



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Northwest Oregon District Office
1717 Fabry Road SE, Salem, Oregon 97306
<http://www.blm.gov>



Date: August 20, 2018
Sale Name: Super Cooper
Contract No.: ORN04-TS-2018.0403
Sale Date: August 22, 2018

CORRECTION NOTICE

The Timber Sale Contract Special Provisions sections 42.bb. and 42.ee. have been corrected to include authorized use of the Bureau of Land Management (BLM) controlled road 4-7-1.4 (Eastline Quarry Road) and Round-About, and the entire length of the Hampton controlled road 4-7-20.1, Segment B4. The total mileage of BLM controlled roads authorized for use in section 42.cc. has also been corrected to thirty-two (32) miles.

The Exhibit E Maintenance and Access Map, page 5 has been corrected to mark 4-7-1.4 (Eastline Quarry Road) as a BLM controlled road with purchaser maintenance.

The total cubic yards of surface repair aggregate material and the referenced Timber Sale Contract Special Provisions section were incorrect on the supplemental Road Package Exhibit D, Section 3102, and have been corrected as shown below.

The bid deposit required was listed correctly and remains unchanged.

Exhibit D, Section 3102:

The Purchaser shall furnish and place 1100 cu.yds. of aggregate conforming to the requirements in Sections 700 and 1200 of Exhibit C of this contract on the roadway at locations and in the amounts designated by the Authorized Officer.

800 cu.yds. - To be placed on BLM controlled roads as directed by Authorized Officer (maintenance rock: Section 42.ii.).

300 cu.yds. - To be placed on non-BLM controlled roads as directed by Authorized Officer (maintenance rock: Section 42.ii.).

If you would like a new Prospectus or Road Package containing these updates, then please contact the Northwest District office at 503-375-5646 or the Tillamook Field Office at 503-815-1100.

If you have any questions please contact Brian Christensen either by email at bchristensen@blm.gov or by phone at 503-815-1119.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Tillamook Field Office
4610 Third Street
Tillamook, Oregon 97141

Super Cooper Timber Sale
ORN04-TS-2018.0403
Date: August 20, 2018

CORRECTED 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 TILLAMOOK FIELD 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, attached. Written and oral bids will be received by the District Manager, or his 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 22, 2018.

THIS TIMBER SALE NOTICE does not constitute the decision document for purposes of protest and appeal of a forest management decision. Consistent with 43 CFR Subpart 5003-Administrative Remedies, the notice of a timber sale, when published as a legal ad in a newspaper of general circulation shall constitute the decision document for purposes of protest and appeal. Protests may be filed with the Contracting Officer within 15 days of the publication of the aforementioned decision document in the newspaper. It is anticipated that the decision document will be published in the Yamhill Valley News-Register on or about July 24, 2018. BLM does not warrant publication on this exact date. All parties considering protest of the timber sale decision document are encouraged to review the aforementioned newspaper(s) to ensure accurate knowledge of the exact publication date.

AN ENVIRONMENTAL ASSESSMENT was prepared for each 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.

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/or/resources/forests/index.php>. The prospectus includes maps and tables that cannot be made Section 508 compliant. For help with its data or information, please contact the Tillamook Field Office at 503-815-1100.

Attachments:
Form 5450-17
Form 5430-11
Form 5440-9

TIMBER SALE NOTICE

NORTHWEST OREGON DISTRICT
TILLAMOOK FIELD OFFICE
COLUMBIA MASTER UNIT

Sale Date: August 22, 2018

CONTRACT NO.: ORN04-TS-2018.0403, Super Cooper Timber Sale, Lump Sum
TILLAMOOK AND YAMHILL COUNTIES, OREGON: O&C: **ORAL AUCTION:**
BID DEPOSIT REQUIRED: **\$278,900.00**

All timber designated for cutting on: SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$, Sec. 33; NE $\frac{1}{4}$ NW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$, Sec. 34; SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 35; SW $\frac{1}{4}$, Sec. 36, T. 3 S., R. 7 W. and W $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, Sec. 2; NE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 3; N $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 4; SE $\frac{1}{4}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 17; E $\frac{1}{2}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 19; SE $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 21, T. 4 S., R. 7 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.

Approx. No. Merchantable Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Volume Times Appraised Price
18,541	6,799	Douglas-fir	8,358	\$332.30	\$2,777,363.40
254	38	Western Hemlock	48	\$174.00	\$8,352.00
280	13	Red Alder	19	\$160.50	\$3,049.50
19,075	6,850	Totals	8,425		\$2,788,764.90

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

CRUISE INFORMATION: The timber volumes for the partial cut units were based on a variable plot cruise for estimating the board foot volume of trees. Plots were measured using a 20 basal area factor (BAF) for partial cut units. The Right-of-Way volume is based on a 100% cruise for estimating the board foot volume of trees. None of the total sale volume is salvage material. For merchantable Douglas-fir trees the average DBHOB is 18.6 inches; the average gross merchantable log contains 86 bf; the total gross volume is approximately 8,770 MBF; and 95% recovery is expected.

CUTTING AREA: Seven (7) units totaling approximately four hundred two (402) acres shall be partial cut. In addition, approximately seven (7) acres of right-of-way shall be cut. Acres shown on Exhibit A have been computed using a Trimble Pro XH Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

DURATION OF CONTRACT: Contract length will be 36 months for cutting and removal of timber.

ADDITIONAL INFORMATION: This contract includes an additional special provision to ensure the Purchaser understands he/she is required to conduct all operations in compliance with Contract Section 12

(Purchaser's Contractual Responsibilities for Liability) and Contract Section 29 (Safety and Health) and the Special Provisions included in Section 42 of this Contract.

NESTUCCA BYWAY PROJECT: There is an ongoing construction project on the Nestucca Byway that may cause increased traffic at times and has some potential for short term closures or delays on the 4-7-27 (Bald Mountain) Road.

CUTTING DIAMETER LIMITS (CDL): This timber sale has cut diameter limits in stands eighty (80) years old and older. They range from twenty-three (23) inches to thirty-three (33) inches. All trees over the cut diameter limits have been reserved. However, if needed for safety or operational purposes, the authorized officer may approve them for cutting but they shall remain on site and will not be sold to the purchaser. Unit specific diameter limits are available upon request.

SPECIAL ATTENTION ITEMS:

Sec. 41.e. Yellow painted trees within boundaries of the road right-of-way areas

Sec. 41.f. Seed Trees

Sec. 42.h. Hoag Pass Bridge requirements

Sec. 42.l., 42.m., and 42.mm. OHV trail and OHV Staging area requirements

Sec. 42.s. Marbled Murrelet Daily Time Restriction Areas

Sec. 42.f – 42.g. and 42.j. Requirements/restrictions related to Bible Creek Road

Sec. 42.oo. Creation of Coarse Woody Debris

OPTIONAL CONTRIBUTION (Sec. 42.pp.): The Purchaser will have the option of performing Coarse Woody Debris or contributing fifty-three thousand four hundred seventy-two and 64/100 dollars (\$53,472.64) in lieu thereof. The option must be declared *prior* to contract execution.

LOCATION: The contract area is located approximately fifteen (15) air miles west of Carlton, Oregon. Starting on Highway 47 in Carlton, turn west onto Meadow Lake Road, then turn south onto Bald Mountain Access Road. Follow Bald Mountain Access Road approximately seven and three-tenths (7.3) miles and turn north onto Hoag Pass Road (3-7-28). Follow Hoag Pass Road approximately six-tenths (0.6) miles until you find Unit 4 in the sale area, then consult a project location map.

ACCESS AND ROAD MAINTENANCE: Access is provided by Bureau of Land Management (BLM), Oregon State Department of Forestry (ODF), Hampton Resources, Inc., Stimson Lumber Company, and U.S. Forest Service controlled roads. All roads (except Road 3-6-13.0 (Nestucca River Access Road), 4-7-22.0 (Bible Creek Road), and 4-7-27.0 (Bald Mountain Road)) used in conjunction with this sale will be maintained by the Purchaser. Purchaser will be required to pay a rock wear obligation of nine thousand two hundred fifteen and 05/100 dollars (\$9,215.05) to the Government and spread **800 CY** crushed rock on all (BLM) Purchaser maintained roads for maintenance.

BLM controlled roads 4-7-22.0 (Bible Creek Road), 4-7-27 (Bald Mountain Access Road), and 3-6-13.0 (Nestucca Access Road) used in conjunction with this sale will be maintained by BLM and will require payment of a road maintenance fee by the Purchaser to the Government in the amount of thirty-four thousand one hundred eighty-one and 37/100 dollars (\$34,181.37) for the appraised haul route towards Willamina, OR for Douglas-fir and Tillamook, OR (via Bible Creek/Nestucca Access Roads) for Hemlock and Alder.

In use of Oregon State Department of Forestry (ODF) controlled roads, under Cooperative Right-of-Way Agreement (OR056542) and as shown on Exhibit E, the Purchaser will be required to enter into a license agreement which requires: (a) Purchaser maintenance of all ODF controlled roads, (b) Purchaser pay a rockwear fee of one hundred forty-six and 65/100 dollars (\$146.65), and (d) Purchaser provide proof of insurance with limits of \$1,000,000/ \$1,000,000/ \$1,000,000 and performance bond of \$1,000. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.

In use of Hampton Resources, Inc. controlled roads, under Right-of-Way Agreement No. S-499 (OR044569) and as shown on Exhibit E, the Purchaser will be required to enter into a license agreement which requires: (a) Purchaser maintenance of all Hampton controlled roads, (b) Purchaser pay a rockwear fee of sixty-four and 51/100 dollars (\$64.51), and (d) Purchaser provide proof of insurance with limits of \$1,000,000/ \$1,000,000/ \$1,000,000 and a performance bond of \$1,000. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.

In use of Hampton Resources, Inc. controlled roads, under Right-of-Way Agreement No. S-700 (OR044680) and as shown on Exhibit E, the Purchaser will be required to enter into a license agreement which requires: (a) Purchaser maintenance of all Hampton controlled roads, (b) Purchaser pay a rockwear fee of twenty-nine and 47/100 dollars (\$29.47), and (d) Purchaser provide proof of insurance with limits of \$1,000,000/ \$1,000,000/ \$1,000,000 and a performance bond of \$1,000. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.

In use of Stimson Lumber Company controlled roads, under Right-of-Way Agreement No. S-796 (OR045077) and as shown on Exhibit E, the Purchaser will be required to enter into a license agreement which requires: (a) Purchaser maintenance of all Stimson controlled roads, (b) Purchaser pay a road use fee of one hundred five and 12/100 dollars (\$105.12), (c) Purchaser pay a rockwear fee of three hundred fifty-five and 66/100 dollars (\$355.66), (d) Purchaser agrees to purchase 1.1 MBF merchantable timber @ \$416.99/MBF, which equals four hundred fifty-eight and 69/100 dollars (\$458.69), for the removal of timber in right-of-ways, and (e) Purchaser provide proof of insurance with limits of \$1,000,000/ \$1,000,000/ \$1,000,000 and a performance bond of \$1,000. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.

In use of U.S. Forest Service (USFS) controlled roads, as shown on Exhibit E, the Purchaser will comply with the Road Use Permit which requires: (a) Purchaser maintenance of all USFS controlled roads, and (b) Purchaser provide proof of insurance with limits of \$1,000,000/ \$1,000,000/ \$1,000,000 and a performance bond of \$3,000. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the approved road use permit.

All Rockwear fees and BLM Maintenance fees have been calculated using estimated timber volumes. Additional fees for road rockwear and BLM Maintenance will be calculated at the agreed upon rates (in the license agreement) for additional timber volume and be charged to Purchaser.

Purchaser maintenance shall include frequent blading and shaping of road surface; ditch, culvert, and catch basin cleaning; removal of minor slides and other debris. Roads shall be left in a condition to withstand adverse weather at the end of the seasonal operations. It shall also include the spreading of **300 CY** Crushed Rock on all Non-BLM roads as needed and instructed by Authorized Officer.

Alternate access and extended season haul on some roads may be available but will require a contract modification. Contact Engineers at the Tillamook Field Office for more detailed information.

ROAD CONSTRUCTION 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:**

Road Spur A: 238 feet, 14-foot outsloped subgrade, Natural surfacing, Clearing and Grubbing, and Landing Construction as marked in field.

Road Spur B: 226 feet, 14-foot subgrade, Natural surfacing, Clearing and Grubbing, and Landing Construction as marked in field.

Road Spur C: 158 feet, 14-foot subgrade, Natural surfacing, Clearing and Grubbing, and Landing Construction as marked in field.

Road Spur D: 180 feet, 14-foot subgrade, Natural surfacing, Clearing and Grubbing, and Landing Construction as marked in field.

Road Spur E: 376 feet, 14-foot subgrade, Natural surfacing, Clearing and Grubbing, and Landing Construction as marked in field.

Round-About: 270 feet, 14-foot subgrade (with curve widening), Clearing and Grubbing, and Place rock as aprons to Bible Creek Road as directed by Authorized Officer.

Road 3-7-33.4: 10+13 Stations, Clearing and Grubbing, Construct Turnaround and Landing as marked, and Spread/Place Rock types and quantities as directed by rock sheets.

Road 3-7-33.5: 6+61 Stations, Clearing and Grubbing, Construct radius curve with widening as marked, and Construct Turnaround and Landing as directed by Authorized Officer.

Road 3-7-34.1 TIE: 1+00 Stations, Clearing and Grubbing, Spread a 4" Lift Crushed Rock over Pit-Run Fill as marked in field and directed by Authorized Officer, Install culvert as listed in the 4-7-3.1 Road Notes.

Road 4-7-2.6 (7+65 – 9+00): 1+35 Stations, Clearing and Grubbing and Construct Landing as marked in field.

Road 4-7-3.8: 20+15 Stations, Clearing and Grubbing, Continue radius curve from the 4-7-3.2 between Stations 0+00 - 0+30, and Construct Turnaround and Landing as marked in field.

Road 4-7-19.11: 7+55 Stations, Clearing and Grubbing, Construct Turnaround as marked in field and Drift excess material to flat area to Construct Landing as marked in field.

Road 4-7-19.12: 11+73 Stations, Clearing and Grubbing, Construct Turnaround and Landing as marked in field.

2. **Renovation:**

Road 3-7-28 East: 0.843 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Stabilize with RipRap as directed by Authorized Officer, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Construct one sediment catch basin sediment catch basin w/ straw bale in ditchline and waste area as marked in field and directed by Authorized Officer, Install and replace culverts, Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 3-7-28 West: 1.876 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Stabilize/Dissipate Culvert outlet with RipRap as directed by Authorized Officer, Ditchline and fill armor as marked and directed by Authorized Officer, Construct and Re-establish ditchlines as directed by Authorized Officer, Construct ditchouts and turnouts as needed, Remove bank sloughs, Construct five sediment catch basins w/ straw bales in ditchline and waste area as marked in field

and directed by Authorized Officer, Widen Road, Install and replace culverts and downspouts as marked in field, Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 3-7-31.0: 0.900 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Armor Ditchline as marked in field and directed by Authorized Officer, Construct ditchouts, lead-off ditchouts, and turnouts as needed, Remove bank sloughs as directed by Authorized Officer, Construct one sediment catch basin w/ straw bale in ditchline as marked in field and directed by Authorized Officer, Remove Existing Waterbars, Construct waste area as directed by Authorized Officer, Replace culverts, Install downspouts and Inlet markers as marked in field and directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 3-7-33.1: 0.048 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct Waterbar and waste area as marked and field and directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 3-7-34.0: 0.684 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Remove Existing Waterbars as directed by Authorized Officer, Stabilize/Dissipate Culvert outlet with RipRap as directed by Authorized Officer, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Remove bank sloughs as directed by Authorized Officer, Construct one sediment catch basin w/ straw bale in ditchline as marked in field and directed by Authorized Officer, Construct waste areas as directed by Authorized Officer, Widen Road and construct landing and turnaround as marked in field, Install and replace culverts as marked in field, Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 3-7-35.0: 0.736 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Spread a 4" Lift Crushed Rock as directed by Authorized Officer, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Remove bank sloughs as directed by Authorized Officer, Construct lead-off ditches at culvert outlets, Construct waste area as directed by Authorized Officer, Install culverts, Install Inlet markers as directed by Authorized Officer, Construct Landing as marked in field, and Spread/Place Rock types and quantities as marked and directed in Rock Sheets.

Road 3-7-36.1: 0.187 miles, Blade and Compact, Clearing and Grubbing, Brushing, Spread a 4" List of Crushed Rock as marked in field, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Construct Turnaround as marked in field, Remove existing waterbars and old culvert, Install 2 culverts (1 is in existing ditchline for OHV Trail Access) and replace 1 culvert, Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as marked and directed in rock sheets.

Road 3-7-36.2: 0.220 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Construct Waste area as marked in field, Remove existing waterbars, Install and Replace culverts, Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 3-7-36.9: 2+30 Stations, Blade and Compact Surface, Brushing, Ditchline Re-establishment, Construct ditchouts as needed, Remove existing Waterbars and Barrier, and Spread/Place Rock types and quantities as marked and directed in rock sheets. Road is to be restored to Motorcycle traffic only, when decommissioning.

Road 4-7-1.0 (MP 0.000 - 2.821): 2.851 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Place RipRap for Slope Armor, Culvert protection and dissipation as marked in field, Ditchline Re-establishment, Construct ditchouts, lead-off ditches, and turnouts as needed and marked in field, Remove Bank Slough as needed, Construct four sediment catch basins w/ straw bales in ditchline as marked in field, Construct waste areas and driveable waterbars in ditchline for

OHV Trail access as marked in field, Install and Replace culverts, Install downspout and Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 4-7-2.3: 0.585 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct ditchouts as needed, Construct waste area as directed by Authorized Officer, Remove existing waterbars, Install and replace culverts, Install metal inlet markers and re-use one existing inlet marker, and Spread/Place Rock types and quantities as marked and directed in rock sheets.

Road 4-7-2.4: 0.105 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct Landing as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 4-7-2.5 (0.017 – 0.116): 0.099 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Remove existing waterbars, Install culvert and inlet marker, Construct Turnaround and Landing as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 4-7-3.1 (0.000 - 0.557): 0.557 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Place RipRap as Fill armor and culvert dissipater as marked in field, Ditchline Re-establishment, Construct ditchouts, lead-off ditches, and turnouts as needed and marked in field, Remove Bank Slough as needed, Construct 3 sediment catch basins w/ straw bales in ditchline as marked in field, Construct a Turnaround and waste area as marked in field, Install and replace culverts, Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets,.

Road 4-7-3.2 (0.000 – 0.165): 0.165 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct ditchouts as needed, Remove existing waterbars, Replace culvert, Install Inlet Markers and re-use 1 inlet marker, and Spread/Place Rock types and quantities as marked and directed in rock sheets.

Road 4-7-4.0: 0.115 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Construct ditchouts as needed, Ditchline Re-establishment, and Spread/Place Rock types and quantities as marked and directed in rock sheets.

Road 4-7-4.1: 24+81 Stations, Blade and Compact Surface, Clearing and Grubbing, Brushing, Remove Existing Waterbars, Widen to the right for curve widening by removing berm between Stations 9+20 - 10+83 as marked in field, Construct a Waste Area and Landing as marked in field, and Spread/Place Rock types and quantities as marked and directed in rock sheets.

Road 4-7-4.2: 0.070 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Remove Existing Waterbars, Ditchline Re-establishment, Construct a Turnaround as marked in field, Install Inlet Marker, and Spread/Place Rock types and quantities as marked and directed in rock sheets.

4-7-6.0 East: 0.985 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Place RipRap for Culvert dissipation as marked in field, Construct ditchouts, lead-off ditches, and turnouts as needed and marked in field, Remove Bank Slough as needed, Construct seven sediment catch basins w/ straw bales in ditchline as marked in field, Construct waste areas as marked in field, Install culverts (one is for OHV trail access), replace three culverts (one is in larger fill), Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 4-7-6.0 West: 1.315 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Construct ditchline armor in 2'x 2' excavated ditchline as marked in field and directed by Authorized Officer, Place RipRap for Stabilization Wall and Culvert dissipation as directed by Authorized Officer, Ditchline Re-establishment, Construct ditchouts, lead-off ditches, and turnouts as needed,

Remove bank sloughs as directed by Authorized Officer, Construct one sediment catch basin w/ straw bale in ditchline as marked in field and directed by Authorized Officer, Remove Existing Waterbars, Construct waste areas as directed by Authorized Officer, Install six culverts, replace four culverts (one is in a larger fill), and install two downspouts as marked in field, Install Inlet markers as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 4-7-17.1: 0.109 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Construct Turnouts and Ditchouts as marked in field and directed by Authorized Officer, Ditchline Re-establishment, and Spread/Place Rock types and quantities as specified as marked in field and needed.

Road 4-7-17.3: 0.093 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Construct a turnaround and waste area as marked in field and directed by Authorized Officer, Ditchline Re-establishment, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-19.1: 0.202 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Place rock and non-woven fabric for French drain @ MP 0.202 as directed by Authorized Officer, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Construct a Turnaround as marked in field, Place non-merchantable material between turnaround and stream for vehicular barrier to stream, Install a perforated culvert for free draining fill, Install Inlet marker as directed by Authorized Officer, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-19.3: 7+51 Stations, Blade and Compact Surface, Clearing and Grubbing, Widen to the left for curve widening between Stations 2+00 - 3+85 as marked in field, Ditchline Re-establishment, Construct Waste Area, Landing, and Turnaround as marked in field, Replace culverts, and Install Inlet markers, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-19.4: 0.213 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Construct ditchouts as needed, Ditchline Re-establishment, Construct a Turnaround and Landing as marked in field, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-19.8: 0.112 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct ditchouts as needed, Construct a Waste Area and Landing as marked in field, Install culvert (in Ditchline for skid trail access), Install Inlet Marker, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-19.9: 0.200 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct ditchouts as needed, Construct a Turnaround and Landing as marked in field, Replace culvert and Install Inlet Marker, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-20.1: 0.738 miles, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Construct three sediment catch basins w/ straw bale in ditchline as marked in field and directed by Authorized Officer, Install eight culverts (one is in a log fill and is a medium fill), Install nine Inlet markers, Construct Turnaround as marked in field and directed by Authorized Officer, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-21.0: 0.040 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Construct ditchouts as needed, Cut and replace/spread bituminous surfacing over culvert replacement area at MP 0.001 (approx. 4' wide x 32' long, 4.8 tons asphalt), Replace culvert, and Spread/Place Rock types and quantities as directed in rock sheets

Road 4-7-21.5: 0.181 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Construct ditchouts as needed, Ditchline Re-establishment, Remove Existing Waterbars, Install Inlet Marker, Spread/Place Rock types and quantities as marked in field.

Road 4-7-21.7: 3+78 Stations, Blade and Compact Surface, Clearing and Grubbing, Brushing, and Spread/Place Rock types and quantities as marked in field.

Road USFS 1400: 3.120 miles, Blade and Compact Surface, Clearing and Grubbing, Brushing, Place RipRap to Stabilize/Dissipate culvert outlets as marked in field, Ditchline Re-establishment, Construct ditchouts and turnouts as needed, Replace four culverts (one is in a large fill), Install Inlet markers, and Spread/Place Rock types and quantities as marked in field.

3. Improvement:

Road 3-7-34.1: 0.576 miles, Clearing and Grubbing, Brushing, Stabilize with RipRap as directed by Authorized Officer, Spread an 8" Lift of Pit-Run Capped with a 4" Lift Crushed Rock as marked in field, Remove Tank Trap and fill as marked in field and directed by Authorized Officer, Spread/Place Rock types and quantities as directed in Rock sheets and as marked in field.

Road 3-7-34.3: 3+28 Station, Clearing and Grubbing, Construct radius curve with widening as marked in field, Remove and Reinstall OHV trail signs to coincide with sale activity start and completion, Construct Landing as marked in field, and Spread/Place Rock types and quantities as directed in Rock sheets and as marked in field and directed by Authorized Officer.

Road 4-7-1.0 (2.821 – 2.859): 0.038 miles, Brushing, Spread a 4" Lift Crushed Rock over Pit-Run Fill as marked in field, Construct one sediment catch basin with straw bale in ditchline as marked in field, Spread/Place Rock types and quantities as directed in Rock sheets and as marked in field and directed by Authorized Officer.

Road 4-7-2.5 (0.00 – 0.017): 0.016 miles, Clearing and Grubbing, Brushing, Ditchline Re-establishment, Remove existing waterbars, Curve widening as marked in field, Excavate Lead-off ditch at culvert outlet, Replace culvert, and Re-use existing inlet marker, Spread/Place Rock types and quantities as marked in field.

Road 4-7-2.6 (0+00 - 7+65): 7+65 Stations, Clearing and Grubbing, Construct Turnaround as marked in field, Remove and Reinstall OHV trail signs to coincide with sale activity start and completion, and Restore OHV trail after sale completion, and Spread/Place Rock types and quantities as marked in field.

Road 4-7-3.1 (0.557 – 0.596): 0.039 miles, Clearing and Grubbing, Brushing, Spread a 4" Lift Crushed Rock as marked in field, Re-establish/Lower stream channel after culvert outlet as directed by Authorized Officer, Replace culvert (which is also stream crossing for 3-7-34.1 TIE) as directed by Authorized Officer, Install Inlet Marker, and Spread/Place Rock types and quantities as directed by Authorized Officer.

Road 4-7-3.2 (0.165 – 0.195): 0.030 miles, Clearing and Grubbing, Spread an 8" Lift Pit-Run Rock over Fill as marked in field, Use material from construction of the 4-7-3.8 as fill material to slacken grade between roads, and Construct radius curve.

Road 4-7-3.7: 7+11 Stations, Construct a turnaround and landing as marked.

4. Estimated Quantities:

a. Clearing, Grubbing, and Brushing:

30.8 acres of Clearing and Grubbing

18.4 miles of Brushing

b. Culverts:

2,162 feet of 18 inch Corrugated Plastic Pipe (CPP) – Type S

90 feet of 18 inch Corrugated Plastic Pipe (CPP) – Type C
 648 feet of 24 inch Corrugated Plastic Pipe (CPP) – Type S
 20 feet of 20 inch Corrugated Plastic Pipe (CPP) – Type C
 386 feet of 36 inch Corrugated Plastic Pipe (CPP) – Type S
 40 feet of 12 inch 16 gage Aluminized Steel Perforated Pipe (CMP)
 30 feet of 42 inch 14 gage Aluminized Steel Pipe (CMP)
 Neoprene gaskets and Hugger Bands required on all 42” Pipes.
 111 metal “T-Post” Inlet Markers

c. Aggregate & Asphalt Material:

<u>Quantity</u>	<u>Description</u>
4,910 cubic yards	1-1/2” minus crushed rock – construction rock
210 cubic yards	3” minus crushed rock – construction rock
5,140 cubic yards	Pit-Run –construction rock
10 cubic yards	1-1/2”- 3/4” Drain Rock – construction rock
1,520 cubic yards	1-1/2” minus crushed rock -- Culvert bedding material
800 cubic yards	1-1/2” minus crushed rock – BLM Maintenance rock
300 cubic yards	1-1/2” minus crushed rock – Non-BLM Maintenance rock
265 cubic yards	Riprap – (180 CY Class 3 & 85 CY Class 5)

Rock Source: All Crushed, Drain, and Pit-Run Rock - Commercial

Rock Source: All RipRap Rock – Eastline Quarry as shown on Exhibit C.

OTHER:

Compaction of all final subgrades will be required.

Right of way debris will be disposed of by scattering adjacent to all roads, outside of clearing limits.

All natural surface roads will be water barred and blocked at the end of seasonal operations.

Roads 3-7-33.4, 3-7-33.5, 4-7-2.6 (Sta. 7+65 – 9+00), 4-7-3.8, 4-7-19.11, 4-7-19.12, Spur A, Spur B, Spur C, Spur D, and Spur E, as shown on Exhibit C, will be subsoiled to a depth of 18 inches, slash spread over road prism, water barred, and blocked upon completion of logging. Clearing debris shall be placed on and around the barriers so as to prevent further use of the road by vehicles. Roads 3-7-34.0 (MP 0.523 – 0.684), 3-7-34.3, 3-7-36.9, 4-7-2.6 (Sta. 0+00 – 7+65), 4-7-3.7, 4-7-4.1, 4-7-6.0 West (MP 1.216 – 1.315), 4-7-19.3, and 4-7-21.7 shall be decommissioned as described above (but without the subsoiling). Roads 3-7-31.0, 3-7-33.1, 3-7-34.0 (MP 0.000 – 0.523), 3-7-34.1, 3-7-35.0 (MP 0.114 – 0.736), 3-7-36.1, 3-7-36.2, 4-7-2.3, 4-7-2.4, 4-7-2.5, 4-7-3.2, 4-7-4.0, 4-7-4.2, 4-7-6.0 West (MP 0.000 – 1.216), and 4-7-21.5 will be stabilized by installing drivable waterbars.

Roads that utilized portions of Nestucca OHV trails are to be decommissioned in such a fashion as to preserve the trails, trail signs, trail access, and drainage as directed by the Authorized Officer.

Road segments that are in the Marbled Murrelet Daily Time Restriction Areas (shown on Exhibit A) shall have no activity except haul, between two (2) hours before sunset and two (2) hours after sunrise between April 1 and September 15, both days inclusive, unless otherwise approved by the Authorized Officer.

Grass seeding will be required on all newly disturbed areas. Grass seed will be furnished by the Government.

Straw mulch will be required on all disturbed/seeded soils that are wet and/or within 50 feet each side of “live stream” locations and all disposal sites. Grass straw will be furnished by the Government.

All waste from re-establishing ditchlines on rock surfaced roads shall be bunched and end-hauled to designated waste areas.

All slide removal material shall be end-hauled to designated waste areas.

SEASONAL RESTRICTION MATRIX:

Restricted Times are Shaded

Activity	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16
All Activities, Except Haul, in the Marbled Murrelet Daily Time Restriction Areas (as shown on Exhibit A) between Two (2) Hours Before Sunset and Two (2) Hours After Sunrise																								
Hauling of Timber, Rock, or Large Equipment on the 4-7-27 (Bald Mountain) Road on weekends between Memorial Day and Labor Day																								
Ground-Based Yarding & Harvesting, Road Construction, Road Renovation & Road Decommissioning																								
Cable yarding and haul except from Roads 3-7-31, 4-7-4.1, 4-7-6 East, 4-7-19.1, 4-7-19.3, 4-7-19.4, 4-7-19.8, 4-7-19.9, 4-7-21, 4-7-21 and USFS 1400																								
Cable yarding and haul from Roads 3-7-31, 4-7-4.1, 4-7-6 East, 4-7-19.1, 4-7-19.3, 4-7-19.4, 4-7-19.8, 4-7-19.9, 4-7-21, 4-7-21 and USFS 1400																								
In-Stream Activities																								

TIMBER SALE CONTRACT SPECIAL PROVISIONS

Sec. 41. Timber and Area Reservation Provisions

RESERVED

- a. All timber in the reserve area(s) shown on Exhibit A, and all trees that are painted orange and/or posted, which mark the boundaries of the Sale Areas.
- b. All trees marked with orange paint above and below stump height within the boundaries of the Sale Areas shown on Exhibit A.
- c. All trees other than Douglas-fir in the Sale Areas shown on Exhibit A, except western hemlock in Unit 4 and red alder that has been painted with blue paint above and below stump height.
- d. All existing down logs and snags in the Sale Areas shown on Exhibit A, which do not present a safety hazard as determined by the Authorized Officer. All snags felled 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, and are not included in the timber sale.
- f. Approximately forty (40) Douglas-fir trees marked with orange paint above and below stump height and tagged with yellow metal tags with the words "Seed Tree Do Not Fall" in the Sale Areas shown on Exhibit A.

Sec. 42. 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 he plans 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 he intends 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 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 area, 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. During logging operations, the Purchaser shall keep Bible Creek Road (4-7-22.0), where it passes through the contract area, clear of trees, rock, dirt, and other debris resulting from timber harvest operations. The road shall not be blocked by such operations for more than thirty (30) minutes at a time unless otherwise approved by the Authorized Officer.

g. The Purchaser shall provide two (2) flaggers to control traffic on Bible Creek Road (4-7-22.0), where it passes through the sale area, whenever felling, bucking, or yarding within two (2) tree lengths of the road.

h. Prior to haul across Hoag Pass Bridge (3-7-28 West), the Purchaser shall plug the bridge scuppers (drain holes) and sweep the bridge surface. After haul is complete and before the fall wet season begins, the Purchaser shall sweep the bridge surface again and unplug the bridge scuppers (drain holes).

i. Log trucks hauling on the Nestucca Access Road (3-6-13.0) shall not use compression brakes while passing Alder Glen campground.

j. All trees designated for cutting within the Sale Areas shown on Exhibit A that are within fifty (50) feet of Bible Creek Road (4-7-22.0), shall be cut so that the resulting stumps shall not be higher than eight (8) inches measured from the ground on the uphill side of the trees.

k. 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.

l. The Purchaser shall post "Closed" signs at both ends of all existing OHV Trails and OHV Staging Areas within or near harvest units during active harvest operations.

m. Once logging operations have been completed, the Purchaser shall restore all designated OHV Trails within the Upper Nestucca OHV Trail System shown on Exhibit A, that were affected by the logging operation. Restoration shall include clearing all logging debris over one (1) inch diameter at the large end and repairing any damage that occurred as a result of the logging operation. This work

shall be completed each operating season before the fall wet season begins, as designated by the Authorized Officer.

n. At all landings in the sale areas shown on Exhibit A, all logs more than six (6) inches in diameter at the small end and exceeding six (6) feet in length, except logs sold and removed from the sale area, shall be decked at a location determined by the Authorized Officer.

o. In the Partial Cut Area - Skyline shown on Exhibit A, all yarding shall be done with a skyline or similar cable system equipped with a slack pulling carriage capable of transporting logs completely clear of the ground and capable of yarding one thousand five hundred (1,500) feet slope distance from the landing and at least seventy-five (75) feet laterally from the skyline to the designated sky road and with minimum damage to reserved trees. The carriage shall be capable of being held in position on the skyline during all lateral yarding and shall be able to pass intermediate support jacks as required. The leading end of all logs shall be transported free of the ground during yarding. The rigging of tail or lift trees, intermediate supports and use of tail holds outside the Sale Areas shall be required where necessary to meet this requirement. Skyline corridors shall not exceed twelve (12) feet in width and would be located at least one hundred fifty (150) feet apart at one end of the yarding area. If the skyline must pass through a no-harvest buffer, full suspension will be required within the no-harvest buffer and the skyline would remain stationary after the initial elevation. If trees are cut within the no harvest buffer for operational purposes, they would remain on site.

p. In the Partial Cut Area - Ground Based shown on Exhibit A, all yarding shall be done by equipment operated entirely on designated skid trails approved by the Authorized Officer. The area composed of skid trails and landings shall not exceed twelve (12) percent of the total ground based yarding area. Skid trails shall not exceed fifteen (15) feet in width. Ground-based operations shall be limited to slopes of thirty-five (35) percent or less. Excavation on designated skid trails shall be limited to a maximum cut of one foot unless otherwise approved by the Authorized Officer. All trees that must be removed to facilitate construction of these skid trails shall be felled prior to falling operations in the remainder of this area. 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 would be water barred and blocked as directed by the Authorized Officer, after each operating season before the fall wet season begins.

