

**\*\*REVISED\*\***  
**P R O S P E C T U S**  
**DXP SCALED-SALE**

BUTTE FALLS FIELD OFFICE  
 JACKSON MASTER UNIT

Medford Sale # ORM05-TS19-12  
 June 27, 2019 (CB)

#1. Miles Salvage Timber Sale, Jackson County, O&C      BID DEPOSIT REQUIRED: **\$11,500.00**

All timber designated for cutting in SE $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ , Section 5, NE $\frac{1}{4}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , S $\frac{1}{4}$ , Section 7, N $\frac{1}{2}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 8, N $\frac{1}{2}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , Section 9, SW $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 10, W $\frac{1}{2}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Section 15, NE $\frac{1}{4}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , SE $\frac{1}{4}$ , Section 17, Lot 4, SE $\frac{1}{4}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 19, NW $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 27, W $\frac{1}{2}$ NW $\frac{1}{4}$ , Section 29, NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Section 35, T. 32 S., R. 1 E.; SE $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 11, E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , Section 12, NW $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , Section 13, NE $\frac{1}{4}$ NE $\frac{1}{4}$ , Section 14, T. 32 S., R. 1 W.; Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
7,995	3656	Douglas-fir	4,447	\$24.20	\$107,617.40
302	91	Incense-Cedar	116	\$29.40	\$3,410.40
77	86	Sugar Pine	109	\$11.80	\$1,286.20
106	113	Ponderosa Pine	130	\$12.90	\$1,677.00
179	33	White fir	42	\$17.00	\$714.00
8,659	3,979	<b>Totals</b>	4,844		\$114,705.00

\*Stumpage values have been determined by market value estimates and analytical appraisal methods were used to compute the appraised price. Additional information concerning the appraised price is available at the Medford District Office.

**TIMBER AUCTION LOCATION** – The timber auction will be held at the Medford Inter-agency Office, located at 3040 Biddle Road Medford, Oregon, at 9 a.m. on Thursday, June 27th, 2019.

**Bidders will be restricted to bidding on a unit (MBF) rate of the Douglas-fir volume. All other species will be sold at appraised price per unit (MBF). The minimum bid increment will be \$0.10 per MBF.**

**CRUISE INFORMATION** – All species have been cruised using the PCMTRE cruising method. 116 plots were cruised using a 40 BAF and a sampling frequency of 1 in 6. Maps showing the location of these sample plots are available at the Medford Interagency Office.

Approximately 0 trees which are considered to be non-merchantable are designated for cutting. All of the 4,844 M bd. ft sale volume is salvage material. With respect to merchantable trees of all conifer species: the average tree is 23.6 inches DBHOB; the average gross merchantable log contains 165 bd. ft.; the total gross volume is approximately 6,122 M bd. ft; and 79% recovery is expected. (Average DF is 23.4 inches DBHOB; average gross merchantable log DF contains 163 bd. ft.)

LOG EXPORT AND SUBSTITUTION RESTRICTIONS - 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 use 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.

CUTTING AREA – Fifty (50) units containing three hundred eighty six (386) acres of fire salvage and/or roadside tree removal.

CUTTING TIME - Contract duration will be twenty four (24) months for cutting and removal of timber.

ACCESS - Access to the sale area is available via public roads and through the contract area using BLM Roads and Right-of-way and Road Use Agreement M-M660I with Hancock Timberlands X, Inc., via Right-of-way and Road Use Agreement M-M660J with Siskiyou Timberland, LLC, via Right-of-way and Road Use Agreement M-M660L with Murphy Timber Investments, LLC, via Right-of-Way and Road Use Agreement M-2000E with John Hancock Life Insurance, and via Right-of-Way and Road Use Agreement M-2000F with Weyerhaeuser Company.

Among other conditions, agreement M-660I with Hancock Timberlands X, Inc. requires completion of a license agreement between the Purchaser and Hancock Timberlands X, Inc., road maintenance to be performed by the Purchaser or BLM and an estimated payment of a road surface replacement fee of \$1,119.90. Among other conditions, agreement M-660J with Siskiyou Timberland, LLC requires completion of a license agreement between the Purchaser and Siskiyou Timberland, LLC, road maintenance to be performed by the Purchaser or BLM and an estimated payment of a road surface replacement fee of \$397.93. Among other conditions, agreement M-660L with Murphy Timber Investments requires completion of a license agreement between the Purchaser and Murphy Timber Investments, road maintenance to be performed by the Purchaser or BLM and an estimated payment of a road surface replacement fee of \$2,539.59. Among other conditions, agreement M-2000E with John Hancock Life Insurance requires completion of a license agreement between the Purchaser and John Hancock Life Insurance, road maintenance to be performed by the Purchaser or BLM and an estimated payment of a road surface replacement fee of \$18.48. Among other conditions, agreement M-2000F with Weyerhaeuser Company requires completion of a license agreement between the Purchaser and Weyerhaeuser Company, road maintenance to be performed by the Purchaser or BLM and an estimated payment of a road surface replacement fee of \$10.03.

ROAD MAINTENANCE - The Purchaser will be required to maintain all the temp routes and existing decommissioned roads he constructs/reconstructs plus 11.72 miles of existing BLM and

private roads. The BLM will maintain the approximately 48.73 miles of existing BLM and private roads.

**ROAD CONSTRUCTION** – The contract will require the Purchaser to construct 24.82 stations of temporary roads and to construct 6.33 stations of permanent road.

**SOIL DAMAGE PREVENTION** - Pursuant to Section 26 of Form 5450-4, Timber Sale Contract, the Purchaser shall not conduct mechanical ground-based harvesting, ground-based yarding, skid trail and landing rehabilitation, temporary route construction, or temporary route decommissioning in Timber Sale Units between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

Pursuant to Section 26 of Form 5450-4, Timber Sale Contract, the Purchaser shall not conduct any haul on natural surface and rocked roads on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

**EQUIPMENT REQUIREMENTS** – A forty (40) foot tower capable of yarding one thousand two hundred (1,200) feet, with lateral yarding capability of seventy five (75) feet, with one end suspension of logs during inhaul, and capable of full suspension. Equipment anchors will be necessary at several landings. A yarding tractor will not exceed nine (9) feet in width and must be capable of bull-lining one hundred (100) feet. A piece of equipment capable of sub-soiling to a depth of eighteen (18) inches will be required for decommissioning temporary routes and skid roads. Specialized logging equipment such as a feller buncher or harvester may only be used on designated skid roads.

**SLASH DISPOSAL** - Slash disposal within the harvest units will consist of lop and scatter, and pile and cover landing decks as described in SD-5 of the Special Provisions. Lop and scatter areas of high slash concentration within units. A post logging assessment shall be conducted to determine treatment needs in all units. The initial appraisal prescribed one hundred fifty (150) acres of lop and scatter and twenty (20) acres of pile and cover landing piles.

**CONTRACT TERMINATION** - A 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 comply with the Endangered Species Act, or comply with a court order. This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

**PERFORMANCE BOND** - A performance bond in the amount of 20% of the total purchase price will be required.

**OTHER** -

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.

2. All leave trees will be selected by the Purchaser through Designation by Prescription (DxP) criteria as outlined in Exhibit F except in the roadside cable units which are marked to cut in blue paint above and below DBH.
3. Equipment such as Feller Bunchers or cut to length systems can operate only on approved designated skid roads.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Medford, take Hwy 62 north approximately 27 miles to Elk Creek Road. Turn left onto Elk Creek road and proceed to the sale area. Units can be accessed from Sugar Pine Creek Road, Flat Creek Road, W Branch Elk Creek Road. Units 35-1 and 35-2 can be accessed from Takelma Drive off of Hwy 62 near Lost Creek Lake.

ENVIRONMENTAL ASSESSMENT – An Environmental Assessment # DOI-BLM-ORWA-M050-2019-0004-EA was prepared for this sale, and a Finding of No Significant Impact has been documented for this environmental assessment. This document is available for inspection as background for this sale at the Medford District Office.



## MILES SALVAGE TIMBER SALE

THIS IS A SALE PROSPECTUS ONLY. THESE ARE THE SPECIAL PROVISIONS AS THEY WILL BE WRITTEN IN THE CONTRACT. ATTACHMENTS MAY NOT INCLUDE ALL EXHIBITS REFERRED TO IN THE CONTRACT PROVISIONS. THE COMPLETE CONTRACT, INCLUDING ALL EXHIBITS, IS AVAILABLE FOR INSPECTION AT THE MEDFORD INTERAGENCY OFFICE.

Sec. 41. TIMBER RESERVED FROM CUTTING - The following timber on the contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of Government.

- (A) AR-1 All timber on the Reserve Areas as shown on Exhibit A and all trees marked with a combination of orange paint, orange flagging, and/or posters which are on or mark the boundaries of the Reserve Areas.
- (B) IR-1 One (1) tree marked with orange paint above and below stump height in unit 9-1a as shown on Exhibit A.
- (C) IR-2 All timber except approximately five hundred ninety (590) trees marked for cutting heretofore by the Government with blue paint above and below stump height in units RS7, RS8A, RS8B, RS9, RS15A, RS15B, RS15C, RS17A, RS17B, RS29A, RS29B, RS35A, RS35B, RS12A, RS12B, RS12C, RS13A, and RS13B as shown on Exhibit A.
- (D) IR-8 All timber except trees that meet the selection criteria outlined in the Designation by Prescription Marking Guidelines (Exhibit E) in units 5-1, 5-2, 5-3, 7-1, 7-2a, 7-4a, 7-4b, 7-5, 7-6, 7-7, 8-1, 8-2, 8-4, 8-5, 8-6, 9-1a, 9-1b, 9-2a, 9-2b, 9-3, 17-1a, 17-1b, 17-1c, 19-1, 19-2, 27-1, 27-2, 27-3, 35-1, 35-2, 13-5a, and 13-5b shown on Exhibit A.
- (E) IR-13 All green hardwoods in the Harvest Areas shown on Exhibit A which do not present a safety hazard.
- (F) IR-14 All pre-existing dead and down logs in the Harvest Area shown on Exhibit A which do not present a safety hazard.

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(A) LOGGING

- (1) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. 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.
- (2) L-2 Prior to the commencement of operations the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract, which shall include measures needed to ensure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan.
- (3) L-4 All trees designated for cutting shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.
- (4) L-7 In all units, as shown on Exhibit A, all trees designated for cutting shall be felled, limbed, and yarded to approved landing locations.
- (5) L-10 In units shown on Exhibit A, all trees designated for cutting shall be directionally felled away from streams, unit boundaries, livestock improvements, and resource buffers. Use of jacks, wedges, and/or tree pulling with cables or lines shall be employed when necessary to meet this requirement.
- (6) L-12 In the units shown on Exhibit A, yarding shall be done in accordance with the yarding requirements or limitations for the designated area listed below.

Designated Area	Yarding Requirements or Limitations
Ground Based Units 7-4a, 9-1a, 17-1a, 19-1, and 27-3	Specialized mechanized felling operations shall be limited to operating on designated skid roads approved by the Authorized Officer.  Ground based equipment must operate on slopes generally less than thirty-five (35) percent slope except on preexisting skids and short steeper pitches.

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Designated Area	Yarding Requirements or Limitations
Ground Based Units 7-4a, 9-1a, 17-1a, 19-1, and 27-3 Continued	<p>Yarding tractor width shall not be greater than nine (9) feet track width and shall be equipped with an integral arch to suspend one end of the log.</p> <p>Locate landings on stable locations, such as ridge tops, stable benches, or flats where topographically feasible. Use existing jeep roads, skid trail, and landing footprints where possible. Locate landings away from slide areas, headwalls, seeps, springs, high landslide hazards locations, and Riparian Reserves, unless there is no practicable alternative. Locations are to be approved by the Authorized Officer before construction.</p> <p>Cull material skidded to the landing may be required to be redistributed back into the unit.</p> <p>Trees shall be limbed prior to yarding.</p> <p>Skidding up or down dry draws and through natural meadows shall be avoided.</p> <p>Prior to October 15<sup>th</sup>, block, rehabilitate and apply erosion control measures to skid trails and landings.</p> <p>Existing skid roads shall be used when possible. Skid trails shall be pre-designated and approved by the Authorized Officer prior to use.</p> <p>Designate skid trails in locations that prevent water channeling into waterbodies, floodplains, wetlands, or unstable areas. No skid trails shall be located within or cross stream channels.</p>

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Designated Area	Yarding Requirements or Limitations
<p>Ground Based Units  7-4a, 9-1a, 17-1a,  19-1, and 27-3  Continued</p>	<p>If trenches, depressions, or excessive disturbance occurs, the Authorized Officer shall suspend operations until a remedy is determined.</p> <p>Where skid trails encounter course woody debris (CWD) sixteen (16) inches and larger at the small end, a section of the CWD is to be bucked out for equipment access. The bucked out portion shall be as narrow as operationally feasible, (maximum of fourteen (14) feet). The remainder of the CWD shall be left in place and not disturbed.</p> <p>Skid roads shall not exceed a width of fourteen (14) feet on average per unit and new skid roads shall be placed at least one hundred fifty (150) feet apart where topography will allow. Where multiple machines are used, provide a minimum-sized pullout for passing</p> <p>In upland units, allow harvesting operations (cutting and transporting logs) when ground is frozen or adequate snow cover exists to prevent soil compaction and displacement. The Authorized Officer would consult with soil scientist to determine appropriate conditions. Stop operations immediately, if conditions change during operations where detrimental soil compaction and displacement is occurring.</p> <p>Landing size shall not exceed one-half (½) acre, shall be located along existing roads or temporary routes within unit boundaries where possible, and shall be approved by the Authorized Officer. Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.</p>

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Designated Area	Yarding Requirements or Limitations
<p>Skyline Yard Units  7-4b, 7-5, 8-6, 9-2a,  9-3, 17-1b, 19-2,  35-1, 35-2, and  13-5a</p>	<p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>Prior to falling any timber in the unit, all corridors, tail/lift trees and/or intermediate support trees shall be pre-designated by the Purchaser and approved by the Authorized Officer.</p> <p>A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy five (75) feet.</p> <p>Yarding corridors will be perpendicular to the contours and located outside of all buffers shown on Exhibit A.</p> <p>Design yarding corridors crossing streams such that the corridors are perpendicular to the orientation of the streams, as is practicable.</p> <p>Existing cable corridors shall be used whenever possible.</p> <p>Yarding corridors shall not exceed approximately fifteen (15) feet in width and shall be approximately one hundred fifty (150) feet apart, measured at the tailholds.</p> <p>Landing size shall not exceed one-quarter (<math>\frac{1}{4}</math>) acre, shall be located along existing roads and temporary routes within unit boundaries where possible, and shall be approved by the Authorized Officer.</p> <p>Design landings with adequate drainage so that they are not hydrologically connected to streams or the ditchline of roads.</p> <p>Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required. Trees shall be limbed prior to yarding.</p>

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Designated Area	Yarding Requirements or Limitations
<p>Skyline Yard Units 7-4b, 7-5, 8-6, 9-2a, 9-3, 17-1b, 19-2, 35-1, 35-2, and 13-5a Continued</p>	<p>Cull material yarded to the landing may be required to be redistributed back into the unit.</p> <p>Yarding up or down dry draws shall be avoided.</p> <p>Where possible, yarding corridors would avoid passing through natural meadows or would employ full suspension yarding techniques.</p> <p>Cover entire length of yarding corridors with slash or mulch in areas with fragile soils (Units 7-4b, 7-5, 8-6, 9-3, 13-5a, 19-2, 35-1).</p> <p>Prior to October 15, implement erosion control measures for hydrologically-connected cable yarding corridors within Riparian Reserves by water-barring and placing slash or mulch on the entire length to protect water quality and minimize soil erosion. (Unit 9-2a and 9-3).</p> <p>Use full-log suspension whenever practicable on soils identified as prone to surface erosion in Units 13-5a, 19-2, 9-3, and 35-2 from field review. Use one-end suspension on these soils if full suspension is not practicable. Restrict yarding to the dry season, generally May 15 to October 15.</p> <p>Prevent streambank and hillslope disturbance on steep slopes (generally &gt;60%) by requiring full-suspension within 50 feet of definable stream channels. Yard the remaining areas across the Riparian Reserve using at least one-end suspension.</p> <p>Construct water bars by hand and pull available slash on skyline-cable yarding corridors if gouging of mineral soil occurs for a continuous distance of 20 feet or more.</p>

