of segment B2.
- 20+95 - Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 50'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 22+90 - Wrap ditchlines on right and left along edge of roadside landings ahead to construct ditchout behind landing.
- 23+40 - Construct a roadside landing on the right and left. Spread 80 CY 6" jaw run base rock on landings (40 CY each). Continue through-cut/double ditchlines after roadside landings.
- 27+60 - Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 50'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 29+55 - Bearing Tree to the right (save). Shift road to the left approx. 6 ft.
- 30+60 - Construct a turnout to the right. Spread 20 CY 6" jaw run base rock. Wrap ditchline on right along edge of turnout and construct ditchout behind turnout.
- 31+10 - Construct a ditchout to the left.
- 32+57 - Low Spot. Construct a ditchout to the right and to the left.
- 35+55 - Construct a ditchout to the right. End through cut, end of ditch on the right. Main ditchline on the left.
- 36+45 - Low Spot. Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 25').
- 37+39 - Junction with 3N-3-35.1 to the left. Wrap outside road edge ditchline of road to the left into this ditchline. End of segment B2, start of segment B3.

- 38+25 - Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 10'). Wrapped ditchline from road on left will drain to here.
- 38+58 - Start of through cut, start ditching on both sides.
- 40+00 - End through cut, end of ditch on the right. Construct a ditchout to the right. Main ditchline on left.
- 41+70 - Property Line. Leaving BLM land, entering Weyerhaeuser land. End of segment B3, start of segment C1. Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a lead-off ditch from culvert outlet (approx. 25').
- 43+73 - Property Line. Leaving Weyerhaeuser land, entering Stimson land. End of segment C1, start of segment D1.
- 44+13 - Low Spot. Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a lead-off ditch from culvert outlet (approx. 15').
- 45+62 - End through cut, end of ditch on the right. Main ditchline on left.
- 46+77 - Low Spot. Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 10').
- 47+70 - Start of through cut, start ditching on both sides. Construct a ditchout to the right.
- 49+25 - Construct a turnout to the right. Spread 20 CY 6" jaw run base rock. End through-cut/double ditchlines.
- 50+40 - Construct a ditchout to the right.
- 52+02 - Junction with 2N-3-2.0 to the left. Wrap outside road edge ditchline of road to the left into this ditchline. End of segment D1, start of segment D2.
- 54+29 - Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 10'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 56+47 - Construct a turnout to the right. Spread 20 CY 6" jaw run base rock. Wrap ditchline on right along edge of turnout and construct ditchout behind turnout. End through-cut/double ditchline.
- 57+92 - Low Spot. Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker.

- 59+08 - Junction with 2N-3-2.1 to the left. Wrap outside road edge ditchline of road to the left into this ditchline. End of segment D2, start of segment D3.
- 61+74 - Property Line. Leaving Stimson, Entering BLM. End of segment D3, start of segment E1.
- 62+75 - Install 18"x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install Inlet Marker. Construct a lead-off ditch from culvert outlet (approx. 25').
- 63+95 - Start of through cut, start ditching on both sides.
- 67+00 - Low Spot. Install an 18" x 35' CPP. Place 15 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a lead-off ditch from culvert outlet (approx. 35'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 68+57 - Construct a roadside landing on the right and left. Spread 80 CY 6" Jaw Run spot base rock on landings (40 CY each). Continue through-cut/double ditchlines after roadside landings.
- 71+88 - Quad trail to the left. Install an 18" x 35' CPP. Place 15 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a lead-off ditch from culvert outlet (approx. 35'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 75+05 - End of through cut, end of ditch on the right. Construct ditchout to the right. Main ditchline on the left.
- 75+65 - Install an 18" x 35' CPP. Place 15 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a lead-off ditch from culvert outlet (approx. 20').
- 76+58 - Start of through cut, start ditching on both sides. Construct a ditchout to the right.
- 81+50 - Protect two bearing trees and survey monument outside clearing limits to the left.
- 82+75 - Install an 18" x 35' CPP. Place 15 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a lead-off ditch from culvert outlet (approx. 25'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.
- 86+15 - Construct a through-cut to the right. Continue through-cut/double ditchlines.
- 88+43 - Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a lead-off ditch from culvert outlet (approx. 15'). Wrap ditchline on the right into the lead-off ditch at culvert outlet.

- 88+60 - Junction with 2N-3-1.0 to the right. Wrap outside road edge ditchline of road to the left into this ditchline. End of segment E1, start of segment E2.
- 90+22 - Low Spot in curve. Install an 18" x 80' CPP. Place 30 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a ditchout to the right.
- 91+58 - Junction with 2N-3-1.1 to the right. Continue through-cut/double ditchlines. End of segment E2, start of segment E3.
- 92+71 - Construct a ditchout to the right. Continue through-cut/double ditchlines.
- 95+03 - Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a ditchout to the right.
- 97+11 - Construct a ditchout to the right. End of through cut, end of ditch on the right. Main ditchline on left. Protect bearing tree to the left.
- 98+37 - Install an 18" x 40' CPP. Place 20 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Start of through cut, start ditching on both sides.
- 101+37 - Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a ditchout to the right.
- 103+75 - Start of through cut, start ditching on both sides.
- 104+90 - Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Construct a ditchout to the right. Continue through-cut/double ditchlines.
- 106+03 - Construct a ditchout to the right. End of through cut, end of ditch on the right. Main ditchline on the left.
- 108+20 - Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Start of through cut, start ditching on both sides.
- 109+10 - Construct a ditchout to the right. Continue through-cut/double ditchlines.
- 112+87 - Timber sale Boundary Line.
- 113+44 - Property Line. Leaving BLM, Entering Stimson. End of segment E3, start of segment F1. Construct a ditchout to the right. End of through cut, end of ditch on the right. Main ditchline on the left.

- 114+05 - Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. Protect Bearing tree and survey monument to the left.
- 120+00 - Install an 18" x 30' CPP. Place 10 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker.
- 121+76 - Entering through cut, start ditching on both sides.
- 123+05 - End of through cut, end of ditch on the right. Construct a ditchout to the right.
- 123+84 - Junction with old road to the left. End of segment F1, start of segment F2. Pull ditchline through road junction.
- 124+33 - Install an 18" x 35' CPP. Place 15 CY 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker. End improvement of a 15' ditched/crowned subgrade with a 12' rocked running surface. Start improvement of a 14' outsloped subgrade with a 12' rocked running surface.
- 128+31 - Entering clear cut.
- 129+39 - Entering through cut, construct ditchouts as needed or directed.
- 129+39 – 137+75 Remove existing waterbars. Additionally, remove berm of material on outside edge. Either haul material to designated waste area or sweep material back into road prism and shape properly.
- 131+33 - Junction with a road right. End of segment F2, start of segment F3. Construct a truck turnout. Spread 20 CY of 6" jaw run base rock. Construct a ditchout on the backside of turnout.
- 135+75 - Excavate hump down in road. Cut and drift material to create smooth transition and slacken grade.
- 137+75 - Property line. Leaving Stimson land, entering Private land. End of segment F3, start of segment G1. End improvement of a 14' outsloped subgrade with a 12' rocked running surface. Start improvement of a 15' ditched/crowned subgrade with a 12' rocked running surface. Ditch on the left. Install an 18" x 55' CPP across road. Place 25 CY of 1 ½"-0" crushed bedding/backfill rock. Spread base rock lift over pipe. Install inlet marker.
- 139+65 - Junction with 2N-3-12.0 to the left. End of segment G1, start of segment G2. After junction, end of improvement of a 15' ditched/crowned subgrade with a 12' rocked running surface. Start improvement of a 14' outsloped subgrade with 12' rocked running surface.
- 144+05 - Junction with road to the right. End of segment G2, start of segment G3.

152+10 - Property line. Leaving Private land, entering BLM land. End of segment G3, start of segment H1. Timber sale boundary. Entering Pumpkin Pi timber sale. End improvement of a 14' outsloped subgrade with a 12' rocked running surface. Start new construct of a 16' ditched/crowned subgrade with a 12' rocked running surface. Start of through fill.

153+10 – 155+10 Construct a waste area to the right. Use all suitable material to construct a large roadside landing to the right. Drift, shape, and compact all waste material to ensure space is suitable for harvesting use.

157+10 - Junction with 2N-3-7.0 to the left. End of segment H1, start of segment H2. After junction, approximate location to end through fill and start of through cut. Start of ditching on both sides. End haul material to designated waste area or stage for filling needs further on. Drifting material will be mostly unavailable due to side slopes and full benching requirements. Start a 4" lift of 1 ½"-0" crushed rock capped on the 9" lift of 6" jaw run base rock.

162+58 - Approximate location to end through cut. End of ditch on the right. Construct a ditchout to the right. Install an 18" x 45' CPP with a 10' CPP downspout. Place 20 CY of 1 ½"-0" crushed bedding/backfill rock. Spread base rock can cap rock lifts over pipe. Install inlet maker.

162+58 – 172+75 Full bench construction. End haul all material to designated waste area or stage for filling needs further on.

166+59 - Install an 18" x 45' CPP with a 10' CPP downspout. Place 20 CY of 1 ½"-0" crushed bedding/backfill rock. Spread base rock can cap rock lifts over pipe. Install inlet maker.

170+56 - Install an 18" x 35' CPP with a 10' CPP downspout. Place 15 CY of 1 ½"-0" crushed bedding/backfill rock. Spread base rock can cap rock lifts over pipe. Install inlet maker.