Additionally, the following conditions apply to ground based yarding:

1. Specialized equipment may be used for felling/harvesting if:
 - a. It is boom mounted with a minimum reach of twenty (20) feet.
 - b. It is track propelled and has a static ground pressure rating of eight (8) psi or less.
 - c. It operates on existing disturbed trails or on slash mats with a minimum number of passes necessary to process the timber.
 - d. Harvester trails shall not exceed fifteen (15) feet in width and are spaced at least fifty (50) feet apart.

2. A forwarder may be used if:
 - a. Forwarder trail locations are approved by the Authorized Officer prior to any operations, and shall not exceed fifteen (15) feet in width.
 - b. When leaving multi-pass trails to retrieve logs, the machine proceeds over a slash mat when possible and is limited to the minimum number of passes necessary to retrieve the logs.
 - c. Trails that are used multiple times will be considered skid trails and treated as such.

q. Before cutting and removing any trees necessary to facilitate logging in the Sale 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. In addition, before proceeding the following conditions must be met:

1. All skid trails 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.
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. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. 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. 41. of the contract or any tree that exceeds thirty-four (34) inches diameter at breast height 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 of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.

r. Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties on Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

In the event that the Authorized Officer identifies a conflict between the requirements of this contract or agreed upon methods of proceeding hereunder and State or Federal safety requirements, the contract may be modified. If the cost of such contract modification is of a substantial nature (\$2,000.00 or more), the Purchaser may request, in writing, an adjustment in the Total Purchase Price specified in Sec. 2. of the timber sale contract, as amended, to compensate for the changed conditions.

Unless otherwise specified in writing, when operations are in progress adjacent to or on roads and/or trails in the harvest unit area, Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with adequate warning of and protection from hazardous or potentially hazardous conditions associated with its operations. Purchaser shall prepare a Traffic Control Plan, which the Purchaser has determined is compliant with state and local OSHA and Transportation standards no later than the pre-work meeting and prior to commencing operations. Traffic control devices shall be appropriate to current operating and/or weather conditions and shall be covered or removed when not needed. Flagmen and devices shall be as specified in state OSHA and Transportation standards for logging roads or the "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD) published by the U.S. Department of Transportation - Federal Highway Administration. Included in the Traffic Control Plan, Purchaser shall note traffic control device locations on a Purchaser-produced copy of the contract Exhibit A Map.

SEASONAL RESTRICTIONS

s. All activities, except haul, within the Marbled Murrelet Daily Time Restriction Areas shown on Exhibit A, between two (2) hours before sunset and two (2) hours after sunrise between April 1 and September 15, both days inclusive, unless otherwise approved by the Authorized Officer.

t. No hauling of timber, rock, or large equipment on 4-7-27.0 (Bald Mountain Road) shall occur on weekends between Memorial Day and Labor Day weekends, both weekends inclusive, unless

otherwise approved by the Authorized Officer.

u. No mechanized falling or ground based yarding shall be conducted in the Sale Areas shown on Exhibit A outside of dry season (generally October 16 of one calendar year to May 31 of the following calendar year) as determined by the Authorized Officer.

v. No cable yarding or haul except from Roads 3-7-31.0, 4-7-4.1, 4-7-6.0 West, 4-7-19.3, 4-7-19.4, 4-7-21.0, and USFS 1400 in the Sale Areas shown on Exhibit A outside of dry season (generally October 16 of one calendar year to May 31 of the following calendar year) as determined by the Authorized Officer.

w. No road renovation, road construction, road decommissioning/stabilization, sub-soiling, or road maintenance shown on Exhibits C, D, or E outside of dry season (generally October 16 of one calendar year to May 31 of the following calendar year) as determined by the Authorized Officer.

x. No work required in live streams shall be conducted between September 16 of one calendar year and June 30 of the following calendar year, both days inclusive, unless BLM receives a specific waiver from the Oregon Department of Fish and Wildlife.

ROAD CONSTRUCTION, IMPROVEMENT, RENOVATION, MAINTENANCE AND USE

y. The Purchaser shall construct natural surfaced roads: 3-7-33.4, 3-7-33.5, 4-7-2.6 (Sta. 7+65 – 9+00), 4-7-3.8, 4-7-19.11, 4-7-19.12, Spur A, Spur B, Spur C, Spur D, Spur E, and the Round-About. The Purchaser shall construct surfaced roads: 3-7-34.1 TIE. The Purchaser shall renovate surfaced roads: 3-7-28.0 East, 3-7-28.0 West, 3-7-31.0, 3-7-33.1, 3-7-34.0, 3-7-35.0, 3-7-36.1, 3-7-36.2, 3-7-36.9, 4-7-1.0 (MP 0.00 – 2.821), 4-7-2.3, 4-7-2.4, 4-7-2.5 (MP 0.017 – 0.116), 4-7-3.1 (MP 0.000 – 0.557), 4-7-3.2 (MP 0.000 – 0.165), 4-7-4.0, 4-7-4.1, 4-7-4.2, 4-7-6.0 East, 4-7-6.0 West, 4-7-17.1, 4-7-17.3, 4-7-19.1, 4-7-19.3, 4-7-19.4, 4-7-19.8, 4-7-19.9, 4-7-20.1, 4-7-21.0, 4-7-21.5, 4-7-21.7, and USFS 1400. The Purchaser shall improve natural surfaced roads: 4-7-2.6 (Sta. 0+00 – 7+65) and 4-7-3.7. The Purchaser shall improve surfaced roads: 3-7-34.1, 3-7-34.3, 4-7-1.0 (MP 2.821 – 2.859), 4-7-2.5 (MP 0.000 – 0.017), 4-7-3.1 (MP 0.557 – 0.596), and 4-7-3.2 (MP 0.165 – 0.195).

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.

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

aa. The Purchaser shall decommission 3-7-33.4, 3-7-33.5, 4-7-2.6 (Sta. 7+65 – 9+00), 4-7-3.8, 4-7-19.11, 4-7-19.12, Spur A, Spur B, Spur C, Spur D, and Spur E, as shown on Exhibit C, by subsoiling, installing non-drivable waterbars, scattering slash, and blocking. Purchaser shall decommission roads 3-7-34.0 (MP 0.523 – 0.684), 3-7-34.3, 3-7-36.9, 4-7-2.6 (Sta. 0+00 – 7+65), 4-7-3.7, 4-7-4.1, 4-7-6.0 West (MP 1.216 – 1.315), 4-7-19.3, and 4-7-21.7, as shown on Exhibit C, by installing non-drivable waterbars, scattering slash, and blocking. Purchaser shall stabilize roads 3-7-31.0, 3-7-33.1, 3-7-34.0 (MP 0.000 – 0.523), 3-7-34.1, 3-7-35.0 (MP 0.114 – 0.736), 3-7-36.1, 3-7-36.2, 4-7-2.3, 4-7-2.4, 4-7-2.5, 4-7-3.2, 4-7-4.0, 4-7-4.2, 4-7-6.0 West (MP 0.000 – 1.216), and 4-7-21.5, as

shown on Exhibit C, by installing drivable waterbars. Subsoiling shall consist of loosening the soil to a depth of eighteen (18) inches utilizing excavator attachments, log loader tongs or other approved equipment acceptable to the Authorized Officer. No subsoiling shall be required where the road traverses rock outcroppings. All natural water courses shall be opened to prevent erosion of the road. Barriers shall be constructed and clearing debris shall be placed on and around the barriers so as to prevent further use of the road by vehicles as shown on Exhibit C. The decommissioning of 3-7-34.3, 4-7-2.6 (Sta. 0+00 – 7+65), and 3-7-36.9 as shown on Exhibit C, is to be accomplished in such a manner as to preserve Nestucca OHV trails shown on Exhibit A, trail signs, trail access, and drainage on and along trails, as directed by the Authorized Officer. Decommissioning and stabilization shall be completed within thirty (30) days of completion of yarding and hauling operations on that road.

bb. The Purchaser is authorized to use the roads listed below and shown on Exhibit E for the removal of Government timber sold under the terms of this contract, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42.z. Any road shown on Exhibit E and requiring improvement or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the improvement or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Used	Road Control	Road Surface Type	Maintenance Responsibility
Spur A	238 ft.	BLM	Natural	Purchaser
Spur B	226 ft.	BLM	Natural	Purchaser
Spur C	158 ft.	BLM	Natural	Purchaser
Spur D	180 ft.	BLM	Natural	Purchaser
Spur E	376 ft.	BLM	Natural	Purchaser
Round About	270 ft.	BLM	Natural	Purchaser
3-7-28 (Hoag Pass) East (Seg. E1 – E5, F)	0.843 Mi.	BLM	Rocked	Purchaser
3-7-28 (Hoag Pass) West (Seg. A1 – A2)	1.876 Mi.	BLM	Rocked	Purchaser
3-7-31.0 (Job Corp.)	0.900 Mi.	BLM	Rocked	Purchaser
3-7-33.1	0.048 Mi.	BLM	Rocked	Purchaser
3-7-33.4	1,013 ft.	BLM	Natural	Purchaser
3-7-33.5	661 ft.	BLM	Natural	Purchaser
3-7-34.0 (Seg. A – B)	0.684 Mi.	BLM	Rocked	Purchaser
3-7-34.1 (Seg. C1 – C3)	0.139 Mi.	BLM	Rocked	Purchaser
3-7-34.1 Tie	100 ft.	BLM	Rocked	Purchaser
3-7-34.3	328 ft.	BLM	Rocked	Purchaser
3-7-35.0 (Seg. B3, C1 – C4)	0.622 Mi.	BLM	Rocked	Purchaser

Road No. and Segment	Length Used	Road Control	Road Surface Type	Maintenance Responsibility
3-7-36.1	0.187 Mi.	BLM	Rocked	Purchaser
3-7-36.2	0.220 Mi.	BLM	Rocked	Purchaser
3-7-36.9	230 ft.	BLM	Rocked	Purchaser
4-7-1.0 (Seg. A – D2)	2.859 Mi.	BLM	Rocked	Purchaser
4-7-1.4 (Eastline Quarry Rd.)	0.510 Mi.	BLM	Rocked	Purchaser
4-7-2.3 (Seg. A1 – B)	0.585 Mi.	BLM	Rocked	Purchaser
4-7-2.4	0.105 Mi.	BLM	Rocked	Purchaser
4-7-2.5	0.116 Mi.	BLM	Rocked	Purchaser
4-7-2.6	900 ft.	BLM	Natural	Purchaser
4-7-3.1 (Seg. A – C3)	0.596 Mi.	BLM	Rocked	Purchaser
4-7-3.2 (Seg. A1 – A2)	0.195 Mi.	BLM	Rocked	Purchaser
4-7-3.8	2,015 ft.	BLM	Natural	Purchaser
4-7-4.0 (Seg. A – B)	0.115 Mi.	BLM	Rocked	Purchaser
4-7-4.1 (Seg. A1 – A2)	2,481 ft.	BLM	Rocked	Purchaser
4-7-4.2	0.070 Mi.	BLM	Rocked	Purchaser
4-7-6.0 East (Seg. J1 – J5)	0.867 Mi.	BLM	Rocked	Purchaser
4-7-6.0 West (Seg. F2, H1 – H2)	1.079 Mi.	BLM	Rocked	Purchaser
4-7-17.1	0.109 Mi.	BLM	Rocked	Purchaser
4-7-17.3	0.093 Mi.	BLM	Rocked	Purchaser
4-7-19.1	0.202 Mi.	BLM	Rocked	Purchaser
4-7-19.3	751 ft.	BLM	Rocked	Purchaser
4-7-19.4 (Seg. A – B)	0.213 Mi.	BLM	Rocked	Purchaser
4-7-19.8 (Seg. A – B)	0.112 Mi.	BLM	Rocked	Purchaser
4-7-19.9	0.200 Mi.	BLM	Rocked	Purchaser
4-7-19.11	755 ft.	BLM	Natural	Purchaser
4-7-19.12	1,173 ft.	BLM	Natural	Purchaser
4-7-21.0 (Seg. A)	0.040 Mi.	BLM	Rocked	Purchaser
4-7-21.5	0.181 Mi.	BLM	Rocked	Purchaser
4-7-21.7	378 ft.	BLM	Rocked	Purchaser
4-7-27 (Bald Mtn. Rd.)	7.430 Mi.	BLM	Paved	BLM
4-7-22.0 (Bible Cr. Rd.)	5.190 Mi.	BLM	Paved	BLM
3-6-13.0 (Nestucca Access Rd.)	4.903 Mi.	BLM	Paved	BLM

cc. The Purchaser shall pay the Government a road maintenance fee of thirty-four thousand one hundred eighty-one and 37/100 dollars (\$34,181.37) and rockwear fee of nine thousand two hundred fifteen and 05/100 dollars (\$9,215.05) for transportation of timber included in this contract price over said roads. The above rockwear and maintenance fees are for the use of thirty-two (32) miles of road or less. If the total road maintenance and rockwear fee does not exceed five hundred and 00/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and 00/100 dollars (\$500), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.

dd. In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Cooperative Right-of-Way Agreement (OR056542), between the State of Oregon and the United States, which requires that the Purchaser enter into a license agreement with the Oregon State Department of Forestry (ODF). The Purchaser will be required to enter into a license agreement 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) No road use fee obligation. 2) Payment to Oregon State Department of Forestry a rockwear fee obligation of one hundred forty-six and 65/100 dollars (\$146.65). Rockwear fees have been calculated using estimated timber volumes. Additional fees for rockwear will be calculated at the agreed upon rates (in the license agreement) for additional timber volume and be charged to Purchaser. All payments shall be made to Licensor prior to contract termination. 3) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made a part hereof. Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements. 4) Default by the Purchaser of said Cooperative Right-of-Way 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.

Road No. and Segment	Length to be Used (Mi)	Road Control	Road Surface Type	Maintenance Responsibility
3-7-34.1 (Seg. A)	0.109	ODF	Rocked	Purchaser
3-7-35.0 (Seg. B2)	0.114	ODF	Rocked	Purchaser

ee. In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement No. S-499 (OR044569), between Hampton Resources, Inc. and the United States. The Purchaser will be required to enter into a license agreement 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) No road use fee obligation. 2) Payment to Hampton Resources, Inc. a rockwear fee obligation of sixty-four and 51/100 dollars (\$64.51). Rockwear fees have been calculated using estimated timber volumes. Additional fees for rockwear will be calculated at the agreed upon rates (in the license agreement) for additional timber volume and be charged to Purchaser. All payments shall be made to Licensor prior to contract termination. 3) The Purchaser shall perform any road repair and maintenance work on roads,

under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made a part hereof. Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements. 4) 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 provide performance bond in the amount of \$1,000.

Road No.	Segment	Length to be Used (Mi)	Road Control	Road Surface Type	Maintenance Responsibility
4-7-20.1	A1 & A2	0.420	Hampton	Rocked	Purchaser

ff. In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement No. S-700 (OR044680), between Hampton Resources, Inc. and the United States. The Purchaser will be required to enter into a license agreement 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) No road use fee obligation. 2) Payment to Hampton Resources, Inc. a rockwear fee obligation of twenty-nine and 47/100 dollars (\$29.47). Rockwear fees have been calculated using estimated timber volumes. Additional fees for rockwear will be calculated at the agreed upon rates (in the license agreement) for additional timber volume and be charged to Purchaser. All payments shall be made to Licensor prior to contract termination. 3) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made a part hereof. Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements. 4) 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 provide performance bond in the amount of \$1,000.

Road No. and Segment	Length to be Used (Mi)	Road Control	Road Surface Type	Maintenance Responsibility
4-7-20.1 (Seg. B1)	0.068	Hampton	Rocked	Purchaser
4-7-20.1 (Seg. B2 - B3)	0.124	Hampton	Rocked	Purchaser
4-7-20.1 (Seg. B4)	0.063	Hampton	Rocked	Purchaser

gg. In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement No. S-796 (OR045077), between

Stimson Lumber Company and the United States, which requires that the Purchaser enter into a license agreement with Stimson Lumber Company. The Purchaser will be required to enter into a license agreement 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) Payment to Stimson Lumber Company a road use obligation fee of one hundred five dollars and 12/100 (\$105.12). 2) Payment to Stimson Lumber Company a rockwear fee obligation of three hundred fifty-five and 66/100 dollars (\$355.66). Road use obligation fees and rockwear fees have been calculated using estimated timber volumes. Additional fees for road use obligation and rockwear will be calculated at the agreed upon rates (in the license agreement) for additional timber volume and be charged to Purchaser. All payments shall be made to Licensor prior to contract termination. 3) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made a part hereof. Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements. 4) The Purchaser agrees to purchase 1.1 MBF merchantable timber @ \$416.99/MBF, which equals four hundred fifty-eight and 69/100 dollars (\$458.69), for the removal of timber in right-of-ways listed below. 5) 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 provide performance bond in the amount of \$1,000.

Road No. and Segment	Length to be Used (Mi)	Road Control	Road Surface Type	Maintenance Responsibility
3-7-34.1 (Seg. B)	0.328	Stimson	Rocked	Purchaser
4-7-6.0 (Seg. G)	0.236	Stimson	Rocked	Purchaser
4-7-6.0 (Seg. I2)	0.118	Stimson	Rocked	Purchaser

hh. In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Road Use Permit, between United States (Forest Service) and the United States (Bureau of Land Management). The Road Use Permit conditions include: 1) No road use fee obligation. 2) No Payment of a rockwear fee obligation. 3) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made a part hereof. Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements. 4) Default by the Purchaser of said Road Use Permit, shall be considered a violation of this contract. The purchaser will be required to carry liability insurance with the limits of \$1,000,000/ \$1,000,000/ \$1,000,000 and provide performance bond in the amount of \$3,000.

Road No. and Segment	Length to be Used (Mi)	Road Control	Road Surface Type	Maintenance Responsibility
USFS 1400	3.120	USFS	Rocked	Purchaser

ii. The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, and deemed as Purchaser Maintenance in Section 42.bb., 42.dd., 42.ee., 42.ff., 42.gg., and 42.hh. of this contract, which is attached hereto and made a part thereof. Purchaser shall spread **800** cubic yards of spot rock on BLM roads and **300** cubic yards of spot rock on non-BLM timberlands roads used for this timber sale, as directed by Authorized Officer as part of maintenance requirements.

ENVIRONMENTAL PROTECTION

jj. In order to prevent the spread of noxious weeds, the Purchaser shall pressure wash all road construction and ground-based logging equipment that will be used off of existing roads, as well as loaders and mechanically propelled brush cutters, prior to entry onto BLM lands as directed by the Authorized Officer. Cleaning shall be defined as removal of all dirt, grease, plant parts and material that may carry noxious weed seeds.

kk. The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:

1. threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
2. when, in order to 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 to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines or management direction of the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
3. federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
4. other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
5. when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
6. when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
7. species have been discovered 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, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;

8. when, in order to 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, the Contracting Officer determines it may be necessary to modify or terminate the contract.

Those operations necessary for a safe removal of personnel and equipment from the contract area and those directed by the Contracting Officer which are required in order to leave the contract area in an acceptable condition will be permitted. Discontinued operations may be resumed upon receipt of written instructions and authorization by the Contracting Officer.

During any period of suspension, the Purchaser may withdraw performance and payment bond coverage aside from that deemed necessary by the Authorized Officer to secure cut and/or removed timber for which the Bureau of Land Management has not received payment, and/or unfulfilled contract requirements associated with harvest operations that have already occurred and associated post-harvest requirements.

In the event of a suspension period or a combination of suspension periods that exceed a total of thirty (30) days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension extending beyond thirty (30) days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3(b) of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, *et seq.*). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3(b) of the contract within fifteen (15) days after the bill for collection is issued, subject to Section 3(h) of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

In the event of a suspension period or a combination of suspension periods that exceed a total of thirty (30) days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

In the event that operating time is lost as a result of the incorporation of additional contract requirements, or delays due to Endangered Species Act consultation with the U.S. Fish and Wildlife Service or U.S. National Marine Fisheries Service, or court-ordered injunctions, the

Purchaser agrees that an extension of time, without reappraisal, will constitute a full and complete remedy for any claim that delays due to the suspension hindered performance of the contract or resulted in damages of any kind to the Purchaser.

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, prevent incidental take of northern spotted owls in accordance with the ROD and RMP, protect occupied marbled murrelet sites in accordance with the ROD and RMP, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, if able to proceed without causing incidental take of northern spotted owls in accordance with the ROD and RMP, consistent with marbled murrelet occupied site protection in accordance with the ROD and RMP, consistent with survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

In the event the contract is modified or cutting and removal rights are terminated under this subsection, the Purchaser agrees that the liability of the United States shall be limited to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area. This calculation of liability shall utilize actual Purchaser costs and Government estimates of timber volumes. At the Authorized Officer's request, the Purchaser agrees to provide documentation of the actual costs incurred in the performance of the contract. In addition, the Purchaser shall be released from the obligation to pay the contract price for any timber which is not authorized to be removed from the contract area.

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims based on effects on the operation of the contract that arise from litigation against another agency. Furthermore, the Purchaser specifically acknowledges and agrees that a court ruling that the Government violated the Administrative Procedures Act cannot be interpreted, in itself, to mean that the Government had not acted reasonably in regard to its duties to the Purchaser under this contract.

FIRE PREVENTION

11. 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 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

mm. 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 twenty-nine (29) 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 purchasers operations under the terms of this contract.

1. Excavator pile and burn slash within twenty-five (25) feet of USFS 1400 (Old Niagara Road), 4-7-22.0 (Bible Creek Road), 4-7-6.0 (Testament Creek Road), 4-7-1.0, 3-7-28.0 (Hoag Pass Road), and 3-7-34.1 roads in harvest areas. 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 on the small end shall be left in place, or positioned so that they will not be burned.
 - b. Machine piles shall be located as far as possible from green trees, snags, or unit boundaries to minimize damage.
 - c. 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.
 - d. A minimum 10-foot by 10-foot cover of four (4) mil. polyethylene shall cap 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.

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

2. Pile and burn 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. thick polyethylene plastic film at least twenty (20) feet wide. Landing piles shall be seventy-five (75) percent covered with the covering extending three-quarters of the way down all sides. 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.

3. Remove slash on all designated OHV Trails within the Upper Nestucca OHV Trail System shown on Exhibit A, that were affected by the logging operation. All logs or debris more than two (2) feet long and greater than one (1) inch diameter shall be completely removed at least five (5) feet from OHV trails. Larger material, which has a portion meeting this specification, must be bucked and that portion pulled back. Slash shall not be piled or windrowed.

PRESCRIBED BURNING

nn. 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. 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, and Mop-up of Piles on Units:

a. One 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. Three-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, four (4) drip torches, one (1) power saw, one (1) backpack pump, and 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) crew members.
- d. All ignition 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.

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

oo. In the Coarse Woody Debris Creation Units shown on Exhibit F, the Purchaser shall, upon completion of yarding, select and fall, top, high-girdle, or basal-girdle eight hundred ninety-eight (898) standing live trees in accordance with Exhibit F. No adjustments of volume or value shall be made to meet these requirements.

CONTRIBUTIONS

pp. The Purchaser shall create coarse woody debris in accordance with Section 42.oo. The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of fifty-three thousand four hundred seventy-two and 64/100 dollars (\$53,472.64), and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this contribution prior to the date of execution of this contract, and the Purchaser shall pay such amount in full prior to the commencement of operations.

LOG EXPORT RESTRICTION

qq. All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export under the United States in the form of unprocessed timber, and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as (1) any logs except those of utility grade or below, such as saw logs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters (8-3/4) inches in thickness; (3) split or round bolts or other round wood not processed to standards and specifications suitable for end-product uses; or (4) western redcedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8-3/4) inches in thickness or less; (6) shakes and shingles. Substitution will be determined under the definition found in 43 CFR 5400.0-5(n).

The Purchaser is required to maintain and upon request to furnish the following information:

1. Date of last export sale.
2. Volume of timber contained in last export sale.
3. Volume of timber exported in the past twelve (12) months from the date of last export sale.
4. Volume of Federal timber purchased in the past twelve (12) months from date of last export sale.
5. Volume of timber exported in succeeding twelve (12) months from date of last export sale.
6. Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a "Certificate as to Nonsubstitution and Domestic Processing of Timber". The original of such certification shall be filed with the Authorized Officer.

Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

In the event an affiliate of the Purchaser has exported private timber within twelve (12) months prior to purchasing or otherwise acquiring Federal timber sold under this contract, the Purchaser shall, upon request, obtain from the affiliate information in the form specified by the Authorized Officer and furnish the information to the Authorized Officer.

Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer Form 5460-15 (Log Scale and Disposition of Timber Removed Report) which shall be executed by the Purchaser. In addition, the Purchaser is required under the terms of this contract to retain for a three-year period from the date of termination of the contract the records of all sales or transfer of logs involving timber from the sale for inspection and use of the Bureau of Land Management.

Unless otherwise authorized in writing by the Authorized Officer, the Purchaser shall, prior to the removal of timber from the contract area, brand with Purchaser's registered log brand at least one end of each log, bolt, or other roundwood and identify each of these by painting with highway yellow paint.

In the event of the Purchaser's noncompliance with this subsection of the contract, the Authorized Officer may take appropriate action as set forth in Sec. 10. of this contract. In addition, the Purchaser may be declared ineligible to receive future awards of Government timber for a period of one (1) year.

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 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.

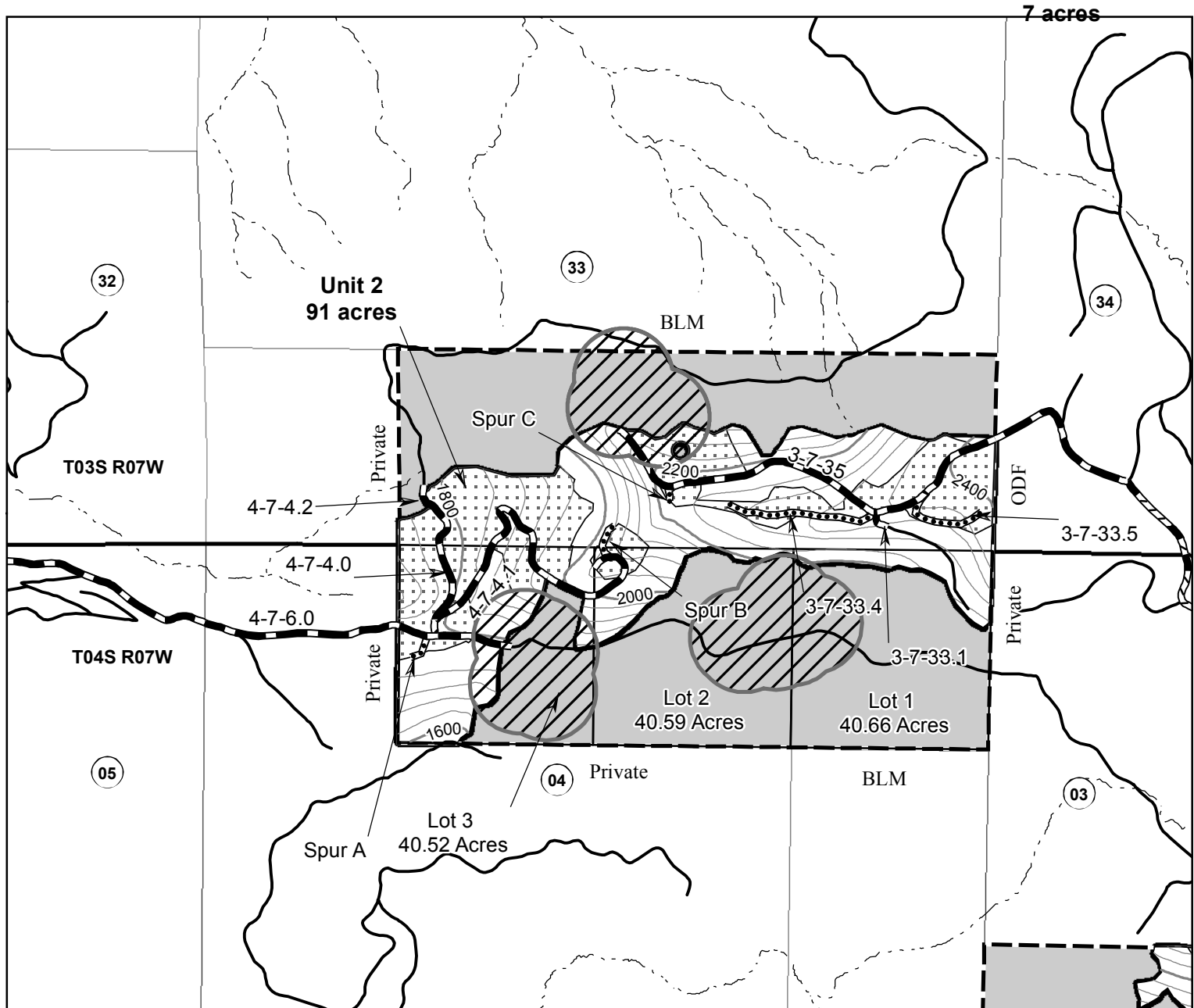
At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. Any increased costs for log branding and painting shall be the responsibility of the Purchaser.