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Designated Area	Yarding Requirements or Limitations
<p>Helicopter Yard Units 5-1, 5-2, 5-3, 7-1, 7-2a, 7-6, 7-7, 8-1, 8-2, 8-4, 8-5, 9-1b, 9-2b, 17-1c, 27-1, 27-2, and 13-5b</p>	<p>Log landing size shall not exceed 1 acre.</p> <p>Service landing size shall not exceed 3 acres.</p> <p>Lift logs vertically (without horizontal movement) to a height above the adjacent leave trees.</p> <p>Vertically lift multiple log turns from a small enough radius to result in minimal damage to the residual forest stand as determined by the Authorized Officer.</p> <p>A dropline with a minimum length of one hundred fifty (150) feet is required.</p> <p>Restrict aerial operations within 0.5 mile of any residence to an operating time of 6:00 a.m. to 6:00 p.m., Monday through Friday (Units 27-1 and 27-2). Approval for weekend aerial operations, within this distance, is required from the Authorized Officer.</p> <p>Leave and scatter ground cover (slash or coarse woody debris) on slopes that were moderately or severely burned with soils that have a very severe erosion hazard rating (portions of Units 5-2, 13-5b, 19-3).</p> <p>Trees shall be limbed prior to yarding</p>

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Designated Area	Yarding Requirements or Limitations
Cable Units RS7, RS8A, RS8B, RS9, RS15A, RS15B, RS15C, RS17A, RS17B, RS29A, RS29B, RS35A, RS35B, RS12A, RS12B, RS12C, RS13A, and RS13B	<p>Yarding equipment shall be approved by the Authorized Officer.</p> <p>Yarding tractors shall operate only on existing improved roads.</p> <p>Yarding tractors shall be equipped with and winch systems capable of lining logs at least two hundred (200) feet.</p> <p>Landing size shall not exceed one-quarter (1/4) acre.</p> <p>No Yarding up or down draw bottoms as determined by the Authorized Officer.</p> <p>Front end loaders shall not be used in units or on landings.</p> <p>Immediately after use, construct water bars by hand in cable yarding areas where substantial gouging occurs that could lead to the capture and conveyance of water and/or contribute to soil erosion, as determined by the soil scientist and directed by the Authorized Officer.</p> <p>Pull available slash on cable yarding areas if gouging of mineral soil occurs for a continuous distance of 20 feet or more. Yarding corridors are not to exceed 20% of the area of the unit.</p>

- (7) L-14 No falling, yarding or loading is permitted in or through the Reserve Area as shown on Exhibit A, unless otherwise approved by the Authorized Officer.
- (8) L-19 No ground based yarding, skid trail and landing rehabilitation, non-emergency road maintenance shall be conducted in the sale area between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, less than 25% at four (4) to six (6) inches, or when soil at the surface would readily displace, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.



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- (9) L-19 No yarding shall be conducted on units 13-5a, 19-2, 9-3, and 35-2 between October 15 of one calendar year and May 15 of the following calendar year both days inclusive.
- (10) L-19 No haul shall be conducted in the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive except on roads 32-1E-7.01, 32-1E-7.02, 32-1E-17.04 A, 32-1E-17.05 A1-A2, 32-1E-18.00 A (portion), 32-1E-20.00 A-D, 32-1E-23.00 A-D1 (portion), 32-1E-27.00 A-E, 32-1W-23.02 A-B, 32-1W-26.00 A-C, 33-1E-17.00 A-D, and the 33-1E-27.00 B-O. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked. On active haul roads, during the wet season, use durable rock surfacing and sufficient rock depth to resist rutting or development of sediment on road surfaces that drain directly to wetlands, floodplains, and waters of the state.
- (11) L-19 No haul shall be conducted on roads 32-1E-7.03, 32-1E-9.00 A1-A3, 32-1E-9.04, 32-1E-10.01 A-B2, 32-1E-18.00 A-B, 32-1E-19.00, 32-1E-20.01 A-C, 32-1E-22.00 A-D, 32-1E-23.02 A-B, 32-1E-29.01 A1-A2, 32-1E-29.02 A-B2, 32-1E-35.00 A-B, 32-1E-35.01, 32-1E-35.02 A, 32-1E-35.03, 32-1W-12.00, 32-1W-12.01, and the 32-1W-13.00 A-B between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive except when adequate rock is added to the roadbed as determined by the Authorized Officer. If the Authorized Officer, in consultation with Field Office watershed specialists and engineers, determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, a conditional waiver for hauling may be granted. The conditional waiver may be suspended or revoked if conditions become unacceptable (where the road surface is deteriorating due to vehicular rutting or standing water, or where turbid runoff is likely to reach stream channels) as determined by the Authorized Officer.
- (12) L-19 Hauling is restricted to the ODFW in-water work period (June 15 – September 15) for road # 32-1E-10.0 (Hawk Creek Rd) and road # 32-1E-23.0 (Sugar Pine Timber Creek Rd) from the ford over Timber Creek west, due to the presence of four low water ford crossings over fish habitat. If temporary crossing structures are placed over the fords, hauling may be extended to include dry season use (generally May 15 to October 15) with ODFW approval for a variance from the instream to install/remove the temporary crossing(s). Additional extensions may be granted

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based on current and forecasted stream flows, particularly on the fall side of the dry season, with consultation with a fish biologist or watershed specialist.

- (13) L-19 No new permanent roads, temporary routes, and landing construction shall be conducted in the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. Stop all road and landing construction activities when soil moisture is greater than 25% or a storm event results in degrading conditions as evidenced by turbid runoff, turbid ditch flow, ponding, or rutting or other displacement in excess of 2 inches. Watershed specialists are to closely monitor storms that result in precipitation and would convey pertinent information to the Authorized Officer. Similarly, the Authorized Officer is to convey road, landing, and ditch conditions to the watershed specialists.
- (14) L-20 No operations shall be conducted in units 13-2, 13-5a, 13-5b, RS13a, and RS 13b and roads 32-1-12.0, 32-1-13.0A-B, 32-1-23.2A-B, 32-1-26.0C, and 32-1E-18.0A-B between January 1 and August 15, both days inclusive. This restriction will not apply if it can be shown from raptor surveys conducted in accordance with accepted standards that raptor nesting and/or fledgling activities are not occurring during the year of harvest.
- (15) L-20 No operations shall be conducted in units 13-2 and 13-5b East portion and roads 32-1-26.0C, 33-1E-17.0B-C, and 33-1E-27.0D-E between March 1 and June 30, (possible extension up to September 30) both days inclusive. This restriction will not apply if it can be shown from spotted owl surveys conducted in accordance with accepted standards that spotted owl nesting and/or fledgling activities are not occurring during the year of harvest.
- (16) L-20 No operations shall be conducted within 1.0 mile radius of active gray wolf dens and rendezvous sites between April 1<sup>st</sup> through July 15<sup>th</sup> of the same calendar year, both days inclusive. Prior to the spring, communication between U.S. Fish and Wildlife Service, Oregon Department of Fish and Wildlife, and the BLM will occur to determine if any wolf activity has expanded or moved into the Project Area.
- (17) L-29 In accordance with the requirements of Sec. 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in or adjacent to all units as shown on Exhibit A, which is obstructing needed cable yarding roads, ground based yarding skid roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees, or severely damaged from the normal conduct of felling or yarding operations to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such

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additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:

- (a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Sec. 41 of the contract are not included in the authorization.
- (b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump immediately after falling with a large "X". The "X" shall be cut with a chain saw. The stump shall be marked by hanging red fluorescent flagging near the stump so that the stump can be visually located from a distance of not less than one hundred (100) feet.
- (c) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Sec. 3(a) or 3(c) of the contract as required by Sec. 8 of the contract.
- (d) No timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3(a) or 3(c) of the contract have been made.
- (e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
  - 1. Failed to properly mark any stump with the "X" cut.
  - 2. Failed to identify the location of any stump.
  - 3. Cut any tree that was reserved for tree improvement and/or wildlife habitat.
  - 4. Cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
  - 5. Cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.
  - 6. Failed to properly segregate any pulled over tree that was yarded to the landing.
  - 7. Cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
  - 8. Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
  - 9. Cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.

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10. Cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tailhold trees.
11. Failed to maintain accurate and current (no more than 24 hours old) documentation of cut and removed timber.

If the permission to cut and remove additional timber provision is withdrawn, the Authorized Officer shall deliver to the Purchaser a written notice that additional sale of timber under this special provision is no longer approved.

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract.

The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

All cable-yarding and ground based equipment skid roads upon which timber may be cut and removed in accordance with this special provision must be needed for the removal of timber sold under this contract and shall be limited to the narrowest width necessary for the yarding of logs with minimum damage to reserved trees. The Purchaser shall be liable for damages in accordance with Sec. 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

- (18) L-33 Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties in the 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 Section 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 Contract Area, Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with

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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.

(B) ROAD CONSTRUCTION, MAINTENANCE, AND USE

- (1) R-1: The Purchaser shall construct, improve, renovate, and/or decommission all roads and structures in strict accordance with the plans and specifications shown on Exhibit C and Exhibit D, which is attached hereto and made a part hereof.
- (2) R-1a: Any required construction, improvement, or renovation of structures and roads shall be completed and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber, over that road.
- (3) R-1b: The Purchaser shall construct, use and decommission all temporary routes by October 15<sup>th</sup> of the same respective operating season. If temporary routes are needed over two operating seasons, then the temporary route shall be winterized. The Purchaser shall renovate, rock the fords, and use Road Nos. 32-1E-4.00, 32-1E-10.00 C, and 32-1E-23.00 D1 between June 15<sup>th</sup> and September 15<sup>th</sup> of the same year.
- (4) R-2: The Purchaser is authorized to use the roads listed and shown on Exhibit D-2 for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(C)(6). Any road listed on Exhibit D-2 and requiring construction, improvement, or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, 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.

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Road No. and Segment	Length Miles Used	Road Control	Road Surface Type	Maintenance Responsibility
32-1E-4.00 A	0.74	Murphy	NAT	Purchaser
32-1E-7.01	1.23	BLM	AGG	BLM
32-1E-7.02	0.60	BLM	AGG	BLM
32-1E-7.03	0.57	BLM	AGG	Purchaser
32-1E-8.01	0.20	BLM	AGG	Purchaser
32-1E-9.00	0.74	BLM	AGG	BLM
32-1E-9.01 A-B2	1.23	BLM	AGG	Purchaser
32-1E-9.01 C	0.54	Murphy	NAT	Purchaser
32-1E-9.04	0.32	BLM	AGG	Purchaser
32-1E-10.00 A	0.26	Murphy	NAT	Purchaser
32-1E-10.00 B	0.11	BLM	NAT	Purchaser
32-1E-10.00 C	0.38	Murphy	NAT	Purchaser
32-1E-10.00 D	0.08	BLM	NAT	Purchaser
32-1E-10.00 E	0.14	Murphy	NAT	Purchaser
32-1E-10.01 A-B2	1.89	BLM	AGG	BLM
32-1E-15.00 A-B	0.90	BLM	AGG	BLM
32-1E-15.01	0.83	BLM	AGG	BLM
32-1E-15.06	0.25	BLM	AGG	BLM
32-1E-17.01	0.15	BLM	NAT	Purchaser
32-1E-17.04 A	0.75	BLM	AGG	BLM
32-1E-17.05 A1-A2	0.85	BLM	AGG	BLM
32-1E-17.06	0.32	BLM	AGG	Purchaser
32-1E-17.07	0.42	BLM	NAT	Purchaser
32-1E-17.08	0.14	BLM	NAT	Purchaser
32-1E-18.00 A-B	0.75	BLM	AGG	BLM
32-1E-19.00	0.21	BLM	AGG	Purchaser
32-1E-20.00 A	0.58	Murphy	AGG	BLM
32-1E-20.00 B-C	1.85	BLM	AGG	BLM
32-1E-20.00 D	0.22	Murphy	AGG	BLM
32-1E-20.01 A-B	1.31	Murphy	AGG	BLM
32-1E-20.01 C	1.42	BLM	AGG	BLM

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32-1E-21.00 A-B	1.15	Hancock	NAT	Purchaser
32-1E-22.00 A	1.35	BLM	AGG	BLM
32-1E-22.00 B1	0.38	Weyerhaeuser	AGG	BLM
32-1E-22.00 B2-C	1.41	BLM	AGG	BLM
32-1E-23.00 A-B1	1.88	BLM	BST	BLM
32-1E-23.00 B2	0.44	BLM	AGG	BLM
32-1E-23.00 C	0.78	Murphy	AGG	BLM
32-1E-23.00 D1	0.82	BLM	AGG	Purchaser
32-1E-23.02 A-B	0.70	John Hancock	AGG	BLM
32-1E-27.00 A	0.47	BLM	BST	BLM
32-1E-27.00 A	0.26	BLM	AGG	BLM
32-1E-27.00 B	0.74	Hancock	AGG	BLM
32-1E-27.00 C	0.02	Murphy	AGG	BLM
32-1E-27.00 D	1.24	Murphy	AGG	BLM
32-1E-27.00 E	0.84	BLM	AGG	BLM
32-1E-28.00 A1	0.12	Hancock	AGG	Purchaser
32-1E-28.00 A2	0.31	Murphy	AGG	Purchaser
32-1E-29.01 A1-A2	0.97	BLM	AGG	BLM
32-1E-29.02 A	0.37	Hancock	AGG	Purchaser
32-1E-29.02 B1-B2	0.82	BLM	AGG	Purchaser
32-1E-35.00 A-B	2.25	BLM	AGG	BLM
32-1E-35.01	0.10	BLM	AGG	BLM
32-1E-35.02 A	0.26	BLM	AGG	BLM
32-1E-35.03	0.38	BLM	AGG	BLM
32-1W-12.00	2.32	BLM	AGG	Purchaser
32-1W-13.00 A-B	3.35	BLM	AGG	BLM
32-1W-23.02 A	1.02	BLM	AGG	BLM
32-1W-23.02 B	0.65	Siskiyou	AGG	BLM
32-1W-26.00 A-C	2.66	BLM	AGG	BLM
33-1E-17.00 A-D	4.66	BLM	BST	BLM
33-1E-27.00 B-G	4.05	BLM	AGG	BLM
33-1E-27.00 H	0.07	Siskiyou	AGG	BLM

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33-1E-27.00 I	0.07	BLM	AGG	BLM
33-1E-27.00 J	0.91	Siskiyou	AGG	BLM
33-1E-27.00 K-O	2.43	BLM	AGG	BLM

- (5) R-2a: With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of road(s) needs a line for the list here included in Section 42(C)(8) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with other users on these roads.
- (6) R-2d: The Purchaser shall pay a road maintenance fee of \$0.92 per thousand board feet log scale per mile for the use of roads 32-1E-23.00 A-B1, 32-1E-27.00 A (portion), and 33-1E-17.00 A-D, the Purchaser shall pay a road maintenance fee of \$0.75 per thousand board feet log scale per mile for the use of roads 32-1E-23.00 B2, 32-1E-27.00 A (portion), and 33-1E-27.00 B-G, and the Purchaser shall pay a road maintenance fee of \$0.95 per thousand board feet log scale per mile for the use of all other roads maintained by the Bureau of Land Management or the road owner within the sale area. The Purchaser shall also pay a road rockwear fee of \$0.49 per thousand board feet log scale per mile for all rocked roads. **The Purchaser will be required to label, with a permanent marker, each load ticket with the corresponding unit number as directed by the Authorized Officer.** The total maintenance fee due shall be based upon volumes determined pursuant to Exhibit B of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Authorized Officer shall establish an installment schedule of payment of the maintenance obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total maintenance payments made under this contract exceed the total maintenance and rockwear payment due, such excess shall be returned to the Purchaser after such determination is made.
- (7) R-2e: The Contracting Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance and rockwear fees for the particular surface type of the road(s) involved. These fees



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will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the road(s) listed in Section 42(C)(4). If the total road maintenance and rockwear fee does not exceed five hundred and no/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 no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligation(s).