172+44 - Install an 18" x 50' CPP with a 10' CPP downspout. Place 20 CY of 1 ½"-0" crushed bedding/backfill rock. Spread base rock can cap rock lifts over pipe. Install inlet maker.

172+75 - Entering through cut, start ditching on both sides.

173+55 - Construct a truck turnout/roadside landing. Due to the road grade, the landing portion will need to be stepped. Spread 30 CY of 6" jaw run base rock. End of through cut, end of ditch on the left. Construct a ditchout to the left.

175+54 - Start of through fill, use suitable material as fill. End of ditch on the right. Construct a ditchout to the right.

176+02 - End of 4" lift of 1 ½"-0" crushed rock. Continue 9" lift of 6" jaw run base rock.

176+02 – 178+27 Construct a roadside landing to the left and right. Use suitable material as fill. Spread 160 CY of 6" jaw run base rock.

182+91 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End of 9" lift of 6" jaw run base rock. End of segment H2. End of new construct.

3N-3-35.0: Improvement of a 14' outsloped subgrade with a 12' rocked running surface (Max Grade 13%, Type 4), Clearing and grubbing required for road, turnout, turnaround, and landing. Grading, compacting, and construction of road turnout, turnaround and landing. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 341 CY) as marked. Spread 110 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required.

0+00 - Junction with road 3N-3-34.0 (Sta. 18+70). Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1.

2+44 - Construct turnout left. Spread 20 CY 6" jaw run base rock.

5+71 - Construct truck turnaround left. Spread 20 CY 6" jaw run base rock.

6+76 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. End of new construct.

3N-3-35.1: Improvement of a 14' outsloped subgrade and a new construct of a 14' outsloped subgrade with 12' rocked running surface (Max grade 18%, Type 4), Clearing and grubbing required for establishment of road and ditchline, roadside landing/turnaround, landing, and culvert installations. Grading, compacting, and construction of road and ditchline, roadside landing/turnaround, landings, and culvert installations. Spread a 9" lift of 6" Jaw Run Base Rock (ABC – D)(1 Lift; approx. 1,056 CY) as marked. Spread 210 CY of 6" Jaw Run Base Rock (ABC – D) as marked. Cut and fill as needed or as directed by Authorized Officer to dimensions specified, end hauling or borrow sites may be required. Road design notes available upon request.

0+00 - Junction with road 3N-3-34.0 (Sta. 37+39). Start improvement of a 14' outsloped subgrade with a 12' rocked running surface. Spread 20 CY of 6" jaw run base rock for junction apron. Start a 9" lift of 6" jaw run base rock. On BLM land. Within Pumpkin Pi timber sale boundary. Start of segment A1. Entering through cut.

1+75 - End of through cut, construct a ditchout to the left.

3+64 - End of improvement of a 14' outsloped subgrade with a 12' rocked running surface. Start new construct of a 14'outsloped subgrade with a 12' rocked running surface.

6+47 - Construct a roadside landing to the right. Spread 40 CY 6" Jaw Run spot base rock on landing. Use suitable material as fill.

12+37 - Construct a truck turnout to the right. Spread 20 CY 6" jaw run base rock.

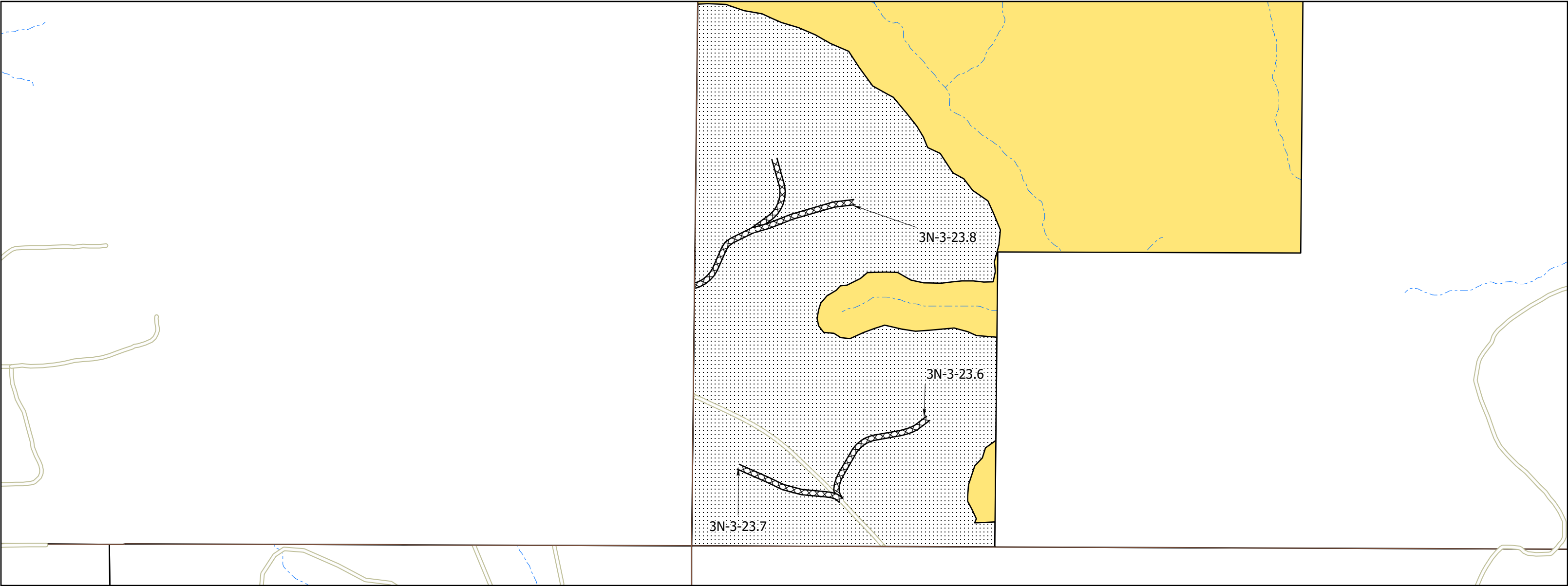
16+01 - Construct a roadside landing/turnaround to the left. Spread 40 CY 6" Jaw Run spot base rock on landing. Use suitable material as fill.

18+53 - Construct a roadside landing/turnaround to the left. Spread 40 CY 6" Jaw Run spot base rock on landing. Use suitable material as fill.

19+98 - Construct a 50' diameter landing. Spread 50 CY of 6" jaw run base rock. End 9" lift of 6" jaw run base rock. End of new construct.

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT - OREGON
Road Plan Map

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T. 02N. R. 02W. Section 07 W.M. - NORTHWEST OREGON DISTRICT - OREGON
T. 03N. R. 03W Sections 23 and 35 W.M. - NORTHWEST OREGON DISTRICT - OREGON