United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Super Cooper Timber Sale
Exhibit A
Page 1 of 7

TIMBER SALE CONTRACT MAP - CONTRACT NO. ORN04-TS-2018.0403

T. 3S. R. 7W. Sections 33, 34, 35 & 36
T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON

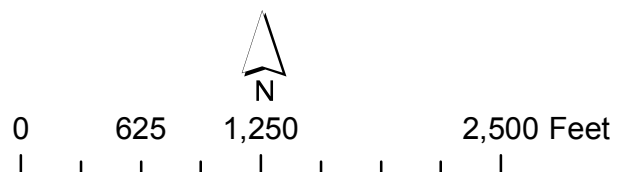


Contour Interval: 40ft

- Partial Cut Area-Ground-Based
- Partial Cut Area-Skyline
- Marbled Murrelet Daily Time Restriction Area
- Road to be Constructed

- Road to be Improved
- Road to be Renovated
- Other Roads
- Streams
- Contract Area
- Reserve Area

Partial Cut Area	402 Acres
Right of Way Area	7 Acres
Reserve Area	1155.08 Acres
Total Contract Area	1564.08 Acres



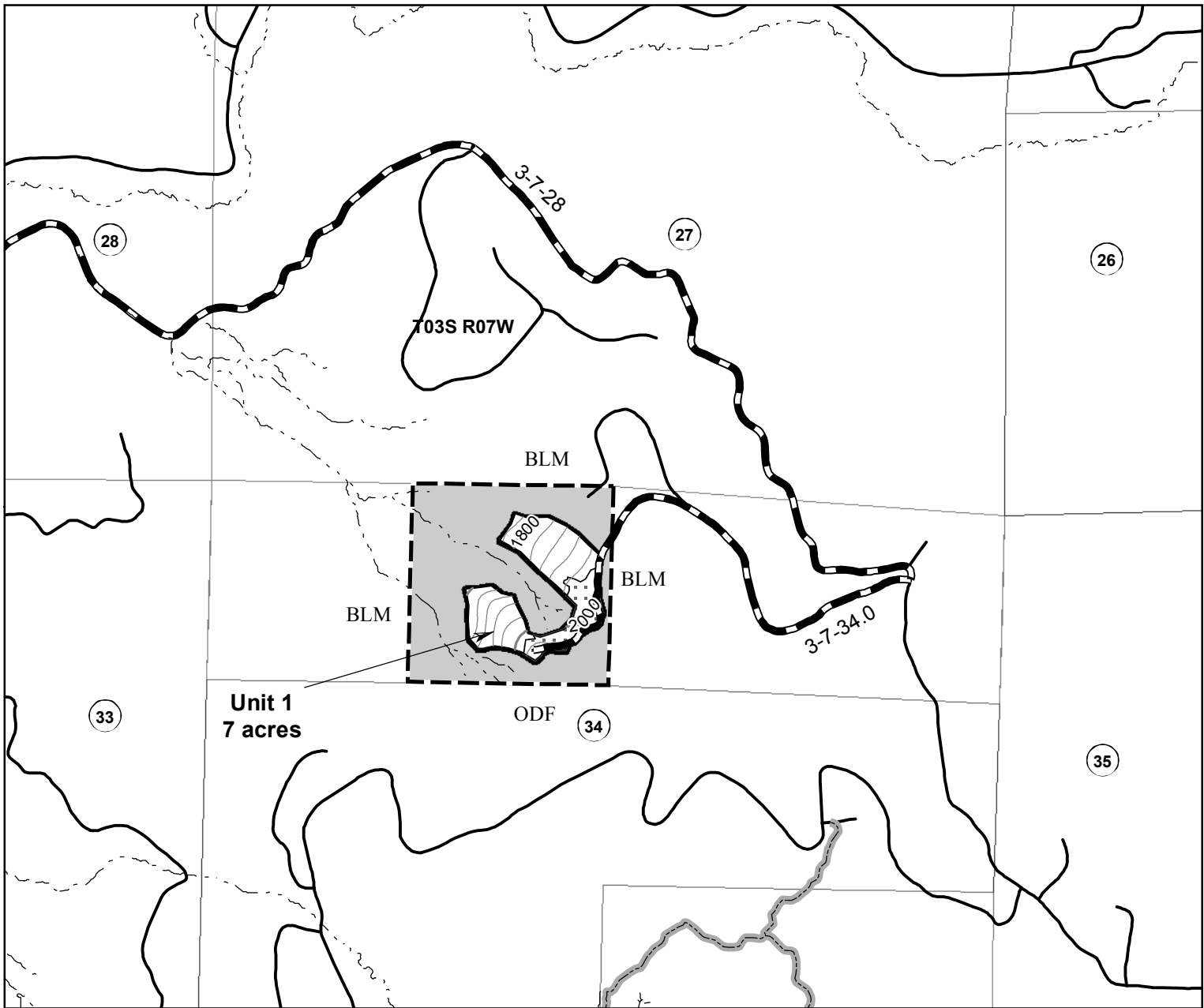
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification. Note: Boundaries of harvest area and rights-of-ways (ROW) are painted orange and posted. Harvest area acres do not include existing roads or previously harvested patch cuts. Acres shown on Exhibit A for harvest area have been computed using a Trimble Geo 6000 GPS Unit. Prepared By: csween 7/20/2018

United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Super Cooper Timber Sale
Exhibit A
Page 2 of 7

TIMBER SALE CONTRACT MAP - CONTRACT NO. ORN04-TS-2018.0403

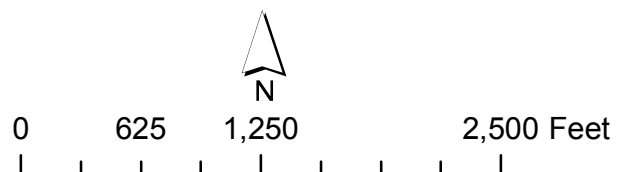
T. 3S. R. 7W. Sections 33, 34, 35 & 36
T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Contour Interval: 40ft

- | | | | |
|--|-------------------------------|--|---------------|
| | Partial Cut Area-Ground-Based | | Other Roads |
| | Partial Cut Area-Skyline | | Streams |
| | Upper Nestucca OHV Trails | | Contract Area |
| | Road to be Renovated | | Reserve Area |

Partial Cut Area	402 Acres
Right of Way Area	7 Acres
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Total Contract Area	1564.08 Acres



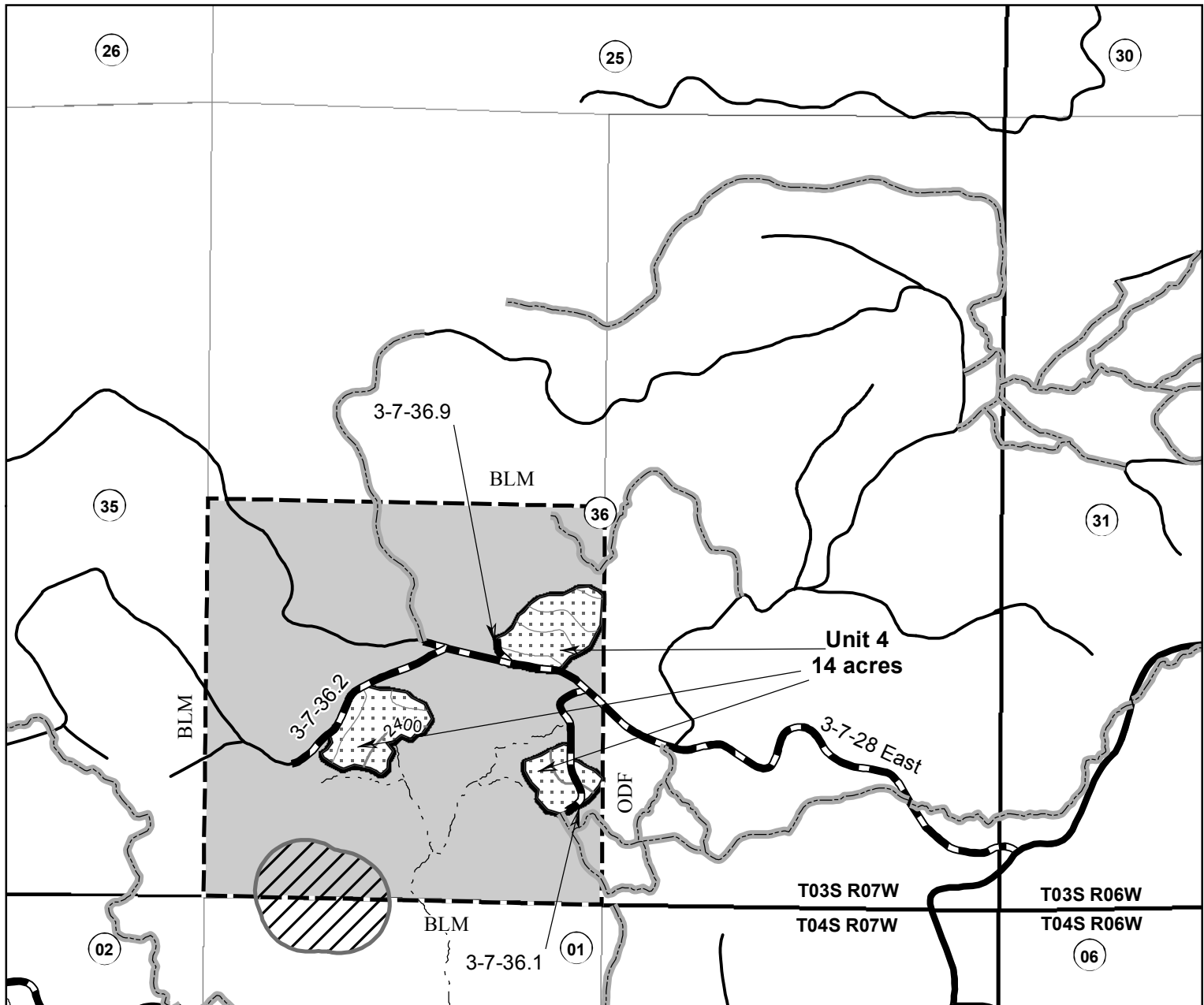
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United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Super Cooper Timber Sale
Exhibit A
Page 3 of 7

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T. 3S. R. 7W. Sections 33, 34, 35 & 36
T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON

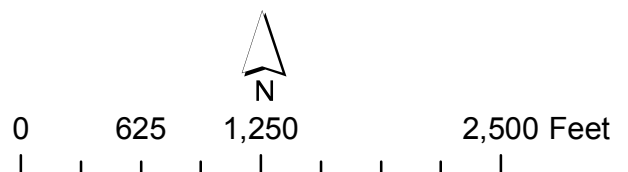


Contour Interval: 40ft

- Partial Cut Area-Ground-Based
- Marbled Murrelet Daily Time Restriction Area
- Upper Nestucca OHV Trails
- Road to be Renovated

- Other Roads
- Paved Road
- Streams
- Contract Area
- Reserve Area

Partial Cut Area	402 Acres
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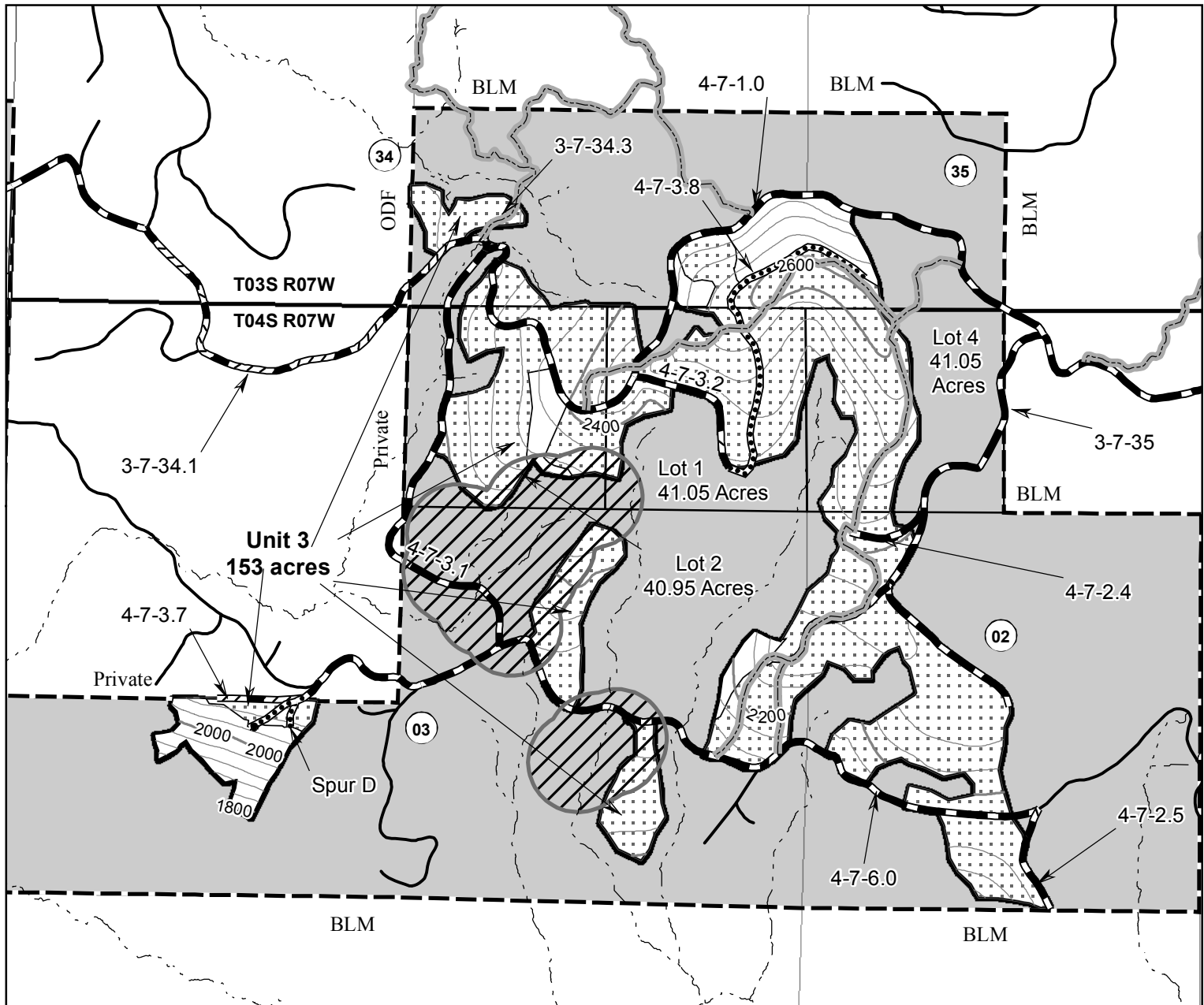
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United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Super Cooper Timber Sale
Exhibit A
Page 4 of 7

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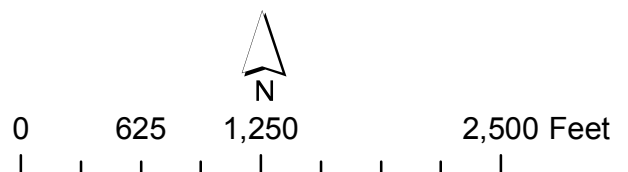


Contour Interval: 40ft

- Partial Cut Area-Ground-Based
- Partial Cut Area-Skyline
- Marbled Murrelet Daily Time Restriction Area
- Upper Nestucca OHV Trails
- Road to be Constructed

- Road to be Improved
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- Reserve Area

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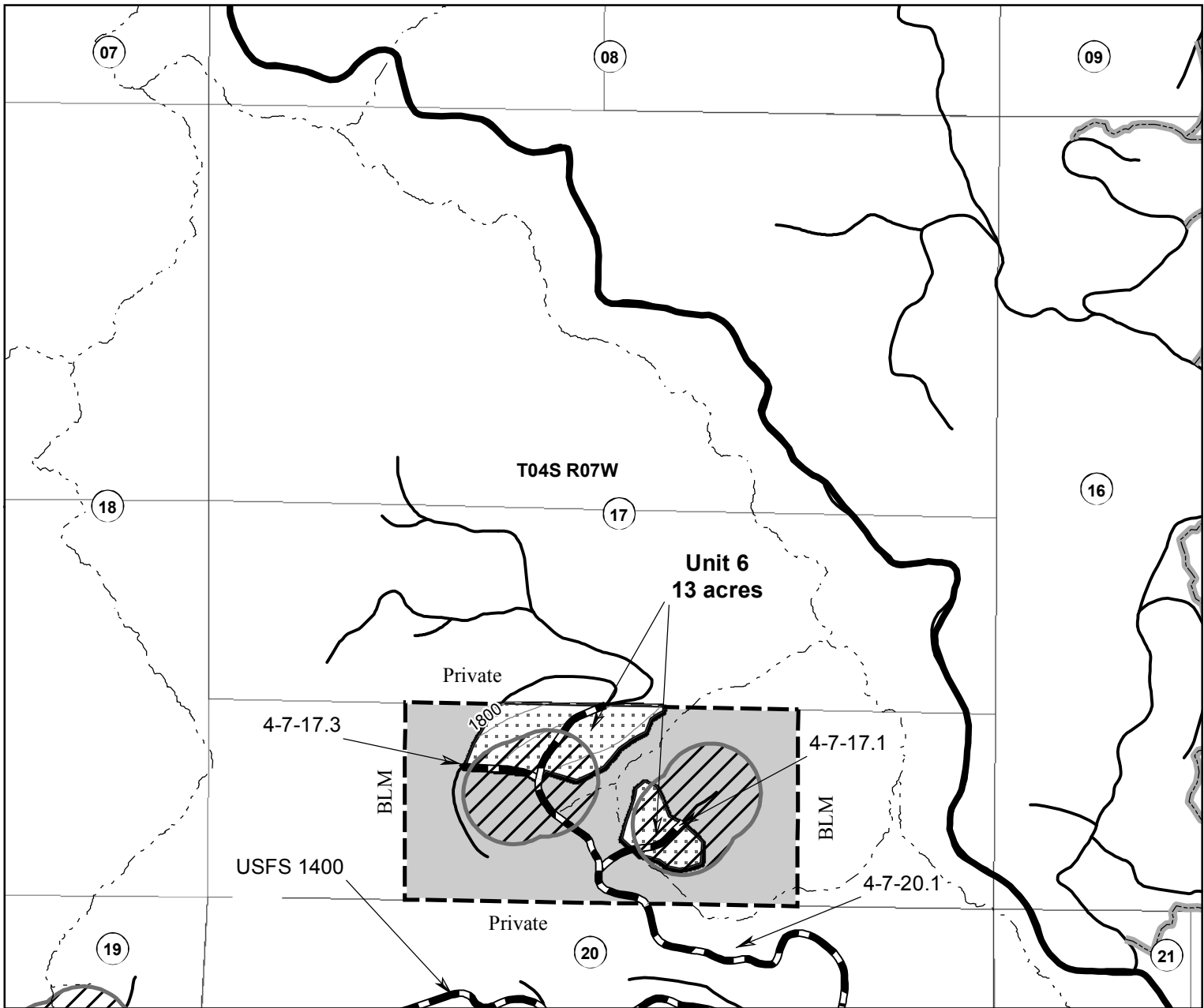
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United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Super Cooper Timber Sale
Exhibit A
Page 5 of 7

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T. 3S. R. 7W. Section 33, 34, 35 & 36
T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Contour Interval: 40ft

Partial Cut Area-Ground-Based

Marbled Murrelet Daily Time Restriction Area

Upper Nestucca OHV Trails

Road to be Renovated

Other Roads

Streams

Paved Road

Contract Area

Reserve Area

Partial Cut Area	402 Acres
Right of Way Area	7 Acres
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0 625 1,250 2,500 Feet

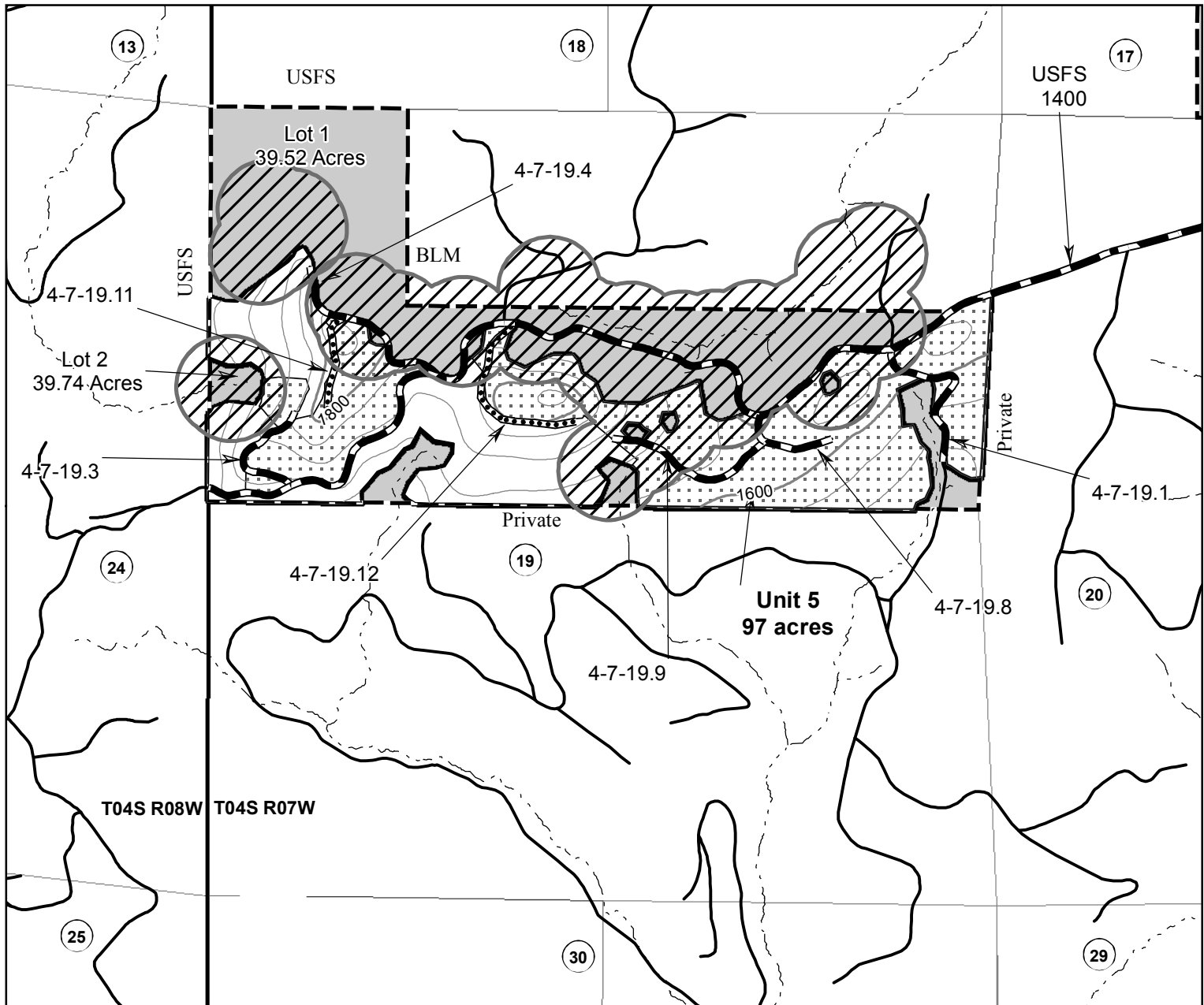
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United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Super Cooper Timber Sale
Exhibit A
Page 6 of 7

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Contour Interval: 40ft

Partial Cut Area-Ground-Based

Partial Cut Area-Skyline

Marbled Murrelet Daily Time Restriction Area

Road to be Constructed

Road to be Renovated

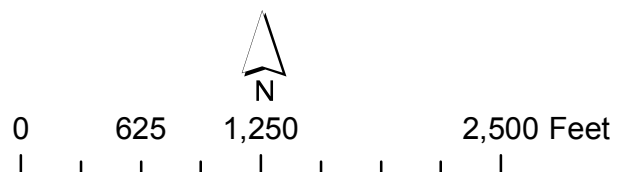
Other Roads

Streams

Contract Area

Reserve Area

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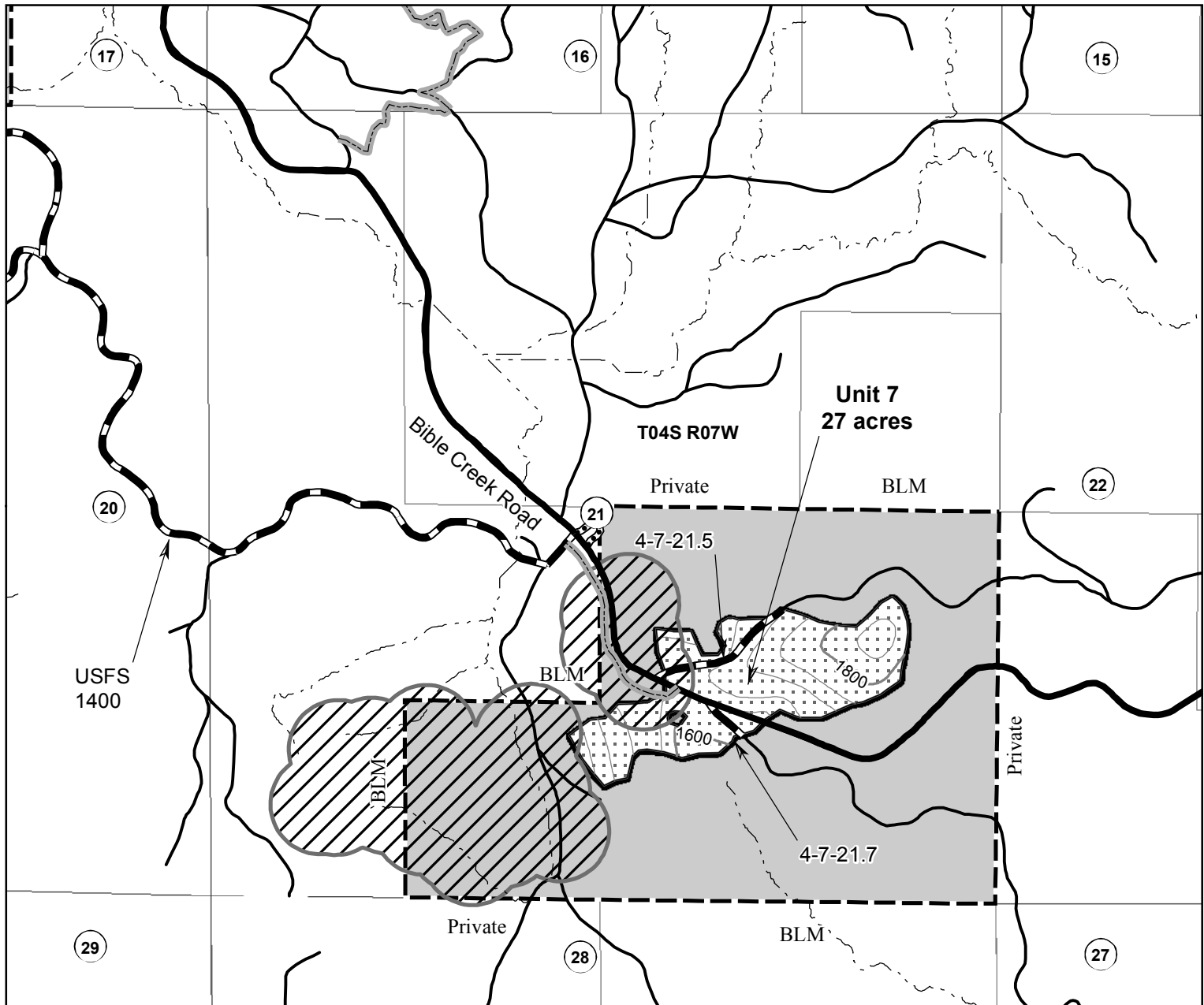
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United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Super Cooper Timber Sale
Exhibit A
Page 7 of 7

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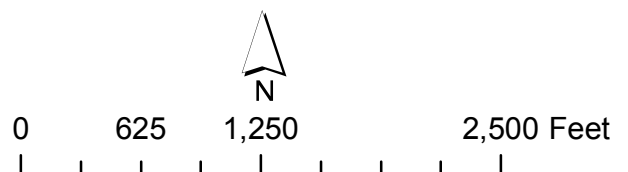


Contour Interval: 40ft

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-3

Contract No.

ORN04-TS-2018.0403

Super Cooper

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	8,358.0	MBF	\$332.30	\$2,777,363.40
Western Hemlock	48.0	MBF	\$174.00	\$8,352.00
Red Alder	19.0	MBF	\$160.50	\$3,049.50
TOTALS	8,425.0	MBF		\$2,788,764.90

The apportionment of the total purchase price is as follows:

Unit 1

Douglas Fir	138.0 MBF	X	\$332.30	=	\$45,857.40
Red Alder	19.0 MBF	X	\$160.50	=	\$3,049.50
Total	157.0 Mbf				\$48,906.90 ÷ 7.0 acres = \$6,986.70/Acre

Unit 2

Douglas Fir	1,795.0 MBF	X	\$332.30	=	\$596,478.50
Total	1795.0 Mbf				\$596,478.50 ÷ 91.0 acres = \$6,554.71/Acre

Unit 3

Douglas Fir	3,019.0 MBF	X	\$332.30	=	\$1,003,213.70
Total	3019.0 Mbf				\$1,003,213.70 ÷ 153.0 acres = \$6,556.95/Acre

Unit 4

Douglas Fir	215.0 MBF	X	\$332.30	=	\$71,444.50
Western Hemlock	48.0 MBF	X	\$174.00	=	\$8,352.00
Total	263.0 Mbf				\$79,796.50 ÷ 14.0 acres = \$5,699.75/Acre

Unit 5

Douglas Fir	1,914.0 MBF	X	\$332.30	=	\$636,022.20
Total	1914.0 Mbf				\$636,022.20 ÷ 97.0 acres = \$6,556.93/Acre

Unit 6

Douglas Fir	256.0 MBF	X	\$332.30	=	\$85,068.80
Total	256.0 Mbf				\$85,068.80 ÷ 13.0 acres = \$6,543.75/Acre

Unit 7

Douglas Fir	533.0 MBF	X	\$332.30	=	\$177,115.90
Total	533.0 Mbf				\$177,115.90 ÷ 27.0 acres = \$6,559.85/Acre

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-3

Contract No.

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Unit R/W

Douglas Fir

488.0 MBF X \$332.30 = \$162,162.40

Total

488.0 Mb \$162,162.40 ÷ 7.0 acres = \$23,166.06/Acre

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIANT		SURFACING (*5)										Remarks	
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE						
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts		
Spur A	0+00	2+38	2+38	3		14	0	10%	10%												New Construct. Construct Landing as marked (approx. 40 ft diameter).
Spur B	0+00	2+26	2+26	3		14	0	8%	8%												New Construct. Construct Landing as marked. (approx. 50 ft diameter).
Spur C	0+00	1+58	1+58	3		14	0	10%	10%												New Construct. Construct Landing as marked (approx. 40 ft diameter).
Spur D	0+00	1+80	1+80	3		14	0	12%	12%												New Construct. Construct Landing as marked (approx. 50 ft diameter).
Spur E	0+00	3+76	3+76	3		14	0	10%	10%												New Construct. Construct Landings as marked. (approx. 50 ft diameter).
Round-About	0+00	2+70	2+70	3		14	0	5%	5%				PRR	A							New Construct. Construct Loaded Truck circular turnaround as directed. Place 20 CY Pit-Run Base rock as aprons to Bible Creek Road as directed (approx. 60' radius curve with widening).
3-7-28 East	0.000	0.843	0.843	6		14	2						PRR	A			ASC	C			Renovation. Spread 200 CY crushed Spot Rock as marked and needed. Spread 75 CY Pit-Run Spot/Base Rock as marked. Place 75 CY Crushed Bedding/Backfill Rock as marked. Place 5 CY Class 3 RipRap as Fill Stabilization Wall/dissipater @ culvert outlet @ MP 0.774 as directed. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Construct 1 sediment catch basin w/ straw bale in ditchline as marked and directed. Construct a waste area @ MP 0.535 as marked. Install 4 culverts (1 is in existing ditchline for OHV Trail access) and replace 2 culverts (1 is in larger fill). Install 7 Inlet markers as directed.
3-7-28 West	0.000	1.876	1.876	6		14	2						PRR	A			ASC	C			Renovation. Spread 450 CY crushed Spot Rock as marked and needed. Spread 195 CY Pit-Run Spot/Base Rock as marked. Place 20 CY Pit-Run as ditchline armor in 2'x 2' excavated ditchline (between MP 1.156 - 1.216) as marked and directed. Place 130 CY Crushed Bedding/Backfill Rock as marked. Place 30 CY Class 5 RipRap and 55 CY Class 3 RipRap as Fill Stabilization Wall/dissipater @ culvert outlet @ MP 0.079, 0.261, 1.156, 1.216, and 1.700 as directed. Place 5 CY Class 3 RipRap as fill armor @ culvert inlet @ MP 0.079 as directed. Re-establish ditchline and haul material to WA (do not pull ditchline between MP 0.554 - 0.577). Construct ditchouts as needed. Construct turnouts as needed. Remove bank sloughs and haul to waste area as directed. Construct 5 sediment catch basins w/ straw bales in ditchline as marked and directed. Construct a waste area @ MP 1.547 and 1.856 as directed. Widen Road approx. 7 ft left between MP 1.842 - 1.872, as marked. Install 1 culvert, replace 6 culverts, Install 1 downspout and re-attach one existing downspout as marked. Install 17 Inlet markers as directed.
3-7-31.0	0.000	0.900	0.900	6		14	2						PRR	A			ASC	C			Renovation. Spread 210 CY crushed Spot Rock as marked and needed. Spread 125 CY Pit-Run Spot/Base Rock as marked. Place 40 CY Pit-Run as ditchline armor in 2'x 2' excavated ditchline (between MP 0.201 - 0.315 and 0.810 - 0.858) as marked and directed. Place 130 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA. Construct ditchouts and lead-off ditches as needed. Construct turnouts as needed. Remove bank sloughs and haul to waste area as directed. Construct 1 sediment catch basin w/ straw bale in ditchline as marked and directed. Remove Existing Waterbars. Construct a waste area @ MP 0.363 and 0.900 as directed. Replace 7 culverts, Install 3 downspouts and re-attach one existing downspout as marked. Install 8 Inlet markers as directed.
3-7-33.1	0.000	0.048	0.048	6		14	2										ASC	C			Renovation. Spread 30 CY Crushed Spot Rock as and needed to transition from elevation difference from construction of 3-7-33.4 (MP 0.000 - 0.007) as directed. Re-establish ditchline and haul material to WA. Construct a waterbar across road to capture ditchline @ MP 0.048. Construct a Waste area @ MP 0.007 as marked and directed.

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

***NOTES**

1. **Extra subgrade widths**
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)

Materials	Cut slopes	Fill slopes
Solid rock	1/4:1	Angle of repose
Soft rock and shale	1/2:1	
Common		
Slopes under 55%	1:1	1-1/2:1
Slopes over 55%	3/4:1	1-1/2:1

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

3. **Surface type**

PRR - Pit run rock	A - 3"	Grading
GRR - Grid rolled rock	B - 2"	
SRN - Screened rock	C - 3" jaw run	
JRR - Jaw run rock		(base course)
ABC - Aggr. base course	C - 1-1/2"	
ASC - Aggr. surface course	D - 1"	
WC - Wood chips	E - 3/4"	(surface course)

4. **Turnouts**
Width - 10 ft. in addition to subgrade width, or as shown on the plans. Located approximately as shown on the plans. Intervisible and not more than 750 ft. apart.

5. **Surfacing**
Turnouts, curve widening and road approach aprons shall be surfaced.

6. **Clearing width**
See Section 200

7. As posted and painted for Right-of-Way:

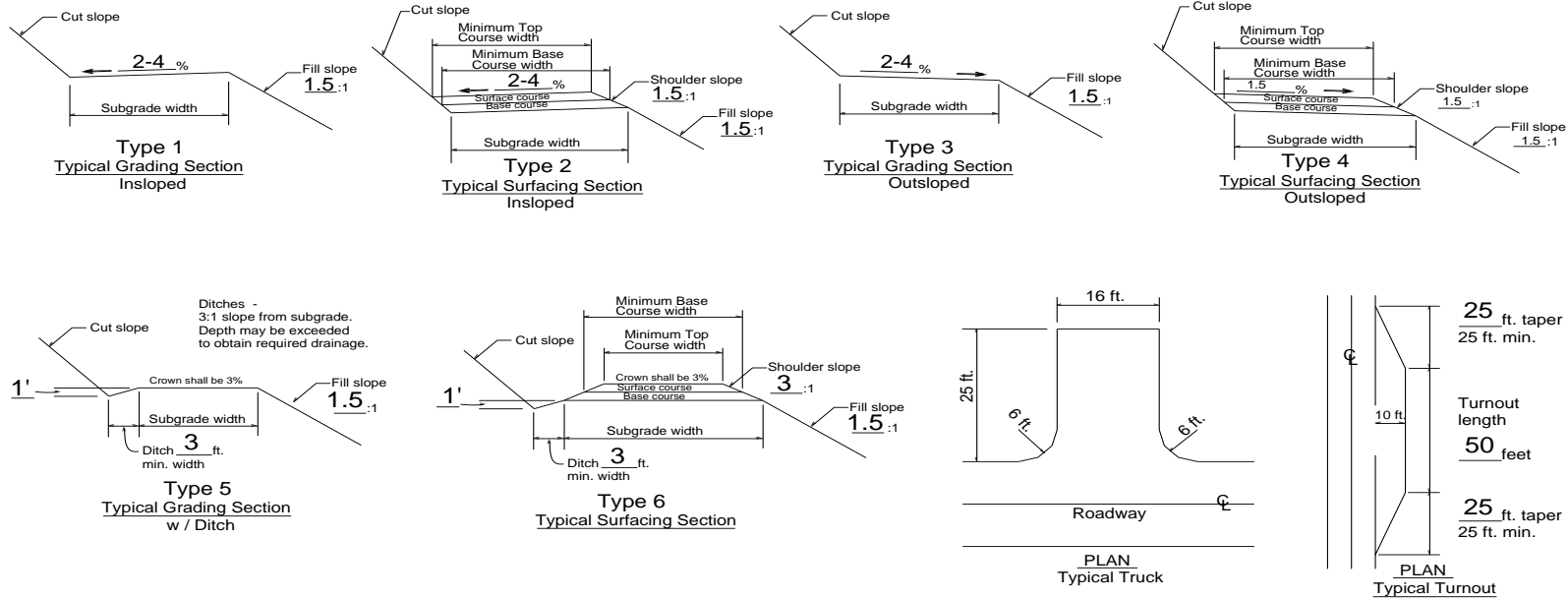
8. **Drainage**
See Culvert List

10. **Compaction**
See Sections 300 and 400

* Clearing Limits as posted on ground

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIANT		SURFACING (*5)										Remarks	
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE						
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts		
3-7-33.4	0+00	10+13	10+13	3		14	0	18%	18%				PRR	A				ASC	C		New Construct. Place 50 CY Pit-Run fill/base rock as elevation transition between Sta. 0+00 - 0+19 as directed. Spread 30 CY Crushed Rock cap rock over Pit-Run fill as directed. Construct a Turnaround and Landing as marked. (approx. 50 ft diameter).
3-7-33.5	0+00	6+61	6+61	3		14	0	12%	12%												New Construct. Constuct 50' radius curve with widening between Stations 0+00 - 2+06 as marked. Construct Turnaround and Landing (approx. 50 ft diameter).
3-7-34.0	0.000	0.451	0.451	6		14	2						PRR	A				ASC	C		Renovation. Spread 170 CY crushed Spot Rock as marked and needed. Spread 40 CY Pit-Run Spot/Base Rock as marked. Place 20 CY Pit-Run Spot Rock in road wideneing as marked and directed. Place 40 CY Crushed Bedding/Backfill Rock as marked. Place 5 CY Class 3 RipRap as dissipater @ culvert outlet @ MP 0.127 as directed. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Remove bank sloughs and haul to waste area as directed. Construct 1 sediment catch basin w/ straw bale in ditchline as marked and directed. Construct a waste area @ MP 0.226 as directed. Widen Road approx. 7 ft right between MP 0.000 - 0.011, as marked. Remove Existing Waterbars as directed. Install 1 culvert and replace 2 culverts as marked. Install 4 Inlet markers as directed.
	0.451	0.684	0.233	6		14	2						PRR	A				ASC	C		Heavy Renovation. Construct and Spread 20 CY Pit-Run Spot Rock in Turnaround @ MP 0.451 as directed. Place 10 CY Crushed Bedding/Backfill Rock as marked. Spread 10 CY Pit-Run Base Rock as marked. Spread 10 CY Crushed Spot Rock as marked. Construct a waste area @ MP 0.573 as directed. Use material from cutbank to level grade between MP 0.597 - 0.613 as directed. Widen into cutbank for road width and keep elevation the same (transitioning into and out of sunken area) between MP 0.622 - 0.638 as directed. Construct ditchouts as needed. Replace 1 culvert. Install 2 Inlet marker as directed. Construct Landing as marked (approx. 50 ft diameter).
3-7-34.1	0.000	0.576	0.576	4		14	0			12'	8"		PRR	A	2	12'	4"	ASC	C	1	Improvement. Spread 110 CY Pit-Run Spot Rock as marked. Place 205 CY Pit-Run Fill Rock as elevation transition to adjoining roads Between MP 0.557 - 0.576 as designed and directed. Place 40 CY Class 5 RipRap as Stabilization wall backfilled with 20 CY Pit-Run Fill between MP 0.443 - 0.449 as directed for road edge failure. Spread an 8" Lift of Pit-Run (approx. 1,375 CY) Capped with a 4" Lift Crushed Rock (approx. 675 CY) as marked. Remove Tank Trap and fill with rock @ MP 0.097 as marked and directed.
3-7-34.1 TIE	0+00	1+00	1+00	6		14	2						PRR	A		12'	4"	ASC	C	1	New Construct. Place 335 CY Pit-Run Fill Rock as elevation transition to adjoining roads as designed and directed. Spread a 4" Lift Crushed Rock (approx. 25 CY) over Pit-Run Fill as marked. Culvert for stream crossing is listed in the 4-7-3.1 Road Notes (One culvert is used to span under both roads).