- (8) R-2f: The Purchaser shall perform any required road repair and maintenance work on roads identified as Purchaser maintenance, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof. 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, of this contract, which is attached hereto and made a part hereof.
- (9) R-3: In the use of Road Nos. 32-1E-21.00 A, 32-1E-21.00 B, 32-1E-27.00 B, 32-1E-28.00 A1, and 32-1E-29.02 A, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No M-660I, between the United States of America and Hancock Timberlands X, Inc. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of an estimated road rockwear obligation of **One thousand one hundred nineteen and 90/100 dollars (\$1,119.90)** to Hancock Timberlands X, Inc., payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees 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.
- (10) R-3: In the use of Road Nos. 32-1W-23.02 B, 33-1E-27.00H, and 33-1E-27.00J, the Purchaser shall comply with the conditions of Right-of-Way and

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Road Use Agreement No. M-660J, between the United States of America and Siskiyou Timberland, LLC. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road rockwear obligation of **Three hundred ninety seven and 93/100 dollars (\$397.93)** to Siskiyou Timberland, LLC, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees 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.

- (11) R-3: In the use of Road Nos. 32-1E-4.00 A, 32-1E-9.01 C, 32-1E-10.00A, 32-1E-10.00 C, 32-1E-10.00 E, 32-1E-20.00 A, 32-1E-20.00 D, 32-1E-20.01 A, 32-1E-20.01 B, 32-1E-23.00 C, 32-1E-27.00 C, 32-1E-27.00 D, and the 32-1E-28.00 A2, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660L, between the United States of America and Murphy Timber Investments, LLC. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road rockwear obligation of **two thousand five hundred thirty nine and 59/100 dollars (\$2,539.59)** to Murphy Timber Investments, LLC, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees

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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.

- (12) R-3: In the use of Road Nos. 32-1E-23.02 A and 32-1E-23.02 B, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000E, between the United States of America and John Hancock Life Insurance Company. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road rockwear obligation of **eighteen and 48/100 dollars (\$18.48)** to John Hancock Life Insurance Company, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees 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.

- (13) R-3: In the use of Road No. 32-1E-22.00 B1, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000F, between the United States of America and Weyerhaeuser Company. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road rockwear obligation of **ten and 03/100 dollars (\$10.03)** to Weyerhaeuser Company, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.

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- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees 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.
- (14) R-3c: The Purchaser agrees that if they elect to use any other private road, which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.
- (15) R-3e: The Purchaser shall pay a rockwear fee of \$0.60 per thousand board feet log scale per mile for the use of said roads. The totals fees due shall be based on the volumes specified in Exhibit B of this contract, and mileage of roads used, as determined by the Authorized Officer. Prior to the use of such roads, the Purchaser shall give written notice to the Contracting Officer of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Contracting Officer shall establish and installment schedule of payment of the road use and maintenance obligation.
- (16) R-4: The Purchaser shall be required to secure written approval to use vehicles or haul forest products and equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics at least fifteen (15) days prior to proposed move in.

Details shall include:

- A. Axle weights when fully loaded.
- B. Axle spacing.

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- C. Transverse wheel spacing.
- D. Tire size.
- E. Outside width of vehicle.
- F. Operating speed.
- G. Frequency of use.
- H. Special features (e.g., running tracks, overhang loads, etc.).

The Purchaser shall be responsible for repair of any damage to roads or structures caused by the use of overweight or over-dimension vehicles or equipment: (1) without written approval; (2) in violation of the conditions of a written approval; or, (3) in a negligent manner.

The amount of actual damage shall be determined by the Authorized Officer following a technical inspection and evaluation.

- (17) R-5: 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.

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

(C) ENVIRONMENTAL PROTECTION

- (1) E-1 In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:
- (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging, construction, chipping, grinding, shredding, rock crushing, and transportation equipment prior to entry on BLM lands.
  - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.

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- (c) Only equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of equipment as described above shall be treated the same as the initial move-in.
  - (d) Prior to initial move-in of any equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.
  - (e) Equipment would be visually inspected by the Authorized Officer to verify that the equipment has been reasonably cleaned.
- (2) E-1 In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall;
- (a) Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which is attached hereto and made a part hereof.
  - (b) Rip to a depth of eighteen (18) inches or bedrock (whichever is shallower).
  - (c) Ripping will not occur unless soil moisture content is twenty-five (25) percent or less (at a six (6) inch depth) as determined by the oven-dry method.
  - (d) Rip all temporary roads, and associated landings, as shown on Exhibit A. Temporary roads and associated landings shall be ripped in the same season of use. If hauling on a temporary route or its associated landings is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.
  - (e) Where the width of the trail permits, and no damage to residual trees would occur, skid trails within regeneration harvest units as shown on Exhibit A of this contract would be discontinuously subsoiled to a depth of at least 12 to 18 inches, to a point where stones 10 inches or larger diameter are the dominant substrate, or to bedrock (whichever is shallower). Where the Authorized Officer determines that subsoiling skid trails would cause unacceptable damage to the root systems of residual trees along a majority of the skid trail, such as where new skid trails are constructed within the dripline of leave trees, subsoiling may be intermittent, or scarification may be used instead. Equipment must be able to avoid rocky areas and adapt to changes in rock depth.
  - (f) Seed and mulch all temporary roads, and all landings, including fill slopes, in all units as shown on Exhibit A by October 15 in the same year constructed. If hauling on a temporary route or its associated landings is not completed in

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the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.

(g) Seed and mulch all pre-designated skid trails and designated skid trails used for logging activities in all ground based units as shown on Exhibit A, as determined by the Authorized Officer. Apply native, site-specific seed approved by the resource area botanist and weed-free straw by October 15 of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season. If a waiver is in place, seed and mulching shall be completed prior to the fall rains and as directed by the Authorized Officer.

(h) Seed and mulch the top 20 feet of all skyline yarding corridors in all skyline units as shown on Exhibit A where yarding logs to the road has resulted in extended soil surface exposure by October 15 in the same season of use.

Ensure hay, straw, and mulch are certified as free of prohibited noxious vegetative parts or seeds, per 75 FR 159:51102. Straw or hay must be obtained from the BLM or purchased from growers certified by Oregon Department of Agriculture's Weed Free Forage and Mulch Program. If hay is used, it must be from native grasses only.

The seed mix and straw shall be provided by the purchaser from an approved commercial source, or may be provided by the BLM if the purchaser is unable to locate and buy the certified seed and straw. The purchaser shall reimburse the government for the cost of seed and straw if provided by the government. The Purchaser shall furnish and apply to acres designated for treatment as directed by the Authorized Officer, a mixture of grass seed and mulch material at the following rate of application:

Grass seed	20 lbs./acre
Straw mulch	1000 lbs./acre (approx. 2 inches in depth)

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

<u>Species</u>	<u>Germination</u>	<u>Purity</u>	<u>Weed Content</u>
	<u>Min. %</u>	<u>Min. %</u>	<u>Max. %</u>
California Brome	85	95	0.2
Blue Wild Rye	85	95	0.2

The grass seed furnished shall meet the minimum requirement for Blue Tag Seed as set forth in the latest edition of Oregon Certification Standards published by Oregon State University. Seed source shall be approved by the Authorized Officer and shall be from the general region where the project occurs. Straw mulch shall be from native grass or other approved grain crops which are certified weed free, and free of mold or other objectionable

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materials. Straw mulch shall be in an air-dry condition and suitable for placing in a uniform manner.

The Purchaser shall mix grass seed in the following proportions:

<u>Species</u>	<u>Total by Wt.</u>	<u>Lbs. per Acre</u>
California Brome	50%	10
Blue Wild Rye	50%	10
TOTALS	100%	20 lbs./ac.

The Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (i.e. Oregon State University), which shall include: date of test; lot number of each kind of seed; seed source; and results of tests as to name, percentages of purity and of germination, weed species and percentage of weed content, for each kind of seed furnished and, in case of mixture, the proportions of each kind of seed. The seed must have been tested within the last year to be accepted for use on this contract. The seed and straw mulch shall be applied between August 1 and October 15. The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date he intends to commence the specified soil stabilization work.

- (3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser would be required to be in compliance with OAR 629-605-0130 of the Forest Practices Act. Notification, removal, transport, and disposal of oil, hazardous substances, and hazardous wastes would be accomplished in accordance with OAR 340-142 (OARD, 2018), and the operator will have a Spill Prevention, Control and Countermeasure Plan (SPCC) in place. The Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (4) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not refuel equipment, store, or cause to have stored, any fuel or other petroleum products within one hundred fifty (150) feet of all riparian management or wet areas. All Petroleum products shall be stored in durable containers and located so that any accidental releases will be contained and not drain into any stream system. Hydraulic fluid and fuel lines on heavy mechanized equipment would be in proper working condition in order to minimize potential for leakage into streams. Absorbent materials shall be onsite to allow for immediate containment of any accidental spills. Spilled fuel and oil shall be cleaned up and disposed of at an approved disposal site.



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- (5) E-1 In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall refuel small equipment (e.g. chainsaws and water pumps) at least 100 feet from waterbodies (or as far as practicable from the waterbody where local site conditions do not allow a 100-foot setback) to prevent direct delivery of contaminants into a waterbody. Refuel small equipment from no more than 5-gallon containers. Use absorbent material or a containment system to prevent spills when re-fueling small equipment within the stream margins or near the edge of waterbodies. Store equipment containing reportable quantities of toxic fluids outside of Riparian Reserve.
- (6) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not locate new cable corridors, skid trails, or landings in areas that contribute eroded fines to streams, wet areas, dry draws and swales. If these locations cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.
- (7) E-1 In addition to the requirement set forth in Sec. 26 of this contract, harden low-water ford approaches with durable material. Provide cross drainages on approaches.
- (8) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not resume hauling on natural surface or rock roads with insufficient rock depth for 48 hours following any storm event that results in ½ inch or more precipitation within a 24 hour period and until road surface is sufficiently dry to prevent sediment transport to nearby streams.
- (9) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall ensure that silt fencing or other sediment control measures are properly placed and maintained during use and periods of non-use when utilizing haul roads, landings, skid tails, or temp routes that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines. Any project-related activity would be suspended if conditions develop that cause a potential for sediment laden runoff to enter a wetland, floodplain or waters of the state. Operations can resume when sediment control devices are in place and conditions allow turbidity standards to be met. Maintain protective features by removing accumulated sediment and placing sediment in stable location where it cannot enter the aquatic system.
- (10) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, prior to October 15 of the same operating season, winterize temporary routes, landings, hydrologically connected corridors, skid trails and other areas of exposed soils by properly installing and/or using water bars, berms, sediment basins, gravel pads, hay bales, small dense woody debris, seeding and/or mulching, to reduce sediment runoff and divert runoff water away from stream channels, headwalls,

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slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer. Water bar spacing on skid trails and temporary routes shall be constructed using the guidelines below:

<b>Gradient (Percent)</b>	<b>Water Bar Spacing*</b>
	<b>High Erosion Risk (Feet)</b>
2-5%	200
6-10%	150
11-15%	100
16-20%	75
21+%	50

*\* Spacing is determined by slope distance and is the maximum allowed for the grade.*

- (11) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall place material removed during excavation in locations where it cannot enter streams or other water bodies.
- (12) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, place woody debris or other appropriate barriers (e.g., rocks, logs, and slash) on the first 100 feet of skid trails leading off system roads in all ground-based yarding units upon completion of yarding to block and discourage unauthorized vehicle use.
- (13) E-1 In addition to the requirement set forth in Sec. 26 of this contract, place residual slash and/or mulch on severely burned areas, where there is potential for sediment delivery into waterbodies, floodplains and wetlands (Units 17-1a, 17-1b, and 19-1a).
- (14) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall construct road barricades as specified on Exhibit C, at locations where an existing barricade has been removed to provide for harvest access. Barricades shall be in place by October 15 of each calendar year.
- (15) E-1 In addition to the requirements set forth in Sec. 26 of this contract, if damage to range improvements does occur, notify the BLM immediately and properly repair or replace structures within 2 weeks. Proper repair of fences and gates includes keeping wire properly attached to posts, splicing or replacing broken wire in kind, repairing structures such as corners, stress panels or gates, and any other work necessary to keep improvements functional. Repair of structures such as stress or corner panels and gates requires pre-approval by BLM staff. Approval is required from BLM road engineering staff to repair or clean cattle guards damaged or filled with sediment by logging activities for structural integrity and public safety compliance.

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- (16) E-1 In addition to the requirements set forth in Sec. 26 of this contract, during logging activities, keep all gates closed and all livestock containment systems functional to keep livestock in authorized areas.
- (17) E-2 The water bars to be constructed as required by Sec. 26 shall be constructed in accordance with the specifications shown on Exhibit D-5 which is attached hereto and made a part hereof.
- (18) E-3 The Purchaser shall immediately discontinue specified construction or harvesting operations upon written notice from the Contracting Officer that:
  - (a) 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;
  - (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
  - (c) 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;
  - (d) 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;
  - (e) 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;
  - (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
    - 1. species have been discovered which were identified for protection through protection buffer standards and guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
    - 2. when, in order to protect species which were identified for protection through protection buffer standards and guidelines

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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 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 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 15 days after the bill for collection is issued, subject to Section 3.j. 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 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.

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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, 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, 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 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.

- (19) E-5 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Authorized Officer that a spotted owl has been located in the sale area. Discontinued operations may be

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resumed upon receipt of written instructions and authorizations by the Authorized Officer.

- (20) E-6 The Purchaser shall notify the Authorized Officer in writing by February 1 of each calendar year in which operations are expected to take place on the contract area between March 1 and September 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting owls may not be allowed during this time period.

Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government will conduct surveys to determine whether spotted owls are nesting within 0.25 miles of logging operations. If it is determined that spotted owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations in writing. Without this written approval, such operations are prohibited from March 1 through September 30 of each year.

(D) MISCELLANEOUS PROVISIONS

- (1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by three thousand six hundred thirty three and no/100 (\$3,633.00) dollars. In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of three thousand six hundred thirty three and no/100 (\$3,633.00) dollars which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent

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scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

- (2) M-4 Notwithstanding the provisions of Section 5(c), when the Purchaser elects to furnish and operate under a payment bond as provided in Section 39(d), the value of right-of-way timber included in a billing shall be based on the value of timber removed from the right-of-way.
- (3) M-5 The Purchaser shall, without expense to the Government, be responsible for obtaining any necessary licenses and permits and for complying with any and all Federal, State, County, and municipal laws, codes, regulations, and administrative rules applicable to the performance of this contract. The Purchaser shall also be responsible for all damages to persons or property that arise out of any operations under this contract and result from any breach of contract or wrongful or negligent act or omission of the Purchaser, its contractors, subcontractors, or employees of any of them.

(E) FIRE PREVENTION

- (1) F-1 Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.
- (2) F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
  - (a) At least three (3) days prior to the operation of power-driven equipment during any operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer and the State of Oregon Department of Forestry.
  - (b) Provide and maintain on the contract area in good working order, and immediately available, the following equipment for use during closed fire season or periods of fire danger:
    - 1. F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever employees are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered

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on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

2. F-2b A round pointed size zero (0) or larger shovel in good condition, shall be within fifty (50) feet of any power saw when in operation.
3. F-2c At each landing or such other place as the Authorized Officer shall designate during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with a minimum of five hundred (500) feet of 1½ inch hose (must be adequate length to reach 200 feet beyond active work sites), six (6) 1½ inch wyes, six (6) 1½ inch to 1 inch reducers, three (3) 1½ inch nozzles and three (3) 1 inch nozzles. One (1) three hundred (300) gallon fire engine may be substituted for each required 300 gallon tank truck, provided that the total capability to pump and deliver water remains unchanged. Each fire engine / tank truck shall be equipped with a pump capable of delivering a minimum of forty (40) gallons per minute (gpm) water flow at one hundred fifty (150) pounds per square inch (psi) engine pressure through fifty (50) feet of 1½ inch fire hose. The pump may be either power take off driven or truck-mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters. At the close of each working day, all bulldozers and fire/tank trucks shall be filled with fuel and made ready for immediate use. All fire/tank trucks shall be filled with water and made available for immediate use.
4. F-2d Serviceable cell phone or radio equipment able to provide prompt and reliable communication between the contract area, Medford BLM District Office, and Oregon Department of Forestry.