Natural surfaced road to be consturcted - Decommission after use

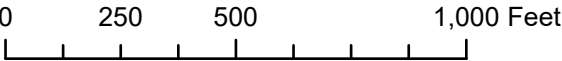
Existing Roads

Streams

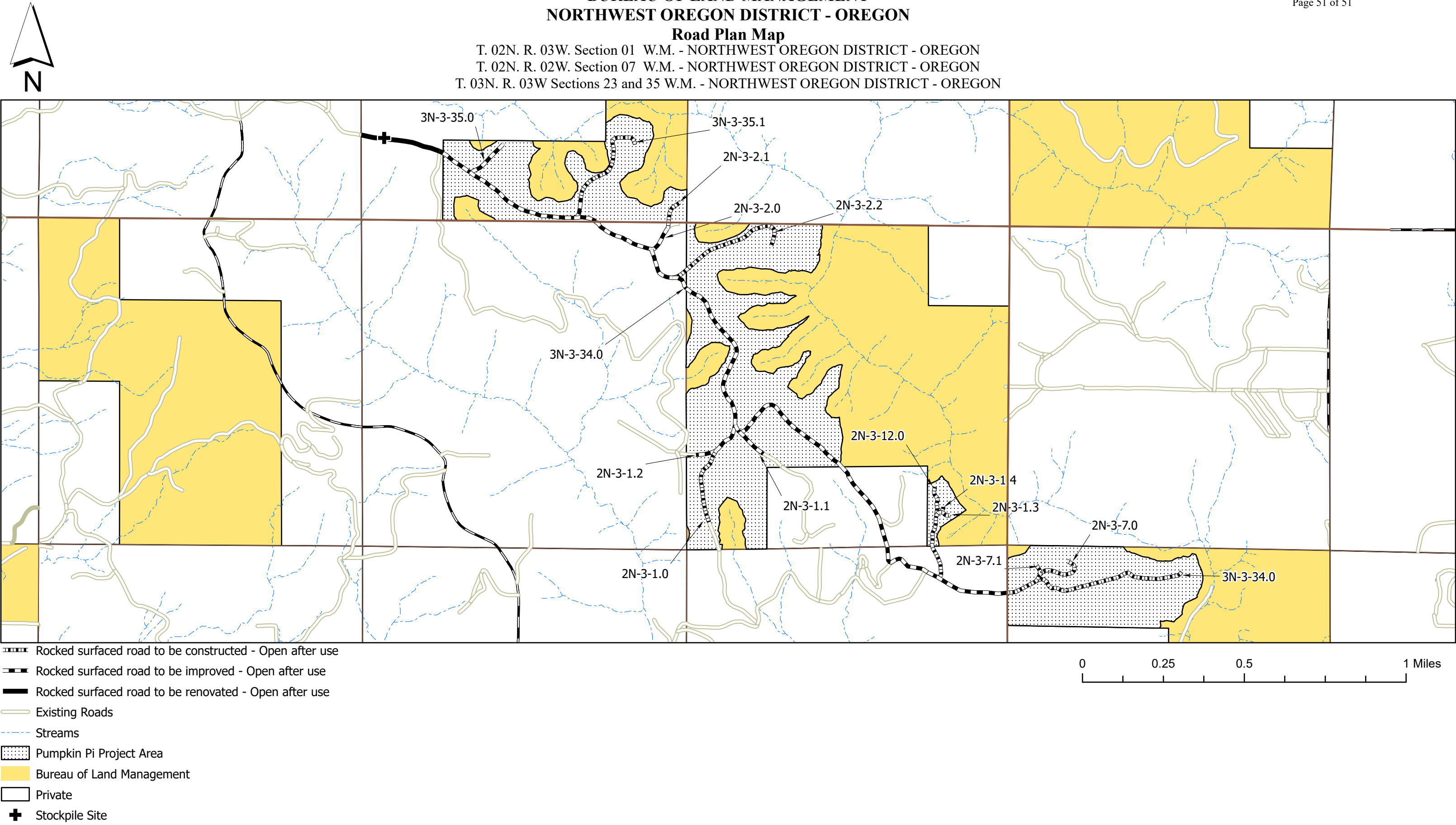
Pumpkin Pi Project Area

Bureau of Land Management

Private



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT - OREGON



ROAD MAINTENANCE SPECIFICATIONS

General road maintenance specifications are designated by numeric symbols according to the type of work performed as follows:

SECTION	DESCRIPTION
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance
3500	Decommissioning

GENERAL - 3000

- 3001 The Purchaser shall be required to maintain all roads as shown on the Exhibit E maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, 3400, and 3500 of this exhibit.
- 3001a The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3405, 3405a, 3405b, 3406b.
- 3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
- 3003 The minimum required maintenance on any Purchaser maintained roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader, when directed by the Authorized Officer. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3102 The Purchaser shall furnish and place 1,977cu.yds. of aggregate conforming to the requirements in Sections 1000 and 1200 of Exhibit C of this contract on the roadway at locations and in the amounts designated by the Authorized Officer.
- 1,232 CY (1 ½"-0")** - To be placed on 3N-3-34.0 (A1-E3) during final maintenance as directed by Authorized Officer (maintenance rock: Section 44.y.).
- 1000 CY (6" Jaw Run)** – To be placed on BLM controlled roads during seasonal operations as directed by the Authorized Officer, with surplus to be placed during final maintenance. (maintenance rock: Section 44.y.)
- 130 CY (6" Jaw Run)** – To be placed on BLM controlled roads during final maintenance as directed by the Authorized Officer (maintenance rock: Section 44.y.).

115 CY (6" Jaw Run)– To be placed on non-BLM controlled roads during final maintenance as directed by the Authorized Officer (maintenance rock: Section 44.gg.)

This aggregate shall be used to repair surface failures and areas of depleted surface depth excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, spread, and compacted by use of dump trucks, water trucks, and motor grader or similar equipment. Unutilized material shall remain the property of the BLM and shall be handled as directed by the Authorized Officer.

- 3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.
- 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.
- Prior to removal of any slough or slide material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.
- Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work, based on current BLM Road Cost Guide. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.
- 3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and waterbars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- 3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity,

at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work based upon current BLM Road Cost Guide. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.

- 3108 The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. (Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.)

SEASONAL MAINTENANCE - 3200

- 3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- 3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by Purchaser, during times when there is a low potential to deliver sediment to streams, as determined by Authorized Officer, and as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup. This includes all roads used and not used during the preceding operating seasons.
- 3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.
- 3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

3301 The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within thirty (30) calendar days following the completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions (Sections 3000, 3100, 3200 and 3300 of the maintenance specifications) have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

3302 The Purchaser shall perform final road maintenance only when weather or soil moisture conditions are suitable for normal maintenance equipment operations as determined by the Authorized Officer.

If final maintenance is delayed after the date required in Subsection 3301 of this contract by adverse soil moisture or unsuitable equipment operating conditions, the Purchaser will be notified by the Authorized Officer when soil moisture and equipment operating conditions are suitable. The Purchaser shall then be required to complete final maintenance within 30 days.

OTHER MAINTENANCE - 3400

3401 The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.

3402 The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

Upon receiving written authorization for ice or snow removal, the Purchaser will perform the work according to the conditions and equipment requirements set forth in the authorization.

DECOMMISSIONING – 3500

3501c Decommissioning on the following roads shall consist of removing cross drains and draw culverts. Work includes installing non-drivable waterbars, spreading grass seed, and blocking roads from access by vehicles. This work is *not* required for road acceptance under Section 18 of this contract.

Road No or Site	From Sta/MP	To Sta/MP	Length
3N-3-22.2	0+00	11+03	1,103'
3N-3-23.6	0+00	6+16	616'
3N-3-23.7	0+00	4+88	488'
3N-3-23.8	0+00	4+78	478'
2N-3-1.0	*Block at end of road		
2N-3-1.0	*Block at end of road		

3504 Decommissioning and Stabilization work shall be completed after all harvesting activities requiring that road segment have ceased, unless otherwise authorized in writing by the Authorized Officer. All decommissioning and stabilization work shall be performed during times when there is a low potential to deliver sediment to streams, as determined by the Authorized Officer, except in-stream work, which is in Dairy Creek Watershed:

From	To
July 15	September 30

3505 Where draw crossing fill material is to be excavated and removed, the finished bottom of draw profile shall be reestablished to its original channel grade, and resulting adjacent banks shall be constructed to a 2:1 backslope ratio.

3507 Culverts and Inlet Markers removed during decommissioning shall become the property of the BLM. All culverts and bands removed from the roadbed shall be recovered in such a manner as to preserve the pipe from rips and holes. The Purchaser shall be responsible for delivering culvert materials to the BLM Cedar Creek Storage Facility (SW¼ sec. 5, T. 3 S., R. 6 W., WM.) and for payment of any fees required. This task shall be done prior to termination of this contract.

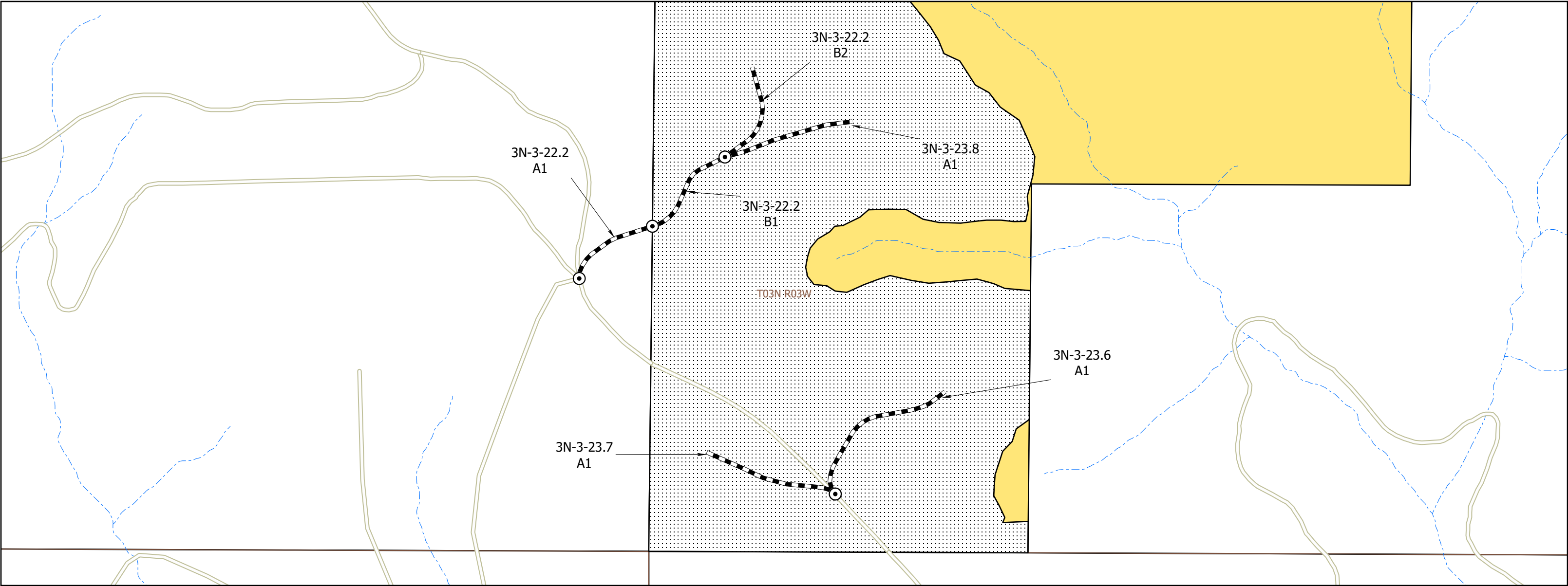
3509 Decommissioned roads shall have access blocked with barricades as shown on Exhibit C page 27. Stumps and woody debris used in the construction of barricades shall be material piled and stored during the clearing and grubbing process of road construction.

3513 Waterbars (drivable and non-drivable)/Waterdips shall be installed across full width of roadway at locations marked in the field by Authorized Officer and constructed to the dimensions of the waterbar detail on Page 27 of Exhibit C.