- *NOTES**
- Extra subgrade widths**
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)
 - Backslopes**

Materials	Cut slopes	Fill slopes
Solid rock	1/4:1	Angle of repose
Soft rock and shale	1/2:1	
Common		
Slopes under 55%	1:1	1-1/2:1
Slopes over 55%	3/4:1	1-1/2:1

Note:
Full bench construction is required on side slopes exceeding 60%.
 - Surface type**

	Grading
PRR - Pit run rock	A - 3"
GRR - Grid rolled rock	B - 2"
SRN - Screened rock	C - 3" jaw run (base course)
JRR - Jaw run rock	
ABC - Aggr. base course	D - 1-1/2"
ASC - Aggr. surface course	E - 1"
WC - Wood chips	F - 3/4" (surface course)
 - Turnouts**
Width - 10 ft. in addition to subgrade width, or as shown on the plans.
Located approximately as shown on the plans. Intervisible and not more than 750 ft. apart.
 - Surfacing**
Turnouts, curve widening and road approach aprons shall be surfaced.
 - Clearing width**
See Section 200.
 - As posted and painted for Right-of-Way:
 - Drainage**
See Culvert List
 - Compaction**
See Sections 300 and 400.
- * Clearing Limits as posted on ground

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING (*5)										Remarks
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE					
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	
3-7-34.3	0+00	3+28	3+28	4		14	0					PRR	A				ASC	C		Improvement. Place 50 CY Pit-Run Fill Rock as elevation transition to adjoining roads as designed and directed. Spread 20 CY Crushed Spot Rock as cap over Pit-Run Fill as marked. Construct 50 ft radius curve with widening between Sta. 0+00 - 0+85 as marked. Road follows OHV Trail between Sta. 1+22 - 3+28. Remove trail signs for sale activities and re-install after sale activities have been completed. Construct a Landing as marked (approx. 50 ft. diameter).
3-7-35.0	0.000	0.736	0.736	6		14	2					PRR	A		12'	4"	ASC	C	1	Renovation. Spread 70 CY Crushed Spot Rock as marked. Place 100 CY Pit-Run Fill Rock as elevation transition to adjoining roads Between MP 0.373 - 0.400 as designed and directed. Spread a 4" Lift Crushed Cap Rock over Pit-Run Fill Rock (approx. 30 CY Crushed Rock) as directed. Spread 30 CY Pit-Run Spot/Base Rock as marked. Place 30 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Remove bank sloughs and haul to waste area as directed. Construct lead-off ditches at culvert outlets to direct water away from road @ MP 0.545 and 0.639. Construct ditchouts as needed. Construct a waste area @ MP 0.119, 0.237, and 0.400 as directed. Install 3 culverts. Install 3 Inlet markers as directed. Construct a Landing as marked (approx. 40 ft diameter).
3-7-36.1	0.000	0.187	0.187	6		14	2					PRR	A		12	4"	ASC	C	1	Renovation. Spread 80 CY Crushed Spot Rock as marked and needed. Spread 35 CY Pit-Run Base Rock as marked. Spread 80 CY Pit-Run Spot Rock as marked. Place 35 CY Crushed Bedding/Backfill Rock as marked. Spread a 4" List of Crushed Rock between MP 0.102 - 0.136 and 0.151 - 0.171 as marked. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Construct a Turnaround @ MP 0.102 & 0.187 as marked. Remove existing waterbars. Remove Old Culvert alongside road @ MP 0.179. Install 2 culverts (1 is in existing ditchline for OHV Trail Access) and replace 1 culvert. Install 2 Inlet markers as directed.
3-7-36.2	0.000	0.220	0.220	6		14	2					PRR	A				ASC	C		Renovation. Spread 50 CY Crushed Spot Rock as marked and needed. Spread 25 CY Pit-Run Spot/Base Rock as marked. Place 25 CY Crushed Bedding/Backfill Rock as marked. Spread 40CY Pit-Run Spot Rock in Turnarounds @ MP 0.096 & 0.220 as marked. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Construct a waste area @ MP 0.096 & 0.199 as marked. Remove existing waterbars. Install 1 culvert and replace 1 culvert. Install 1 Inlet marker as directed.
3-7-36.9	0+00	2+30	2+30	6		14	2										ASC	C		Renovation. Spread 40 CY Crushed Spot Rock as marked and needed. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Remove Existing waterbars and Barrier. Road is to be restored to Motorcycle traffic only when decommissioning.

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

***NOTES**

1. Extra subgrade widths
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)

2. Backslopes
Materials Cut slopes Fill slopes
Solid rock 1/4:1 Angle of repose
Soft rock and shale 1/2:1
Common
Slopes under 55% 1:1 1-1/2:1
Slopes over 55% 3/4:1 1-1/2:1

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

3. Surface type
PRR - Pit run rock
GRR - Grid rolled rock
SRN - Screened rock
JRR - Jaw run rock
ABC - Aggr. base course
ASC - Aggr. surface course
WC - Wood chips

Grading
A - 3"
B - 2"
C - 3" jaw run (base course)
C - 1-1/2"
D - 1" (surface course)
E - 3/4"

4. Turnouts
Width - 10 ft. in addition to subgrade width, or as shown on the plans. Located approximately as shown on the plans. Intervisible and not more than 750 ft. apart.

5. Surfacing
Turnouts, curve widening and road approach aprons shall be surfaced.

6. Clearing width
See Section 200.

7. As posted and painted for Right-of-Way:

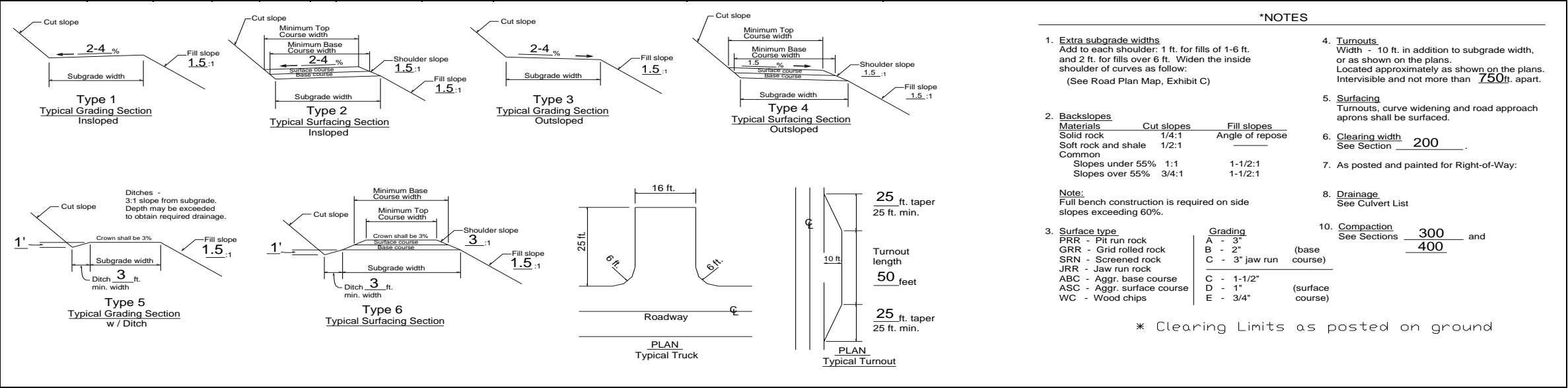
8. Drainage
See Culvert List

10. Compaction
See Sections 300 and 400

* Clearing Limits as posted on ground

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING (*5)										Remarks		
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE							
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts			
4-7-1.0	0.000	2.821	2.851	6		14	2							PRR	A				ASC	C		Renovation. Spread 750 CY crushed Spot Rock as marked and needed. Spread 355 CY Pit-Run Spot/Base Rock as marked. Place 20 CY Pit-Run as Fill Slope Armor @ MP 1.553 (10CY on inlet side and 10 CY on outlet side). Place 370 CY Crushed Bedding/Backfill Rock as marked. Place 5 CY Class 5 RipRap around culvert inlet for Protection from OHV Traffic @ MP 1.925 as marked. Place 5 CY Class 3 RipRap as fill armor @ culvert inet @ MP 0.326 as marked. Place 40 CY Class 3 RipRap as dissipater @ culvert outlets @ MP 0.326, 0.687, 1.284, 1.314, and 1.578 as marked. Place 5 CY Class 3 RipRap @ end of downspout @ MP 0.906 as marked. Re-establish ditchline and haul material to WA. Construct ditchouts and lead-ff ditches as needed and marked. Remove Bank Slough as needed and haul to waste areas. Construct turnouts as needed and marked. Construct 4 sediment catch basins w/ straw bales in ditchline as marked. Construct waste areas @ MP 0.519, 0.642, 0.790, 2.040, and 2.696 as marked. Construct driveable waterbars in ditchline for OHV Trail access @ MP 0.116, 0.330, 1.709, and 2.487 as marked. Install 9 culverts (2 are in existing ditchline for trail access), replace 13 culverts (5 are in larger fills), and Install 2 downspouts. Install 30 Inlet markers and re-use 1 marker as directed.
	2.821	2.859	0.038	6		14	2							PRR	A		12'	4"	ASC	C	1	Improvement. Place 235 CY Pit-Run Fill Rock as elevation transition to adjoining roads as designed and directed. Spread a 4" Lift Crushed Rock (approx. 65 CY) over Pit-Run Fill as marked. Construct 1 sediment catch basin with straw bale in ditchline as marked.
4-7-2.3	0.000	0.585	0.585	6		14	2							PRR	A				ASC	C		Renovation. Spread 200 CY Crushed Spot Rock as marked. Spread 40 CY Pit-Run Base Rock as marked. Spread 20 CY Pit-Run Spot Rock on Landing @ MP 0.585 as marked. Place 40 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA as directed. Construct ditchouts as needed. Construct a waste area @ MP 0.393 as directed. Remove existing waterbars. Install 1 culvert and replace 2 culverts (1 is in a larger fill). Install 3 metal inlet markers and re-use 1 existing inlet marker.
4-7-2.4	0.000	0.105	0.105	6		14	2							PRR	A				ASC	C		Renovation. Spread 40 CY Crushed Spot Rock as marked. Spread 60 CY Pit-Run Spot Rock on Turnaround and Landing as marked. Re-establish ditchline and haul material to MP 0.082 as fill for Turnaround as directed. Construct Landing as marked (approx. 50 ft diameter).
4-7-2.5	0.000	0.017	0.016	6		14	2							PRR	A				ASC	C		Improvement. Place 50 CY Pit-Run Rock for curve widening and fill as marked. Spread 20 CY Crushed Rock as cap over Pit-Run Fill as marked. Place 10 CY Crushed Cuvlert Bedding/Backfill as marked. Spread 10 CY Pit-Run Base/backfill as marked. Spread 10 CY Crushed Spot Rock as marked. Re-establish ditchline and haul material to WA. Remove existing waterbars. Excavate Lead-off ditch at culvert outlet @ MP 0.016. Replace 1 culvert. Re-use existing inlet marker.
	0.017	0.049	0.032	6		14	2							PRR	A				ASC	C		Renovate. Place 10 CY Crushed Cuvlert Bedding/Backfill as marked. Spread 10 CY Pit-Run Base/backfill as marked. Spread 10 CY Crushed Spot Rock as marked. Re-establish ditchline and haul material to WA. Remove existing waterbars. Install 1 culvert. Install inlet marker.
	0.049	0.116	0.067	4		14	0							PRR	A				ASC	C		Renovation. Spread 40 CY Pit-Run Spot Rock in turnaround and landing as marked. Construct Turnaround and Landing as marked (approx. 40 ft diameter).
4-7-2.6	0+00	7+65	7+65	3		14	0															Improvement. Road follows OHV Trail. Trail is to be restored after sale activities have been completed. Remove trail signs for sale activities and re-install after sale activities have been completed. Construct a turnaround @ Sta. 6+58 as marked.
	7+65	9+00	1+35	3		14	0															New Construct. Road leaves OHV trail. Construct a Landingas marked (approx. 40 ft diameter).



150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING (*5)										Remarks	
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE						
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts		
4-7-3.1	0.000	0.557	0.557	6		14	2					PRR	A					ASC	C		Renovation. Spread 110 CY Crushed Spot Rock as marked and needed. Spread 195 CY Pit-Run Spot/Base Rock as marked. Place 95 CY Crushed Bedding/Backfill Rock as marked. Place 10 CY Class 3 RipRap as fill armor @ culvert inlets @ MP 0.080 and 0.409 as marked. Place 15 CY Class 3 RipRap as dissipater @ culvert outlets @ MP 0.080, 0.409, and 0.457 as marked. Re-establish ditchline and haul material to WA. Construct ditchouts and lead-off ditches as needed and marked. Remove Bank Slough as needed and haul to waste areas. Construct turnouts as needed and marked. Construct 3 sediment catch basins w/ straw bales in ditchline as marked. Construct a turnaround and waste area @ MP 0.193 as marked. Install 2 culverts, replace 4 culverts (3 are in larger fills). Install 4 Inlet markers as directed.
	0.557	0.596	0.039	6		14	2					PRR	A		12'	4"		ASC	C	1	Improvement. Place 240 CY Pit-Run Fill Rock as elevation transition to adjoining roads as designed and directed. Spread a 4" Lift Crushed Rock (approx. 55 CY) over Pit-Run Fill as marked. Re-establish/Lower stream channel after culvert outlet as directed. Replace 1 culvert (also is stream crossing for 3-7-34.1 TIE) as directed. Install 1 Inlet Marker.
4-7-3.2	0.000	0.165	0.165	6		14	2					PRR	A					ASC	C		Renovation. Spread 50 CY Crushed Spot Rock as marked and needed. Spread 10 CY Pit-Run Base Rock as marked. Place 10 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA as directed. Construct ditchouts as needed. Remove existing waterbars. Replace 1 culvert. Install 2 Inlet Markers and re-use 1 inlet marker.
	0.165	0.195	0.030	6		14	2			20'	8"	PRR	A	2							Improvement. Spread an 8" Lift Pit-Run Rock (approx. 110 CY) over Fill as marked. Use material from construction of the 4-7-3.8 as fill material to slacken grade between roads. Construct a 50' radius curve and surface accordingly.
4-7-3.7	0+00	7+11	7+11	3		14	0														Improvement. Construct a turnaround @ Sta. 5+17 as marked. Construct Landing as marked (approx. 40' diameter).
4-7-3.8	0+00	20+15	20+15	3		14	0	17%	17%												New Construct. Continue 50' radius curve from the 4-7-3.2 between Stations 0+00 - 0+30. Construct a Turnaround as marked (Station 18+73). Construct Landings as marked. (approx. 50 ft diameter).
4-7-4.0	0.000	0.115	0.115	6		14	2					PRR	A					ASC	C		Renovation. Spread 20 CY Crushed Spot Rock as marked and needed. Construct ditchouts as needed. Re-establish ditchline and haul material to waste area as directed.
4-7-4.1	0+00	24+81	24+81	4		14	0											ABC	A		Renovation. Spread 100 CY 3"-0" Crushed Spot Rock as marked and needed. Remove Existing Waterbars. Widen to the right for curve widening by removing berm between Stations 9+20 - 10+83 as marked. Construct a Waste Area @ Station 23+20 as marked. Construct Landing as marked (approx. 50' Diameter).
4-7-4.2	0.000	0.070	0.070	6		14	2					PRR	A					ABC	A		Renovation. Spread 30 CY 3"-0" Crushed Spot Rock as marked and needed. Spread 20 CY Pit-Run in Turnaround as marked. Remove Existing Waterbars. Re-establish ditchline and haul material to waste area as directed. Construct a Turnaround @ MP 0.070 as marked. Install 1 Inlet Marker.

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

***NOTES**

1. Extra subgrade widths
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)

2. Backslopes

Materials	Cut slopes	Fill slopes
Solid rock	1/4:1	Angle of repose
Soft rock and shale	1/2:1	
Common		
Slopes under 55%	1:1	1-1/2:1
Slopes over 55%	3/4:1	1-1/2:1

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

3. Surface type

	Grading
PRR - Pit run rock	A - 3"
GRR - Grid rolled rock	B - 2"
SRN - Screened rock	C - 3" jaw run (base course)
JRR - Jaw run rock	
ABC - Aggr. base course	C - 1-1/2"
ASC - Aggr. surface course	D - 1"
WC - Wood chips	E - 3/4" (surface course)

4. Turnouts
Width - 10 ft. in addition to subgrade width, or as shown on the plans.
Located approximately as shown on the plans. Intervisible and not more than 750ft. apart.

5. Surfacing
Turnouts, curve widening and road approach aprons shall be surfaced.

6. Clearing width 200
See Section

7. As posted and painted for Right-of-Way:

8. Drainage
See Culvert List

10. Compaction 300 and 400
See Sections

* Clearing Limits as posted on ground

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING (*5)										Remarks		
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE							
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts			
4-7-6.0 East	0.000	0.985	0.985	6		14	2							PRR	A				ASC	C		Renovation. Spread 250 CY Crushed Spot Rock as marked and needed. Spread 70 CY Pit-Run Spot/Base Rock as marked. Place 80 CY Crushed Bedding/Backfill Rock as marked. Place 10 CY Class 3 RipRap as dissipater @ culvert outlets @ MP 0.428, and 0.520 as marked. Re-establish ditchline and haul material to WA. Construct ditchouts and lead-ff ditches as needed and marked. Remove Bank Slough as needed and haul to waste areas. Construct turnouts as needed and marked. Construct 7 sediment catch basins w/ straw bales in ditchline as marked. Construct waste areas @ MP 0.054, 0.375, 0.467, 0.653, and 0.767 as marked. Install 3 culverts (one is for OHV trail access), replace 3 culverts (1 is in larger fill). Install 11 Inlet markers as directed.
4-7-6.0 West	0.000	1.315	1.315	6		14	2							PRR	A				ASC	C		Renovation. Spread 300 CY crushed Spot Rock as marked and needed. Spread 170 CY Pit-Run Spot/Base Rock as marked. Place 10 CY Pit-Run as ditchline armor in 2'x 2' excavated ditchline (between MP 0.401 - 0.416) as marked and directed. Place 150 CY Crushed Bedding/Backfill Rock as marked. Place 10 CY Class 3 RipRap and 10 CY Class 5 RipRap @ culvert outlet @ MP 0.150 as Stabilization Wall/Dissipater as directed. Re-establish ditchline and haul material to WA. Construct ditchouts and lead-off ditches as needed. Construct turnouts as needed. Remove bank sloughs and haul to waste area as directed. Construct 1 sediment catch basin w/ straw bale in ditchline as marked and directed. Remove Existing Waterbars. Construct a waste area @ MP 0.322, 0.695, 1.040, and 1.219 as directed. Install 6 culverts, replace 4 culverts (1 is in a larger fill), and install 2 downspouts as marked. Install 10 Inlet markers as directed.
4-7-17.1	0.000	0.109	0.109	6		14	2												ASC	C		Renovation. Spread 30 CY Crushed Spot Rock as marked and needed. Construct Turnouts and Ditchouts as marked and directed. Re-establish Ditchline and Haul Material to Waste Area.
4-7-17.3	0.000	0.093	0.093	6		14	2												ASC	C		Renovation. Spread 30 CY Crushed Spot Rock as marked and needed. Construct a turnaround and waste area @ MP 0.093 as marked and directed. Re-establish Ditchline and Haul Material to Waste Area.
4-7-19.1	0.000	0.202	0.202	6		14	2							PRR	A				ASC	C		Renovation. Spread 70 CY crushed Spot Rock as marked and needed. Spread 15 CY Pit-Run Spot/Base Rock as marked. Place 10 CY drain rock for french drain @ MP 0.202 as directed. Place 45 SY non-woven fabric for free drain @ MP 0.202 as directed. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Construct a Turnaround @ MP 0.200 as marked. Place non-merchantable material between turnaround and stream for vehicular barrier to stream. Install 1 peforated culvert for free draining fill. Install 1 Inlet marker as directed.
4-7-19.3	0+00	7+51	7+51	6		14	2							PRR	A				ASC	C		Renovation. Spread 30 CY Crushed Spot Rock as marked and needed. Widen to the left for curve widening between Stations 2+00 - 3+85 as marked. Re-establish Ditchline and Haul Material to Waste Area. Construct a Waste Area @ Station 1+37 as marked. Construct Turnaround @ Station 6+38 and Spead 20 CY Pit-Run as marked. Construct Landing as marked (approx. 40' Diameter). Replace 1 Culvert and Replace 1 culvert (in medium fill). Install 2 Inlet Markers.
4-7-19.4	0.000	0.213	0.213	6		14	2							PRR	A				ASC	C		Renovation. Spread 30 CY Crushed Spot Rock as marked and needed. Spread 40 CY Pit-Run in Turnaround and Landing as marked. Construct ditchouts as needed. Re-establish dithcline and haul material to waste area as directed. Construct a Turnaround @ MP 0.200 as marked. Construct Landing as marked (approx. 40' diameter).
4-7-19.8	0.000	0.112	0.112	6		14	2							PRR	A				ABC ASC	A C		Renovation. Spread 30 CY 3"-0" Crushed Spot Rock as marked. Spread 15 CY Pit-Run Base Rock as marked. Place 15 CY 1-1/2"-0" Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA as directed. Construct ditchouts as needed. Construct a Waste Area @ MP 0.032 as marked. Construct Landing as marked (approx. 50' diameter). Install 1 culvert (in Ditchline for skid trail access). Install 1 Inlet Marker.

***NOTES**

1. Extra subgrade widths
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)

2. Backslopes

Materials	Cut slopes	Fill slopes
Solid rock	1/4:1	Angle of repose
Soft rock and shale	1/2:1	
Common		
Slopes under 55%	1:1	1-1/2:1
Slopes over 55%	3/4:1	1-1/2:1

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

3. Surface type

PRR - Pit run rock	Grading
GRR - Grid rolled rock	A - 3"
SRN - Screened rock	B - 2"
JRR - Jaw run rock	C - 3" jaw run (base course)
ABC - Aggr. base course	C - 1-1/2"
ASC - Aggr. surface course	D - 1"
WC - Wood chips	E - 3/4"

4. Turnouts

Width - 10 ft. in addition to subgrade width, or as shown on the plans. Located approximately as shown on the plans. Intervisible and not more than 750ft. apart.

5. Surfacing

Turnouts, curve widening and road approach aprons shall be surfaced.

6. Clearing width

See Section 200

7. As posted and painted for Right-of-Way:

8. Drainage

See Culvert List

10. Compaction

See Sections 300 and 400

9. Clearing Limits as posted on ground

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIANT		SURFACING (*5)										Remarks
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE					
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	
4-7-19.9	0.000	0.200	0.200	6		14	2										ABC ASC	A C		Renovation. Spread 10 CY 3"-0" Crushed Spot Rock as marked. Spread 10 CY Pit-Run Base Rock as marked. Spread 20 CY Pit-Run Spot Rock in Turnaround and Landing as marked. Place 10 CY 1-1/2"-0" Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA as directed. Construct ditchouts as needed. Construct a Turnaround @ MP 0.117 as marked. Construct Landing as marked (approx. 50' diameter). Replace 1 culvert. Install 1 Inlet Marker.
4-7-19.11	0+00	7+55	7+55	3		14	0	17%	17%											New Construct. Construct a Turnaround as marked (Station 5+95). Drift excess material to flat area to Construct Landing as marked. (approx. 50 ft diameter).
4-7-19.12	0+00	11+73	11+73	3		14	0	17%	17%											New Construct. Construct a Turnaround as marked (Station 9+70). Construct Landing as marked. (approx. 50 ft diameter).
4-7-20.1	0.000	0.619	0.619	6		14	2						PRR	A			ASC	C		Renovation. Spread 270 CY crushed Spot Rock as marked and needed. Spread 105 CY Pit-Run Spot/Base Rock as marked. Place 105 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Construct 3 sediment catch basins w/ straw bale in ditchline as marked and directed. Install 8 culverts (1 is in a log fill and is a medium fill). Install 9 Inlet markers.
	0.619	0.738	0.119	4		14	0						PRR	A						Renovation. Spread 30 CY Pit-Run Spot Rock in Turnaround as marked. Construct a turnaround @ MP 0.738 as marked and directed.
4-7-21.0	0.000	0.040	0.040	6		14	2						PRR	A			ASC	C		Renovation. Spread 25 CY crushed Spot Rock as marked and needed. Spread 15 CY Pit-Run Spot/Base Rock as marked. Place 15 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to Waste Area. Construct ditchouts as needed. Cut and replace/spread bituminous surfacing over culvert replacement area at MP 0.001 (approx. 4' wide x 32' long (approx. 4.8 tons asphalt). Replace 1 culvert. No Inlet Markers Needed.
4-7-21.5	0.000	0.181	0.181	6		14	2										ASC	A		Renovation. Spread 70 CY 3"-0" Crushed Spot Rock as marked and needed. Construct ditchouts as needed. Re-establish dithcline and haul material to waste area as directed. Remove Existing Waterbars. Install 1 Inlet Marker.
4-7-21.7	0+00	3+78	3+78	4		14	0						PRR	A						Renovation. Spread 20 CY Pit-Run Spot Rock as marked.
USFS 1400	0.000	3.120	3.120	6		14	2						PRR	A			ASC	C		Renovation. Spread 350 CY crushed Spot Rock as marked and needed. Spread 60 CY Pit-Run Spot/Base Rock as marked. Place 60 CY Crushed Bedding/Backfill Rock as marked. Place 10 CY Class 3 RipRap at Culvert Outlets as dissipater/stabilization wall @ MP 2.360 as marked. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Replace 4 culverts (1 is in a large fill). Install 4 Inlet markers.

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

*NOTES

1. **Extra subgrade widths**
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)
- | Materials | Cut slopes | Fill slopes |
|---------------------|------------|-----------------|
| Solid rock | 1/4:1 | Angle of repose |
| Soft rock and shale | 1/2:1 | |
| Common | | |
| Slopes under 55% | 1:1 | 1-1/2:1 |
| Slopes over 55% | 3/4:1 | 1-1/2:1 |
- Note:
Full bench construction is required on side slopes exceeding 60%.
3. **Surface type**

PRR - Pit run rock	A - 3"
GRR - Grid rolled rock	B - 2"
SRN - Screened rock	C - 3" jaw run
JRR - Jaw run rock	
ABC - Aggr. base course	C - 1-1/2"
ASC - Aggr. surface course	D - 1"
WC - Wood chips	E - 3/4"

Grading

A - 3"	
B - 2"	(base course)
C - 3" jaw run	
C - 1-1/2"	
D - 1"	(surface course)
E - 3/4"	
4. **Turnouts**
Width - 10 ft. in addition to subgrade width, or as shown on the plans. Located approximately as shown on the plans. Intervisible and not more than 750 ft. apart.
5. **Surfacing**
Turnouts, curve widening and road approach aprons shall be surfaced.
6. **Clearing width**
See Section 200.
7. As posted and painted for Right-of-Way:
8. **Drainage**
See Culvert List
10. **Compaction**
See Sections 300 and 400

* Clearing Limits as posted on ground



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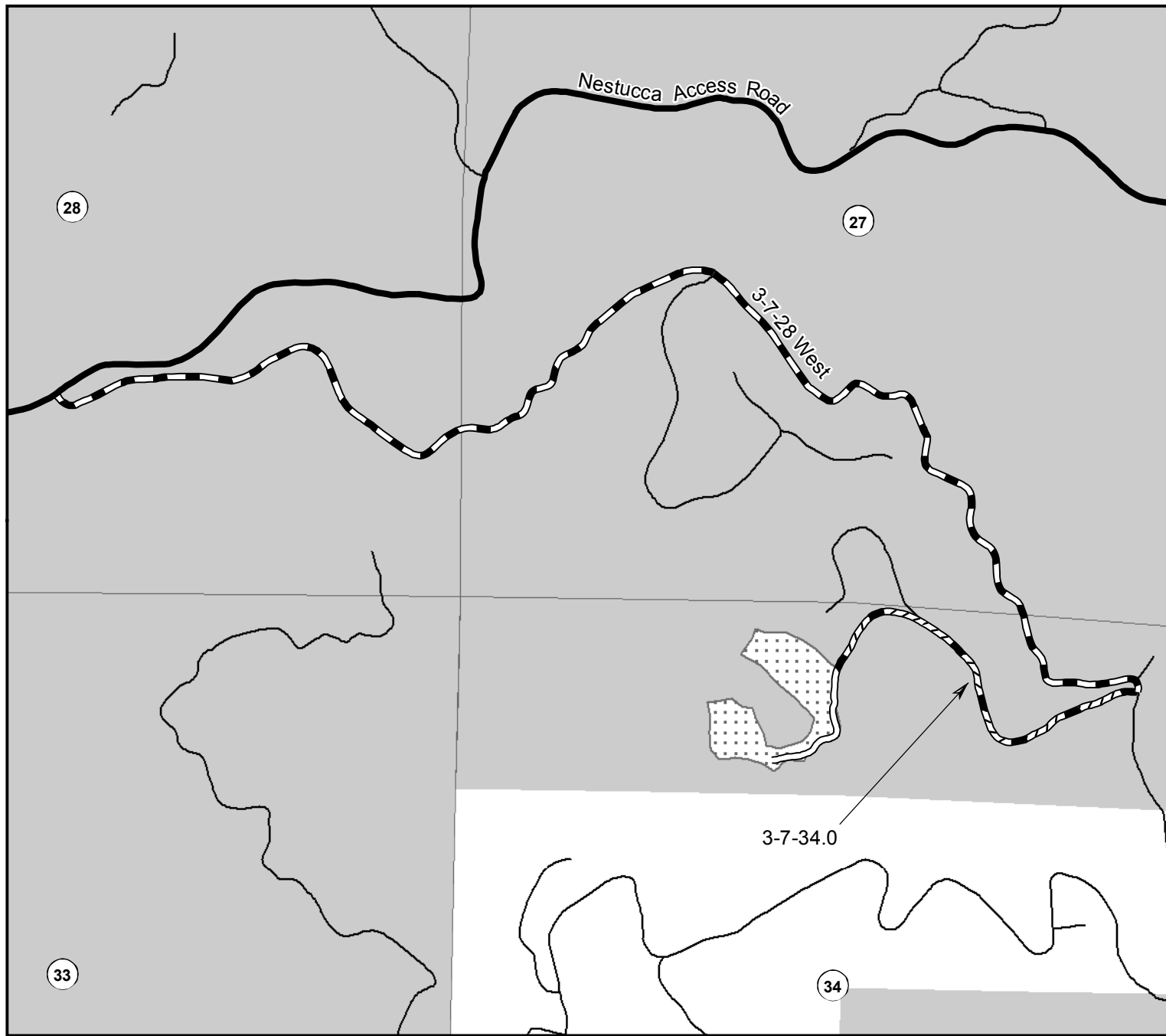
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit C
Page 44 of 73