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Such communication shall be available during periods of operation including the time watchman service is required.

5. F-2e A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire lines at night.
  6. F-2f A headlamp for each employee in the woods crew adequate to provide sufficient illumination for night firefighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. At least one extra set of batteries shall be provided for each such headlight.
  7. F-2g Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
  8. F-2h A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Authorized Officer and a size 0 or larger shovel shall be carried during the closed fire season or periods of fire danger by each falling crew and each buckner using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Authorized Officer.
- (c) F-5 Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.
- (3) F-8 Blasting caps and fuses shall not be used during closed fire season or any period of fire danger on any land administered by the Government. Blasting with electric detonators during the closed fire season or periods of fire danger is permitted only between the hours of 4:00 a.m. and 10:00 a.m.

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- (4) F-9 During Oregon Department of Forestry regulated use closure, no smoking shall be permitted outside of closed vehicles.

(F) SLASH DISPOSAL

- (1) SD-1 Fire Hazard Reduction. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's 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 measures required by this contract:

Prior to commencement of any operation under this section of the contract, a slash disposal and site preparation pre-work conference between the purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All slash disposal and site preparation 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, including material cut during slashing activities for the purposes of fuels reduction.

Refueling of chainsaws and other equipment will be done no closer than one hundred fifty (150) feet of any stream or wet area. Spilled fuel and oil would be cleaned-up and would be disposed of at an approved disposal site.

- (a) SD-1f LOP AND SCATTER Lop and scatter all slash in all the harvest units as shown on Exhibit A. All top and side branches must be free of the central stem so that such stem is reduced to the extent that it is within eighteen (18) inches of the ground at all points. Slash includes all woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract. Lop and scatter shall be completed as directed by the Authorized Officer.

1. All slash shall be arranged in a discontinuous pattern across the forest floor.
2. All slash shall be loped to no more than eight (8) feet in length.

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- (b) SD-1h HANDPILE Handpile all slash as directed by the Authorized Officer in accordance with the following specifications:
1. Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.
  2. Pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds three (3) feet in length.
  3. A six (6) foot by six (6) foot sheet of four (4) mil polyethylene black plastic shall be placed in each pile in a manner such that approximately one-third ( $\frac{1}{3}$ ) of the pile lies above it to hold it in place and so that a two (2) foot by two (2) foot dry ignition point is maintained for one (1) year or until burned. The ignition point will consist of fine fuel material such as needles, small limbs, and branches less than one-half ( $\frac{1}{2}$ ) inch in diameter and free of dirt. Piles shall be constructed by aligning individual pieces in the same direction and placing the heavier slash on top. Piles shall have a stable base to prevent toppling. The long axis of individual pieces shall be oriented up and down the slope. Protruding pieces shall be trimmed to allow covering in a manner that permits the pile to shed water. Height shall be no less than four (4) feet and no greater than six (6) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located within sixty (60) feet of fish-bearing, perennial streams or within thirty five (35) feet from non-fish-bearing, intermittent streams. Piles shall not be located on down logs, stumps, talus slopes, roadways, or drainage ditches. No pile shall be located within ten (10) feet of reserve trees, any other pile, or unit boundary. No pile shall be located within twenty five (25) feet of designated wildlife trees. No portion of the pile will be under the crown of any living conifer tree.
  4. Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:
    - a. Units shall be piled and covered during the same season that they are logged. Piling shall be completed in each unit or portion thereof, within eight (8) weeks after being notified of BLM site treatment determination.
- (c) SD-4a SLASHING DAMAGED RESIDUALS. Slash all sprung or otherwise severely damaged trees greater than one (1) inch and less than six (6) inches D.B.H.O.B. concurrently with logging as designated by the

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Authorized Officer. All slashing is to be completed prior to any required piling of slash.

- (d) SD-1i LANDINGS Within twenty (20) feet of the edge of each landing pile, all tops, broken pieces, limbs and debris more than one (1) inch in diameter at the large end and longer than two (2) feet in length shall be piled within fourteen (14) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located off of the driving surface of roads and at least fifteen feet (15) 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 constructing a fireline by hand or machine approximately eighteen (18) inches wide and down to mineral soil around each pile to prevent escaped fire. Landing piles shall be less than sixteen (16) feet in height and width. Cover piles with large enough piece of four (4) millimeter thick black plastic to ensure a dry ignition spot, generally ten (10) foot by ten (10) foot. 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. 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.

1. Cull material greater than 12” in diameter at the small end shall be yarded back into the unit.
- (2) SD-5 The Purchaser shall perform logging residue reduction and site preparation work on approximately one hundred seventy (170) acres of harvest area located in Harvest Units as shown on Exhibit A.
- (a) The required work shall consist of any treatment or combination of treatments listed in the table below, 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.

Treatment	Cost/Acre
Lop and Scatter L2	\$48.00
Hand Pile and Cover	\$580.00

- (b) The following treatments were assumed for appraisal purposes on this contract:

**MILES SALVAGE TIMBER SALE**  
**SPECIAL PROVISIONS**

Appraised Treatment	Acres	Cost/Acre	Total Cost Per Treatment
Lop and Scatter L2	150	\$48.00	\$7,200.00
Hand Pile and Cover	20	\$580.00	\$11,600.00
<b>Total Appraised Cost</b>	170		<b>\$18,800.00</b>

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to Section 42(F)(2)(SD-5)(a) differs from eighteen thousand eight hundred and no/100 (\$18,800.00) dollars, as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(F)(2)(SD-5)(b).
- (d) Lop and Scatter shall be done in accordance with Section 42(F)(1)(a)(SD-1f), Hand Pile Cover shall be done in accordance with Section 42(F)(1)(b)(SD-1h).

In case of injury to personnel or damage to equipment furnished by the Purchaser 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 costs 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 deferral of burning and new conditions necessitate additional site preparation work and/or use of additional personnel and equipment to accomplish planned burning, the Purchaser also shall be responsible for such additional costs.

(G) **LOG EXPORTS**

- (1) LE-1 All timber sold to the Purchaser under the terms of the contract, except exempted species, 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. 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

MILES SALVAGE TIMBER SALE  
SPECIAL PROVISIONS

and three-quarters (8¾) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar 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 timber, 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 (8¾) 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:

- (a) Date of last export sale.
- (b) Volume of timber contained in last export sale.
- (c) Volume of timber exported in the past twelve (12) months from the date of last export sale.
- (d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.
- (e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.
- (f) 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 Form 5460-16 (Certificate as to Nonsubstitution and the 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

MILES SALVAGE TIMBER SALE  
SPECIAL PROVISIONS

this contract, the Purchaser shall, upon request, obtain from the affiliate information in a 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 Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over 10 inches, prior to the removal of timber from the contract area. All loads of 11 logs or more will have a minimum of 10 logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of 10 logs or less. One end of all branded logs to be processed domestically will be marked with a 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.

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 Section 10 of this contract. In addition, the Purchaser may be declared ineligible to receive future awards of Government timber for a period of one year.





# Seasonal Restriction Matrix

Miles Salvage Timber Sale

ORM05-TS19-12

Restricted Times are Shaded

Crosshatched areas may be available for a waiver by contracting officer, see contract for guidelines.



Sale Unit	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
Activity	1																							
Felling and Bucking																								
Helicopter Operations																								
Hauling																								
5-1																								
*																								
5-2																								
*																								
7-1																								
7-2a																								
RS7																								
7-4a																								
7-4b																								
7-5																								
7-6																								
7-7																								
RS8a																								
*																								

Natural Surface Hauling restricted to May 15th -October 15th

Hauling on roads with adequate surfacing allowed dependant on road conditions and runoff.

\* ODFW in-water work period

Winter logging in the wet season may be permissible with waiver upon review of moisture conditions.

# Seasonal Restriction Matrix

Miles Salvage Timber Sale

ORM05-TS19-12

Restricted Times are Shaded

Crosshatched areas may be available for a waiver by contracting officer, see contract for guidelines.

Sale Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Activity	1	15	1	15	1	15	1	15	1	15	1	15
RS8b												
Felling and bucking												
Cable Operations												
*												
Hauling												
8-1												
Felling and bucking												
Helicopter Operations												
*												
Hauling												
8-2												
Felling and bucking												
Helicopter Operations												
*												
Hauling												
8-4												
Felling and bucking												
Helicopter Operations												
Hauling												
8-5												
Felling and bucking												
Helicopter Operations												
%												
Hauling												
8-6												
Felling and bucking												
Skyline Operations												
Hauling												
9-1a												
Felling and bucking												
Tractor Operations												
Hauling												
9-1b												
Felling and bucking												
Helicopter Operations												
Hauling												
9-2a												
Felling and bucking												
Yarder Operations												
Hauling												
9-2b												
Felling and bucking												
Helicopter Operations												
Hauling												

Natural Surface Hauling restricted to May 15th -October 15th

Hauling on roads with adequate surfacing allowed dependant on road conditions and runoff.

\* ODF In-Water Work Period

Winter logging in the wet season may be permissible with waiver upon review of moisture conditions.

# Seasonal Restriction Matrix

Miles Salvage Timber Sale

ORM05-TS19-12

Restricted Times are Shaded

Crosshatched areas may be available for a waiver by contracting officer, see contract for guidelines.

Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
9-3	Felling and bucking																								
**	Skyline Operations																								
	Hauling																								
RS9	Felling and Bucking																								
	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS15a	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS15c	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS17a	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS17b	Cable Operations																								
	Hauling																								
	Felling and bucking																								
17-1a	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
17-1b	Skyline Operations*																								
	Hauling																								

Natural Surface Hauling restricted to May 15th -October 15th

Hauling on roads with adequate surfacing allowed dependant on road conditions and runoff.

\* Construction of Temp Spur Restricted \*\* ODF in-water work period

Winter logging in the wet season may be permissible with waiver upon review of moisture conditions.

# Seasonal Restriction Matrix

Miles Salvage Timber Sale

ORM05-TS19-12

Restricted Times are Shaded

Crosshatched areas may be available for a waiver by contracting officer, see contract for guidelines.



Sale Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Activity	1	15	1	15	1	15	1	15	1	15	1	15
Felling and bucking												
Helicopter Operations												
Hauling												
Felling and bucking												
Tractor Operations												
Hauling												
Felling and bucking												
Skyline Operations												
Hauling												
Felling and bucking												
Helicopter Operations												
Hauling												

Natural Surface Hauling restricted to May 15th -October 15th

Hauling on roads with adequate surfacing allowed dependant on road conditions and runoff.

\* Most restrictive hauling season is shown - portions of units may be accessed by rocked roads  
Winter logging in the wet season may be permissible with waiver upon review of moisture conditons.

# Seasonal Restriction Matrix

Miles Salvage Timber Sale  
ORM05-TS19-12

Restricted Times are Shaded  
Crosshatched areas may be available for a waiver by contracting officer, see contract for guidelines.

Sale Unit	Activity	Jan 1	Jan 15	Feb 1	Feb 15	Mar 1	Mar 15	Apr 1	Apr 15	May 1	May 15	June 1	June 15	July 1	July 15	Aug 1	Aug 15	Sept 1	Sept 15	Oct 1	Oct 15	Nov 1	Nov 15	Dec 1	Dec 15
27-2	Felling and bucking																								
	Helicopter Operations																								
	Hauling																								
27-3	Felling and Bucking																								
	Tractor Operations																								
	Hauling																								
RS29a	Felling and bucking																								
	Cable Operations																								
	Hauling																								
RS29b	Felling and bucking																								
	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS35a	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS35b	Cable Operations																								
	Hauling																								
	Felling and bucking																								
35-1	Skyline Operations																								
	Hauling																								
	Felling and bucking																								
35-2	Skyline Operations																								
	Hauling																								
	Felling and bucking																								
RS12a	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS12b	Cable Operations																								
	Hauling																								
	Felling and bucking																								
RS12c	Cable Operations																								
	Hauling																								

Natural Surface Hauling restricted to May 15th -October 15th  
Hauling on roads with adequate surfacing allowed dependant on road conditions and runoff.

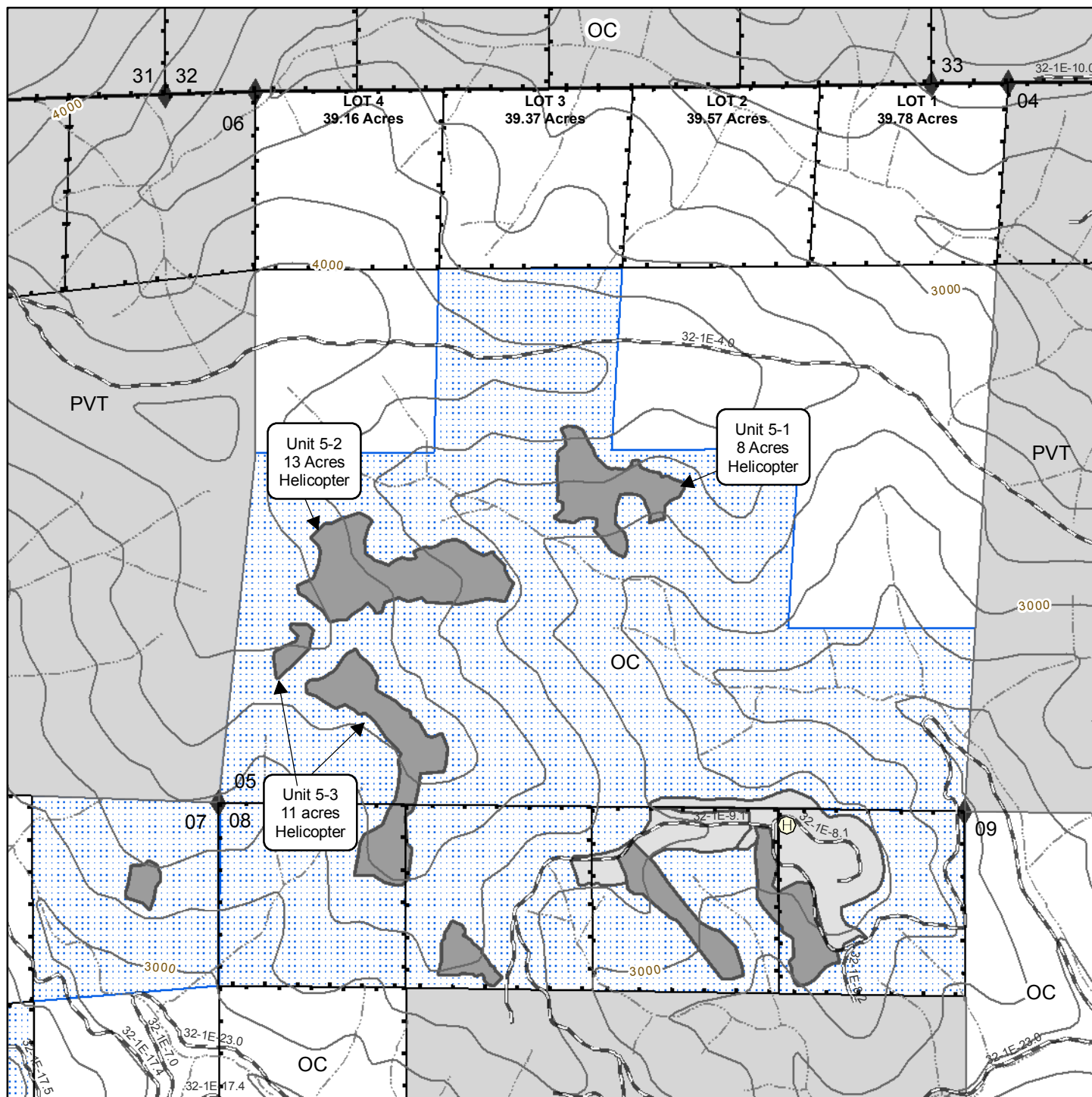
\* Most restrictive hauling season is shown - portions of units may be accessed by rocky roads  
Winter logging in the wet season may be permissible with waiver upon review of moisture conditions.