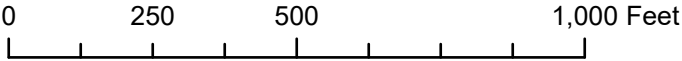
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT - OREGON

Road Plan Map

T. 02N. R. 03W. Section 01 W.M. - NORTHWEST OREGON DISTRICT - OREGON
T. 02N. R. 02W. Section 07 W.M. - NORTHWEST OREGON DISTRICT - OREGON
T. 03N. R. 03W Sections 23 and 35 W.M. - NORTHWEST OREGON DISTRICT - OREGON



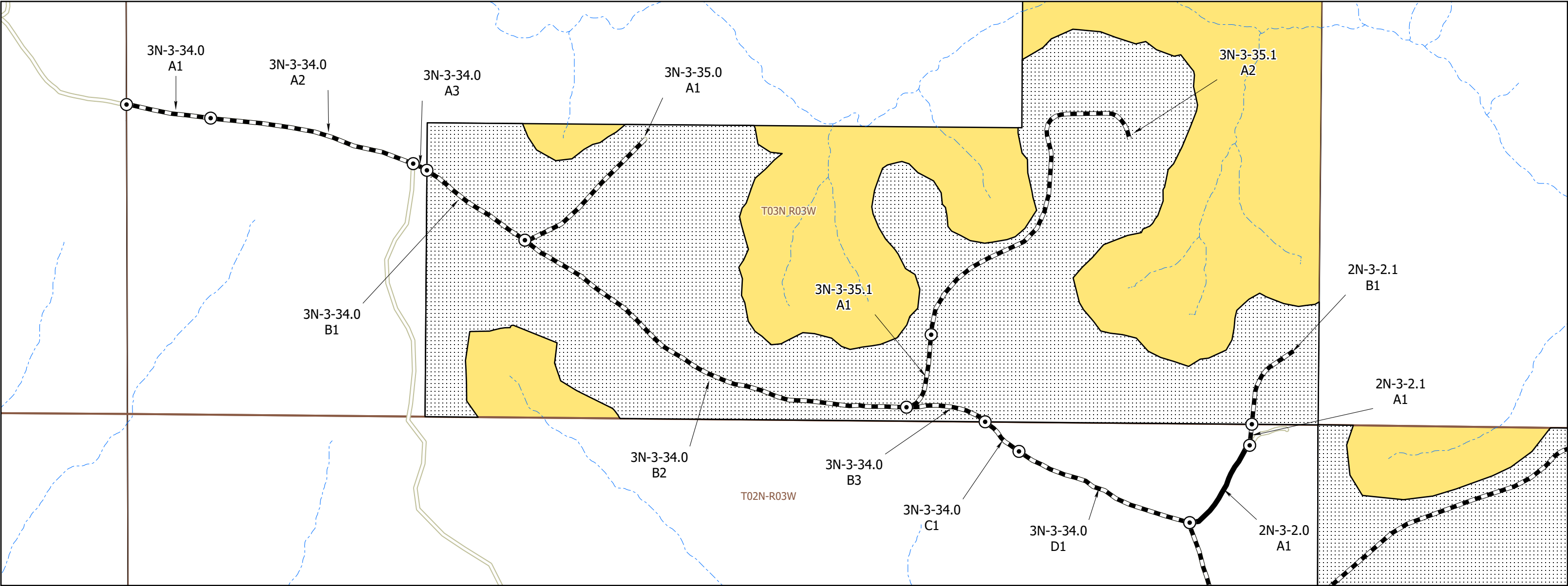
- SegmentBreaks
- ▬ BLM controlled road - Purchaser maintenance - Designated Haul Route
- Existing Roads
- - - Streams
- ▨ Pumpkin Pi Project Area
- Bureau of Land Management
- Private



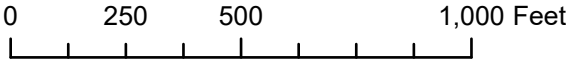
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BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT - OREGON
Road Plan Map

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Pumpkin Pi Timber Sale
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- SegmentBreaks
- ▬ BLM controlled road - Purchaser maintenance - Designated Haul Route
- ▬ Stimson Lumber Company controlled road - Purchaser maintenance - Designated Haul Route
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- ▬ Streams
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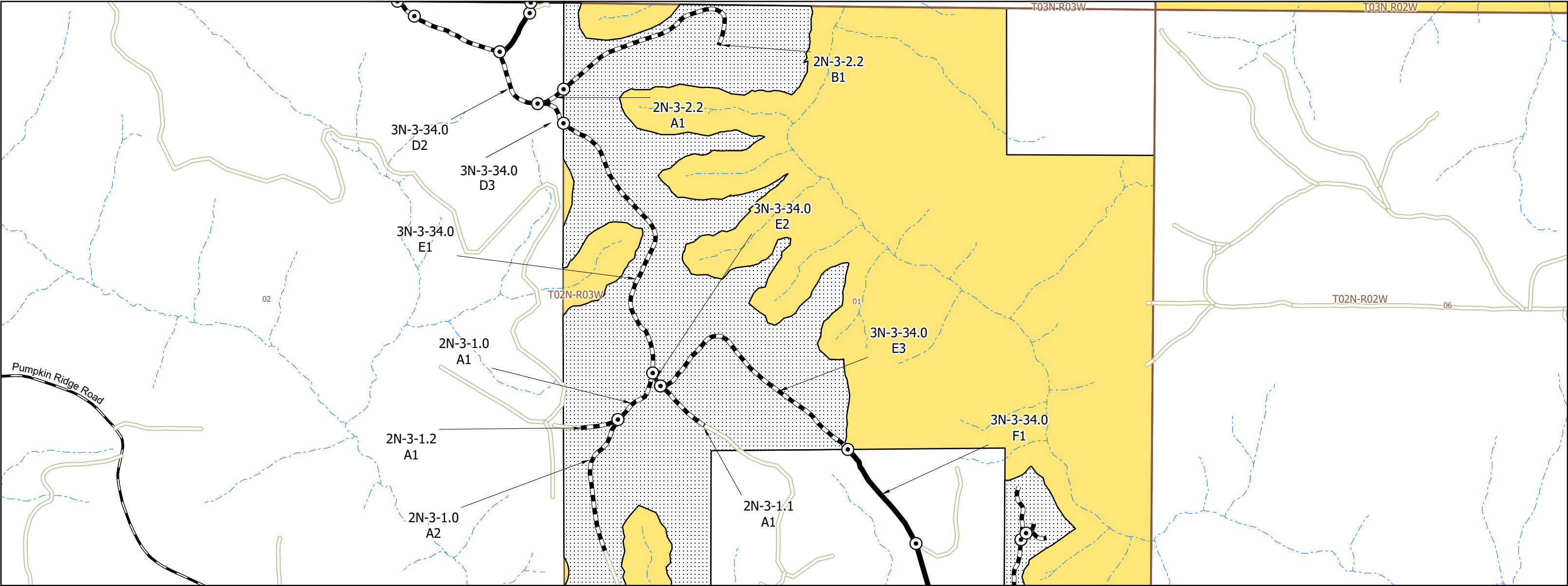
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT - OREGON

Pumpkin Pi Timber Sale
Contract NO ORN04-TS-2026-0402
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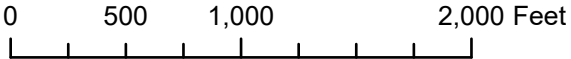


Road Plan Map

T. 02N. R. 03W. Section 01 W.M. - NORTHWEST OREGON DISTRICT - OREGON
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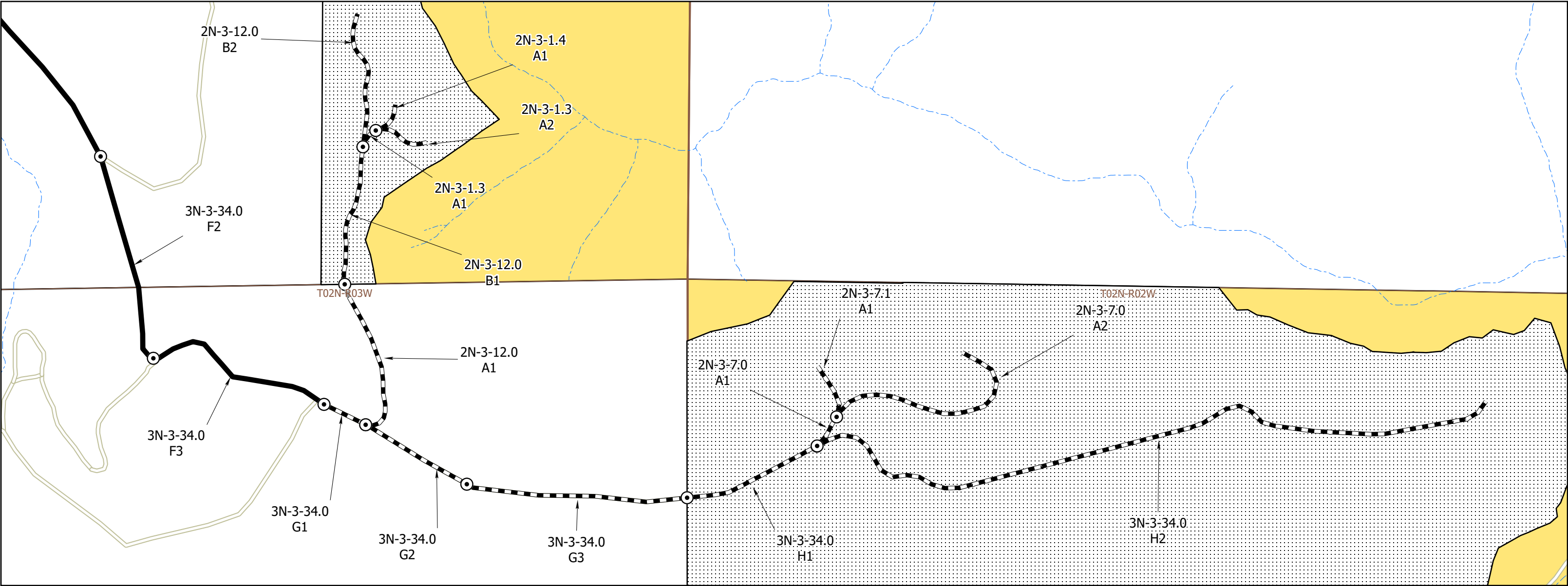