Road Plan Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

6/27/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



3-7-35

Rock surfaced road to be renovated, stabilize after use

Super Cooper Project Area

Rock surfaced road to be renovated, long term closure after use

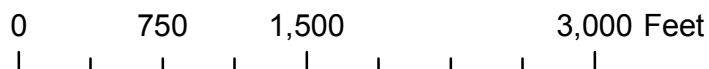
Other Roads

Rock surfaced road to be renovated

Bureau of Land Management

Paved road

1 inch = 1,000 feet





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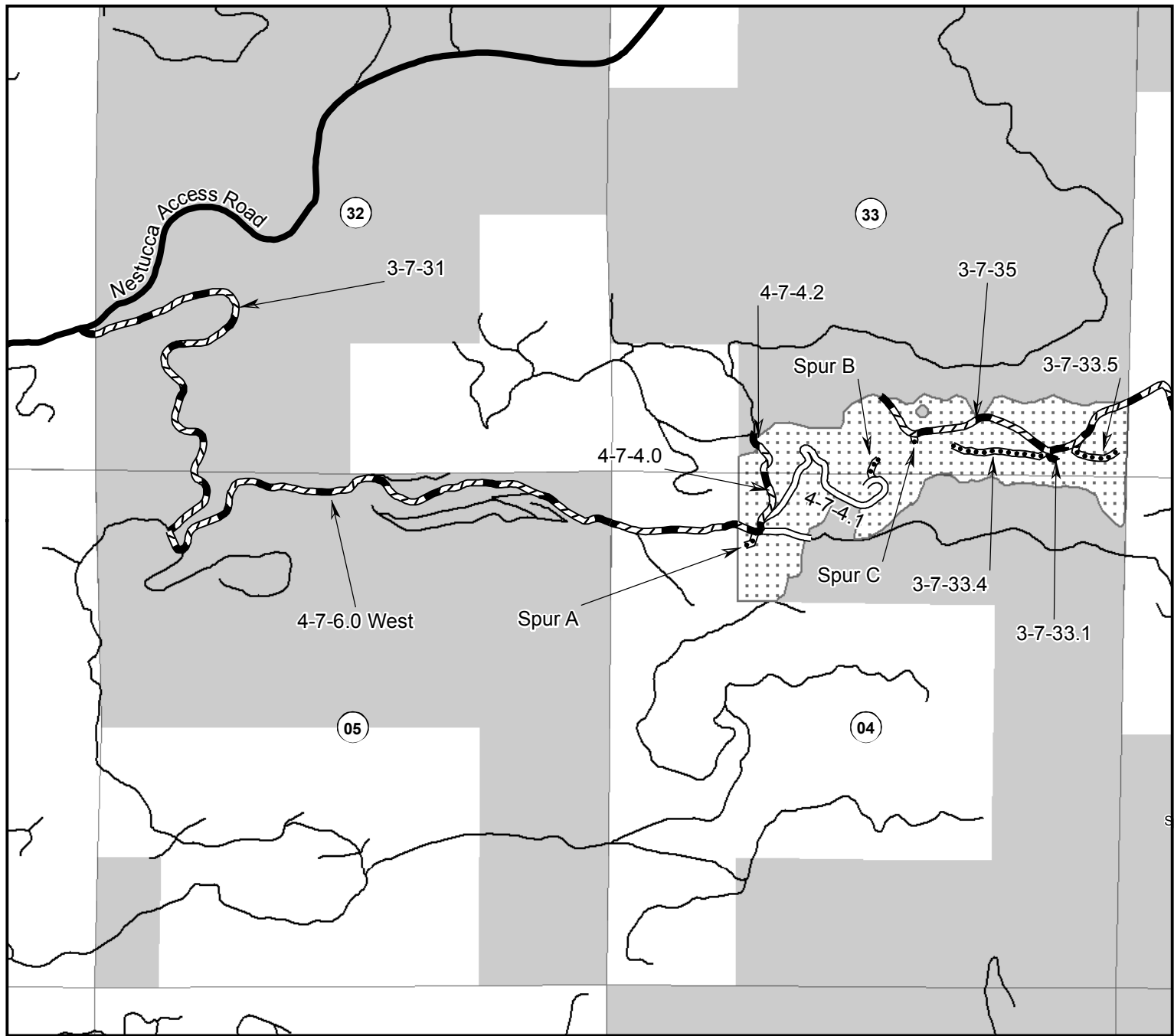
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit C
Page 45 of 73

Road Plan Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

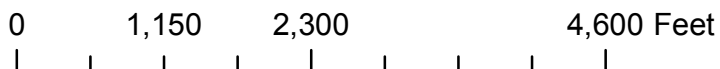
6/27/2018

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- | | |
|---|---------------------------|
| Natural surfaced road to be constructed, decommission after use | Super Cooper Project Area |
| Rock surfaced road to be renovated, stabilize after use | Other Roads |
| Rock surfaced road to be renovated, long term closure after use | Bureau of Land Management |
| Rock surfaced road to be renovated | |
| Paved road | |

1 inch = 1,500 feet





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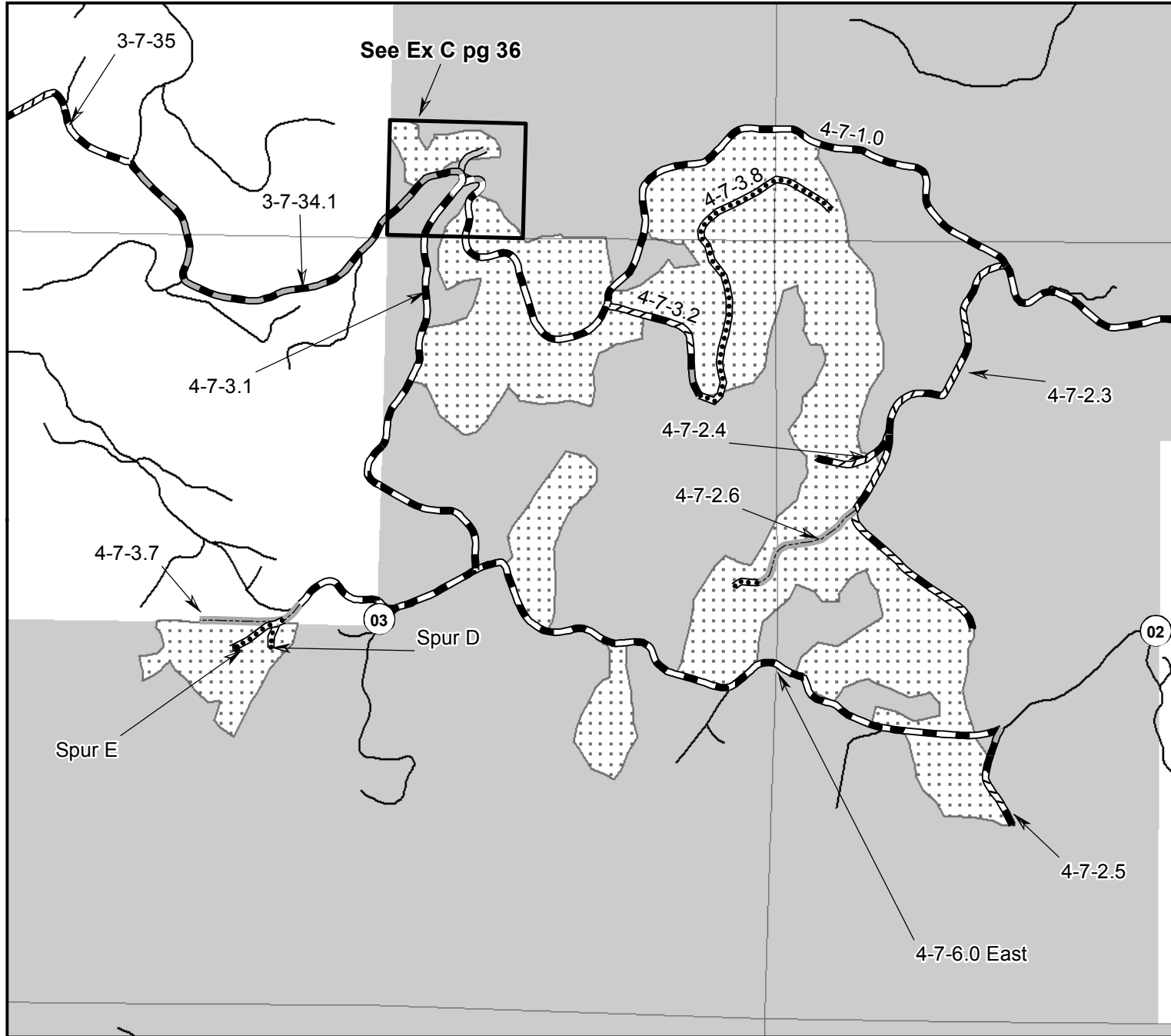
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit C
Page 46 of 73

Road Plan Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

6/27/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- Rock surfaced road to be improved, long term closure after use
- Natural surfaced road to be constructed, decommission after use
- Rock surfaced road to be constructed
- Rock surfaced road to be improved, stabilize after use
- Rock surfaced road to be improved
- Natural surfaced road to be improved, long term closure after use
- Rock surfaced road to be renovated, stabilize after use
- Rock surfaced road to be renovated

- Super Cooper Project Area
- Other Roads
- Bureau of Land Management

1 inch = 1,000 feet

0 750 1,500 3,000 Feet



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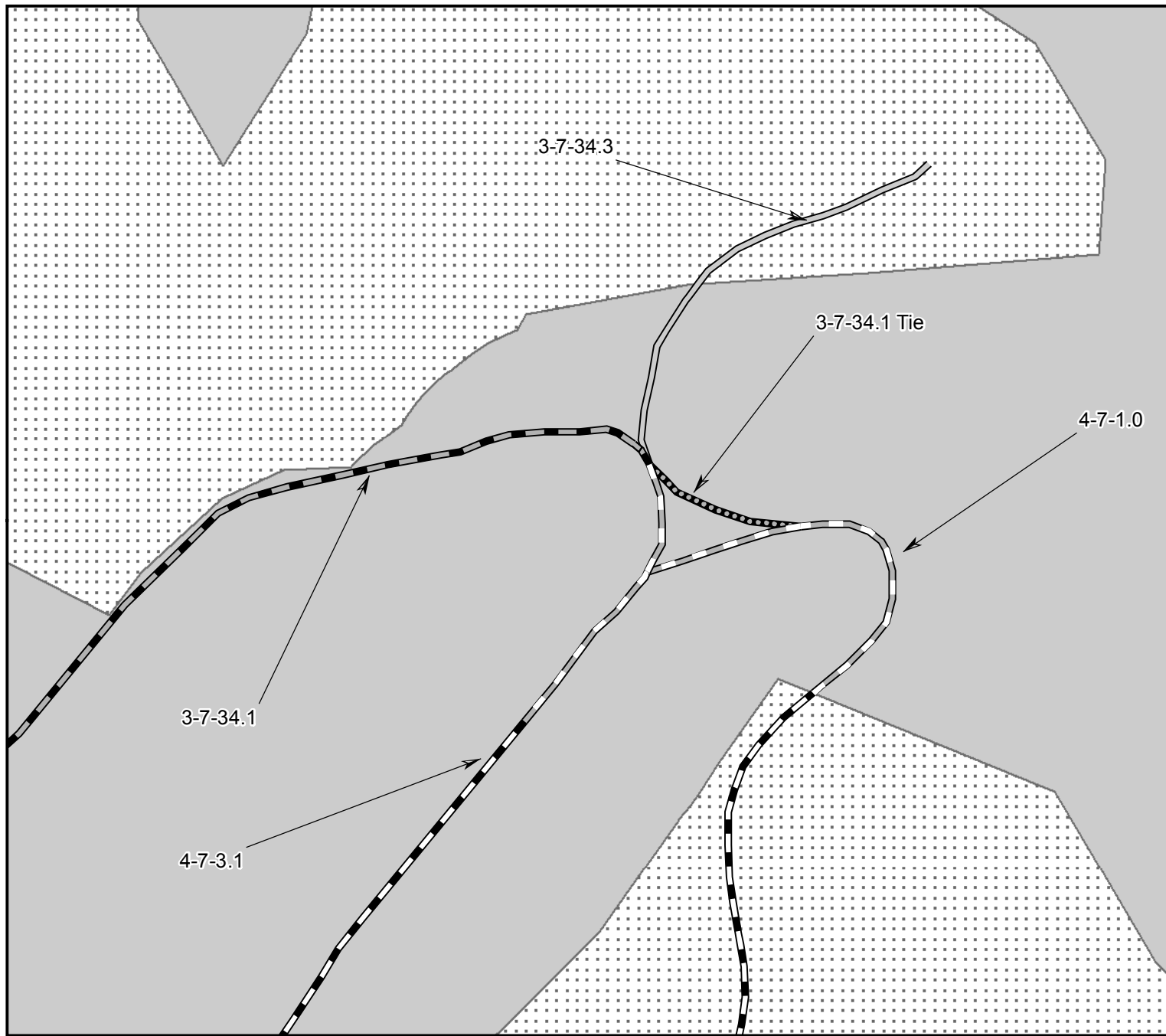
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit C
Page 47 of 73

Road Plan Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

6/27/2018

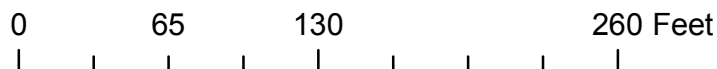
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- Rock surfaced road to be improved, long term closure after use
- ... Rock surfaced road to be constructed
- - - Rock surfaced road to be improved, stabilize after use
- Rock surfaced road to be improved
- - - Rock surfaced road to be renovated

- ... Super Cooper Project Area
- Other Roads
- Bureau of Land Management

1 inch = 83 feet





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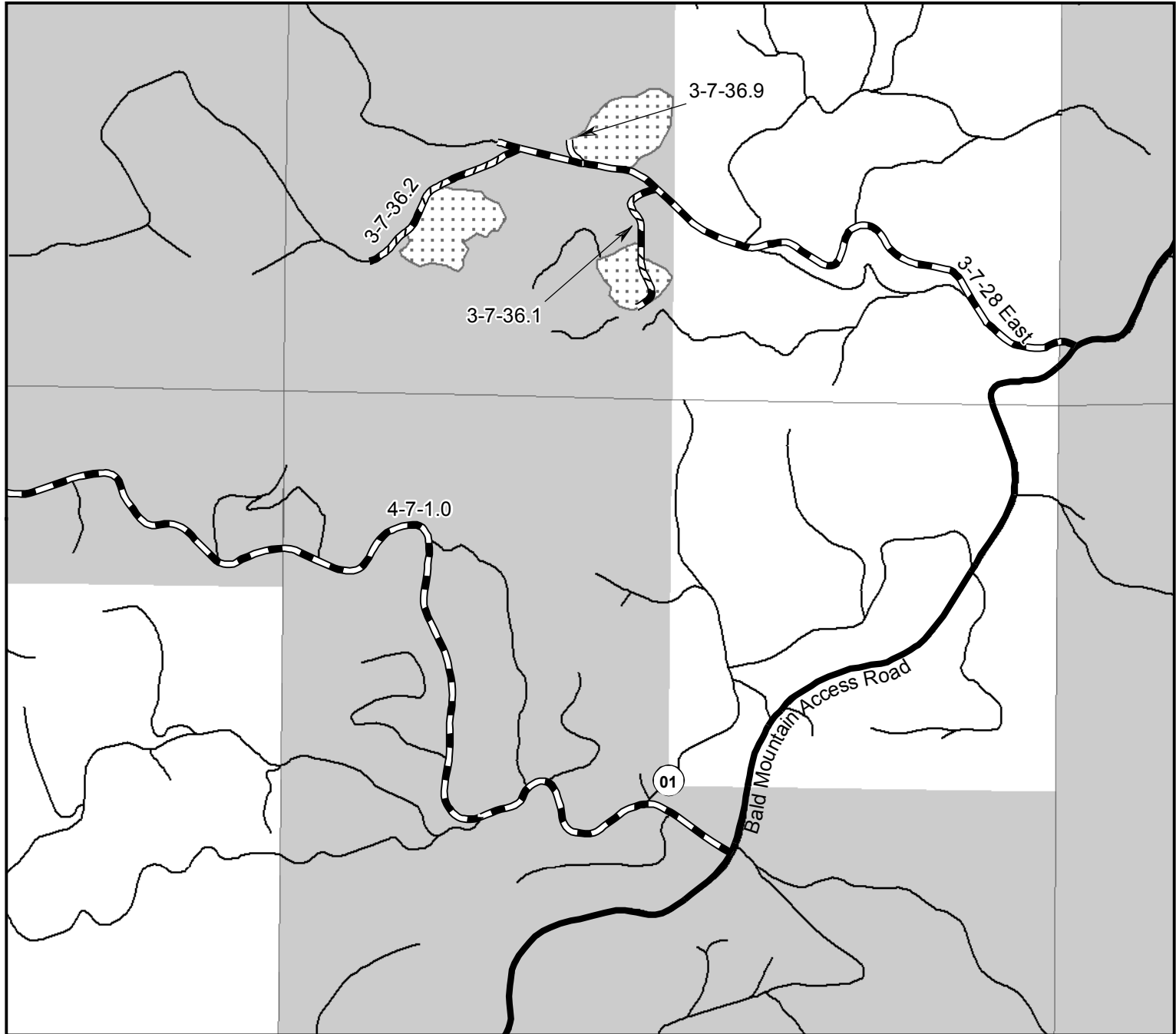
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit C
Page 48 of 73

Road Plan Map

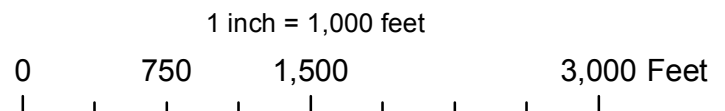
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6/27/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- | | |
|---|---------------------------|
| Rock surfaced road to be renovated, stabilize after use | Super Cooper Project Area |
| Rock surfaced road to be renovated, long term closure after use | Other Roads |
| Rock surfaced road to be renovated | Bureau of Land Management |
| Paved road | |





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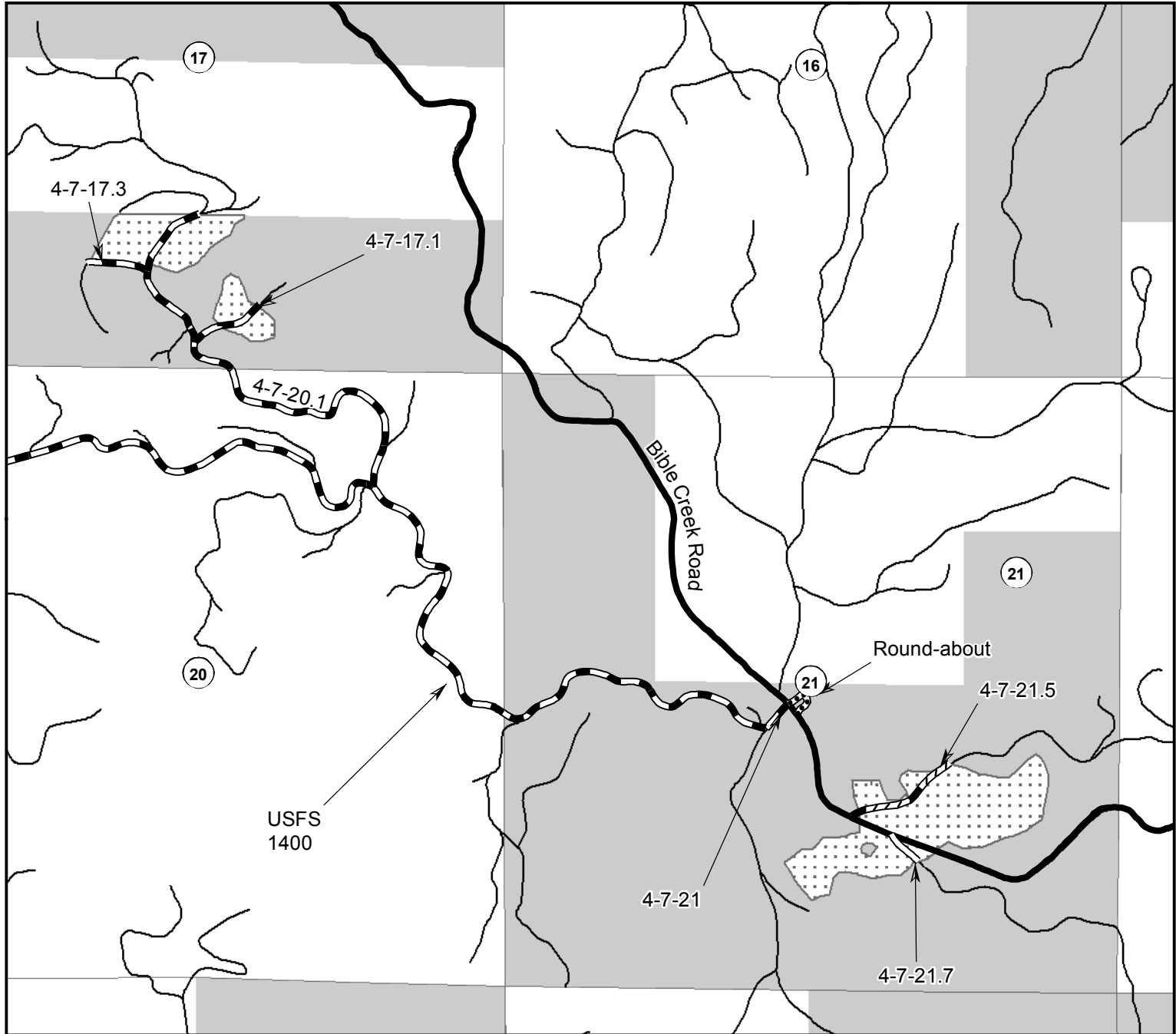
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit C
Page 49 of 73

Road Plan Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

6/27/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- | | |
|---|---------------------------|
| Natural surfaced road to be constructed, decommission after use | Super Cooper Project Area |
| Rock surfaced road to be renovated, stabilize after use | Other Roads |
| Rock surfaced road to be renovated, long term closure after use | Bureau of Land Management |
| Rock surfaced road to be renovated | |
| Paved road | |

1 inch = 1,250 feet

0 950 1,900 3,800 Feet



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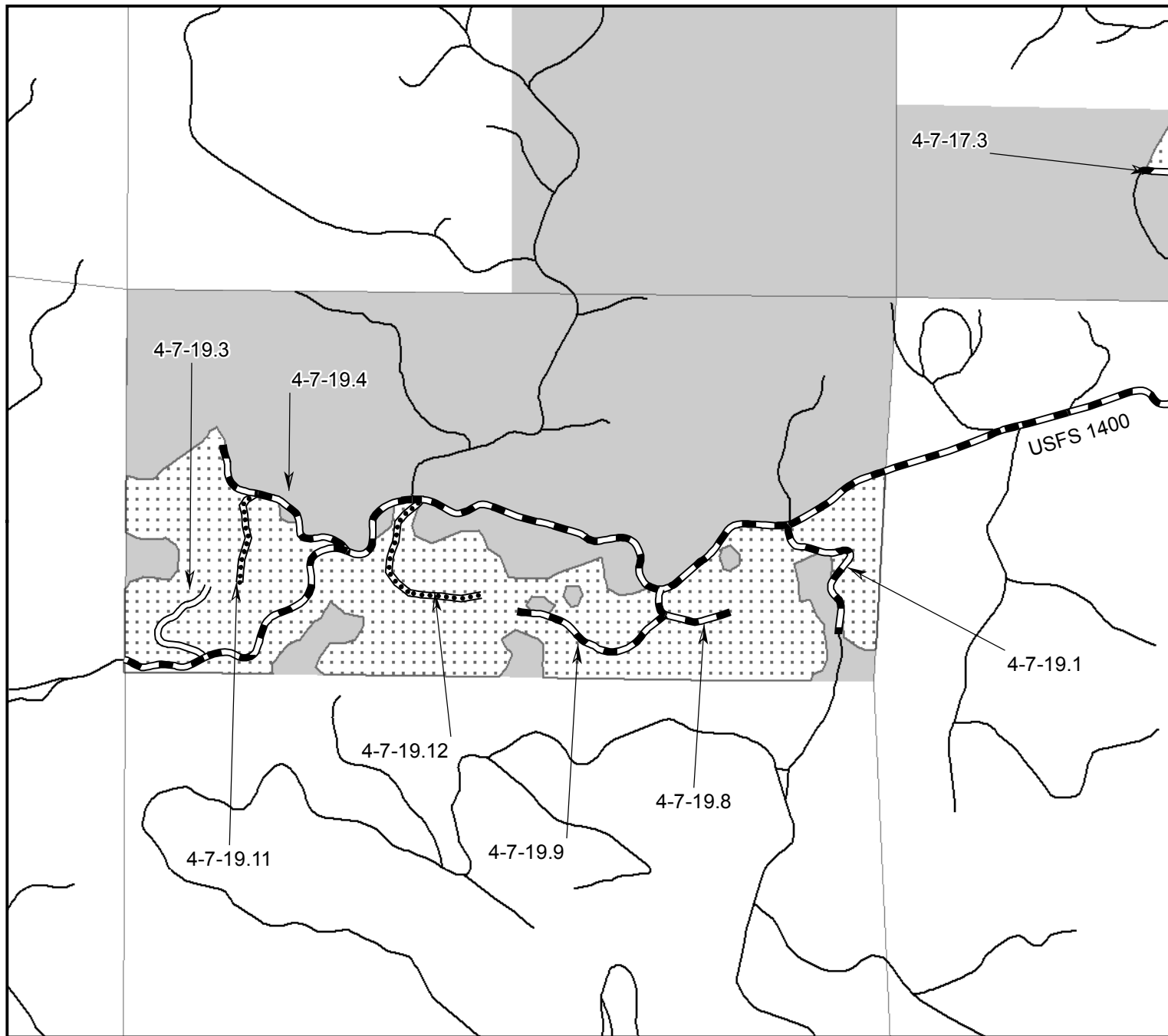
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit C
Page 50 of 73

Road Plan Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

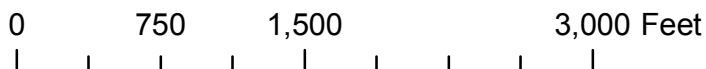
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T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- | | |
|---|---------------------------|
| Natural surfaced road to be constructed, decommission after use | Super Cooper Project Area |
| Rock surfaced road to be renovated, long term closure after use | Other Roads |
| Rock surfaced road to be renovated | Bureau of Land Management |

1 inch = 1,000 feet



Culvert List

CULVERT LOCATIONS														ROCK			REMARKS *6
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			RIP RAP (GRADING)			
														(a)		(b)	
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe	
3-7-28.0 East	0.011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install Metal Inlet Marker on Existing CMP.
	0.158	18"	--	34'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.222	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.299	24"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 4' fill @ CL). Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.342	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.466	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install Metal Inlet Marker on Existing CMP.
	0.534	18"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Place 5 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 5 CY Crushed Rock. No inlet marker needed.
	0.774	24"	--	40'	--	--	--	--	--	--	--	--	--	--	5	--	Replace existing culvert (approx. 5' fill @ CL). Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 5 CY Class 3 RipRap @ outlet as stabilization wall/dissipater. Install metal inlet marker.
3-7-28.0 West	0.061	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 6' fill @ CL). Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.079	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install Metal Inlet Marker on Existing CMP.
	0.114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install Metal Inlet Marker on Existing CMP.
	0.162	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install Metal Inlet Marker on Existing CMP.
	0.261	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install Metal Inlet Marker on Existing CMP.
	0.441	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.735	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install Metal Inlet Marker on Existing CMP.
	0.865	18"	--	30'	--	--	18"	1	10'	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.

	Gage Chart			1. Designed culvert lengths and locations are approximate. *2. all culverts have 2 2/3" x 1/2" unless otherwise noted. **** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.	*4. Downspout or Standpipe Types 1) Full 2) Half 3) Flume	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).	*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint *6. Include special sections, structures, headwalls, footings & other data.
	Gage	Dec. Inches					
		Steel	Alum.				
	10	.138	.135				
	12	.109	.105				
	14	.079	.075				
	16	.064	.060				

Culvert List

CULVERT LOCATIONS											ROCK			REMARKS *6																							
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT						RIP RAP (GRADING)																				
														(a)		(b)																					
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe																					
3-7-28.0 West (cont.)	1.002	18"	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over Pipe as Surfacing capped with 15 CY Crushed Rock. Install metal inlet marker.																				
	1.156	24"	--	32'	--	--	--	--	--	--	--	--	--	--	10	--	Replace existing culvert as marked in field. Place 25 CY Crushed Bedding/Backfill. Spread 25 CY Pit-Run Base Rock over Pipe as Surfacing capped with 20 CY Crushed Rock. Place 10 CY Class 3 RipRap @ outlet as dissipater/Stabilization Wall. Install metal inlet marker.																				
	1.216	36"	--	40'	--	--	--	--	--	--	--	--	--	--	50	--	Replace existing culvert (approx. 4' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 25 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Place 30 CY Class 5 RipRap and 20 CY Class 3 RipRap @ outlet as stabilization wall/dissipater. Lower outlet invert 3 ft deeper than existing culvert. Install metal inlet marker.																				
	1.348	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	1.427	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP. Re-attach existing downspout to CPP.																				
	1.540	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	1.611	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker.																				
	1.700	24"	--	36'	--	--	--	--	--	--	--	--	--	--	10	--	Replace existing culvert. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 10 CY Class 3 RipRap @ outlet as stabilization wall/dissipater. Lower outlet invert 3 ft deeper than existing culvert. Install metal inlet marker.																				
	1.876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
3-7-31.0	0.002	24"	--	56'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 30 CY Crushed Bedding/Backfill. Spread 30 CY Pit-Run Base Rock over Pipe as Surfacing capped with 20 CY Crushed Rock. No inlet marker needed.																				
	0.023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	0.113	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker. Re-attach existing flume.																				
	0.201	24"	--	40'	--	--	24"	1	20'	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over Pipe as Surfacing capped with 15 CY Crushed Rock. Install metal inlet marker.																				
	0.319	18"	--	34'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	0.453	18"	--	30'	--	--	18"	1	20"	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	0.560	18"	--	40'	--	--	18"	1	10'	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	0.726	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	0.810	36"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 5' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.																				
<div><div><table><tr><th colspan="3">Gage Chart</th></tr><tr><th rowspan="2">Gage</th><th colspan="2">Dec. Inches</th></tr><tr><th>Steel</th><th>Alum.</th></tr><tr><td>10</td><td>.138</td><td>.135</td></tr><tr><td>12</td><td>.109</td><td>.105</td></tr><tr><td>14</td><td>.079</td><td>.075</td></tr><tr><td>16</td><td>.064</td><td>.060</td></tr></table></div><div><p>1. Designed culvert lengths and locations are approximate.</p><p>*2. all culverts have 2 2/3" x 1/2"</p><p>unless otherwise noted.</p><p>**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.</p></div><div><p>*4. Downspout or Standpipe Types</p><p>1) Full</p><p>2) Half</p><p>3) Flume</p><p>*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall)).</p></div><div><p>*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint</p><p>*6. Include special sections, structures, headwalls, footings & other data.</p></div></div>																		Gage Chart			Gage	Dec. Inches		Steel	Alum.	10	.138	.135	12	.109	.105	14	.079	.075	16	.064	.060
Gage Chart																																					
Gage	Dec. Inches																																				
	Steel	Alum.																																			
10	.138	.135																																			
12	.109	.105																																			
14	.079	.075																																			
16	.064	.060																																			

Culvert List

CULVERT LOCATIONS														ROCK			REMARKS *6
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			RIP RAP (GRADING)			
														(a)		(b)	
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe	
3-7-34.0	0.127	24"	--	36'	--	--	--	--	--	--	--	--	--	--	5	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 5 CY Class 3 RipRap at culvert outlet as energy dissipater. Install metal inlet marker.
	0.155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.350	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.420	18"	--	36'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.553	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 4' fill @ CL). Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.588	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
3-7-34.1 TIE	0+28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	This culvert and the one on 4-7-3.1 MP 0.587 is the same one.
3-7-35.0	0.082	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.545	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.639	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
3-7-36.1	0.001	18"	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over Pipe as Surfacing capped with 15 CY Crushed Rock. No inlet marker needed.
	0.053	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.

	Gage Chart			1. Designed culvert lengths and locations are approximate. *2. all culverts have 2 2/3" x 1/2" unless otherwise noted. **** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culvets shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.	*4. Downspout or Standpipe Types 1) Full 2) Half 3) Flume	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).	*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint *6. Include special sections, structures, headwalls, footings & other data.
	Gage	Dec. Inches					
		Steel	Alum.				
	10	.138	.135				
	12	.109	.105				
	14	.079	.075				
	16	.064	.060				

Culvert List

CULVERT LOCATIONS														ROCK			REMARKS *6
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			RIP RAP (GRADING)			
														(a)		(b)	
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe	
4-7-1.0 (cont.)	0.481	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.576	18"	--	34'	--	--	--	--	--	--	--	--	--	--	--	--	Replace Existing Culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. No inlet marker needed.
	0.687	18"	--	34'	--	--	--	--	--	--	--	--	--	--	5	--	Replace Existing Culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Place 5 CY Class 3 RipRap @ outlet as dissipater. Install metal inlet marker needed.
	0.906	18"	--	36'	--	--	18"	1	10'	--	--	--	--	--	5	--	Replace Existing Culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Place 5 CY Class 3 RipRap @ outlet as dissipater @ end of downspout. Install metal inlet marker needed.
	0.975	18"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Place 5 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. No inlet marker needed.
	1.009	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace Existing Culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.177	18"	--	32'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 20 CY Crushed Rock. Re-use existing inlet marker.
	1.284	36"	--	70'	--	--	--	--	--	--	--	--	--	--	20	--	Replace existing culvert (approx. 8' fill @ CL). Place 40 CY Crushed Bedding/Backfill. Spread 30 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Place 20 CY Class 3 RipRap @ outlet as stabilization wall/dissipater. Install metal inlet marker.
	1.314	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.553	24"	--	56'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 9' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 25 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 10 CY Pit-Run on outlet fill as armor and 10 CY Pit-Run on inlet fill as armor. Install metal inlet marker.
	1.578	24"	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 6' fill @ CL). Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 5 CY Class 3 RipRap @ outlet as stabilization wall/dissipater. Install metal inlet marker.
	1.689	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	1.719	18"	--	34'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.

<div>Gage Chart</div>			<div>1. Designed culvert lengths and locations are approximate.</div>		<div>5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint</div>	
Gage	Dec. Inches		4. Downspout or Standpipe Types			
	Steel	Alum.				
10	.138	.135	1) Full 2) Half 3) Flume			
12	.109	.105				
14	.079	.075	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).			
16	.064	.060				
			2. all culverts have 2 2/3" x 1/2" unless otherwise noted.			
			6. Include special sections, structures, headwalls, footings & other data.			
			4. Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culvets shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.			