**Miles Salvage Timber Sale**  
**ORM05-TS19-12**

**Restricted Times are Shaded**  
**Crosshatched areas may be a**

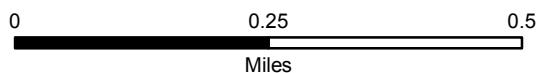
Natural Surface Hauling restricted to May 15th -October 15th  
Hauling on roads with adequate surfacing allowed dependant

\* Most restrictive hauling season is shown - portions of units may be accessed by rock roads



Medford District BLM  
February 2019

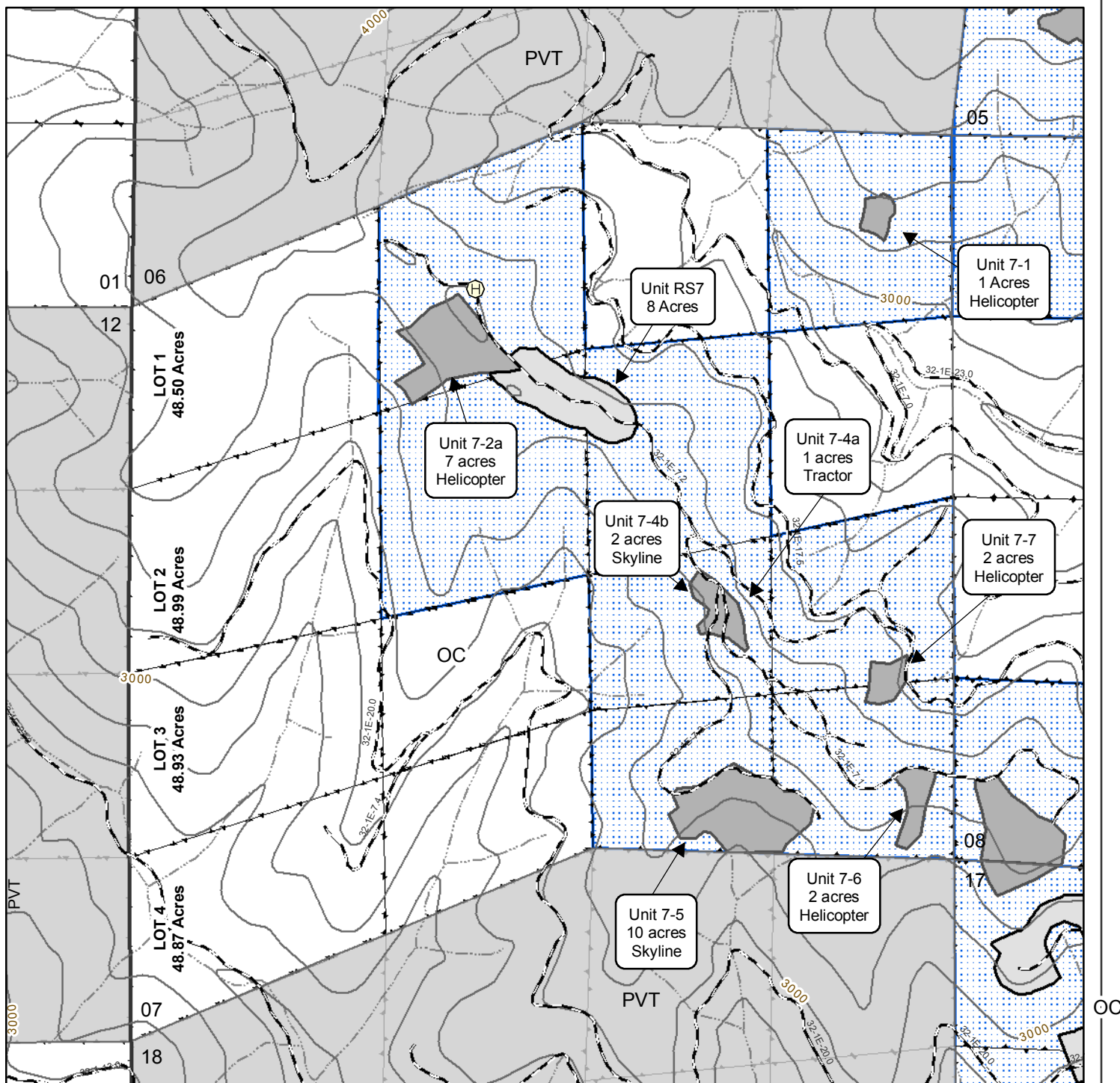
1 inch = 1,000 feet  
Contours = 100 feet



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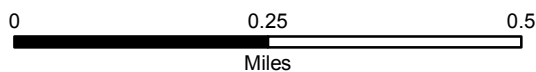






Medford District BLM  
February 2019

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Contours = 100 feet



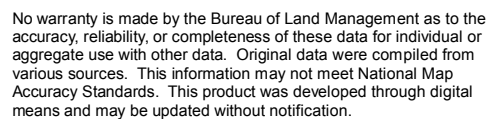
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TIMBER SALE CONTRACT MAP  
CONTRACT NO.ORM05-TS-2019-0012  
PAGE 3 OF 15



Contours = 100 feet

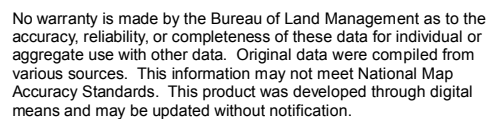




TIMBER SALE CONTRACT MAP  
CONTRACT NO.ORM05-TS-2019-0012  
PAGE 4 OF 15



Contours = 100 feet



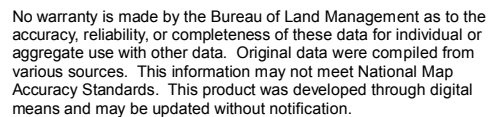




TIMBER SALE CONTRACT MAP  
CONTRACT NO.ORM05-TS-2019-0012  
PAGE 5 OF 15

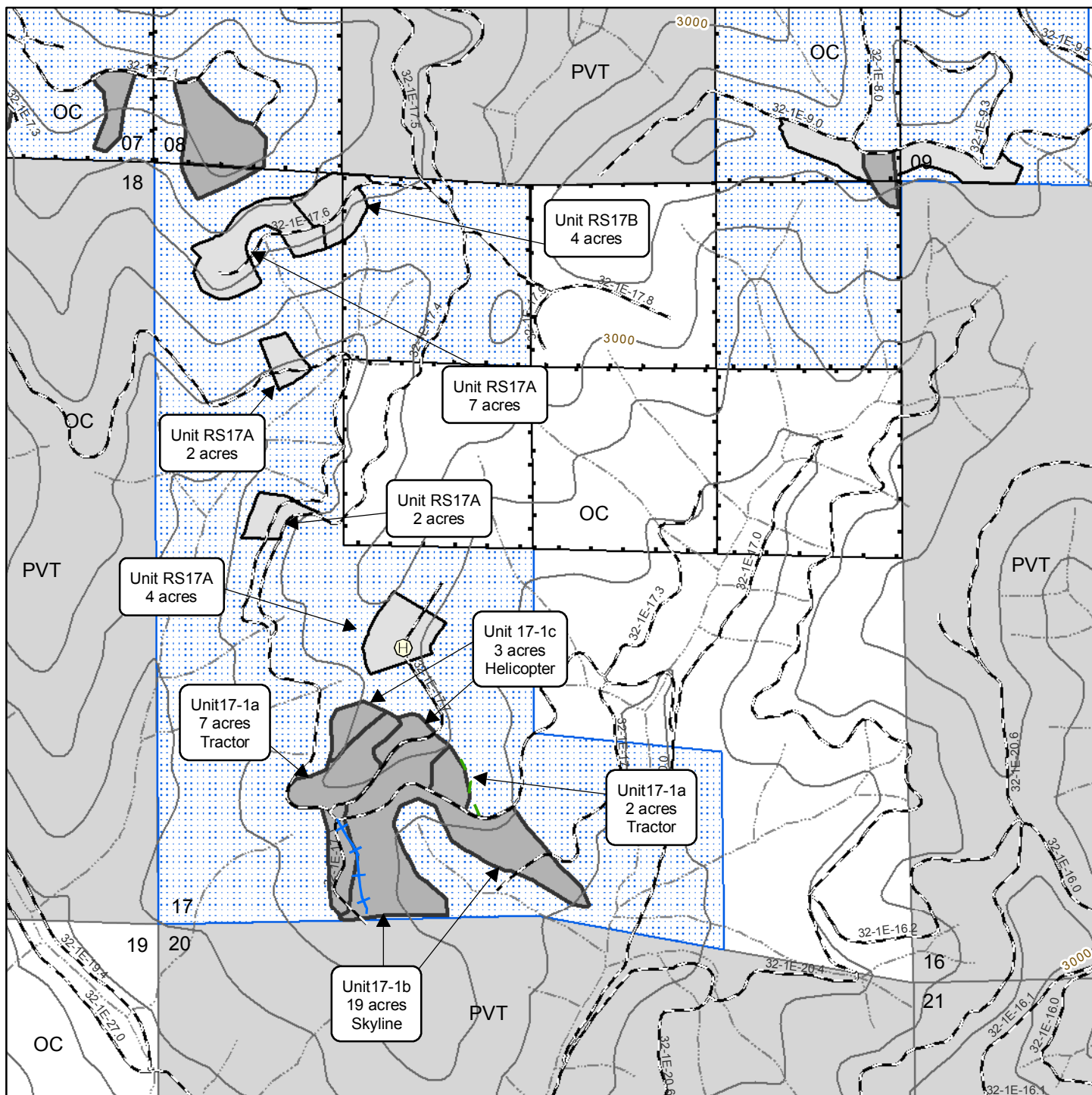


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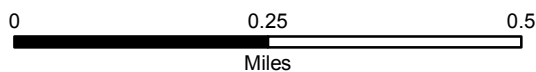






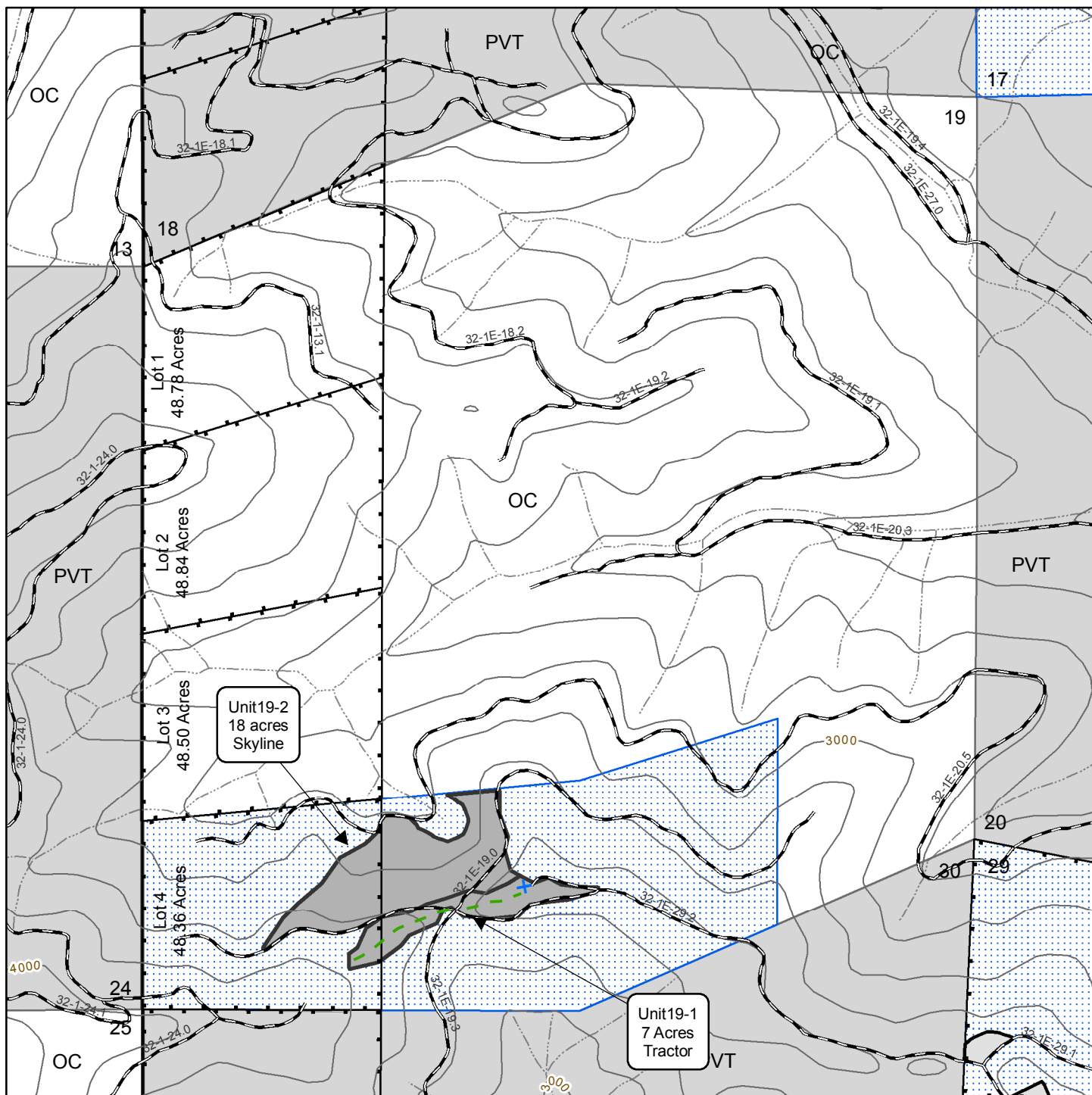
**Medford District BLM**  
**February 2019**

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Contours = 100 feet



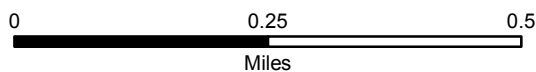
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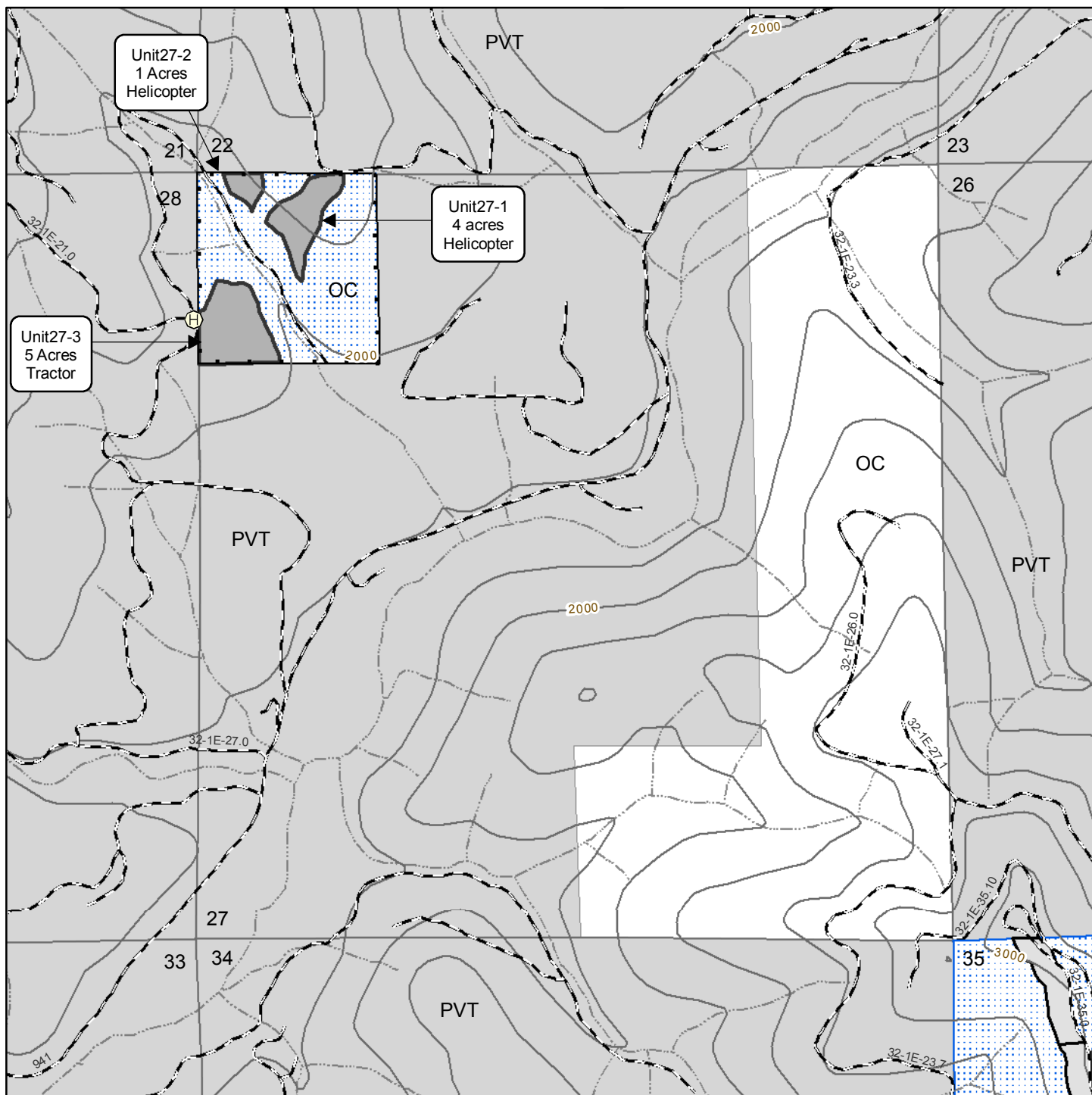
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**February 2019**