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BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT - OREGON

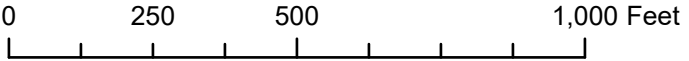


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T. 02N. R. 02W. Section 07 W.M. - NORTHWEST OREGON DISTRICT - OREGON
T. 03N. R. 03W Sections 23 and 35 W.M. - NORTHWEST OREGON DISTRICT - OREGON

Road Plan Map



- SegmentBreaks
- ▬ BLM controlled road - Purchaser maintenance - Designated Haul Route
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COARSE WOODY DEBRIS (CWD) CREATION REQUIREMENTS

1. Coarse Woody Debris (CWD) Tree Selection and Location

- a. The Purchaser shall select four hundred and forty-six (446) reserve trees to treat for the creation of coarse woody debris (CWD) by saw-topping, high-girdling, basal-girdling, or felling.
- b. For all methods of CWD creation, the Purchaser shall adhere to the following stipulations:
 - i. Preferentially select healthy live Douglas-fir trees when available.
 - ii. Select trees within CWD unit boundaries, unless designated otherwise by the Authorized Officer.
 - iii. Select trees within the specified DBH ranges for each CWD unit, as displayed in Table 1.
 - iv. Distribute selected trees and treatment types evenly throughout the CWD units, except where shown otherwise in Exhibit F map or as directed by the Authorized Officer.
- c. For all methods of CWD creation, do not select trees with any of the following characteristics:
 - i. Trees with any nests or nest-like structures.
 - ii. Trees with unique structures, such as cavities, mistletoe, platforms, forked/multiple tops, spike tops, broken tops, defects, fire scars, and mechanical damage.
 - iii. The largest, most dominant tree within any given area.
 - iv. Trees marked with any metal tags.
 - v. Trees that will be within striking distance, after the CWD treatment has been completed, of any road, designated trail, property line, power line, or structure.
- d. Trees selected for saw-topping and high-girdling shall have live crown ratios greater than thirty (30) percent. If the only available trees have live crown ratios smaller than thirty (30) percent, select trees with the largest crown ratio present.

2. CWD Treatments

a. Saw-Topping

- i. The Purchaser shall climb and top selected trees at a height of at least sixty (60) feet above the ground at a point where approximately twenty to fifty (20-50) percent of the live crown remains.
- ii. Live limbs below the point of saw-topping shall not be removed. To the extent practicable, the Purchaser shall retain the largest dead limbs on the trees during the climbing.

- iii. Saw-topped trees must be severed completely from the bole and fall to the ground. No tops shall be left hung up in other trees or left leaning against the bole of the tree.
- iv. No part of the severed top shall rest on non-BLM land.
- v. To the extent practicable, directionally fall tops to avoid damaging existing snags, under-story conifers, any tree containing a suspected nest of a bird or mammal, or any tree with defects such as hollow cavities, multiple tops, or decay, and avoid contact with unburned burn piles and drivable roads.
- vi. The Purchaser shall tie two pieces of flagging of a color approved by the Authorized Officer around the bole, or on a branch, directly below the topped point. Flagging shall extend a minimum of three feet downward and must be visible from the ground.

b. High-Girdling:

- i. The Purchaser shall climb and high-girdle selected trees at a height of at least sixty (60) feet above the ground, and within the live crown at a point where approximately twenty to fifty (20-50) percent of the live crown remains below the girdle site.
- ii. Girdling shall consist of removing all bark and cambium in a twelve (12) inch wide or greater band completely encircling the bole of the tree. Tool cuts must not penetrate more than one-half (0.5) inches into the wood of girdled trees.
- iii. Live limbs below the girdle site shall not be removed. To the extent practicable, the Purchaser shall retain the largest dead limbs on the trees during climbing.
- iv. The Purchaser shall tie two pieces of flagging of a color approved by the Authorized Officer around the bole, or on a branch, directly below the girdled site. Flagging shall extend a minimum of three (3) feet downward and must be visible from the ground.

c. Basal-Girdling

- i. The Purchaser shall basal-girdle selected trees at or below breast height.
- ii. Girdling shall consist of removing all bark and cambium in a twelve (12) inch wide or greater band completely encircling the bole of the tree. Tool cuts must not penetrate more than one-half (0.5) inches into the wood of girdled trees.
- iii. The Purchaser shall tie one piece of flagging of a color approved by the Authorized Officer around the bole of each treated tree, near breast height.

3. Documentation

- a. The Purchaser shall locate CWD units in the field using a GPS-enabled device capable of georeferencing PDF maps. The BLM will provide PDF maps of the CWD units; units will not be delineated in the field.
- b. The Purchaser shall provide a schedule of work to the BLM prior to implementation.
- c. The Purchaser shall provide the location of all treated trees by collecting GPS points and submitting the point features to the Authorized Officer.
- d. The Purchaser shall tally all treated trees by two-inch diameter class, species, treatment type, and unit number daily. The Authorized Officer may request the tally at any time during CWD treatment operations. The Purchaser shall submit a completed tally to the Authorized Officer upon completion of operations.

Table 1. Unit treatments and tree sizes to select for coarse woody debris (CWD) creation.

CWD Unit	Acres	Total Trees	Saw Top	High Girdle	Basal Girdle	Fell	Tree Size (Inches DBH)
1	54	54	20	21	13	0	20"-30"
1RR	4	40	8	8	24	0	20: 10"-20" 20: 20"-30"
2	81	81	31	30	20	0	20"-30"
3	180	180	67	68	45	0	20"-30"
4	9	9	4	3	2	0	20"-30"
5	82	82	30	31	21	0	20"-30"
Total	410	446	160	161	125	0	

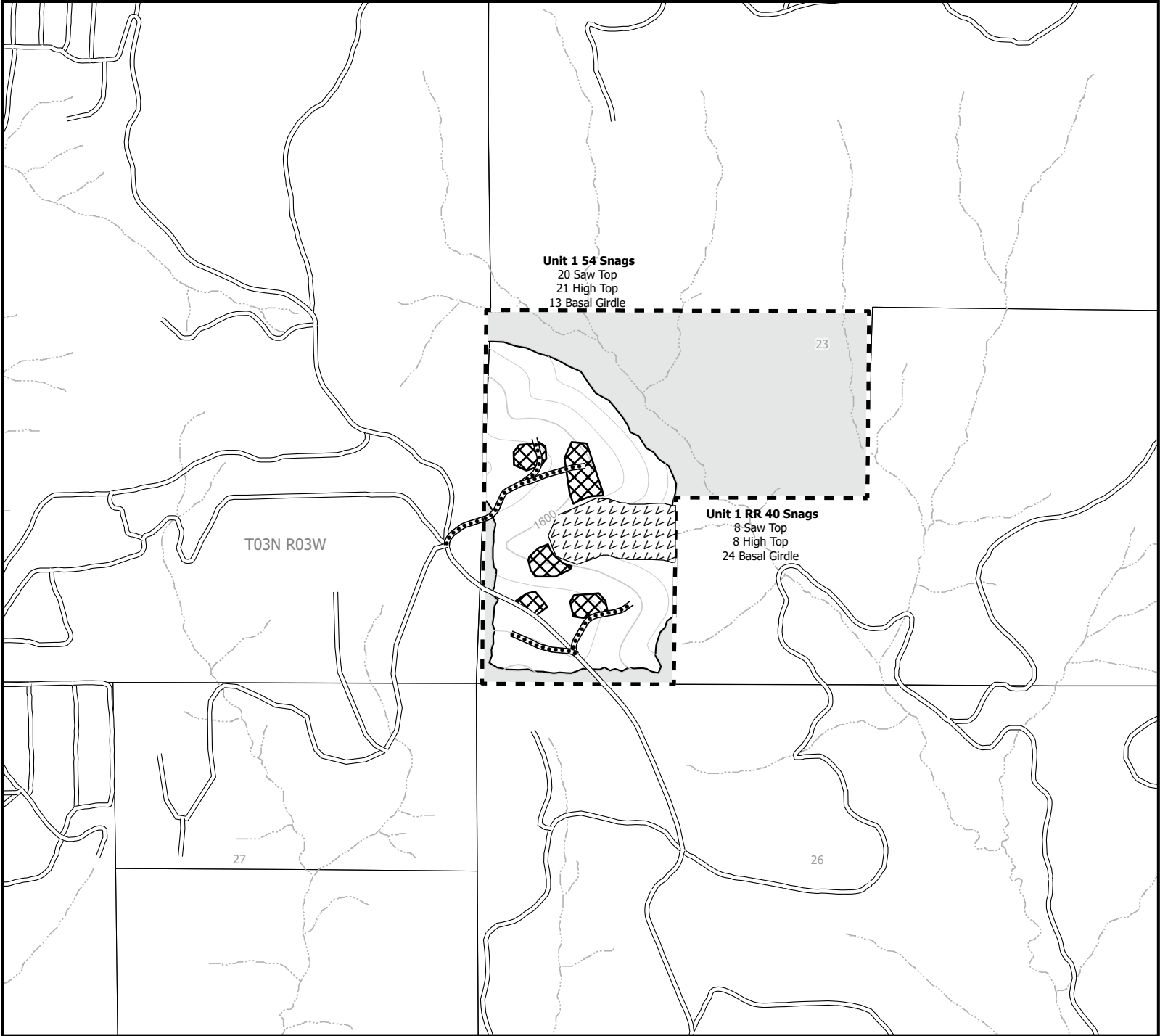


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
COARSE WOODY DEBRIS MAP

Contract No. ORN04-TS-2026.0402
Pumpkin Pi Timber Sale
Exhibit F
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7/15/2026