Culvert List

CULVERT LOCATIONS											ROCK			REMARKS *6																							
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT						RIP RAP (GRADING)																				
																	(a)		(b)																		
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe																					
4-7-1.0 (cont.)	1.799	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	1.852	18	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Lower outlet 2 feet below elevation of existing pipe. Install metal inlet marker.																				
	1.925	18"	--	30'	--	--	--	--	--	--	--	--	--	5	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Place 5 CY Class 5 RipRap around catch basin @ inlet to protect from OHV traffic. Install metal inlet marker.																				
	1.977	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	2.054	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	2.103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	2.254	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	2.315	18"	--	34'	--	--	18"	1	20'	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	2.343	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	2.394	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	2.487	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. No inlet marker needed.																				
	2.557	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	2.625	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	2.783	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
20	<table><tr><th colspan="3">Gage Chart</th></tr><tr><th rowspan="2">Gage</th><th colspan="2">Dec. Inches</th></tr><tr><th>Steel</th><th>Alum.</th></tr><tr><td>10</td><td>.138</td><td>.135</td></tr><tr><td>12</td><td>.109</td><td>.105</td></tr><tr><td>14</td><td>.079</td><td>.075</td></tr><tr><td>16</td><td>.064</td><td>.060</td></tr></table>			Gage Chart			Gage	Dec. Inches		Steel	Alum.	10	.138	.135	12	.109	.105	14	.079	.075	16	.064	.060	<div><div>1. Designed culvert lengths and locations are approximate.</div><div>*2. all culverts have 2 2/3" x 1/2"</div><div>unless otherwise noted.</div><div>**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.</div></div> <div><div>*4. Downspout or Standpipe Types</div><div>1) Full</div><div>2) Half</div><div>3) Flume</div><div>*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).</div></div> <div><div>*5. 1) Conventional or Fabricated</div><div>2) Turner type</div><div>3) Slip joint</div><div>*6. Include special sections, structures, headwalls, footings & other data.</div></div>													
	Gage Chart																																				
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	10	.138	.135																																		
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16	.064	.060																																			

Culvert List

CULVERT LOCATIONS														ROCK			REMARKS *6
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			RIP RAP (GRADING)			
														(a)		(b)	
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe	
4-7-2.3	0.081	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.230	24"	--	40'	--	--	--	--	--	--	--	--	--	--	5	--	Replace existing culvert (approx. 8' fill @ CL). Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Place 5 CY Class 3 RipRap at culvert outlet as Fill Slope Stabilization/energy dissipater. Install metal inlet marker.
	0.253	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Re-use existing inlet marker.
	0.373	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
4-7-2.5	0.016	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Re-use existing inlet marker.
	0.049	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
4-7-3.1	0.032	24"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.080	42"	14	30'	--	--	--	--	--	--	--	--	--	5	5	--	Replace existing culvert (approx. 5' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 25 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Place 5 CY Class 3 RipRap at culvert outlet as Fill Slope Stabilization/energy dissipater. Place 5 CY Class 3 RipRap at culvert inlet as Fill Slope Armor. No inlet marker needed.
	0.351	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.409	36"	--	30'	--	--	--	--	--	--	--	--	--	5	5	--	Replace existing culvert (approx. 4' fill @ CL). Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 5 CY Class 3 RipRap at culvert outlet as Fill Slope Stabilization/energy dissipater. Place 5 CY Class 3 RipRap at culvert inlet as Fill Slope Armor. Install inlet marker.
	0.457	24"	--	30'	--	--	--	--	--	--	--	--	--	--	5	--	Replace existing culvert (approx. 4' fill @ CL). Remove Log Fill. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Place 5 CY Class 3 RipRap at culvert outlet as Fill Slope Stabilization/energy dissipater. Install inlet marker.
	0.533	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.587	36"	--	72'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 40 CY Crushed Bedding/Backfill. This culvert is shared with Station 0+28 of 3-7-34.1 TIE. Install metal inlet marker.

Gage Chart		
Gage	Dec. Inches	
	Steel	Alum.
10	.138	.135
12	.109	.105
14	.079	.075
16	.064	.060

1. Designed culvert lengths and locations are approximate.

*2. all culverts have 2 2/3" x 1/2"

unless otherwise noted.

**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.

*4. Downspout or Standpipe Types

1) Full

2) Half

3) Flume

*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).

*5. 1) Conventional or Fabricated
2) Turner type
3) Slip joint

*6. Include special sections, structures, headwalls, footings & other data.

Culvert List

CULVERT LOCATIONS														ROCK			REMARKS *6																				
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			RIP RAP (GRADING)																							
														(a)		(b)																					
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe																					
4-7-3.2	0.020	--	--	--	--	--	--	--	--	--	--	--	--	--	--		Install metal inlet marker on existing CMP.																				
	0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Re-install existing inlet marker.																				
	0.157	18"	--	32'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.																				
4-7-4.0	0.107	--	--	--	--	--	--	--	--	--	--	--	--	--	--		Install metal inlet marker on existing CMP.																				
4-7-4.2	0.022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
4-7-6.0 East	0.004	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	0.129	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	0.283	24"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																				
	0.326	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.																				
	0.428	--	--	--	--	--	--	--	--	--	--	--	--	--	5	--	Install metal inlet marker on existing CMP. Place 5 CY Class 3 RipRap @ outlet as stabilization wall/dissipater.																				
	0.520	--	--	--	--	--	--	--	--	--	--	--	--	--	5	--	Install metal inlet marker on existing CMP. Place 5 CY Class 3 RipRap @ outlet as stabilization wall/dissipater.																				
	0.574	18"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Place 5 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 5 CY Crushed Rock. No inlet marker needed.																				
	0.593	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
	0.694	36"	--	50'													Replace existing culvert (approx. 8' fill @ CL). Place 30 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.																				
	0.728	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																				
<div><div><table><tr><th colspan="3">Gage Chart</th></tr><tr><th rowspan="2">Gage</th><th colspan="2">Dec. Inches</th></tr><tr><th>Steel</th><th>Alum.</th></tr><tr><td>10</td><td>.138</td><td>.135</td></tr><tr><td>12</td><td>.109</td><td>.105</td></tr><tr><td>14</td><td>.079</td><td>.075</td></tr><tr><td>16</td><td>.064</td><td>.060</td></tr></table></div><div><p>1. Designed culvert lengths and locations are approximate.</p><p>*2. all culverts have 2 2/3" x 1/2"</p><p>unless otherwise noted.</p><div><p>**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.</p></div></div><div><p>*4. Downspout or Standpipe Types</p><div><div>1) Full</div><div>2) Half</div><div>3) Flume</div></div><div>*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).</div></div><div><p>*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint</p><p>*6. Include special sections, structures, headwalls, footings & other data.</p></div></div>																		Gage Chart			Gage	Dec. Inches		Steel	Alum.	10	.138	.135	12	.109	.105	14	.079	.075	16	.064	.060
Gage Chart																																					
Gage	Dec. Inches																																				
	Steel	Alum.																																			
10	.138	.135																																			
12	.109	.105																																			
14	.079	.075																																			
16	.064	.060																																			

Culvert List

CULVERT LOCATIONS														ROCK			REMARKS *6
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			RIP RAP (GRADING)			
														(a)		(b)	
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe	
4-7-6.0 East (cont.)	0.787	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.866	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
4-7-6.0 West	0.037	24"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 20 CY Crushed Bedding/Backfill. Spread 40 CY Pit-Run Base Rock over pipe as Surfacing and fill capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.150	24"	--	40'	--	--	--	--	--	--	--	--	--	--	20	--	Replace existing culvert. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Place 10 CY Class 5 and 10 CY Class 3 RipRap @ culvert outlet as stabilization wall/dissipater. Install metal inlet marker.
	0.235	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.330	18"	--	30'													Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.401	24"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.515	18"	--	30'	--	--	18"	1	10'	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.595	18"	--	30'	--	--	18"	1	10'	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.642	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.780	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.194	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.219	18"	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in existing ditchline of Bald Mntn. Rd.). Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as surfacing capped with 15 CY Crushed Rock. No inlet marker needed.

	Gage Chart			1. Designed culvert lengths and locations are approximate. *2. all culverts have 2 2/3" x 1/2" unless otherwise noted. **** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culvets shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.	*4. Downspout or Standpipe Types 1) Full 2) Half 3) Flume *** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).	*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint *6. Include special sections, structures, headwalls, footings & other data.
	Dec. Inches					
	Gage	Steel	Alum.			
	10	.138	.135			
	12	.109	.105			
	14	.079	.075			
	16	.064	.060			

Culvert List

CULVERT LOCATIONS														ROCK			REMARKS *6
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			RIP RAP (GRADING)			
														(a)		(b)	
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe	
4-7-19.1	0.202	12"	16	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (perforated pipe for French Drain). Place 10 CY 1-1/2"-3/4" Crushed drain rock wrapped in 45 SY non-woven fabric. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install inlet marker.
4-7-19.3	0+32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	1+37	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert in Ditchline for waste area as marked. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1+56	24"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 5' fill @ CL). Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Install metal inlet marker.
4-7-19.8	0.032	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert in ditchline for waste area/skid trail access as marked. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY 3"-0" Crushed Rock. Install metal inlet marker.
4-7-19.9	0.156	18"	--	30'													Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY 3"-0" Crushed Rock. Install metal inlet marker.
4-7-20.1	0.012	18"	--	32'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Install metal inlet marker.
	0.063	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.239	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.
	0.280	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.395	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.464	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.512	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.

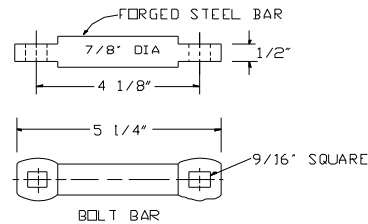
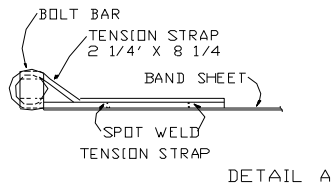
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	Gage	Dec. Inches				
		Steel	Alum.			
	10	.138	.135			
	12	.109	.105			
	14	.079	.075			
	16	.064	.060			

Culvert List

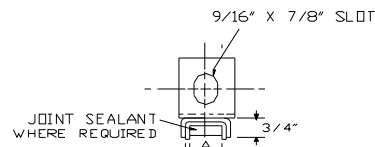
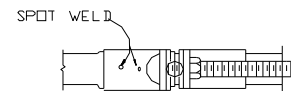
CULVERT LOCATIONS											ROCK			REMARKS *6																											
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT						RIP RAP (GRADING)																								
																	(a)		(b)																						
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Stucture inside pipe																									
4-7-20.1 (cont.)	0.572	36"	--	34'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 5' fill @ CL). Remove Log Fill. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Install metal inlet marker.																								
	0.619	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																								
4-7-21.0	0.001	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 25 CY Crushed Rock. No inlet marker needed. Cut/remove bituminous surfacing over culvert and replace when Base/Cap Rock has been approved by Authorized Officer.																								
USFS 1400	0.700	18"	--	36'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.																								
	1.270	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																								
	2.360	24"	--	54'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 10' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 25 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.																								
	2.870	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																								
<div><div><table><tr><th colspan="3">Gage Chart</th></tr><tr><th rowspan="2">Gage</th><th colspan="2">Dec. Inches</th></tr><tr><th>Steel</th><th>Alum.</th></tr><tr><td>10</td><td>.138</td><td>.135</td></tr><tr><td>12</td><td>.109</td><td>.105</td></tr><tr><td>14</td><td>.079</td><td>.075</td></tr><tr><td>16</td><td>.064</td><td>.060</td></tr></table></div><div><p>1. Designed culvert lengths and locations are approximate.</p><p>*2. all culverts have 2 2/3" x 1/2"</p><p>unless otherwise noted.</p><div><div>**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.</div><div><p>*4. Downspout or Standpipe Types</p><table><tr><td>1) Full</td><td rowspan="3">*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).</td></tr><tr><td>2) Half</td></tr><tr><td>3) Flume</td></tr></table></div></div><p>*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint</p><p>*6. Include special sections, structures, headwalls, footings & other data.</p></div></div>																		Gage Chart			Gage	Dec. Inches		Steel	Alum.	10	.138	.135	12	.109	.105	14	.079	.075	16	.064	.060	1) Full	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).	2) Half	3) Flume
Gage Chart																																									
Gage	Dec. Inches																																								
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3) Flume																																									

U.S. DEPT. OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT OFFICE - OREGON
CULVERT BAND DETAILS

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

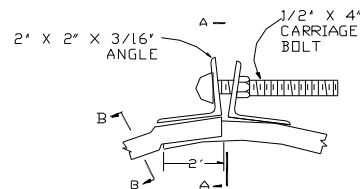


TENSION STRAP
AND BOLT BAR.
SEE DETAIL A

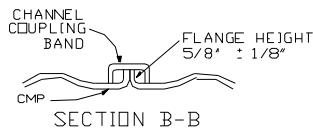


DIMENSIONS IN INCHES		
T	A	PIPE WALL THICKNESS
.079	3/4	.109 OR LIGHTER
.109	1	.138 OR HEAVIER

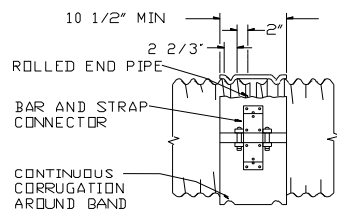
SECTION A-A



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



CHANNEL
BAND
COUPLER

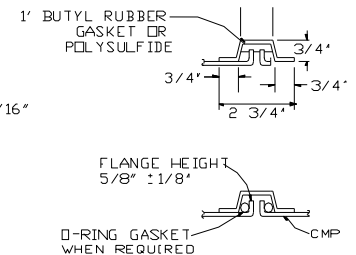
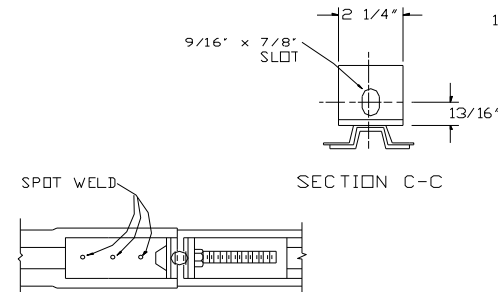


STANDARD CONSTRUCTION IS 1 PIECE 12'
THRU 48' AND 2 PIECE 54' AND ABOVE

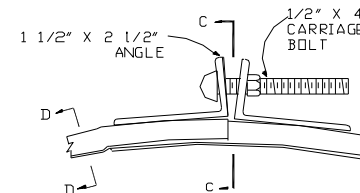
THE HUGGER COUPLER BAND OR AN APPROVED EQUIVALENT
COUPLER BAND SHALL BE MADE OF THE SAME MATERIAL AND
FINISH AS THE PIPES JOINED. THE COUPLER BANDS SHALL
HAVE A MINIMUM WIDTH OF 10 1/2 INCHES AND MAY BE TWO
NUMERICAL THICKNESSES LIGHTER THAN THE GAGE OR
THICKNESS DESIGNATED FOR THE CONDUIT JOINED. THE 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



SECTION D-D
SHOWN WITH ALTERNATE TYPES
OF JOINT SEALERS



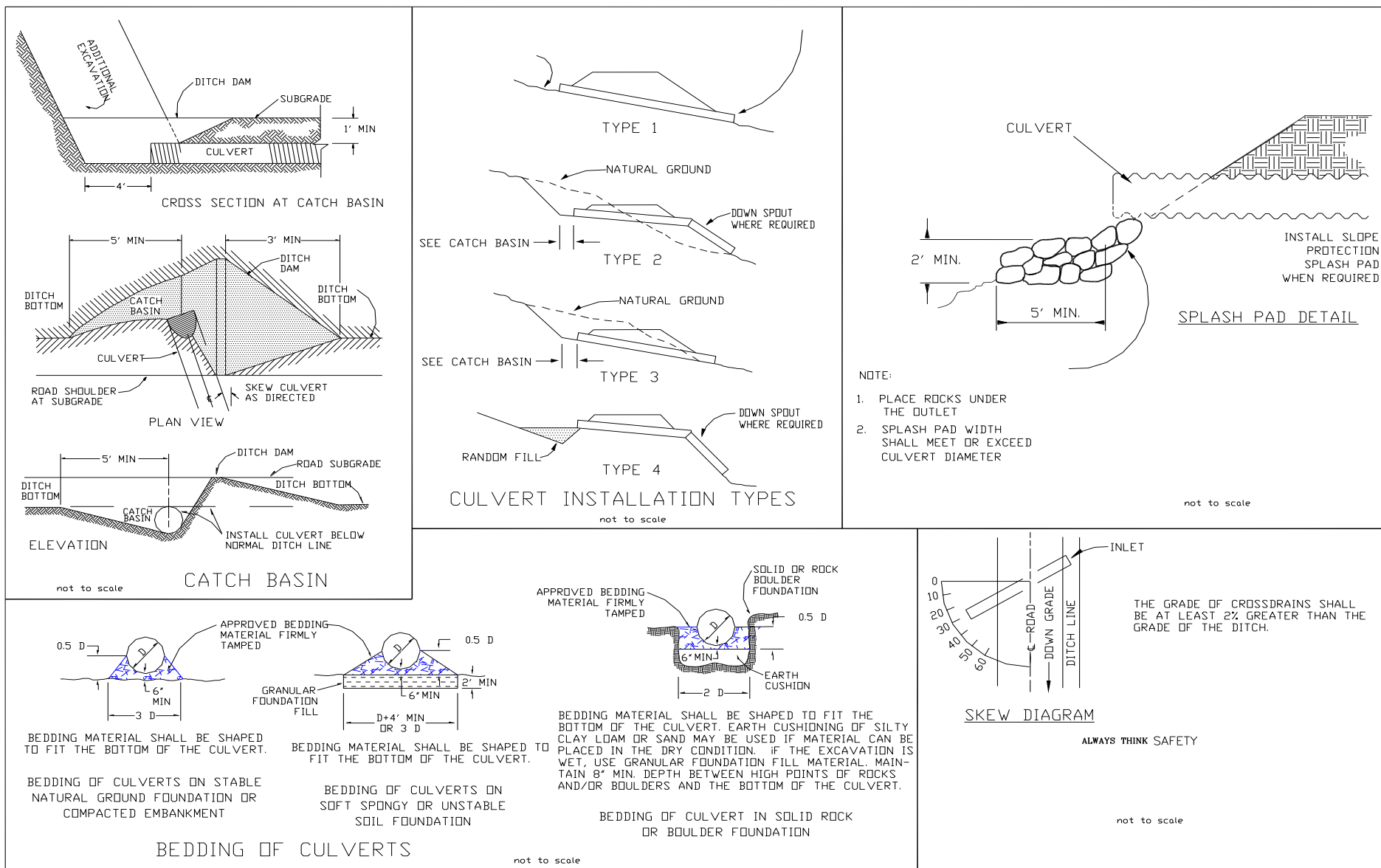
FLANGED END COUPLER

STANDARD COUPLER BANDS								
CORRUGATED								
CULVERT SIZE (INCHES)	STD. ANNULAR		HELICAL		3" x 1"		6" x 1"	
	WIDTH	NO. OF BOLTS	WIDTH	NO. OF BOLTS	WIDTH	NO. OF BOLTS	WIDTH	NO. OF 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 ENCIRCLE 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 DETAILS



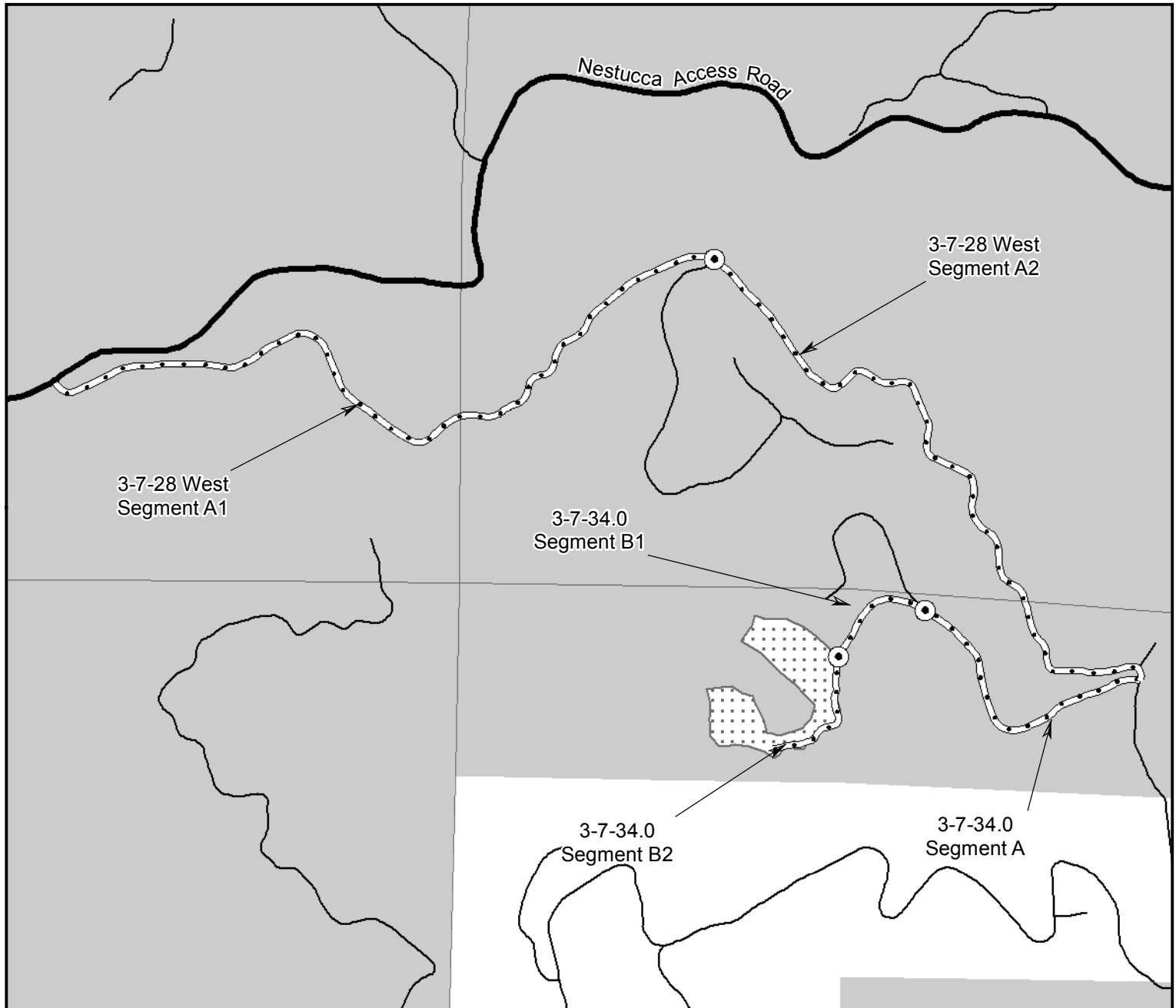


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BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Maintenance and Access Map

Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit E
Page 1 of 7

6/21/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Super Cooper Project Area



BLM controlled road-Purchaser maintenance



Paved road



Other Roads

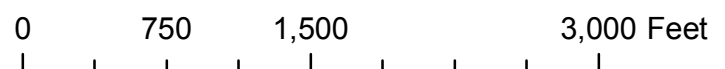


Road segment breaks



Bureau of Land Management

1 inch = 1,000 feet





United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Maintenance and Access Map

Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit E
Page 2 of 7

6/21/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Super Cooper Project Area



BLM controlled road-Purchaser maintenance



Privately controlled road-Purchaser maintenance



Oregon Department of Forestry controlled roads- Purchaser maintenance



Paved road

Other Roads

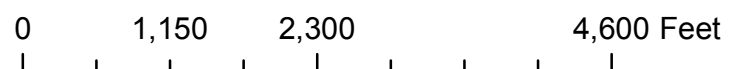


Road segment breaks



Bureau of Land Management

1 inch = 1,500 feet





United States Department of the Interior
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NORTHWEST OREGON DISTRICT-OREGON

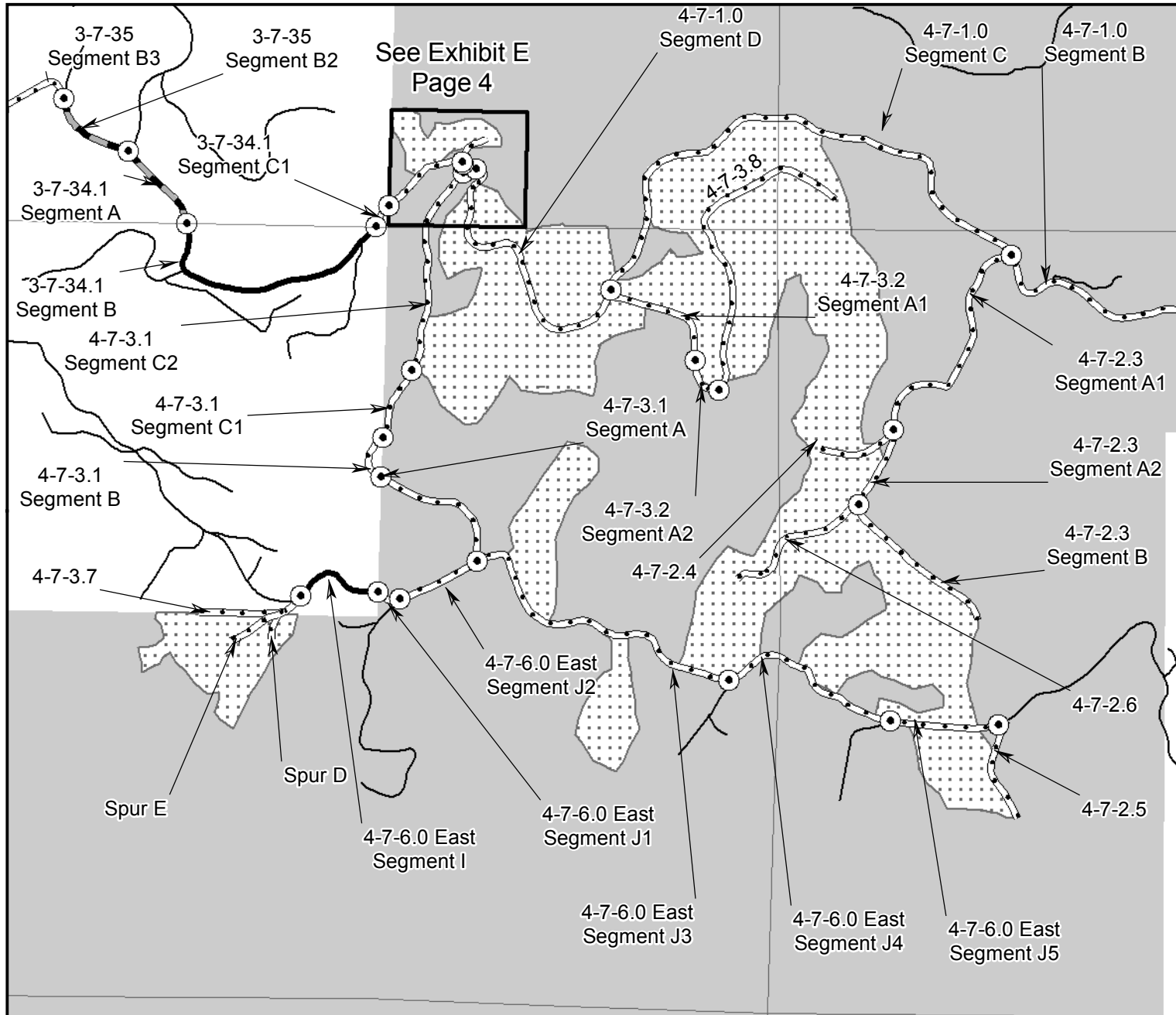
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit E
Page 3 of 7

Maintenance and Access Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

6/21/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Super Cooper Project Area



BLM controlled road-Purchaser maintenance



Privately controlled road-Purchaser maintenance



Oregon Department of Forestry controlled roads- Purchaser maintenance

Other Roads

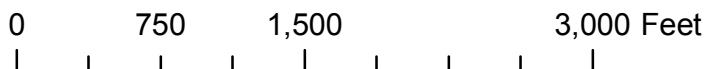


Road segment breaks



Bureau of Land Management

1 inch = 1,000 feet





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NORTHWEST OREGON DISTRICT-OREGON

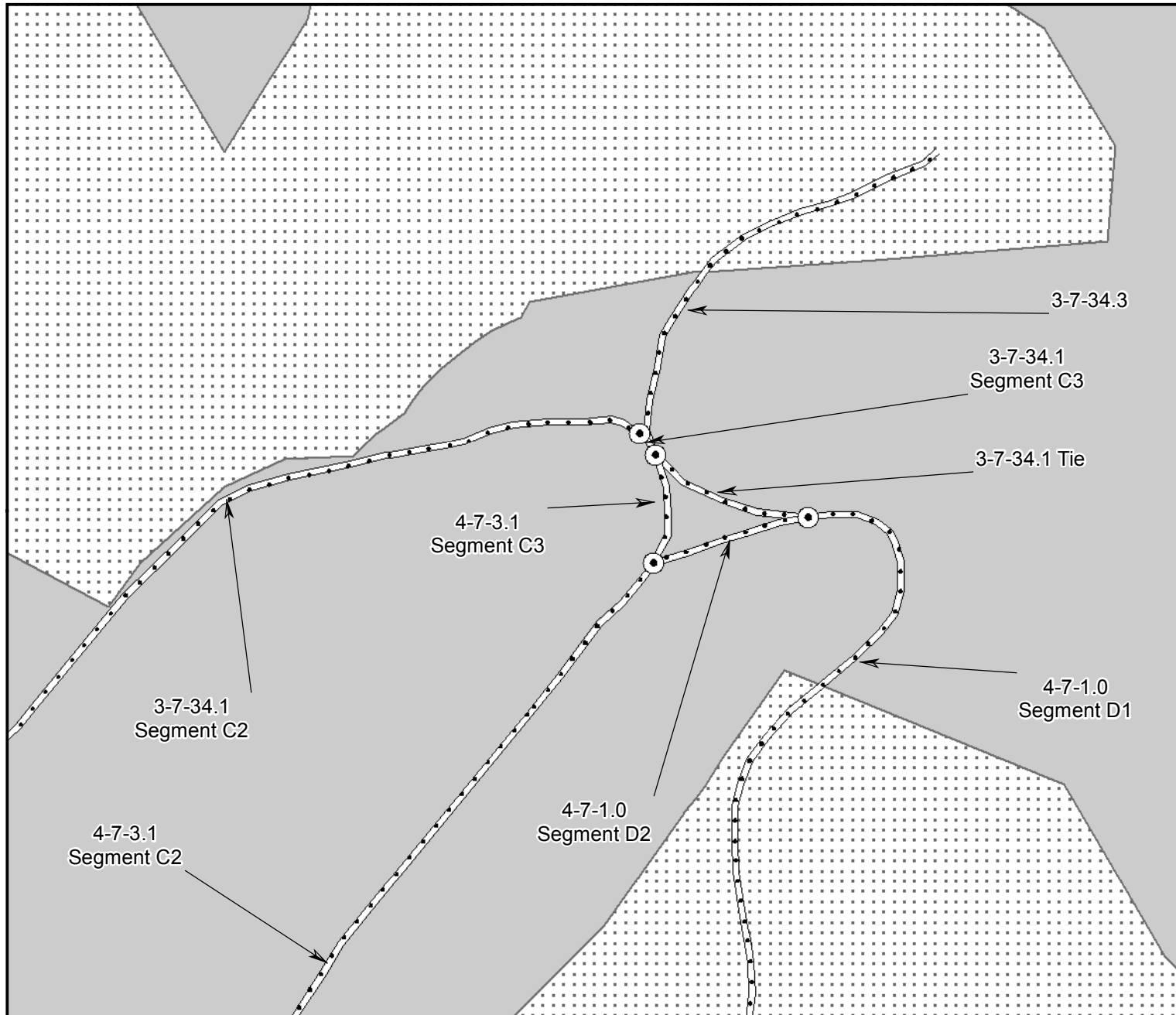
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit E
Page 4 of 7

Maintenance and Access Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

7/11/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Super Cooper Project Area



BLM controlled road-Purchaser maintenance



Other Roads



Road segment breaks



Bureau of Land Management

1 inch = 83 feet

0

65

130

260 Feet

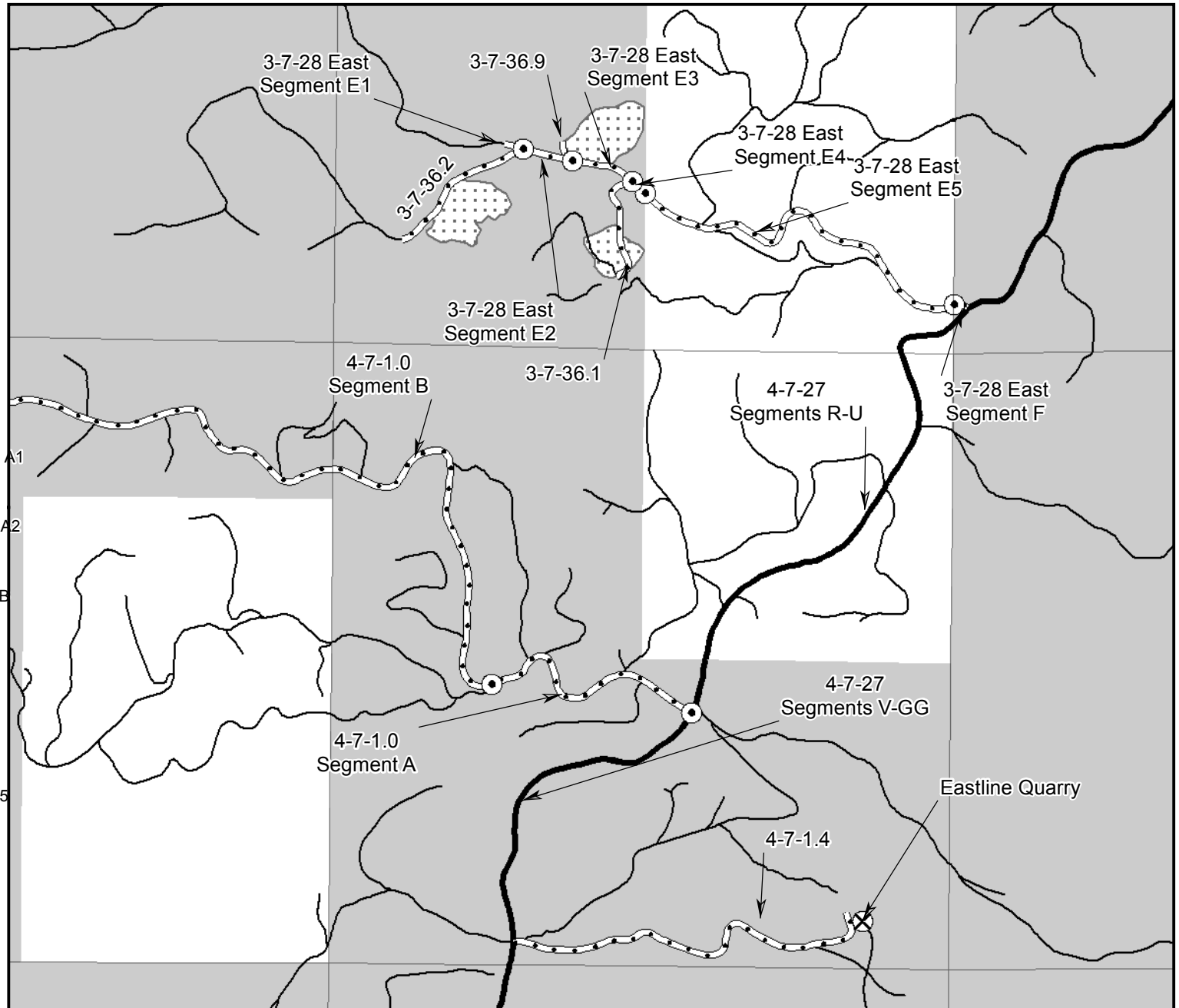


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Maintenance and Access Map

Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit E
Page 5 of 7

8/20/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Super Cooper Project Area