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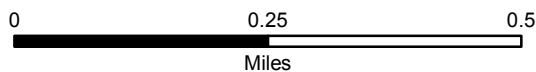




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**February 2019**

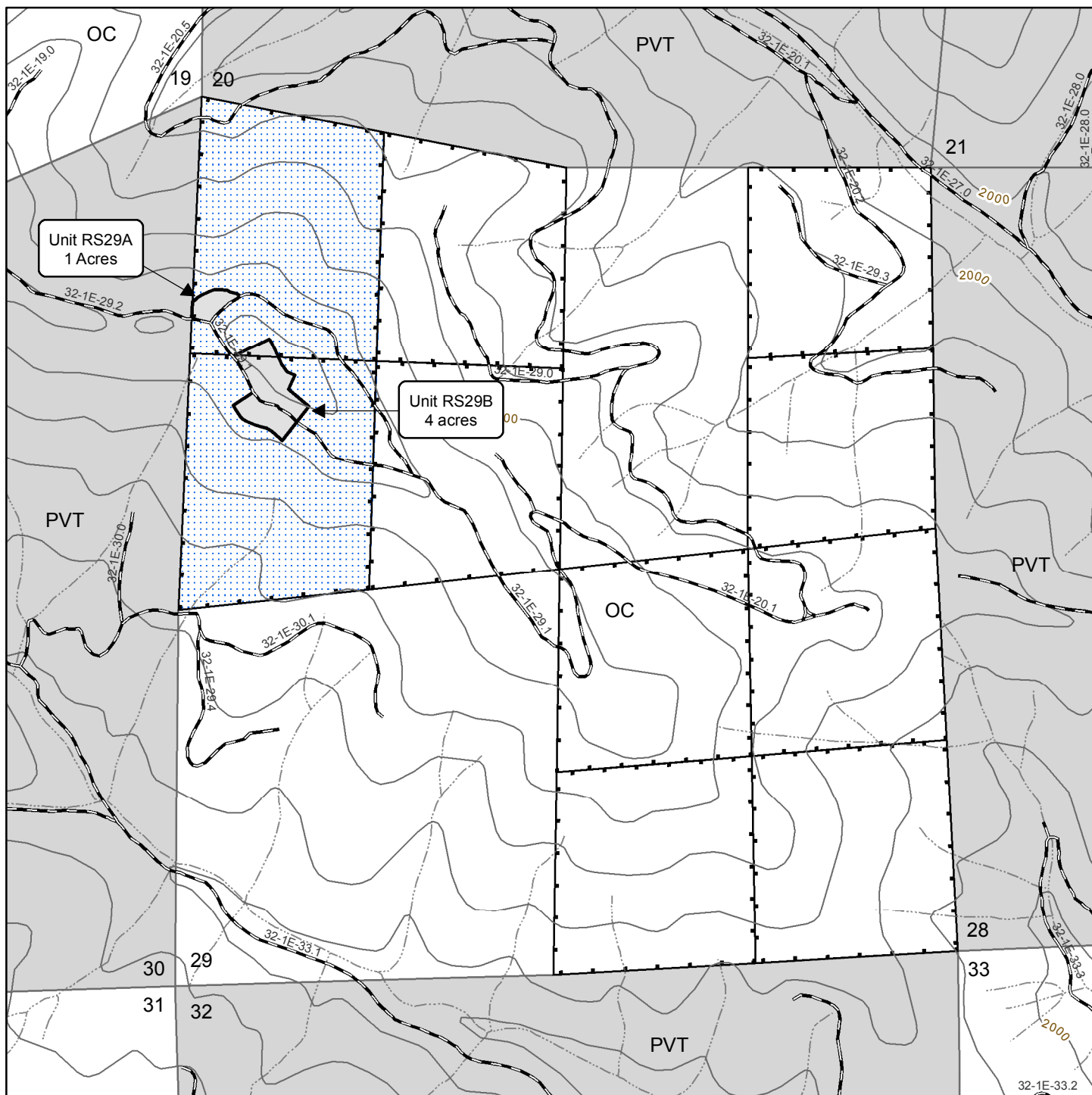
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Contours = 100 feet



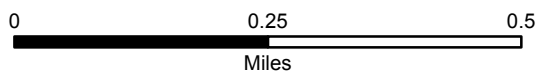
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**Medford District BLM**  
**February 2019**

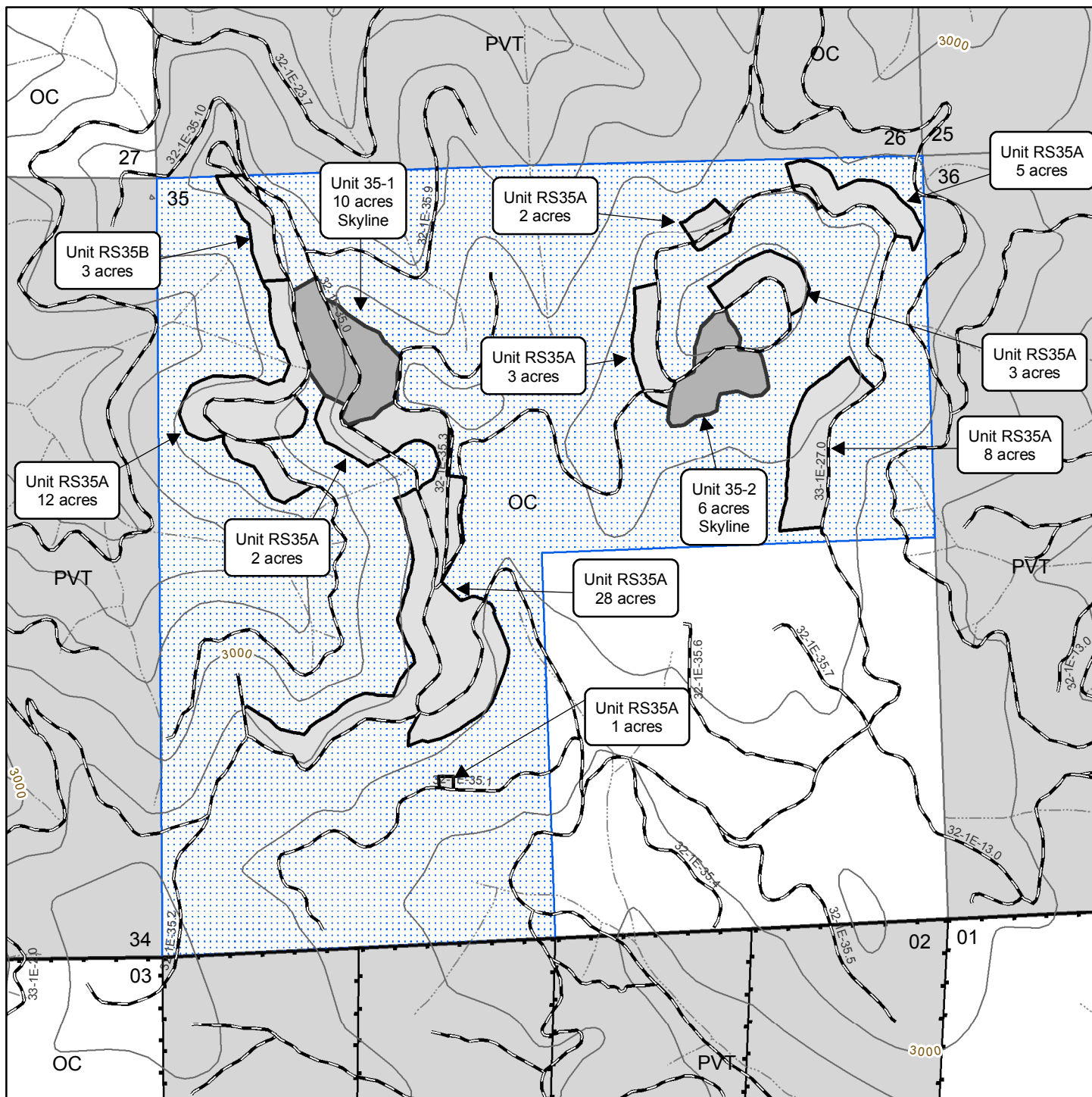
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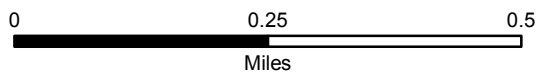






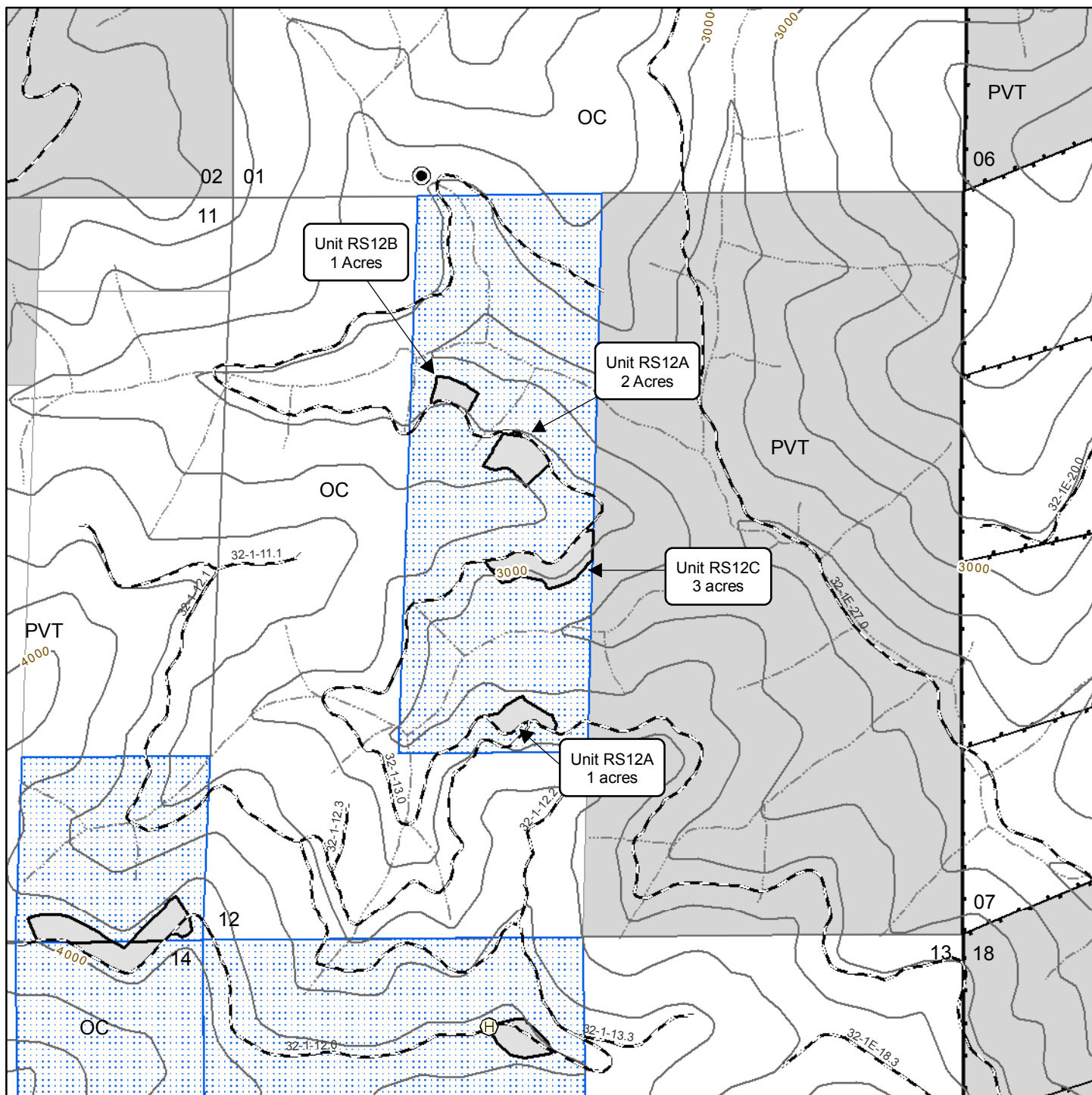
Medford District BLM  
February 2019

1 inch = 1,000 feet  
Contours = 100 feet



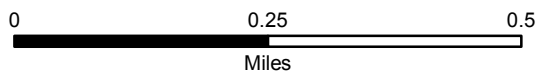
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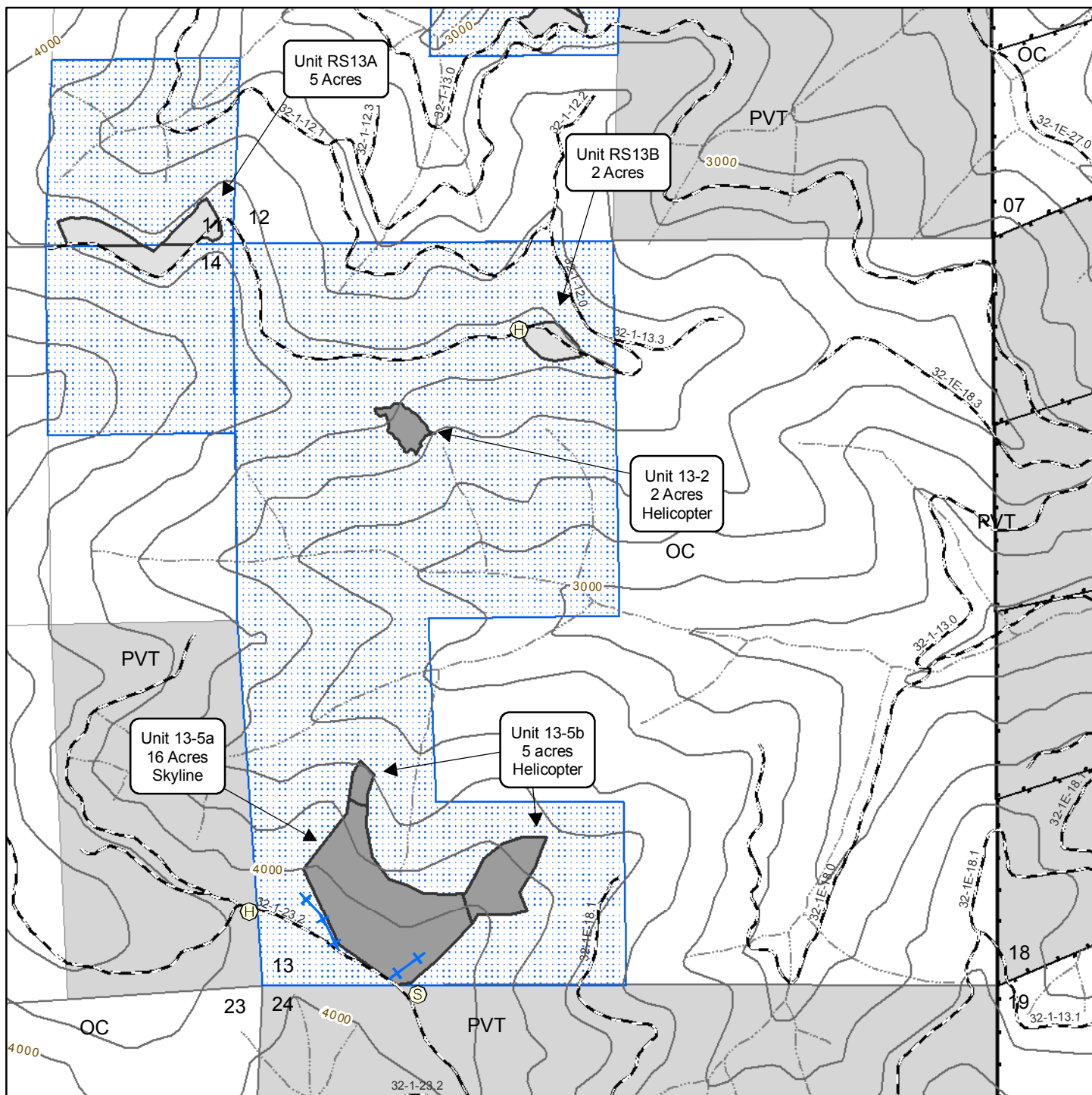
Medford District BLM  
February 2019