T. 3N. R. 3W, Section 23 W. M.



Unit 1 Total Snags: 54
Unit 1 Saw Top: 20
Unit 1 High Girdle: 21
Unit 1 Basal Girdle: 13
Unit 1 RR Total Snags: 40
Unit 1 RR Saw Top: 8
Unit 1 RR High Girdle: 8
Unit 1 RR Basal Girdle: 24

0 500 1,000 2,000 3,000
Feet

- | | |
|------------------|------------------|
| Contract Area | Riparian Reserve |
| Reserve Area | Road - Construct |
| Partial Cut Area | Existing Road |
| Gap | Streams |

Contour Interval: 40 feet

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.
Prepared by: Ryan Chen

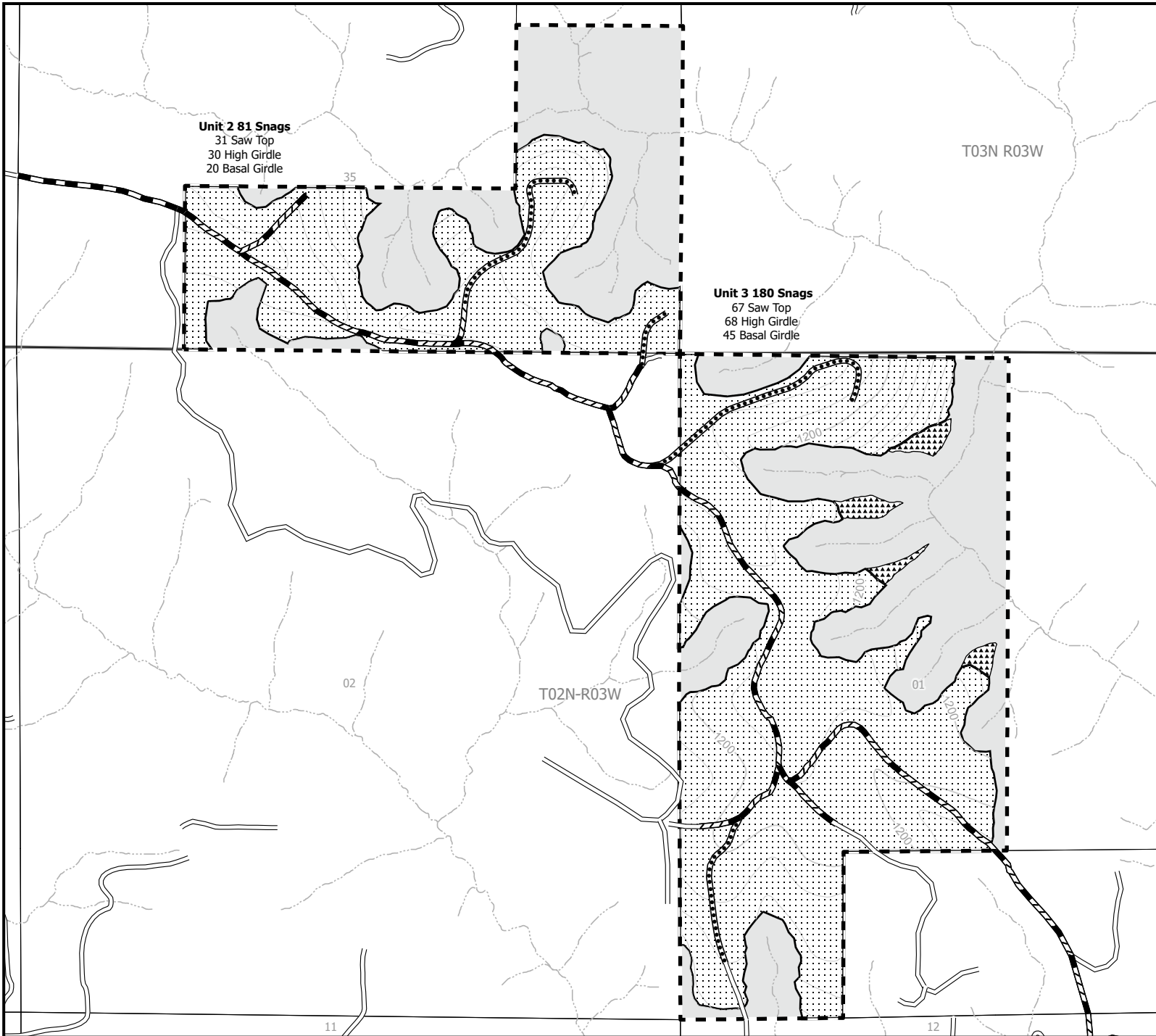


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
COARSE WOODY DEBRIS MAP

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T. 3N. R. 3W, Section 35 W. M.; T. 2N. R. 3W, Section 01 W. M.



Unit 2 Total Snags: 81
Unit 2 Saw Top: 31
Unit 2 High Girdle: 30
Unit 2 Basal Girdle: 20
Unit 3 Total Snags: 180
Unit 3 Snags in Regen Cut Area: 135
Unit 3 Snags in Boundary Skip: 45
Unit 3 Saw Top: 67
Unit 3 High Girdle: 68
Unit 3 Basal Girdle: 45

Contour Interval: 40 feet

0 550 1,100 2,200 3,300 Feet

- | | |
|----------------|------------------|
| Contract Area | Road - Construct |
| Reserve Area | Road - Improve |
| Regen Cut Area | Road - Renovate |
| Boundary Skip | Existing Road |
| | Streams |