BLM controlled road-Purchaser maintenance



Paved road

Other Roads



Road segment breaks

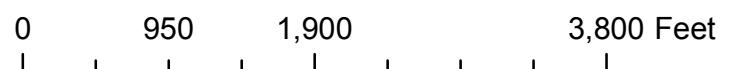


Bureau of Land Management



Eastline Quarry

1 inch = 1,250 feet



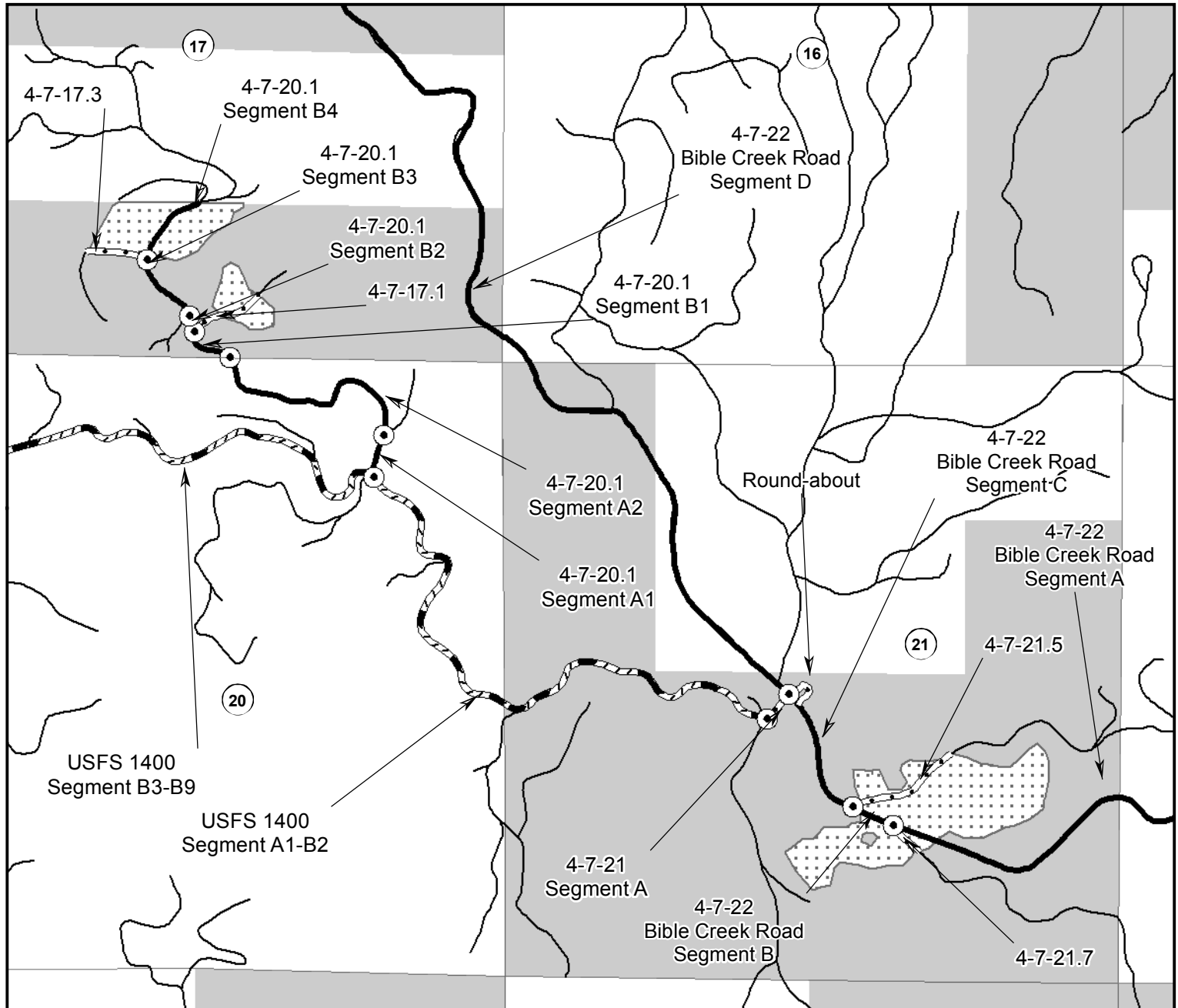


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NORTHWEST OREGON DISTRICT-OREGON
Maintenance and Access Map

Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit E
Page 6 of 7

6/27/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Super Cooper Project Area



BLM controlled road-Purchaser maintenance



Privately controlled road-Purchaser maintenance



U.S. Forest Service controlled roads- Purchaser maintenance



Paved road

Other Roads

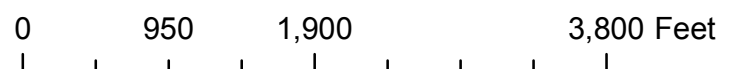


Road segment breaks



Bureau of Land Management

1 inch = 1,250 feet



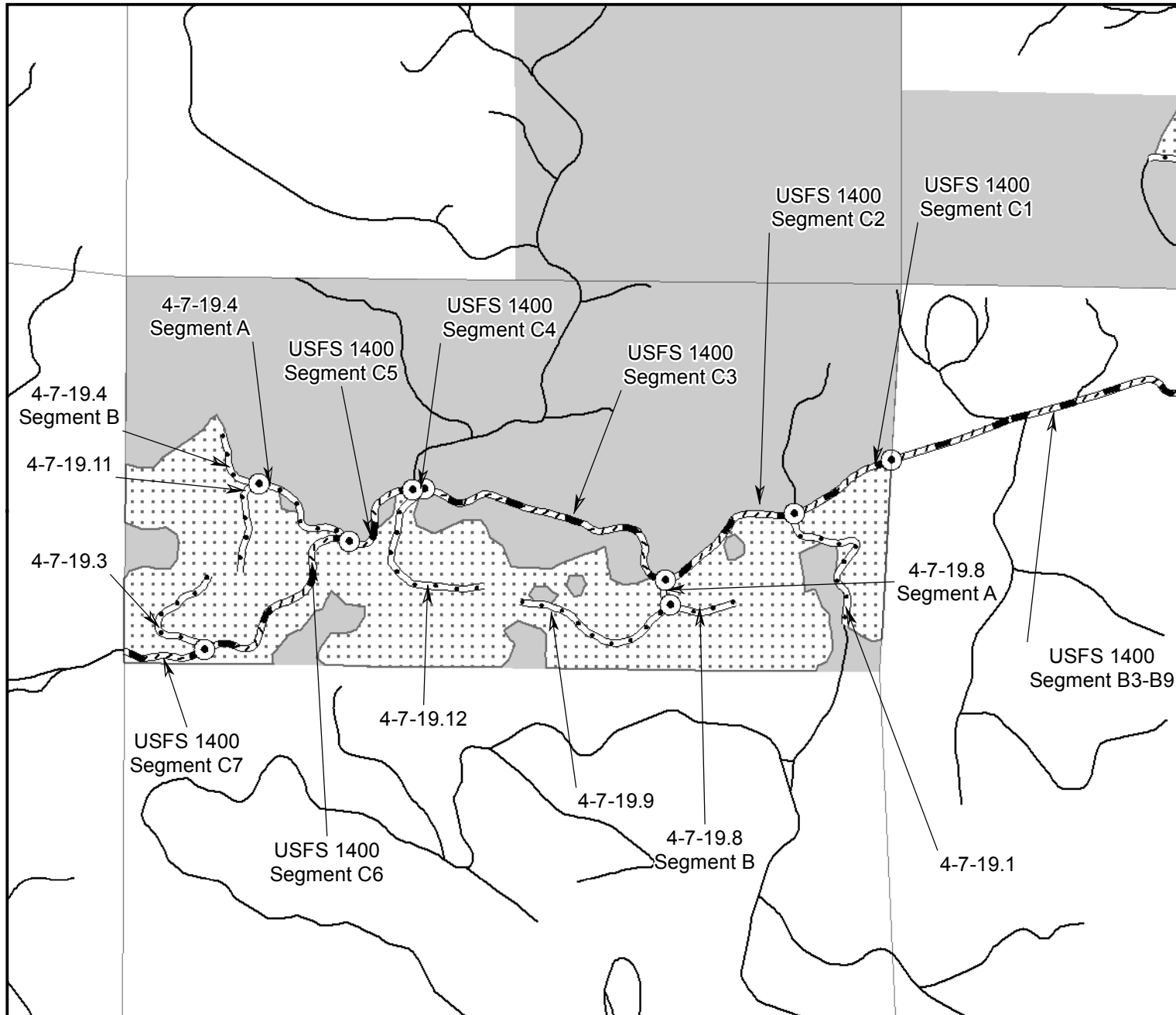


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NORTHWEST OREGON DISTRICT-OREGON

Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit E
Page 7 of 7

6/21/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Super Cooper Project Area



BLM controlled road-Purchaser maintenance



U.S. Forest Service controlled roads- Purchaser maintenance

— Other Roads

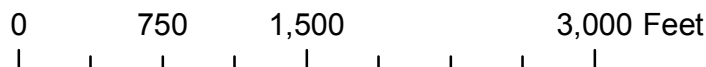


Road segment breaks



Bureau of Land Management

1 inch = 1,000 feet



CREATION OF COARSE WOODY DEBRIS

The Purchaser shall select and treat at total of eight hundred and ninety eight (898) reserved trees to create Coarse Woody Debris by saw-topping, high-girdling, basal-girdling or felling; treated trees will be marked with aluminum tags and flagging. The Purchaser shall record treatment data on the Wildlife Tree Data Recording Forms (Illustration #4).

Treatment of trees to create Coarse Woody Debris within any given unit shall not be started until all yarding operations within that unit have been completed. The Purchaser must provide a proposed schedule of work to the Authorized Officer at least one week prior to commencing Coarse Woody Debris Creation activities.

Course Woody Debris Creation per Unit

Exhibit F Unit Number	Acres	Total Trees	Saw- Top	High Girdle	Basal Girdle	Fell	Tree Size (inches at DBH)
6A	10	10	3	3	2	2	26-34
6B	3	20	5	5	5	5	21-29
5A	6	5	2	1	1	1	26-34
5B	41	92	31	31	30	0	26-34
7A	11	28	7	7	7	7	21-29
7B	16	16	4	4	4	4	21-29
3A	47	321	83	82	82	74	26-34
3B	63	243	63	63	63	54	26-34
3C	41	38	11	10	10	7	26-34
2A	24	99	33	33	33	0	26-34
2B	9	17	5	5	4	3	26-34
4	6	9	7	0	0	2	16-24
Totals	277	898	254	244	241	159	

SPECIFIC TASKS

1. **Tree Selection** – Trees to be treated shall be selected by the Purchaser according to the following guidelines.
 - a. Only Douglas-fir trees shall be selected for treatment.
 - b. No trees marked with any existing metal tags shall be selected for treatment.
 - c. **Saw-topping and High-girdling:** When possible, healthy appearing Douglas-fir trees with live crown ratios generally **greater** than thirty (30) percent and with **average or larger** crown spread shall be selected.
 - d. **Basal-girdling and Tree felling:** When possible Douglas-fir trees with live crown ratios generally **less** than thirty (30) percent and **smaller** than average crown spread shall be selected.
 - e. Selected trees shall be evenly distributed throughout the partial cut areas. When selecting trees, select approximately 50% of the trees larger than the median tree size for the given range, and approximately 50% of the trees smaller than the median tree size for the given range unless stand conditions dictate otherwise. Do not select the largest, most dominant tree within any given area.
 - f. Treatment types and selected trees shall be scattered uniformly throughout the units and selected both singly with at **least** 75% being in small clumps of 3-5 trees.
 - g. No trees with nests or any nest-like structures of any birds or mammals, or trees with defects such as cavities, platforms, mistletoe infection and dead, or forked or broken tops shall be selected.
 - h. Selected trees shall generally not be located within approximately one hundred fifty (150) feet of a drivable road or a property line boundary where BLM land abuts non-federal ownership.
2. **Treatment of Selected Trees by Saw-Topping**
 - a. Treatment will require climbing and topping the tree 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; equally vary the treatment heights within this range (See Illustration 1). Topping will be done with power tools (ie. chainsaws).
 - b. The Purchaser shall cut several V-type notches which are a minimum of six (6) cuts into the sawn top surface of the tree, each a minimum of six (6) inches deep.
 - c. To the extent practicable, the Purchaser shall retain all green limbs and the largest dead limbs on the treated trees during the climbing and topping operations.
 - d. Tree tops shall be completely severed from the tree and fall completely to the ground inside unit boundaries.
 - e. Directionally fall tops in order to not damage existing snags and decay class 3 and 4 down wood larger than twenty-four (24) inches in diameter, 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 BLM road spurs.

- f. The Purchaser shall tie two pieces of flagging of a color approved by the Authorized Officer around the bole of each treated tree, one at a height of approximately twenty to thirty (20-30) feet above the ground and another at four and one-half (4.5) feet above the ground (measured from the uphill side of the tree).

3. **Treatment of Selected Trees by High-Girdling – within live crown**

- a. Treatment will require climbing and girdling trees within the live crown, which shall occur at a point where approximately twenty to fifty (20-50) percent of the live crown remains below the point of girdling, at a height of at least sixty (60) feet above the ground; equally vary the treatment heights within this range. Girdling may be done with a hand tool or power tool and will consist of removing all bark and cambium in a ten to twelve (10-12) inch band completely around the main stem of the tree. (See Illustration #3)
- b. Tool cuts must not penetrate more than one-half (½) inch into the wood of high-girdled trees.
- c. Live limbs below the point of high-girdling shall not be removed. To the extent practicable, the Purchaser shall retain the largest dead limbs on the trees during the climbing and high-girdling operations.
- d. The Purchaser shall tie three pieces of flagging of a color approved by the Authorized Officer to each treated tree. One flagging shall be tied on a branch visible from the ground near the point of girdle, a second flag shall be tied around the bole of the tree at a height of approximately twenty to thirty (20-30) feet above the ground and a third flag at four and one-half (4.5) feet above the ground (measured from the uphill side of the tree). The two highest flags shall extend at least four (4) feet from the knot.

4. **Treatment of Selected Trees by Basal-Girdling**

- a. Basal-girdling will be accomplished by making three (3) parallel cuts around the tree; power tools may be used. Each cut must connect with itself completely around the tree and penetrate through the cambium layer into the wood at least one-half (½) inch, but not more than one and one-half (1½) inches. The distance between the top cut and the bottom cut shall not exceed twelve (12) inches. Trees shall be girdled between three (3) and four (4) feet above ground level measured on the uphill side of the tree. (See Illustration #2)
- b. The Purchaser shall tie a piece of flagging of a color approved by the Authorized Officer around the bole of each treated tree four and one-half (4.5) feet above the ground (measured from the uphill side of the tree).

5. **Treatment of Selected Trees by Felling**

- a. Fallen trees shall be completely severed from the stump and fall completely to the ground.
- b. Stumps shall be no more than four and one-half (4.5) feet tall measured on the uphill side.

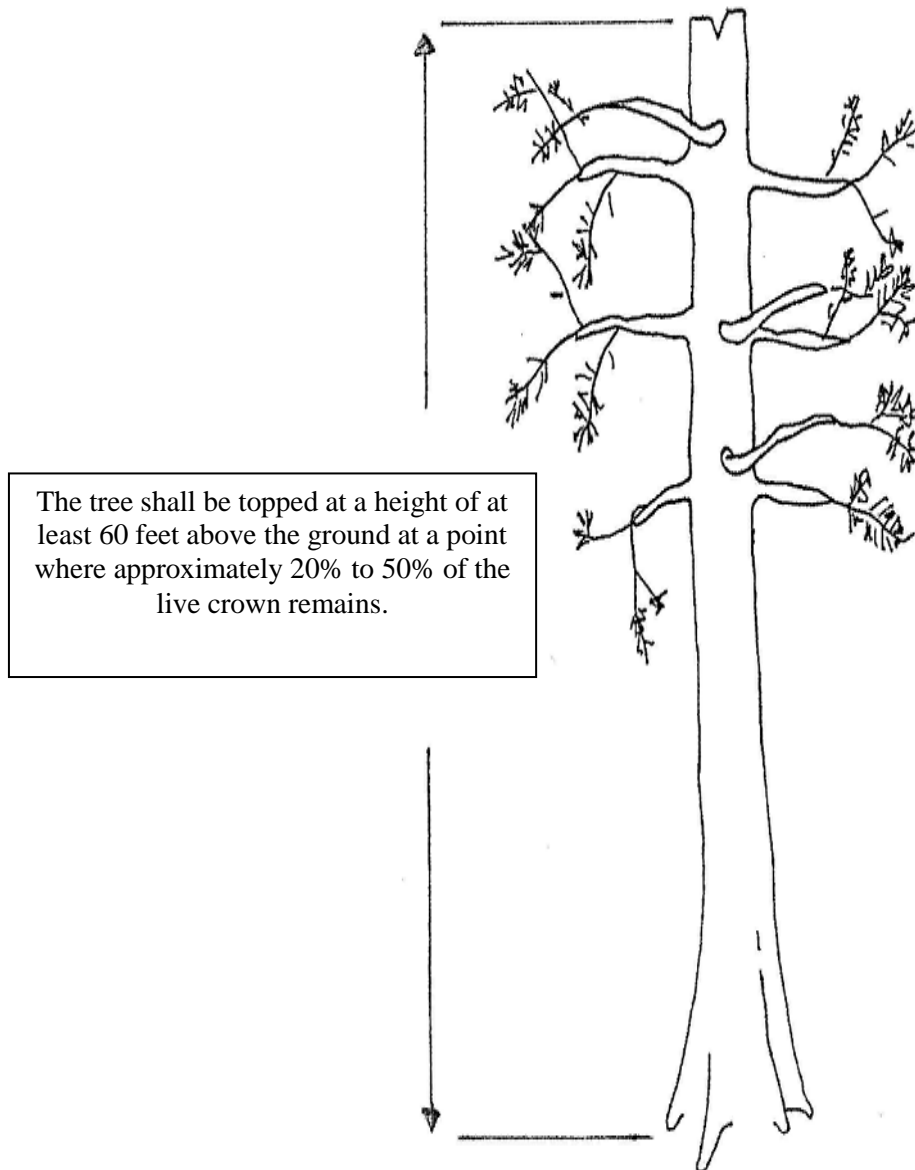
- c. No part of a fallen tree shall rest outside of unit boundaries, or within one hundred fifty (150) feet of any open (unblocked) road as determined by the Authorized Officer.
- d. Directionally fall trees in order to not damage existing snags, decay class three (3) and four (4) down wood larger than twenty-four (24) inches in diameter, under-story conifers, any tree containing a suspected nest of a bird or mammal, or any green tree with defect such as multiple tops, hollow cavities, or decay.

6. **Documentation of Treated Trees**

- a. Purchaser shall record UTM coordinates for all treated trees using their GPS unit as well as recording them on the Wildlife Tree Data Recording Forms. Use NAD83 datum, zone 10. If acceptable GPS satellite coverage cannot be obtained at sites then indicate so on the recording form.
- b. At one week intervals (or as established at the pre-work conference), the Purchaser shall provide to the Authorized Officer: Wildlife Tree Data Recording Forms and the UTM coordinates for treated trees in a digital format for work completed in the previous week.
- c. All information recorded on the Wildlife Tree Data Recording Forms shall be legible, clear and reproducible on a black and white copy machine. All submissions shall be reviewed to ensure completeness, legibility, accuracy and consistency in style before submitting to the Authorized Officer.

ILLUSTRATION #1 – Saw-topping within the Live Crown

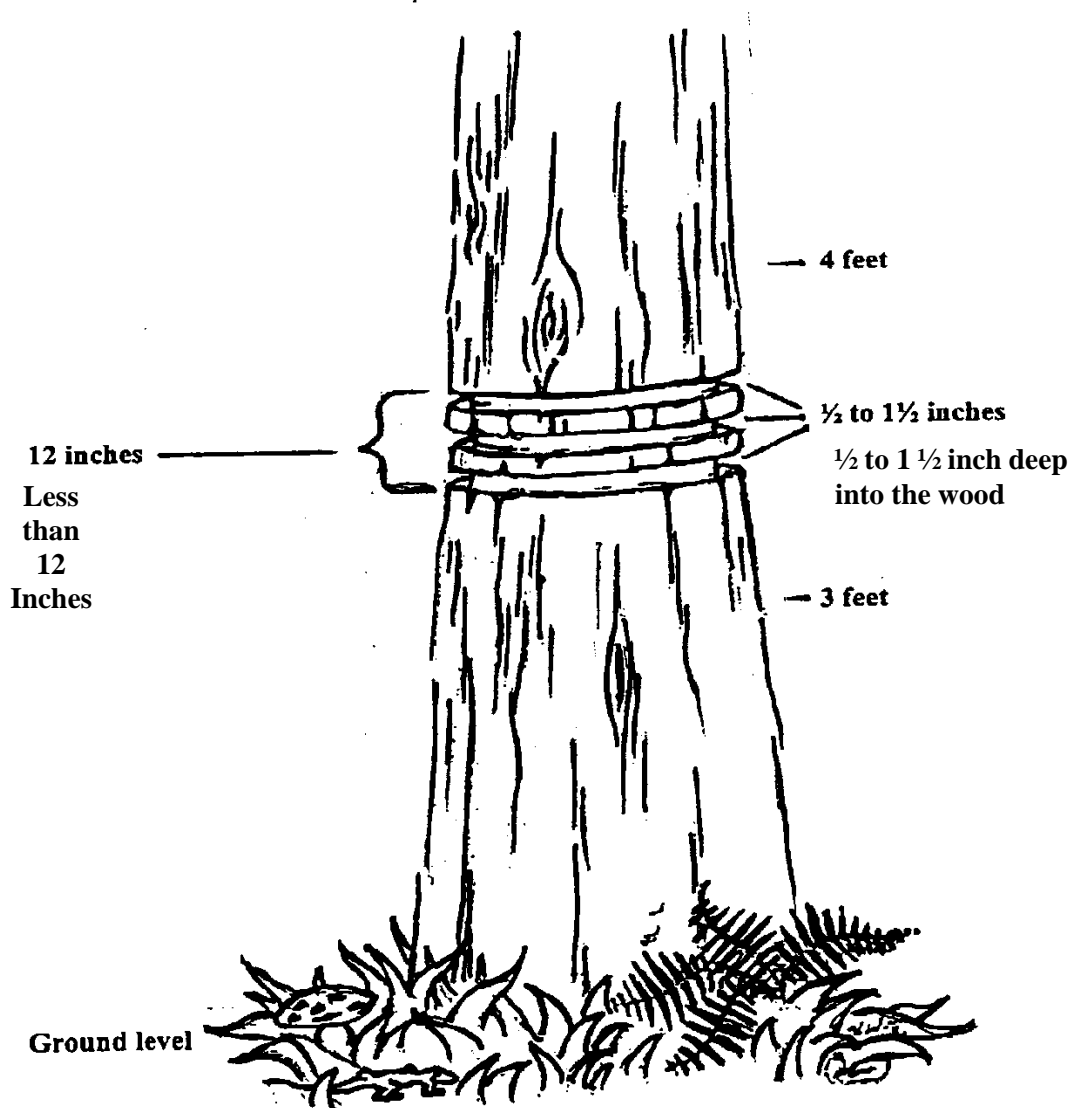
Cut a V-type notch or a “King’s Crown” (with a minimum of 6 cuts) into the sawn top surface, a minimum of 6 inches deep, to provide for a greater potential of future decay in the treetop. To the extent practicable, retain all green limbs and the largest dead limbs on the treated trees during the climbing and topping operation.



Tie two pieces of flagging around the bole of each saw-topped tree, one at a height of approximately 20-30 feet and one 4.5 feet above the ground. A small aluminum tag is nailed to the base of the tree (uphill side).

Basal-Girdling ILLUSTRATION #2

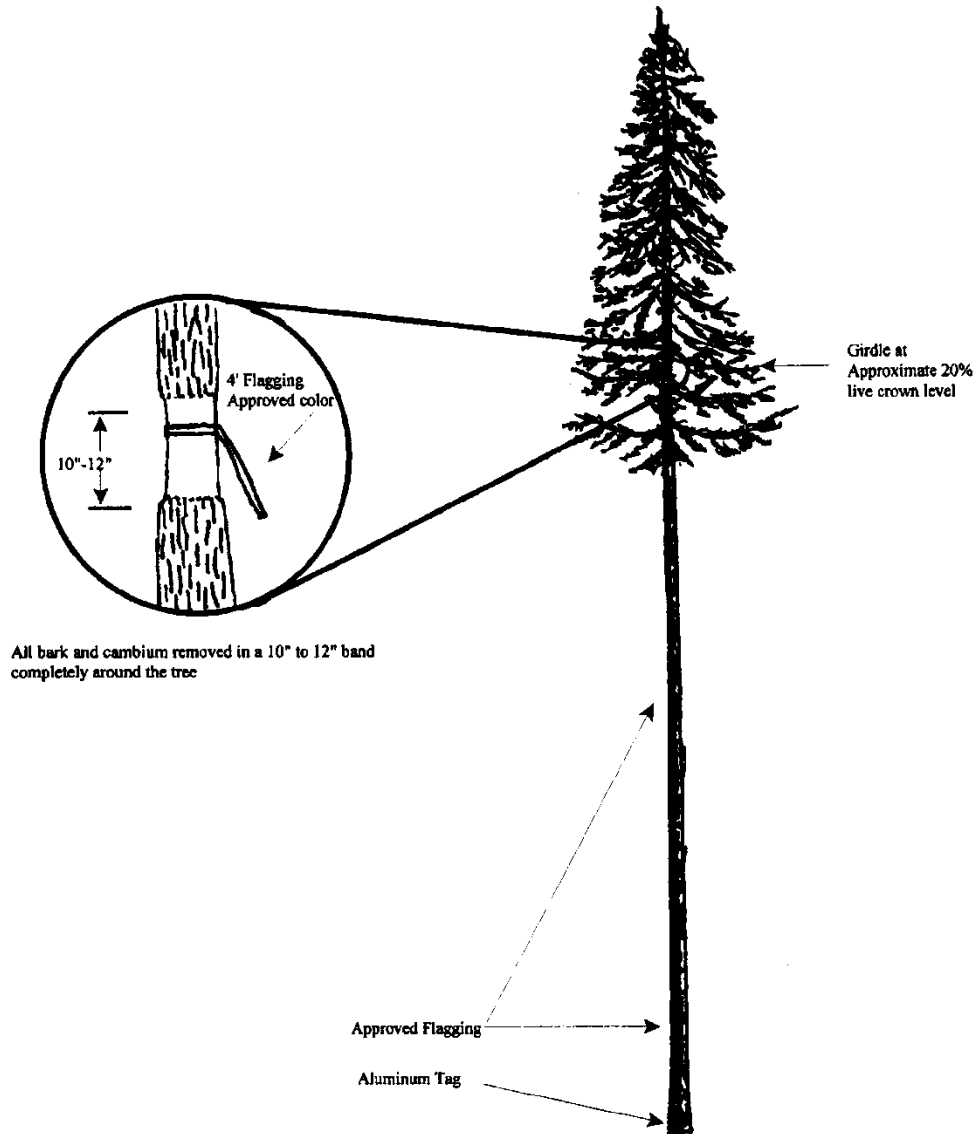
Girdling example: make three (3) parallel unbroken cuts around the tree. The distance between the top and the bottom of the cut shall not exceed twelve inches. Cuts must penetrate at least $\frac{1}{2}$ inch, but not more than $1\frac{1}{2}$ inches into the wood of the tree. Trees shall be girdled between 3 and 4 feet from the ground.



Tie one piece of flagging around the bole of each basal-girdled tree 4.5 feet above the ground.
A small aluminum tag is nailed to the base of the tree (up-hill side).

Illustration #3 – High-Girdling within the Live Crown

Crown Girdling Specifications:



To the extent practicable, retain all green limbs and the largest dead limbs on the treated trees below the point of treatment. Treatment heights shall be greater than or equal to 60 feet above the ground at a point in the live crown where 20% to 50% of live branches remain. Tie three pieces of flagging around the bole of each high-girdled tree, one at the point of girdling, one at a height of approximately 20-30 feet and one 4.5 feet above the ground. A small aluminum tag is nailed to the base of the tree (uphill side).

³UTM = Universal Transverse Mercator *Coordinates (GPS) in NAD 83 datum*



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NORTHWEST OREGON DISTRICT-OREGON

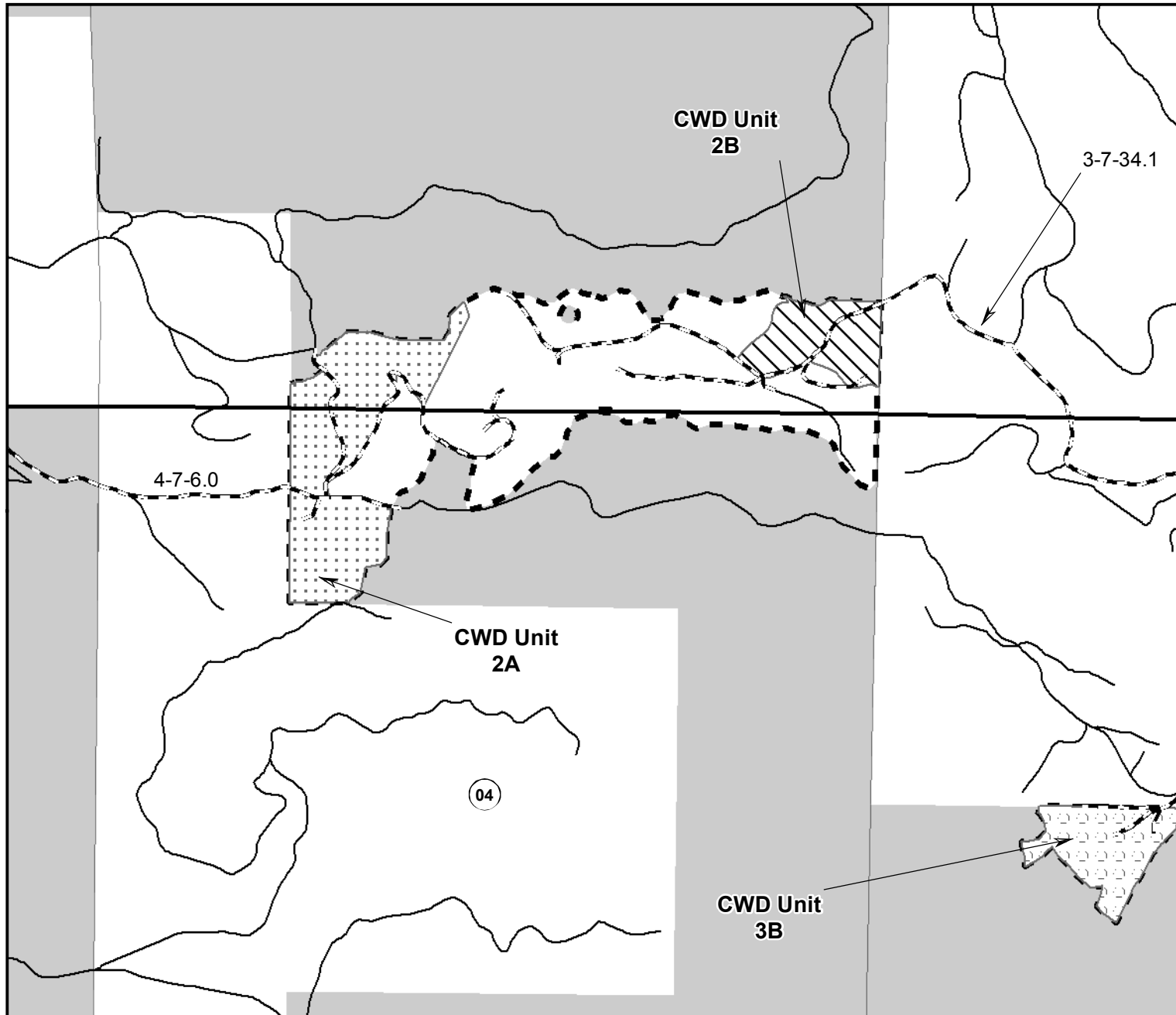
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit F
Page 9 of 13








Coarse Wood Creation Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

7/11/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- CWD Unit**
-  2A
 -  2B
 -  3B
-  Super Cooper Project Area
-  Project Roads
-  Other Roads
-  Bureau of Land Management

1 inch = 1,000 feet

0 750 1,500 3,000 Feet



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NORTHWEST OREGON DISTRICT-OREGON