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Contours = 100 feet



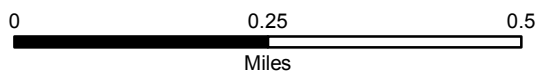
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**Medford District BLM**  
**February 2019**








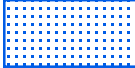







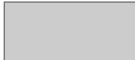
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Contours = 100 feet



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## Legend

	Gate - Existing		Pre-Designated Skid
	Barricade - Existing		Permanent Road Construction
	Fire Water Sources		Temporary Road Construction
	Log		Contract Area
	Service		Boundary of Cutting Area
	Spring		Boundary of Roadside Salvage Area
	Stream		BLM
	Existing Road		Non-BLM



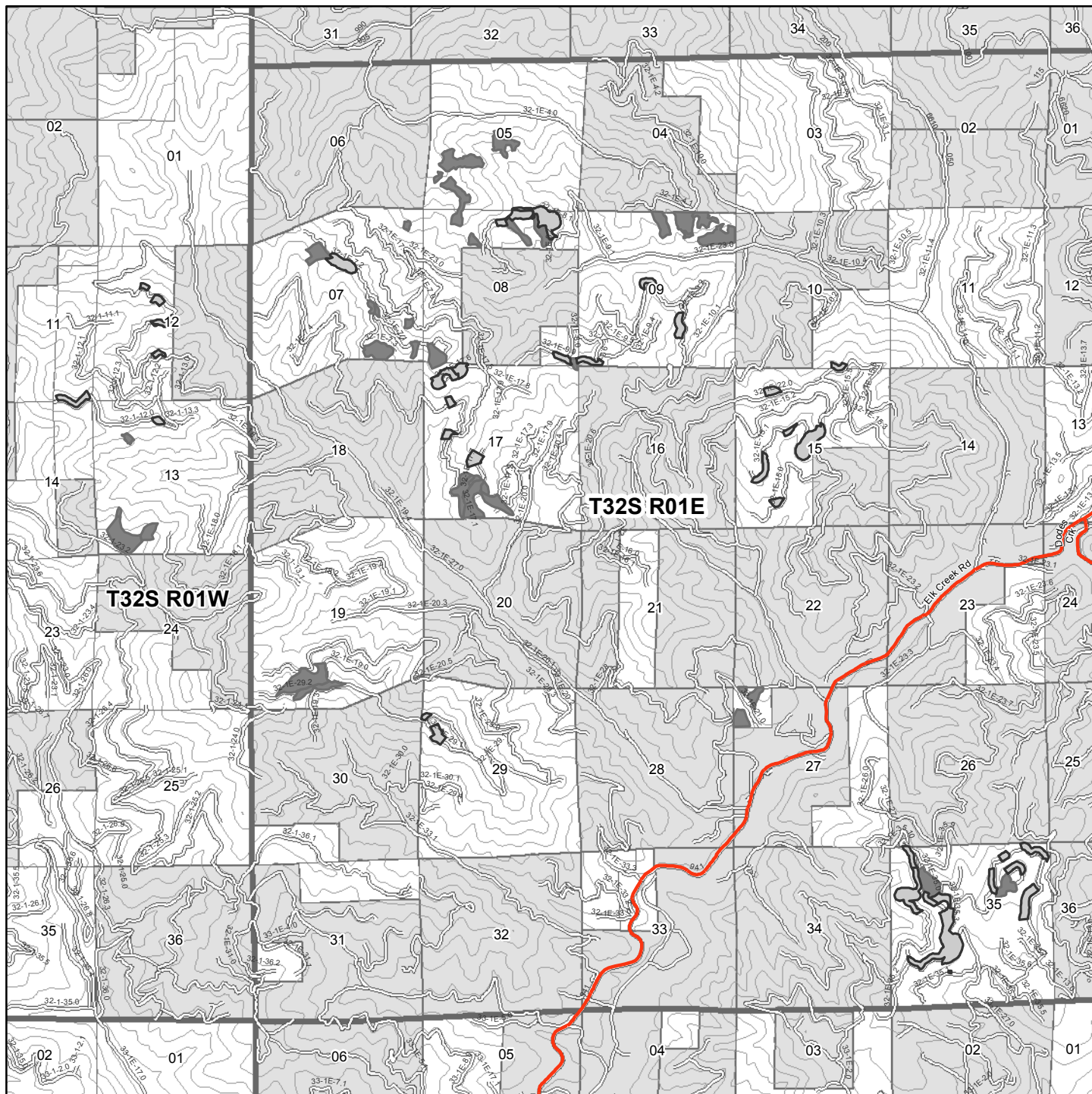


U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 2019-0012  
T. 32s. R. 01E., SEC 05, 07, 08, 09, 10, 15, 17, 19, 27, 29, 35 WILL. MER.  
T. 32S. R. 01W., SEC 11, 12, 13, 14 WILL. MER.  
MILES SALVAGE TIMBER SALE





TIMBER SALE CONTRACT MAP  
CONTRACT NO. ORM05-TS-2019-0012  
PAGE 14 OF 15

Section	Unit Number	Roadside Salvage Acres	Project Unit Acres	Reserve Acres	Contract Acres
5	5-1, 5-2, 5-3	0	32	288	320
7	7-1, 7-2a, 7-4a, 7-4b, 7-5, 7-6, 7-7, RS7	8	25	336	368.6
8	8-1, 8-2, 8-4, 8-5, 8-6, RS8A, RS8B, RS9	23	21	196	240
9	9-1a, 9-1b, 9-2a, 9-2b, 9-3	11	32	277	320
10	RS15C	2	0	38	40
11	RS13A	3	0	37	40
12	RS12A, RS12B, RS12C	7	0	113	120
13	13-2, 13-5a, 13-5b, RS13B	2	23	256	280
14	RS13A	2	0	38	40
15	RS15A	25	0	335	360
17	17-1a, 17-1b, 17-1c, RS17A, RS17B	19	31	310	360
19	19-1, 19-2	0	25	104	128.36
27	27-1, 27-2, 27-3	0	10	30	40
29	RS29A, RS29B	5	0	75	80
35	35-1, 35-2, RS35A, RS35B	67	16	397	480
<b>Totals</b>		<b>172</b>	<b>214</b>	<b>2831</b>	<b>3217</b>





**Medford District BLM - February 2019**

-  Roadside Salvage Units
-  Project Units
-  BLM
-  Other

0 0.5 1  
Miles



1 inch = 1 miles  
Contours = 40 feet

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT (BLM)

Contract No.: ORM05-TS19-12  
Sale Name: Miles Fire Salvage  
Issuing Office: Medford District

**EXHIBIT B**  
**SCALE SALE**

**PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS**

I. **Total Actual Purchase Price** - In accordance with Section 3.(d). of the contract, the Purchaser agrees to pay the Government for the timber sold under the contract in accordance with the following schedule and measurement requirements. Timber sold is comprised of Merchantable Timber, Merchantable Timber Remaining, and Other Timber as defined below. In the event an Extension of Time is approved, the prices per measurement unit are subject to readjustment (refer to Section 9 of the contract).

Schedule of Species, Measurement Units, and Prices		
Species	Measurement Unit	Price Per Measurement Unit
Douglas-fir	MBF	\$24.20
Incense-cedar	MBF	\$29.40
Sugar Pine	MBF	\$11.80
Ponderosa Pine	MBF	\$12.90
White Fir	MBF	\$17.00

II. **Merchantable Timber** - All timber which can be cut into logs, which equal or exceed the following specifications, shall be considered merchantable timber. Purchaser shall pay for same in accordance with Sec. 3 of the contract at the unit prices shown in Section I of this Exhibit.

Schedule of Minimum Material Specifications			
Species and Products	Length	Diameter (inside bark at small end)	Net Scale
All Species	16 feet	10 inches	33 1/3% of gross volume of any log segment or 10 bf.

III. **Merchantable Timber Remaining - Measurement Requirements** - The remaining volume of any merchantable sold timber on the contract area shall be determined as provided in Section 3.(e). of the contract. Purchaser shall pay for same in accordance with Sec. 3 of the contract at the unit prices shown in Section I of this Exhibit.

IV. **Scaling**

A. **Log Rule and Measurement** - All logs shall be scaled according to the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale. A Scaling Authorization Form (OR 5300-18) must be completed prior to beginning of operations. If sample log scaling is agreeable to

Purchaser and the Contracting Officer, the procedures will be agreed upon in writing regarding sample design, number of log sorts, expansion of sample volumes for computation of Merchantable Timber volume, etc.

**B. Scaling Service** - Log scaling services shall be provided and performed by BLM personnel or parties under contract to BLM.

1. All logs shall be scaled and volumes determined by BLM or a certified contract scaler.

2. The BLM scaler or contract scaler is designated to collect Eastside MBF scale data from all loads.

**C. Other Timber** - If any timber is of a species or size not listed in Section II of this Exhibit (above) or is of a quality different from merchantable timber described herein, the Authorized Officer shall establish volumes and values in accord with Standard BLM methods.

**D. Defect Caused by Abnormal Delay** - Scaling deductions made for rot, check or other defect resulting from abnormal delay in scaling caused by Purchaser shall be recorded separately and charged to the Purchaser in accordance with Section 3. of the contract.

**E. Log Presentation** - Purchaser shall present logs so that they may be scaled in an economical and safe manner in accordance with the Memorandum(s) of Agreement for Yard Scaling required in Section IV.G.5. of this Exhibit.

**F. Check Scale** - The Government will conduct check scales as set forth in the following section.

Normally a check scale includes at least 200 short logs (20 feet or less) or at least 100 multiple-segment logs. Sample the species and defect situation as fairly as possible. Individually analyze more complex scaling situations and increase the number of logs check scaled if necessary.

The following standards will be used to determine the proficiency of individual scalers.

Gross Scale. A variance of one percent in gross scale is the standard unless otherwise justified.

Net scale. The allowable variance is as follows:

Check scaler's percent defect in logs	Scalers allowable variance
0-10 percent	2 percent
over 10 percent	.2 x percent defect to a maximum of 5 percent

Determinations as to volume of timber made by a government check scaler in conformance with the standards as set forth herein shall be final. All loads check scaled by BLM will be identified with the check scaler's initials legibly marked or painted in the face of the first log in each load. When such checks show a variance in scale in excess of acceptable standards, in two or more consecutive check scales, an

adjustment to the volume reported as scaled will be made by BLM. Such adjustments will be made based on the difference between available BLM check scales and the original scale during the period covered by the unsatisfactory check scales. Unless otherwise approved in writing by the Authorized Officer, the volume to which this difference will be applied will be 50 percent of the volume scaled between the last satisfactory check and the first unsatisfactory check, 100 percent of the volume scaled during the unsatisfactory check, and 50 percent of the volume between the last unsatisfactory check scale and the next satisfactory check scale.

#### **G. Accountability**

1. Purchaser shall notify the Authorized Officer three (3) days prior to starting or stopping of hauling operations performed under the contract.

2. All logs will be painted and branded at the landing and accounted for in accordance with Sec. 42(A)(1) of the contract. Each truck driver shall obtain a load receipt and a BLM scaler receipt from the Log Truck Ticket Book issued by the Authorized Officer and comply with the instructions specified on the cover of said book. While products are in transit, the truck driver shall display the load receipt and BLM scaler receipt on the bunk or wing log at the front of the load on the driver's side. All logs on each load shall be delivered to the destination listed on the woods receipt. The BLM scaler receipt shall be surrendered at the location of BLM scaling, the unloading location, or as requested by BLM.

3. The Purchaser shall not haul logs from the contract area on weekends; Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas, and New Year's holidays; or outside the hours of 4:00 a.m. to 8:00 p.m. daily, unless otherwise approved in writing by the Authorized Officer or designated in the Approved Logging Plan (Refer to Section 42 (B) of the contract).

4. The Purchaser shall furnish BLM a map showing the route which shall be used to haul logs from the timber sale area to the scaling location. Such route shall be the most direct haul route between the two points, unless another route is approved by BLM. The route of haul may be changed only with advance notice to and approval by BLM. The haul route map shall be attached to the Approved Logging Plan.

5. All loads will be scaled at scale locations listed on the Scaling Authorization (Form OR 5300-18) as approved by the Authorized Officer. The Purchaser shall ensure that all scale site owners listed on the Scaling Authorization enter into a Memorandum of Agreement for Yard Scaling before requesting BLM approval of the Scaling Authorization. Areas for scaling BLM logs will be designated on the ground and identified on the yard map as required in the Memorandum(s) of Agreement for Yard Scaling.

6. Any removal of logs from loaded trucks before being accounted for and/or scaled as required by the contract shall be considered a willful trespass and render the Purchaser liable for damages under applicable law. Any payment made for purchase of such logs shall be deducted from amount due because of trespass.

H. **Scaling Lost Products** - The value of lost loads shall be equal to the highest value load for the month in which the lost load is hauled regardless of where the highest value load is scaled. If no loads have been scaled in that month, value will be determined from the closest month in which loads were scaled.

V. **Estimated Volumes and Values** - The following volume estimates and calculations of value of timber sold are made solely as an administrative aid for determining payment amounts, when payments are due, the value of timber subject to any special bonding provisions, and other purposes specified in various portions of the contract. The cutting areas are shown on Exhibit A of the contract.

A. **Merchantable Timber Volume Removed from Contract Area** - The total volume of removed timber shall be determined using the Government's records of scaled volumes of timber skidded or yarded monthly, or a shorter period if agreed to by the Purchaser and Government, to loading points or removed from the contract area.