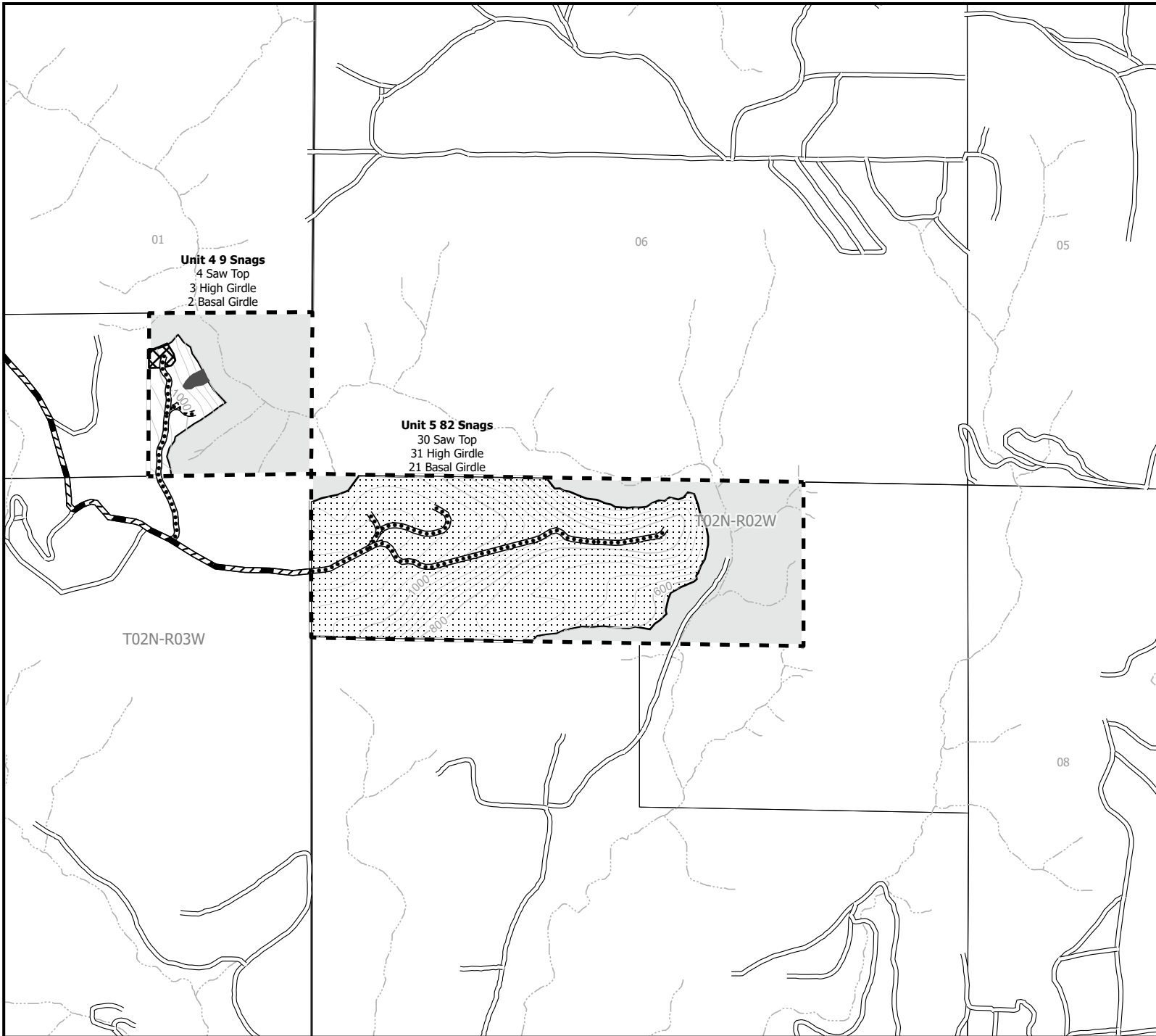


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
COARSE WOODY DEBRIS MAP

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Pumpkin Pi Timber Sale
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T. 2N. R. 3W, Section 01 W. M.; T. 2N. R. 2W, Section 07 W. M.



Unit 4 Total Snags: 9
Unit 4 Saw Top: 4
Unit 4 High Girdle: 3
Unit 4 Basal Girdle: 2
Unit 5 Total Snags: 82
Unit 5 Saw Top: 30
Unit 5 High Girdle: 31
Unit 5 Basal Girdle: 21

Contour Interval: 40 feet

0 550 1,100 2,200 3,300 Feet

- | | |
|------------------|------------------|
| Contract Area | Road - Construct |
| Reserve Area | Road - Improve |
| Partial Cut Area | Existing Road |
| Regen Cut Area | Streams |
| Gap | |
| Skip | |



**United States
Department of the Interior
Bureau of Land Management**

Timber Appraisal

Sale Name:	Pumpkin Pi	Sale Date:	Wednesday, August 19, 2026
BLM District:	NW Oregon DO	Unit of Measure:	16' MBF
Contract #:	ORN04-TS-2026.0402	Contract Term:	48 months
Sale Type:	Advertised	Contract Mechanism:	5450-003
		Lump Sum Sale of Timber and other Wood Products	

Content

Timber Appraisal Summary
Stumpage Summary
Unit Summary
Stump to Truck
Transportation
Engineering Allowances
Other Allowances

Prepared By: Hadermann, Karissa N - 7/14/2026

Approved By: Rainey, Matthew D - 7/14/2026

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Washington	2N	2W	7	NW¼NE¼, N½NW¼	Willamette
O&C	Washington	2N	3W	1	Lot 2, Lot 3, S½ NW¼, N½SW¼, SW¼SW¼, SE¼SE¼	Willamette
O&C	Washington	3N	3W	23	W½SW¼	Willamette
O&C	Washington	3N	3W	35	SE¼SW¼, NE¼SE¼, S½SE¼	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	21,214.0	22,096.0	22,201.0	144,447	2,010	20,621
Bigleaf Maple	1,225.0	1,771.0	1,776.0	13,953	8,531	6,382
Red Alder	816.0	1,126.0	1,126.0	13,678	7,037	4,888
Western Redcedar	205.0	219.0	219.0	3,541	90	1,637
Western Hemlock	17.0	18.0	18.0	529	0	265
Totals	23,477.0	25,230.0	25,340.0	176,148	17,668	33,793

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
332.0	63.0	7.0	402.0	58.4

Logging Costs

Stump to Truck	\$2,261,077.94
Transportation	\$1,675,070.00
Road Construction	\$1,065,201.17
Maintenance/Rockwear	\$144,328.08
Road Use	\$0.00
Other Allowances	\$174,450.00
Total:	\$5,320,127.19
Total Logging Cost per MBF:	\$226.61

Utilization Centers

Location	Distance	% of Net Volume
Mollala	55.0 miles	50%
Gaston, OR	25.0 miles	38%
Longview, WA	55.0 miles	12%

Profit & Risk

Profit	11%
Risk	1%
Total Profit & Risk	12%

Tract Features

Quadratic Mean DBH	20.7 in
Average GM Log	131 bf
Average Volume per Acre	58.4 mbf
Recovery	93%
<u>Net MBF volume:</u>	
Green	23,477.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	82%
Average Yarding Slope	25%
Average Yarding Distance	600 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	18%
Average Yarding Slope	60%
Average Yarding Distance	400 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	0%
Average Yarding Slope	0%
Average Yarding Distance	0 ft

Cruise

Cruise Completed	April 2026
Cruised By	NWO Cruisers
Cruise Method	
Regen variable plot 40 BAF, Thinning variable plot 20 BAF, 100% Private timber	

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Stumpage Adjustment	Appraised Price/MBF	Appraised Value (\$)
Douglas Fir	20,621	21,214.0	\$688.44	\$82.61	\$226.61	\$0.00	(\$1.79)	\$377.40	\$8,006,163.60
Bigleaf Maple	6,382	1,225.0	\$246.22	\$29.55	\$226.61	\$0.00	\$0.00	\$24.70 *	\$30,257.50
Red Alder	4,888	816.0	\$497.95	\$59.75	\$226.61	\$0.00	(\$0.94)	\$210.70	\$171,931.20
Western Redcedar	1,637	205.0	\$860.12	\$103.21	\$226.61	\$0.00	(\$2.56)	\$527.70	\$108,178.50
Western Hemlock	265	17.0	\$397.03	\$47.64	\$226.61	\$0.00	(\$0.49)	\$122.30	\$2,079.10
Totals	33,793	23,477.0							\$8,318,609.90

* Minimum Stumpage values were used to compute the Appraised Price/MBF (10.00% of Pond Value)

Other Wood Products

Product	Unit of Measure	# of Units	\$/Unit	Appraised Value
Clean Chips	Green Tons	2500	\$0.10	\$250.00
Totals				\$250.00

Total Appraised Value: \$8,318,859.90

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir		2.0%	5.0%	78.0%	14.0%	1.0%	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill		Camp Run
Bigleaf Maple							100.0%

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill		Camp Run
Red Alder							100.0%

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill			Camp Run
Western Redcedar							100.0%

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock					82.0%	18.0%	

Pumpkin Pi**Unit Summary****ORN04-TS-2026.0402****Unit: 1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,533.0	1,597.0	1,597.0	3,912
Red Alder	47.0	57.0	57.0	270
Bigleaf Maple	13.0	26.0	26.0	77
Totals:	1,593.0	1,680.0	1,680.0	4,259

Net Volume/Acre: 29.5 MBF

Regeneration Harvest	0.0
Partial Cut	54.0
Right of Way	0.0
Total Acres:	54.0

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	3,174.0	3,298.0	3,374.0	2,717
Red Alder	418.0	608.0	608.0	2,541
Bigleaf Maple	257.0	448.0	448.0	1,746
Western Redcedar	57.0	63.0	63.0	353
Totals:	3,906.0	4,417.0	4,493.0	7,357

Net Volume/Acre: 50.1 MBF

Regeneration Harvest	78.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	78.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	10,791.0	11,244.0	11,263.0	8,890
Bigleaf Maple	632.0	857.0	860.0	3,015
Red Alder	228.0	300.0	300.0	1,350
Western Redcedar	98.0	103.0	103.0	852
Western Hemlock	12.0	12.0	12.0	183
Totals:	11,761.0	12,516.0	12,538.0	14,290

Net Volume/Acre: 68.0 MBF

Regeneration Harvest	173.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	173.0

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	227.0	237.0	237.0	580
Red Alder	7.0	8.0	8.0	40
Bigleaf Maple	2.0	4.0	4.0	11
Totals:	236.0	249.0	249.0	631

Net Volume/Acre: 26.2 MBF

Regeneration Harvest	0.0
Partial Cut	9.0
Right of Way	0.0
Total Acres:	9.0

Unit: 5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	5,052.0	5,265.0	5,274.0	4,162
Bigleaf Maple	295.0	401.0	403.0	1,411
Red Alder	107.0	141.0	141.0	632
Western Redcedar	46.0	49.0	49.0	398
Western Hemlock	5.0	6.0	6.0	82
Totals:	5,505.0	5,862.0	5,873.0	6,685

Net Volume/Acre: 68.0 MBF

Regeneration Harvest	81.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	81.0

Unit: RW

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	437.0	455.0	456.0	360
Bigleaf Maple	26.0	35.0	35.0	122
Red Alder	9.0	12.0	12.0	55
Western Redcedar	4.0	4.0	4.0	34
Totals:	476.0	506.0	507.0	571

Net Volume/Acre: 68.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	7.0
Total Acres:	7.0

Comments:

Net volume changed on maple to match sale total on cruise report. Species totals adjusted nominally to accommodate rounding discrepancies and to match sale totals.

Cruised acres differ from those in contract due to reserve clumps being removed from cruised acres.