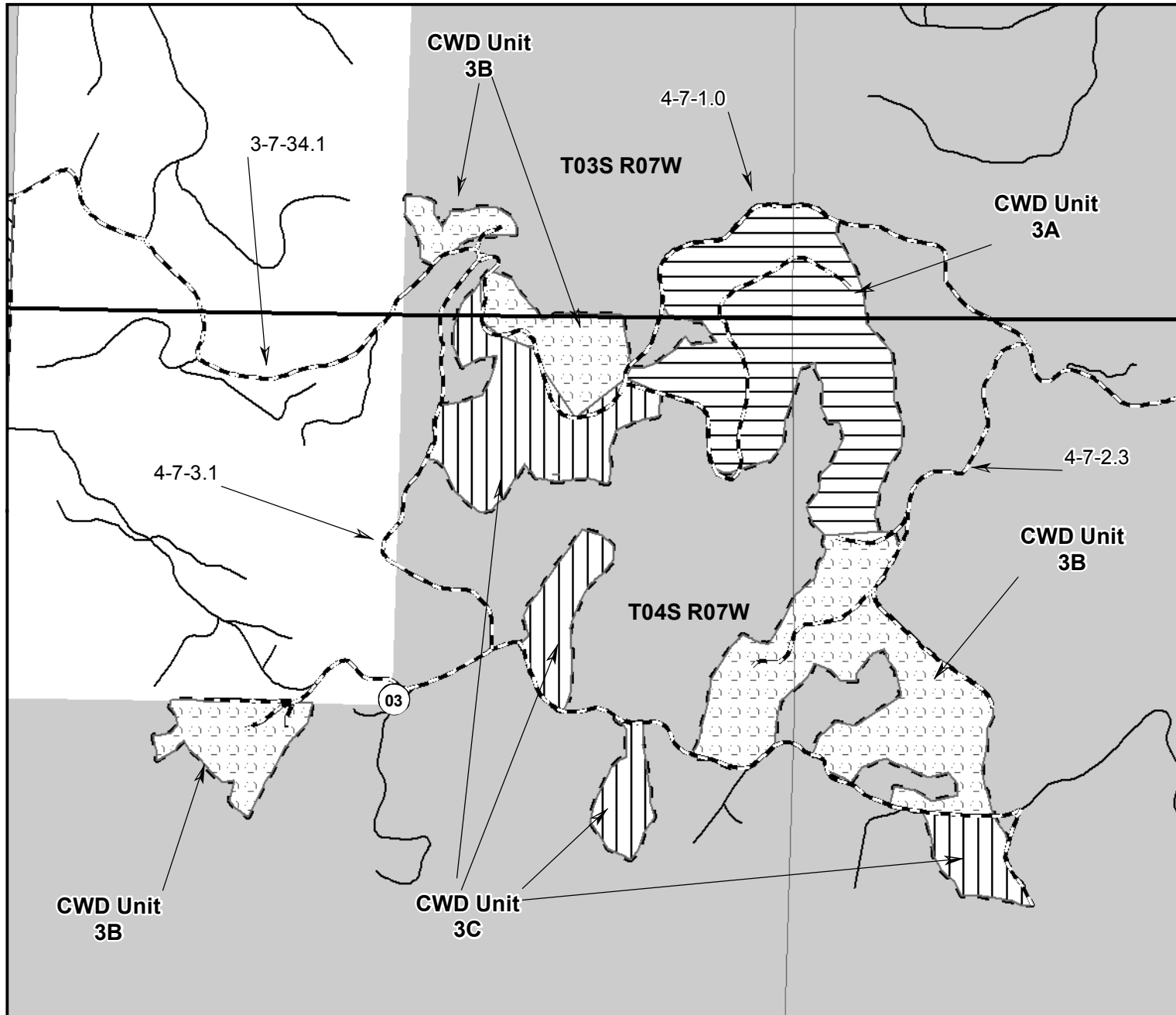
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit F
Page 10 of 13









Coarse Wood Creation Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

7/11/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- CWD Unit**
-  2B
 -  3A
 -  3B
 -  3C
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1 inch = 1,000 feet

0 750 1,500 3,000 Feet



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NORTHWEST OREGON DISTRICT-OREGON

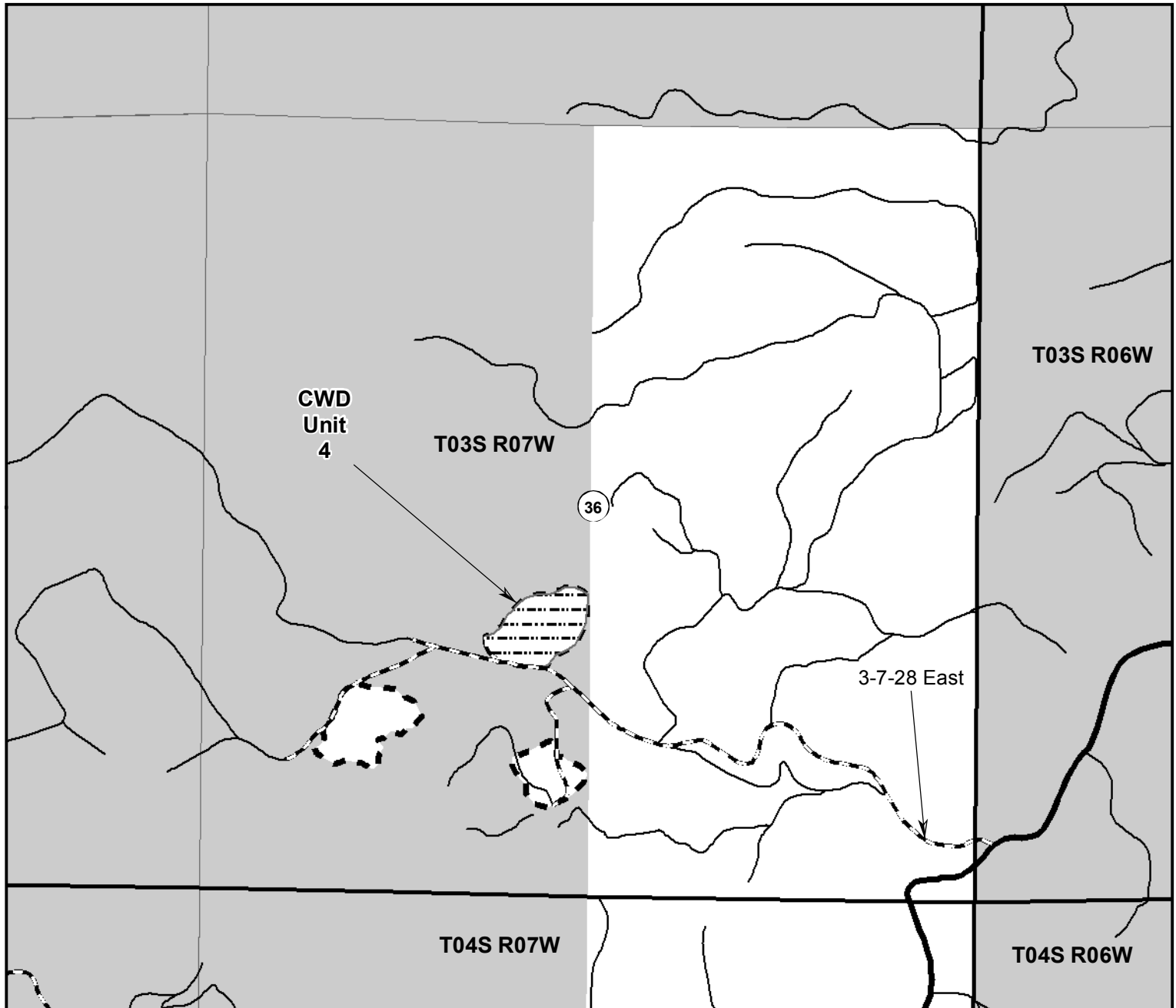
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit F
Page 11 of 13







Coarse Wood Creation Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

7/11/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- CWD Unit**
-  4
-  Super Cooper Project Area
-  Project Roads
-  Paved road
-  Other Roads
-  Bureau of Land Management

1 inch = 1,000 feet

0 750 1,500 3,000 Feet



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NORTHWEST OREGON DISTRICT-OREGON

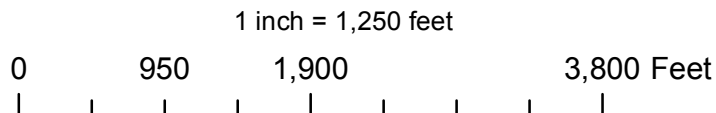
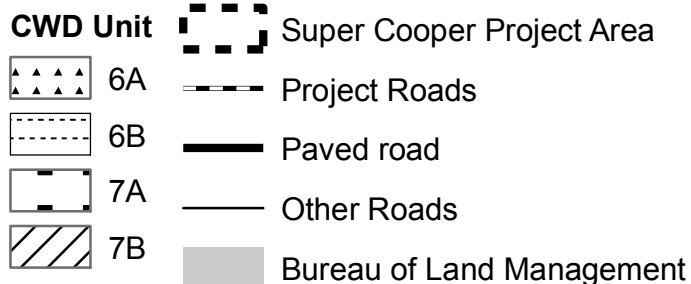
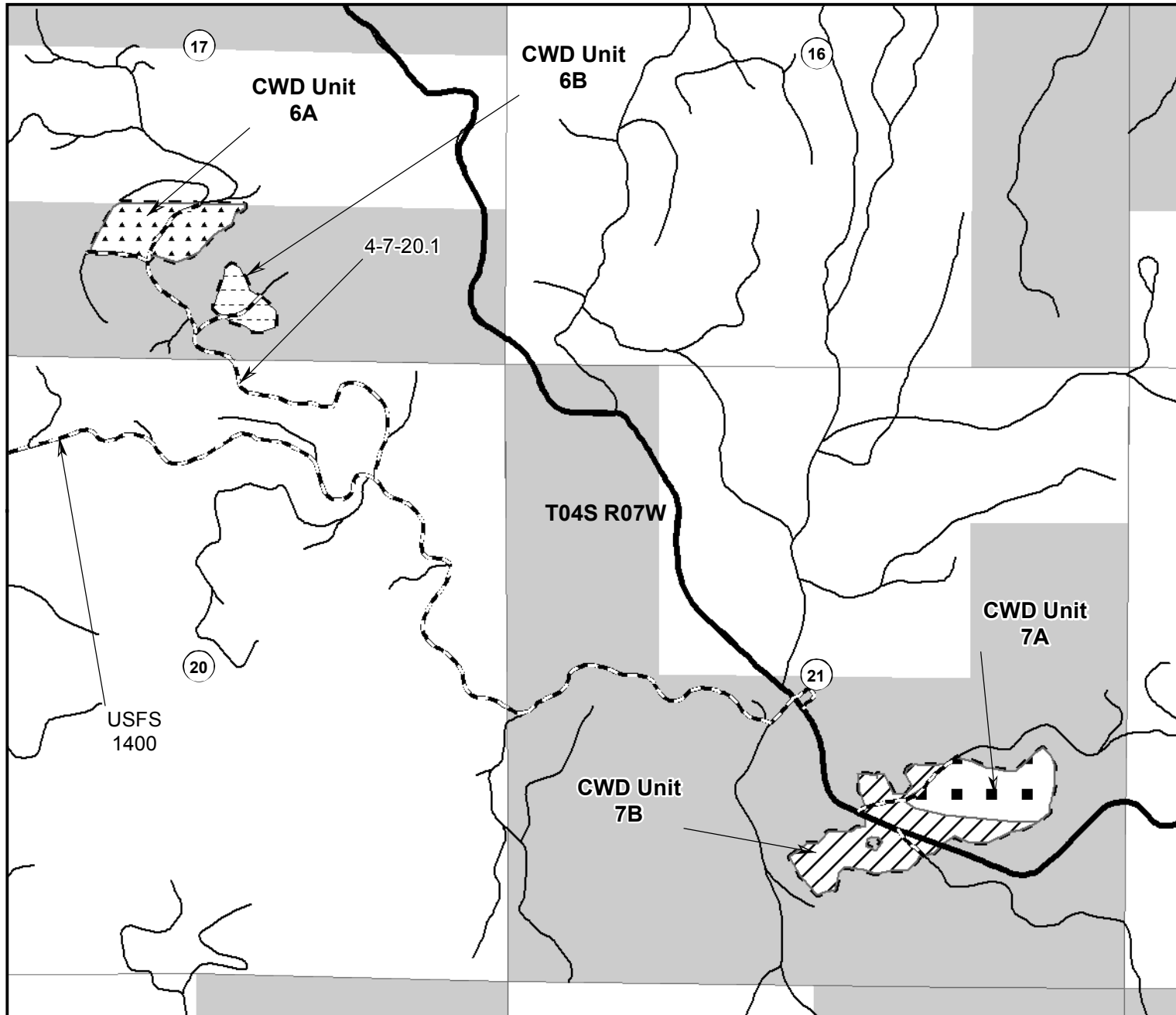
Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Exhibit F
Page 12 of 13

Coarse Wood Creation Map

T. 3S. R. 7W. Sections 33, 34, 35 & 36

7/11/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON





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NORTHWEST OREGON DISTRICT-OREGON

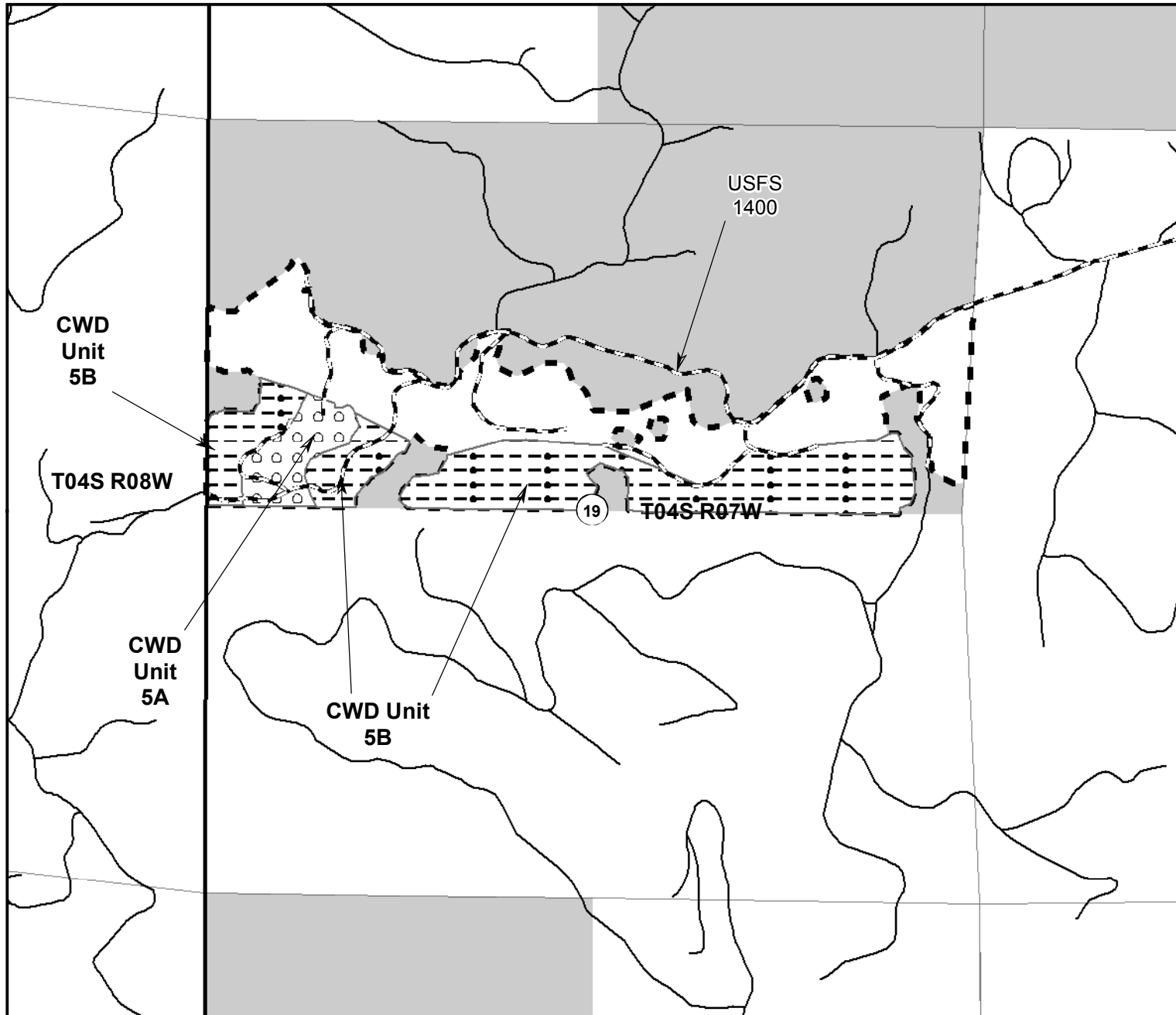
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Exhibit F
Page 13 of 13







Coarse Wood Creation Map

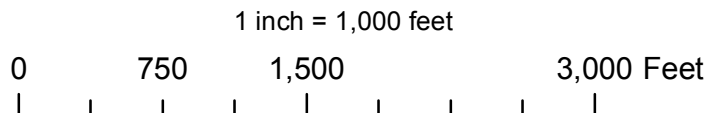
T. 3S. R. 7W. Sections 33, 34, 35 & 36

7/11/2018

T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- CWD Unit**
-  5A
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-  Super Cooper Project Area
-  Project Roads
-  Other Roads
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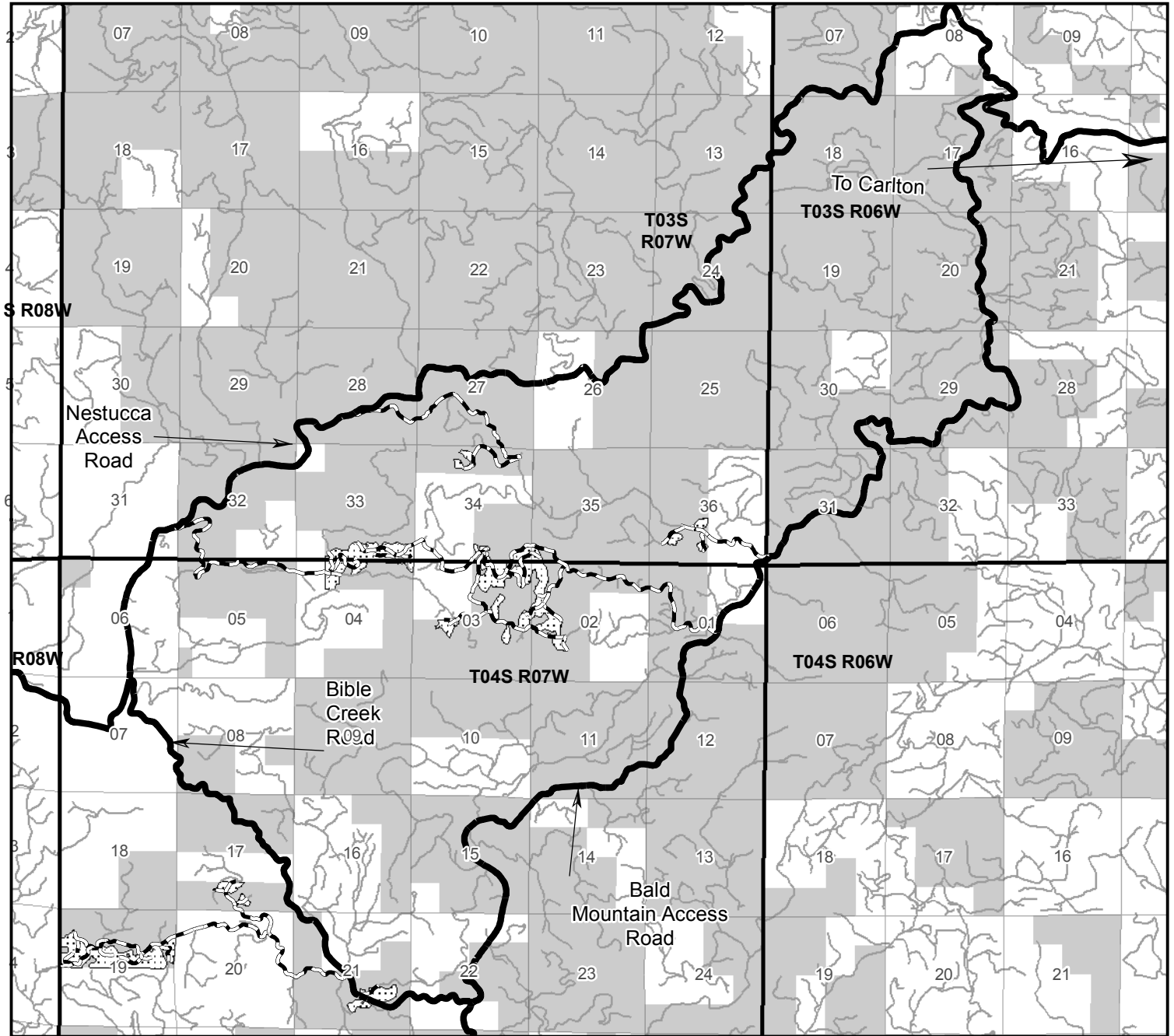


United States Department of the Interior
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NORTHWEST OREGON DISTRICT - OREGON
PROJECT LOCATION MAP

Super Cooper Timber Sale
Contract No. ORN04-TS-2018.0403
Project Location Map
Page 1 of 1



T. 3S. R. 7W. Sections 33, 34, 35 & 36
T. 4S. R. 7W. Sections 2, 3, 4, 17, 19 & 21 W. M. - NORTHWEST OREGON DISTRICT - OREGON



0 0.75 1.5 3
Miles

- Super Cooper Project Area
- Super Cooper Project Roads
- Paved roads
- Other Roads
- Bureau of Land Management

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: csween Date: 6/25/2018



Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Tillamook	4S	7W	3	NE1/4,N1/2SW1/4,NE1/4SE1/4	Willamette
O&C	Tillamook	4S	7W	4	N1/2NE1/4,NE1/4NW1/4	Willamette
O&C	Tillamook	4S	7W	17	SE1/4SW1/4,SW1/4SE1/4	Willamette
O&C	Yamhill	4S	7W	19	E1/2NE1/4,SW1/4NE1/4,W1/2NW1/4,SE1/4NW1/4	Willamette
O&C	Yamhill	4S	7W	21	SE1/4SW1/4,SE1/4	Willamette
O&C	Tillamook	3S	7W	33	SE1/4SW1/4,S1/2SE1/4	Willamette
O&C	Tillamook	3S	7W	34	NE1/4NW1/4,S1/2SE1/4	Willamette
O&C	Tillamook	3S	7W	35	SW1/4SW1/4	Willamette
O&C	Tillamook	3S	7W	36	SW1/4	Willamette
O&C	Tillamook	4S	7W	2	W1/2NW1/4,SE1/4,NW1/4,N1/2SW1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	8,358.0	8,752.0	8,770.0	101,936	158	18,541
Western Hemlock	48.0	50.0	50.0	837	0	254
Red Alder	19.0	21.0	21.0	416	75	280
Totals	8,425.0	8,823.0	8,841.0	103,189	233	19,075

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	402.0	7.0	409.0	20.6

Logging Costs

Stump to Truck	\$1,032,369.40
Transportation	\$238,221.00
Road Construction	\$932,043.28
Maintenance/Rockwear	\$139,375.61
Road Use	\$105.12
Other Allowances	\$59,348.00
Total:	\$2,401,462.41
Total Logging Cost per MBF:	\$285.04

Utilization Centers

Location	Distance	% of Net Volume
Willamina, Or.	15.0 miles	100 %

Profit & Risk

Basic Profit & Risk	9 %
Additional Risk	3 %
Total Profit & Risk	12 %

Tract Features

Quadratic Mean DBH	18.5 in
Average GM Log	86 bf
Average Volume per Acre	20.6 mbf
Recovery	95 %
<u>Net MBF volume:</u>	
Green	8,425.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	70 %
Average Yarding Slope	20 %
Average Yarding Distance	400 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	30 %
Average Yarding Slope	50 %
Average Yarding Distance	500 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

Cruise

Cruise Completed	April 2018
Cruised By	Mario Salmon
Cruise Method	
Variable plot /3P /100%	

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	18,541	8,358.0	\$701.56	\$84.19	\$285.04	\$0.00	\$332.30	\$2,777,363.40
Western Hemlock	254	48.0	\$521.64	\$62.60	\$285.04	\$0.00	\$174.00	\$8,352.00
Red Alder	280	19.0	\$506.31	\$60.76	\$285.04	\$0.00	\$160.50	\$3,049.50
Totals	19,075	8,425.0						\$2,788,764.90

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				69.0 %	29.0 %	2.0 %	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				76.0 %	18.0 %	6.0 %	

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

Super Cooper**Unit Summary****ORN04-TS-2018.0403****Unit: 1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	138.0	145.0	145.0	308
Red Alder	19.0	21.0	21.0	280
Totals:	157.0	166.0	166.0	588

Net Volume/Acre: 22.4 MBF

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

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,795.0	1,880.0	1,885.0	4,000
Totals:	1,795.0	1,880.0	1,885.0	4,000

Net Volume/Acre: 19.7 MBF

Regeneration Harvest	0.0
Partial Cut	91.0
Right of Way	0.0
Total Acres:	91.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	3,019.0	3,161.0	3,169.0	6,725
Totals:	3,019.0	3,161.0	3,169.0	6,725

Net Volume/Acre: 19.7 MBF

Regeneration Harvest	0.0
Partial Cut	153.0
Right of Way	0.0
Total Acres:	153.0

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	215.0	227.0	227.0	747
Western Hemlock	48.0	50.0	50.0	254
Totals:	263.0	277.0	277.0	1,001

Net Volume/Acre: 18.8 MBF

Regeneration Harvest	0.0
Partial Cut	14.0
Right of Way	0.0
Total Acres:	14.0

Unit: 5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,914.0	2,004.0	2,009.0	4,264
Totals:	1,914.0	2,004.0	2,009.0	4,264

Net Volume/Acre: 19.7 MBF

Regeneration Harvest	0.0
Partial Cut	97.0
Right of Way	0.0
Total Acres:	97.0

Unit: 6

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	256.0	269.0	269.0	571
Totals:	256.0	269.0	269.0	571

Net Volume/Acre: 19.7 MBF

Regeneration Harvest	0.0
Partial Cut	13.0
Right of Way	0.0
Total Acres:	13.0

Unit: 7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	533.0	558.0	559.0	1,187
Totals:	533.0	558.0	559.0	1,187

Net Volume/Acre: 19.7 MBF

Regeneration Harvest	0.0
Partial Cut	27.0
Right of Way	0.0
Total Acres:	27.0

Unit: R/W8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	488.0	508.0	507.0	739
Totals:	488.0	508.0	507.0	739

Net Volume/Acre: 69.7 MBF

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

Total Stump To Truck	Net Volume	\$/MBF
\$1,032,369.40	8,425.0	\$122.54

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	2,647.0	\$171.72	\$454,542.84	4 Loads /day @4800BF \$2.00/gallon
Track Skidder	GM MBF	6,176.0	\$93.56	\$577,826.56	6 Loads/day @4800BF \$2.00/gallon
Subtotal				\$1,032,369.40	

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
\$238,221.00	8,425.0	\$28.28

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Willamina, Or.	15.0	All Species	GM MBF	8,823.0	\$27.00	\$238,221.00	100 %

Comments:

100% of volume going to Willamina; Or. 30 miles. 5mbf/load 1hr. round trip @ \$90/hr. 1.5 hour round trip = @ \$135 per trip 5mbf per load = \$27.00

Engineering Allowances

Total	Net Volume	\$/MBF
\$1,071,524.01	8,425.0	\$127.18

Cost Item	Total Cost
Road Construction:	\$932,043.28
Road Maintenance/Rockwear:	\$139,375.61
Road Use Fees:	\$105.12

Total	Net Volume	\$/MBF
\$59,348.00	8,425.0	\$7.04

Environmental Protection

Cost item	Total Cost
Bridge Sweeping	\$400.00
Basal Girdle	\$5,784.00
Fell	\$5,088.00
Equipment Wash	\$296.00
High Girdle	\$15,250.00
Saw Top	\$17,780.00
Yellow R/w	\$5,250.00
Subtotal	\$49,848.00

Logging

Cost item	Total Cost
Landing Pile Burning	\$1,425.00
Subtotal	\$1,425.00

Miscellaneous

Cost item	Total Cost
2 Flaggers	\$1,150.00
Subtotal	\$1,150.00

Slash Disposal & Site Prep

Cost item	Total Cost
OHV Pullback	\$500.00
Landing Pile Cover	\$1,425.00
Pile Burning	\$750.00
Machine Pile Construction & cover	\$4,250.00
Subtotal	\$6,925.00

Comments:

Yellow R/W trees pricing(\$75/tree) from Dist. Cruiser.

Line items 2,3,5 and 6 from Wildlife.

Line items 7-12 Fuels Appraisal

line Items 2,3,5 and 6 Buy Out (total \$43,902 X 21.8%) \$53,472.64

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXPORT DETERMINATION

FORM APPROVED
OMB No. 1004-0058
Expires: May 31, 2013

Location of facility where Federal Timber is
expected to be processed

INSTRUCTIONS

Timber sale applicant forwards information to
Contracting Officer.

In compliance with requirements of 43 CFR 5424.1, ☐ I ☐ We hereby submit the following information:

- (1) Have you exported private timber from lands tributary to the above processing facility within the last 12 months?

☐ Yes ☐ No (If "Yes," give date of last export sale.)

a. Export (date) _____

- (2) Provide names of affiliates * who have exported private timber from lands tributary to the above processing facility within the last 12 months and date of last export sales.

a. Affiliate _____ Export date _____

b. Affiliate _____ Export date _____

c. Affiliate _____ Export date _____

*See 43 CFR 5400.0-5

Name of Firm _____

Signature of Signing Officer _____

Title _____

Date _____

NOTICES

The Privacy Act and 43 CFR 2.48(d) require that you be furnished with the following information in connection with the information requested by this form.

AUTHORITY: 43 CFR Part 5420 permit collection of the information requested by this form.

PRINCIPAL PURPOSE: The BLM uses the information in this form to determine whether Federal timber has been substituted for exported unprocessed private timber.

ROUTINE USES: Timber sale purchaser provides information regarding their export of private timber.

EFFECT OF NOT PROVIDING INFORMATION: Submission of the requested information is required to obtain or retain a benefit. Failure to submit all of the requested information or to complete this form may result in delay or preclude the BLM's acceptance of your form.

The Paperwork Reduction Act requires us to inform you that:

The BLM collects this information to determine whether Federal timber has been substituted for exported private timber in accordance with 43 CFR 5421.1 and 5424.0-6(e).

You do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: The estimated public reporting burden for this form is 1 hour per response for a majority of responses, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. You may submit comments regarding the burden estimate or any other aspect of this form to: U.S. Department of the Interior, Bureau of Land Management (1004-0058), Bureau Information Collection Clearance Officer, 1849 C Street, N.W., Room 2134 LM, Washington, D.C. 20240.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Timber Sale Number
ORN04-TS-2018.0403

Timber Sale Name
Super Cooper

Sale date
08/22/2018

INDEPENDENT PRICE DETERMINATION CERTIFICATE

Bidder or Offeror (Name)

Address (include zip code)

A. By submission of this bid or proposal, each bidder or offeror certifies, and in the case of a joint bid or proposal, each party thereto certifies as to its own organization, that in connection with this sale:

1. The prices in this bid or proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices, with any other bidder or offeror or with any competitor;

2. Unless otherwise required by law, the prices which have been quoted in this bid or proposal have not been knowingly disclosed by the bidder or offeror and will not knowingly be disclosed by the bidder or offeror prior to opening, in the case of a bid, or prior to award, in the case of a proposal, directly or indirectly to any other bidder or offeror or to any competitor; and

3. No attempt has been made or will be made by the bidder or offeror to induce any other person or firm to submit or not to submit a bid or proposal for the purpose of restricting competition.

B. Each person signing this bid or proposal certifies that:

1. He is the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein and that he has not participated, and will not participate, in any action

contrary to A. 1 through 3 above; or

2. (i) He is not the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to A. 1 through 3, above, and as their agent does hereby so certify; and

(ii) He has not participated, and will not participate, in any action contrary to A. 1 through 3, above.

C. This certification is not applicable to a foreign bidder or offeror submitting a bid or proposal for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.

D. A bid or proposal will not be considered for award where A. 1, 3, or B., above, has been deleted or modified. Where A. 2, above, has been deleted or modified, the bid or proposal will not be considered for award unless the bidder or offeror furnishes with the bid or proposal a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, determines that such disclosure was not made for the purpose of restricting competition.

(Authorized Signature of Bidder)

Name and Title (type or print)

INSTRUCTIONS

Submit a properly completed and signed original copy of this form, with offers or bids for sales of all government-owned property to Bureau of Land Management as follows:

- A. Include with sealed bids, written quotations and written offers.
- B. At auction, at close of bidding and before award of spot bid sale.

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on *(date)*

(Check appropriate box, sign in ink, and complete the following)

<input type="checkbox"/> Signature, if firm is individually owned	Name of firm <i>(type or print)</i>
<input type="checkbox"/> Signatures, if firm is a partnership or L.L.C.	Business address, include zip code <i>(type or print)</i>
<input type="checkbox"/> Corporation organized under the state laws of	<i>(To be completed following oral bidding)</i>
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By <i>(signature)</i>
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM. Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" or (1a) "Vegetative Resources Other Than Timber" (2) Time bids are to be opened (3) Legal description

NOTICES

The Privacy Act and 43 CFR 2.48(d) require that you be furnished with the following information in connection with the information required by this form.

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

PRINCIPAL PURPOSE: To qualify an oral auction bidder, and then if successful, to bind bidder to certain contract conditions.

ROUTINE USES: To determine that an individual is qualified to participate in oral auction bidding, and, as surety that bidder will fulfill contract requirements.

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

(Continued on page 3)

(Form 5440-9, page 2)

INSTRUCTIONS TO BIDDERS

1. **AUTHORITY**—Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.

2. **QUALIFICATIONS OF BIDDERS**—A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.

3. **INSPECTION OF TIMBER/VEGETATIVE RESOURCES**—Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.

4. **DISCLAIMER OF WARRANTY**—Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.

5. **BIDS**—Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued *Timber/Vegetative Resource Sale Notice*.

(a) **Sealed Bid Sales**—Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber/Vegetative Resources*, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.

(b) **Auction Sales**—Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.

(c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.

(d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.

6. **BID FORMS**—All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.

(a) **Lump Sum Sales**—Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.

(b) **Timber Scale Sales**—Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management

estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut and removed prior to expiration of time for cutting and removal as specified in contract.*

7. **BID DEPOSIT**—All bidders must make a deposit of not less than the amount specified in the *Timber/Vegetative Resource Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior—BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department*, or any approved guaranteed remittance approved by the Contracting Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

8. **AWARD OF CONTRACT**—Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.

9. **TIMBER/VEGETATIVE RESOURCE SALE CONTRACT**—To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. PERFORMANCE BOND—

(a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) any guaranteed remittance approved by the Contracting Officer.

(b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.*

11. **PAYMENT BOND**—If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.*

12. **PAYMENT OF PURCHASE PRICE**—For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.

13. **LIQUIDATED DAMAGES**—Within thirty (30) days from receipt of *Timber/Vegetative Resources Sale Contract*, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.

14. **NINETY-DAY SALES** – If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

15. **UNAUTHORIZED USE OF GOVERNMENT PROPERTY** – A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.

16. **EQUAL OPPORTUNITY CLAUSE** – This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity *Compliance Report Certification* will be completed by prospective contractors. Certification may be obtained from District Manager.

17. **LOG EXPORT** – All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2)

cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimensions or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to "unprocessed timber". Special reporting, branding and painting of logs may be included in contract provisions.*

18. **DETAILED INFORMATION** – Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.