Total Stump To Truck	Net Volume	\$/MBF
\$2,261,077.94	23,477.0	\$96.31

Stump to Truck: Falling, Bucking, Yarding, & Loading

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	GM MBF	93.0	\$178.20	\$16,572.60	Cable Thinning - 8 loads/day at 5 MBF per load
Cable: Medium Yarder	GM MBF	4,426.0	\$164.02	\$725,952.52	Cable Regen - 8 loads/day at 5 MBF per load
Shovel	GM MBF	1,836.0	\$86.20	\$158,263.20	Ground Thinning - 10 loads/day at 5 MBF per load
Shovel	GM MBF	18,875.0	\$71.84	\$1,355,980.00	Ground Regen - 12 loads/day at 5 MBF per load
Shovel	GM MBF	93.0	\$46.34	\$4,309.62	Private RW, 20 loads/day at 5 MBF per load
Subtotal				\$2,261,077.94	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Subtotal				\$0.00	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Subtotal				\$0.00	

Total	Net Volume	\$/MBF
\$1,675,070.00	23,477.0	\$71.35

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Longview, WA	55.0	Hardwoods, cedar	GM MBF	3,116.0	\$87.50	\$272,650.00	12%
Mollala	55.0	Oversized conifers	GM MBF	12,532.0	\$77.50	\$971,230.00	50%
Gaston, OR	25.0	Conifers	GM MBF	9,582.0	\$45.00	\$431,190.00	38%

Comments:

Longview: 3.5 hrs roundtrip at \$125/hr, 5 MBF per load

Gaston: 1.8 hrs roundtrip at \$125/hr, 5 MBF per load

Mollala: 3.1 hrs roundtrip at \$125/hr, 5 MBF per load

Engineering Allowances

Total	Net Volume	\$/MBF
\$1,209,529.25	23,477.0	\$51.52

Cost Item	Total Cost
Road Construction:	\$1,065,201.17
Road Maintenance/Rockwear:	\$144,328.08
Road Use Fees:	\$0.00

Comments:

For additional details, see engineering appraisal.

Total	Net Volume	\$/MBF
\$174,450.00	23,477.0	\$7.43

Environmental Protection

Cost item	Total Cost
Machine Washing	\$400.00
Snag Creation	\$62,150.00
Subtotal	\$62,550.00

Logging

Cost item	Total Cost
Flagging	\$2,100.00
Subtotal	\$2,100.00

Slash Disposal & Site Prep

Cost item	Total Cost
Slash Disposal	\$109,800.00
Subtotal	\$109,800.00

Comments:

PUMPKIN PI TIMBER SALE CWD APPRAISAL

Treatment Type Quantity 2026 Price Total

Saw Top 160 \$200.00 \$32,000.00

High Girdle 161 \$125.00 \$20,125.00

Basal Girdle 125 \$35.00 \$4,375.00

Fell 0 \$40.00 \$0.00

Total: 446 \$56,500.00

Snag-Only Total: 446

Snag-Only Cost: \$56,500.00

+ 10% Admin fee: \$5,650.00

Total CWD Cost \$62,150.00

SLASH DISPOSAL APPRAISAL WORKSHEET

Sale Name: Pumpkin PI TS Tract #:

Acres:

Appraiser: Schade Appraisal Date: 5/26/2026

FUELS ALLOWANCE SUMMARY

("Y" under the column labeled "C1?" indicates purchaser will have the option to contribute in lieu of performance)

UNIT #	Treatment Type	Quantity	Measure	Rate	C1?	Total
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Sec 23	Landing pile and cover	3 acres		\$125.00	N	\$375.00
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Hand pile and cover	0 acres			\$-	N	\$-
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Machine Pile and Cover	5 acres			\$450.00	N	\$2,250.00
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Landing Pile Burn	3 acres			\$125.00	N	\$375.00
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Handpile Burn	0 acres			\$-	N	\$-
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Machine Pile Burn	5 acres			\$125.00	N	\$625.00
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Slashing - L1	0 acres			\$-	N	\$-
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\$3,625.00

Sec 35	Landing pile and cover	2 acres		\$125.00	N	\$250.00
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Hand pile and cover	0 acres			\$-	N	\$-
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Machine Pile and Cover	48 acres			\$400.00	N	\$19,200.00
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Landing Pile Burn	2 acres			\$125.00	N	\$250.00
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Handpile Burn	0 acres			N	\$-	
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Machine Pile Burn	48 acres			\$125.00	N	\$6,000.00
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Slashing - L1	0 acres			N	\$-	
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\$25,700.00

Sec. 1	Landing pile and cover	3 acres		\$125.00	N	\$375.00
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Hand pile and cover	0 acres			\$-	N	\$-
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Machine Pile and Cover	118 acres			\$400.00	N	\$47,200.00
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Landing Pile Burn	3 acres			\$125.00	N	\$375.00
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Handpile Burn	0 acres			\$-	N	\$-
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Machine Pile Burn	118 acres			\$125.00	N	\$14,750.00
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Slashing - L1	0 acres			\$-	N	\$-
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\$62,700.00

Sec. 13	Landing pile and cover	6 acres		\$125.00	N	\$750.00
---------	------------------------	---------	--	----------	---	----------

Hand pile and cover	0 acres			\$-	N	\$-
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Machine Pile and Cover	27 acres			\$400.00	N	\$10,800.00
------------------------	----------	--	--	----------	---	-------------

Landing Pile Burn	6 acres			\$125.00	N	\$750.00
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Handpile Burn	0 acres			\$-	N	\$-
---------------	---------	--	--	-----	---	-----

Machine Pile Burn	27 acres			\$125.00	N	\$3,375.00
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Slashing - L1	0 acres			\$-	N	\$-
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\$15,675.00

All Units	Landing pile and cover	0 acres		\$-	N	
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Hand pile and cover	0 acres			\$-	N	
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Mastication	0 acres			\$-	N	\$-
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Machine Pile and Cover	0 acres			\$-	N	
------------------------	---------	--	--	-----	---	--

Landing Pile Burn	0 acres			\$-	N	
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Handpile Burn	0 acres			\$-	N	
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Machine Pile Burn	0 acres			\$-	N	
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Slashing - L1	6 acres			\$350.00	N	\$2,100.00
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\$2,100.00

Total \$109,800.00

Remarks: No Buy-out offered

Apraisal Includes 218 Acres of fuels reduction.

198 acres machine piling, 14 acres landing piling, and 6 acres slashing

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 8.0.0.34

Updated: 11/4/2022

Summary of All Roads and Projects

T.S. Contract Name: Pumpkin Pi Tract No: ORN04-TS-2026.0402 Sale Date:

Prepared by: abettis Ph: 5038012024 Print Date: 4/30/2026 12:54:56 PM

Construction: 144.47 sta

Improve: 0.00 sta Renov: 182.80 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 27.26 acres	\$101,960.20
300 Excavation: 20903 cy	\$126,569.42
Haul < 500 ft: 48145 sta-yds	
Haul > 500 ft: 4935 yd-mi	
400 Drainage:	\$71,059.46
Culvert: 0.00 lf	DownSpout: 40.00 lf
PolyPipe: 1,260.00 lf	
500 Renovation:	\$16,737.62
Blading 3.16 mi	
700-1200 Surfacing:	\$711,215.73
Commercial Quarry Name: 6" Jaw Commercial	17,601.00 LCY
Commercial Quarry Name: 1.5" Cap Commerical	760.00 LCY
Commercial Quarry Name: 1.5" Bed Commercial	485.00 LCY
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 2.97 acres	\$2,217.62
Includes Small Quantity Factor of 1.42	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$26,021.28
Mobilization: Const. \$7,860.26 Surf. \$1,559.58.....	\$9,419.84
Quarry Development:	\$0.00

Total: 23,477 mbf @ \$45.372/mbf =
\$1,065,201.17

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are loose cubic yards.

Sale: Pumpkin Pi
 Sale Date:
 Prep. By : abettis
 Tract No: ORN04-TS-2026.0402

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1.1) Road Use - Amortization: \$0.00/23477 MBF = \$0/MBF

Road Maintenance Obligation:

(2.1) BLM Maintenance		\$0.00
(2.2) BLM Rockwear	\$34,659.45	
(5.1) Purchaser Maintenance Rockwear	\$0.00	
Total Rockwear Payable to BLM		\$34,659.45
(3.1) 3rd Party Maintenance		\$0.00
(3.2) 3rd Party Rockwear		\$0.00
(4.1) Other Maintenance Payments		\$0.00
Total Maintenance Fee Obligation (2.1-5.1)		\$34,659.45

Purchaser Maintenance Allowances:

(5.2A) Move In		\$4,269.30
(5.2B) Culverts, Catch Basins, Downspouts		\$3,093.84
(5.2C) Grading, Ditching		\$4,553.74
(5.2D) Slide Removal and Slump Repair		\$3,356.40
(5.2E) Dust Palliative (Water)		\$0.00
(5.2F) Surface Repair (Aggregate)		\$90,728.76
(5.2G) Other		\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)		106,002.03

(2.1-5.2G) Cost (\$34,659.45 + 106,002.03) = \$140,661.48		
Cost/MBF 140661.48 / 23477 MBF =		\$5.99/MBF

(5.2H) Decommissioning		\$3,666.60
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(5.2H) Cost/MBF \$3,666.60/23477 MBF =		\$0.16/MBF
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(2.1-5.2H) Cost (\$34,659.45 + \$106,002.03 + \$3,666.60) = \$144,328.08

Total Cost/MBF (Excluding Road Use) \$144,328.08/23477 MBF =		\$6.15/MBF
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