B. **Merchantable Timber Not Yet Removed from Contract Area** - The value of merchantable timber which has not been removed will be determined by multiplying the value per acre as shown below times the amount of acreage subject to the purpose of the value determination, as determined by the Authorized Officer:

Total Estimated Purchase Price And/Or Schedule of Volumes and Values for Merchantable Timber Not Yet Removed from Contract Area					
Cutting Area		Total Estimated Volume (MBF)		Total Estimated Purchase Price	
Cutting Area Number	Approximate Number of Acres	Volume per Acre	Total Volume	Value per Acre	Total Value
5-1	8	21	168		
5-2	13	21	274		
5-3	11	21	233		
7-1	1	21	21		
7-2a	7	21	148		
RS7	8	0.5	4		
7-4a	1	21	21		
7-4b	2	21	42		
7-5	10	21	210		
7-6	2	21	42		
7-7	2	21	42		
RS8a	14	0.36	5		
RS8b	6	0.33	2		



8-1	6	21	127		
8-2	2	21	42		
8-4	7	21	148		
8-5	5	21	106		
8-6	1	21	21		
9-1a	5	21	106		
9-1b	12	19	252		
9-2a	8	21	168		
9-2b	1	21	21		
9-3	6	21	127		
RS9	14	1.3	18		
RS15a	25	1.6	40		
RS15c	2	2	4		
RS17a	15	0.5	7		
RS17b	4	0.5	2		
17-1a	9	21	191		
17-1b	19	26	500		
17-1c	3	21	64		
19-1	7	21	148		
19-2	18	21	379		
27-1	4	21	85		
27-2	1	3	21		
27-3	5	21	106		
RS29a	1	4	4		
RS29b	4	3	13		
RS35a	64	0.5	30		
RS35b	3	0.7	2		
35-1	10	21	210		
35-2	6	21	127		
RS12a	3	6	18		
RS12b	1	4	4		
RS12c	3	2.7	8		

RS13a	5	4	20		
RS13b	2	3.5	7		
13-2	2	21	42		
13-5a	16	21	337		
13-5b	5	25	127		
Sale Total	386		4844		

OVERNIGHT LOAD CONTROL RECORD	
Log Delivery Location	
Timber Sale	
1	Time and Date Load Delivered
2	Truck Name
3	Load Receipt No.
4	Number of Logs
5	Signature of Person Receiving the Load
6	Date and Time Load Released
7	Signature of Person Releasing the Load

Instructions:

1. Designated individual fills out the heading and lines 1 through 5 (including FULL SIGNATURE in ink on line 5.)

2. Contractor or BLM scaler will fill out lines 6 and 7 (including FULL SIGNATURE in ink) when loads are released for scaling, otherwise the BLM and/or yard owner will be required to sign.

3. Unless otherwise agreed, scaler will attach this form to the Load Receipt.

OVERNIGHT LOAD CONTROL RECORD	
Log Delivery Location	
Timber Sale	
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3. Unless otherwise agreed, scaler will attach this form to the Load Receipt.





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

**Timber Appraisal**

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<b>Sale Name:</b> Miles Salvage	<b>Sale Date:</b> Thursday, June 27, 2019
<b>BLM District:</b> Medford DO	<b>Unit of Measure:</b> 16' MBF
<b>Contract #:</b> ORM05-TS-2019.0012	<b>Contract Term:</b> 36 months
<b>Sale Type:</b> Advertised	<b>Contract Mechanism:</b> 5450-4
	Sale of Timber - Scale Sale

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**Content**

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

**Prepared By:** Parks, Corey J - 5/9/2019

**Approved By:** Thompson, Kristen R - 5/9/2019

## Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Jackson	32S	1E	5	SE1/4NW1/4, SW1/4, NW1/4SE1/4, S1/2SE1/4.	Willamette
O&C	Jackson	32S	1E	7	NE1/4NE1/4, SW1/4NE1/4, E1/2NW1/4, SE1/4.	Willamette
O&C	Jackson	32S	1E	8	N1/2NE1/4, N1/2NW1/4, SW1/4SW1/4, SE1/4SE1/4.	Willamette
O&C	Jackson	32S	1E	9	N1/2NE1/4, E1/2NW1/4, NE1/4SW1/4, SE1/4SW1/4, W1/2SE1/4.	Willamette
O&C	Jackson	32S	1E	10	SW1/4SE1/4.	Willamette
O&C	Jackson	32S	1E	15	W1/2NE1/4, N1/2NW1/4, SE1/4NW1/4, SW1/4.	Willamette
O&C	Jackson	32S	1E	17	NE1/4NE1/4, N1/2NW1/4, SW1/4NW1/4, SW1/4, SW1/4SE1/4.	Willamette
O&C	Jackson	32S	1E	19	Lot 4, SE1/4SW1/4, SW1/4SE1/4.	Willamette
O&C	Jackson	32S	1E	27	NW1/4NW1/4.	Willamette
O&C	Jackson	32S	1E	29	W1/2NW1/4.	Willamette
O&C	Jackson	32S	1E	35	NE1/4NW1/4, SW1/4.	Willamette
O&C	Jackson	32S	1W	11	SE1/4SE1/4.	Willamette
O&C	Jackson	32S	1W	12	E1/2NW1/4, NE1/4SW1/4.	Willamette
O&C	Jackson	32S	1W	13	NW1/4, W1/2SW1/4, SE1/4SW1/4.	Willamette
O&C	Jackson	32S	1W	14	NE1/4NE1/4.	Willamette

### Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	4,447.0	5,070.0	5,617.0	31,072	10,550	7,995
Ponderosa Pine	130.0	150.0	175.0	431	175	106
Incense-cedar	116.0	138.0	142.0	1,237	184	302
Sugar Pine	109.0	123.0	127.0	381	102	77
White Fir	42.0	49.0	61.0	494	265	179
<b>Totals</b>	<b>4,844.0</b>	<b>5,530.0</b>	<b>6,122.0</b>	<b>33,615</b>	<b>11,276</b>	<b>8,659</b>

### Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	399.0	0.0	399.0	12.1

## Logging Costs

Stump to Truck	\$1,199,684.50
Transportation	\$187,301.10
Road Construction	\$118,649.43
Maintenance/Rockwear	\$60,985.80
Road Use	\$0.00
Other Allowances	\$46,183.01
<b>Total:</b>	<b>\$1,612,803.84</b>
<b>Total Logging Cost per MBF:</b>	<b>\$332.95</b>

## Utilization Centers

Location	Distance	% of Net Volume
White City, OR	37.0 miles	100 %

## Profit &amp; Risk

Profit	9 %
Risk	3 %
<b>Total Profit &amp; Risk</b>	<b>12 %</b>

## Tract Features

Quadratic Mean DBH	23.6 in
Average GM Log	165 bf
Average Volume per Acre	12.1 mbf
Recovery	79 %
<u>Net MBF volume:</u>	
Green	0.0 mbf
Salvage	4,844 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	16 %
Average Yarding Slope	15 %
Average Yarding Distance	325 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	49 %
Average Yarding Slope	40 %
Average Yarding Distance	425 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	35 %
Average Yarding Slope	55 %
Average Yarding Distance	2780 ft

## Cruise

Cruise Completed	February 2019
Cruised By	Parks, Darner, Worman, Siemer
<u>Cruise Method</u>	
Variable Plot. PCMTREE Cruise method. 116 plots (All TS units). LVT (local volume table) all Roadside Salvage.	



## Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	7,995	4,447.0	\$433.60	\$52.03	\$332.95	\$0.00	\$48.60	\$216,124.20
Ponderosa Pine	106	130.0	\$256.41	\$30.77	\$332.95	\$0.00	\$25.70 *	\$3,341.00
Incense-cedar	302	116.0	\$582.10	\$69.85	\$332.95	\$0.00	\$179.30	\$20,798.80
Sugar Pine	77	109.0	\$232.76	\$27.93	\$332.95	\$0.00	\$23.30 *	\$2,539.70
White Fir	179	42.0	\$298.57	\$35.83	\$332.95	\$0.00	\$29.90 *	\$1,255.80
<b>Totals</b>	<b>8,659</b>	<b>4,844.0</b>						<b>\$244,059.50</b>

\* Minimum Stumpage values were used to compute the Appraised Price/MBF (10% of Pond Value)

**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			4.0 %	75.0 %	21.0 %		

**Comments:** The Douglas fir pond values have been reduced to reconcile the deficit values in some of the minor species. Salvage price is 85% of green pond value

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Ponderosa Pine				78.0 %	22.0 %		

**Comments:** 60 % of grade 5 green pond value

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Incense-cedar				79.0 %	21.0 %		

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Sugar Pine				83.0 %	17.0 %		

**Comments:** 60% Of grade 5 green pond value

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
White Fir				77.0 %	23.0 %		

**Comments:** 76% of green pond value

**Miles Salvage****Unit Summary****ORM05-TS-2019.0012****Unit: 5-1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	156.0	177.0	196.0	252
Incense-cedar	4.0	5.0	5.0	10
Ponderosa Pine	4.0	5.0	5.0	2
Sugar Pine	3.0	4.0	4.0	2
White Fir	1.0	2.0	2.0	6
<b>Totals:</b>	<b>168.0</b>	<b>193.0</b>	<b>212.0</b>	<b>272</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	8.0
Right of Way	0.0
<b>Total Acres:</b>	<b>8.0</b>

**Unit: 5-2**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	253.0	288.0	319.0	410
Ponderosa Pine	7.0	8.0	9.0	3
Incense-cedar	7.0	8.0	8.0	16
Sugar Pine	5.0	6.0	6.0	4
White Fir	2.0	3.0	3.0	10
<b>Totals:</b>	<b>274.0</b>	<b>313.0</b>	<b>345.0</b>	<b>443</b>

**Net Volume/Acre: 21.1 MBF**

Regeneration Harvest	0.0
Partial Cut	13.0
Right of Way	0.0
<b>Total Acres:</b>	<b>13.0</b>

**Unit: 5-3**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	214.0	244.0	270.0	347
Ponderosa Pine	6.0	6.0	7.0	3
Incense-cedar	6.0	7.0	7.0	14
Sugar Pine	5.0	5.0	5.0	3
White Fir	2.0	2.0	3.0	8
<b>Totals:</b>	<b>233.0</b>	<b>264.0</b>	<b>292.0</b>	<b>375</b>

**Net Volume/Acre: 21.2 MBF**

Regeneration Harvest	0.0
Partial Cut	11.0
Right of Way	0.0
<b>Total Acres:</b>	<b>11.0</b>

**Unit: 7-1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	19.0	22.0	25.0	32
Ponderosa Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	1
<b>Totals:</b>	<b>21.0</b>	<b>24.0</b>	<b>27.0</b>	<b>34</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	1.0
Right of Way	0.0
<b>Total Acres:</b>	<b>1.0</b>

**Unit: 7-2A**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	136.0	155.0	172.0	221
Ponderosa Pine	4.0	4.0	5.0	2
Incense-cedar	4.0	4.0	4.0	9
Sugar Pine	3.0	3.0	3.0	2
White Fir	1.0	2.0	2.0	5
<b>Totals:</b>	<b>148.0</b>	<b>168.0</b>	<b>186.0</b>	<b>239</b>

**Net Volume/Acre: 21.1 MBF**

Regeneration Harvest	0.0
Partial Cut	7.0
Right of Way	0.0
<b>Total Acres:</b>	<b>7.0</b>

**Unit: 7-4A**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	19.0	22.0	25.0	32
Ponderosa Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	1
<b>Totals:</b>	<b>21.0</b>	<b>24.0</b>	<b>27.0</b>	<b>34</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	1.0
Right of Way	0.0
<b>Total Acres:</b>	<b>1.0</b>

**Unit: 7-4B**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	39.0	44.0	49.0	64
Ponderosa Pine	1.0	1.0	1.0	1
Sugar Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	1
<b>Totals:</b>	<b>42.0</b>	<b>47.0</b>	<b>52.0</b>	<b>67</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	2.0
Right of Way	0.0
<b>Total Acres:</b>	<b>2.0</b>

**Unit: 7-5**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	194.0	221.0	245.0	320
Ponderosa Pine	5.0	6.0	7.0	3
Incense-cedar	5.0	6.0	6.0	13
Sugar Pine	4.0	5.0	5.0	3
White Fir	2.0	2.0	3.0	7
<b>Totals:</b>	<b>210.0</b>	<b>240.0</b>	<b>266.0</b>	<b>346</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	10.0
Right of Way	0.0
<b>Total Acres:</b>	<b>10.0</b>

**Unit: 7-6**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	39.0	44.0	49.0	64
Ponderosa Pine	1.0	1.0	1.0	1
Sugar Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	3
<b>Totals:</b>	<b>42.0</b>	<b>47.0</b>	<b>52.0</b>	<b>69</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	2.0
Right of Way	0.0
<b>Total Acres:</b>	<b>2.0</b>

**Unit: 7-7**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	39.0	44.0	49.0	63
Ponderosa Pine	1.0	1.0	1.0	1
Sugar Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	3
<b>Totals:</b>	<b>42.0</b>	<b>47.0</b>	<b>52.0</b>	<b>68</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	2.0
Right of Way	0.0
<b>Total Acres:</b>	<b>2.0</b>

**Unit: 8-1****Net Volume/Acre: 21.2 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	117.0	133.0	147.0	189
Ponderosa Pine	3.0	3.0	4.0	2
Sugar Pine	3.0	3.0	3.0	2
Incense-cedar	3.0	4.0	4.0	8
White Fir	1.0	1.0	2.0	4
<b>Totals:</b>	<b>127.0</b>	<b>144.0</b>	<b>160.0</b>	<b>205</b>

Regeneration Harvest	0.0
Partial Cut	6.0
Right of Way	0.0
<b>Total Acres:</b>	<b>6.0</b>

**Unit: 8-2****Net Volume/Acre: 21.0 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	39.0	44.0	39.0	63
Sugar Pine	1.0	1.0	1.0	1
Ponderosa Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	2
<b>Totals:</b>	<b>42.0</b>	<b>47.0</b>	<b>42.0</b>	<b>67</b>

Regeneration Harvest	0.0
Partial Cut	2.0
Right of Way	0.0
<b>Total Acres:</b>	<b>2.0</b>

**Unit: 8-4****Net Volume/Acre: 21.1 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	136.0	155.0	172.0	221
Incense-cedar	4.0	4.0	4.0	9
Ponderosa Pine	4.0	4.0	5.0	2
Sugar Pine	3.0	3.0	3.0	2
White Fir	1.0	2.0	2.0	5
<b>Totals:</b>	<b>148.0</b>	<b>168.0</b>	<b>186.0</b>	<b>239</b>

Regeneration Harvest	0.0
Partial Cut	7.0
Right of Way	0.0
<b>Total Acres:</b>	<b>7.0</b>

**Unit: 8-5**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	97.0	111.0	123.0	158
Ponderosa Pine	3.0	3.0	3.0	1
Incense-cedar	3.0	3.0	3.0	4
Sugar Pine	2.0	2.0	2.0	1
White Fir	1.0	1.0	1.0	6
<b>Totals:</b>	<b>106.0</b>	<b>120.0</b>	<b>132.0</b>	<b>170</b>

**Net Volume/Acre: 21.2 MBF**

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
<b>Total Acres:</b>	<b>5.0</b>

**Unit: 8-6**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	19.0	22.0	25.0	32
Ponderosa Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	1
<b>Totals:</b>	<b>21.0</b>	<b>24.0</b>	<b>27.0</b>	<b>34</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	1.0
Right of Way	0.0
<b>Total Acres:</b>	<b>1.0</b>

**Unit: 9-1A**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	97.0	111.0	123.0	158
Ponderosa Pine	3.0	3.0	3.0	1
Incense-cedar	3.0	3.0	3.0	4
Sugar Pine	2.0	2.0	2.0	1
White Fir	1.0	1.0	1.0	6
<b>Totals:</b>	<b>106.0</b>	<b>120.0</b>	<b>132.0</b>	<b>170</b>

**Net Volume/Acre: 21.2 MBF**

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
<b>Total Acres:</b>	<b>5.0</b>

**Unit: 9-1B****Net Volume/Acre: 21.0 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	233.0	266.0	294.0	410
Ponderosa Pine	6.0	7.0	8.0	3
Incense-cedar	6.0	7.0	8.0	16
Sugar Pine	5.0	6.0	6.0	3
White Fir	2.0	3.0	3.0	10
<b>Totals:</b>	<b>252.0</b>	<b>289.0</b>	<b>319.0</b>	<b>442</b>

Regeneration Harvest	0.0
Partial Cut	12.0
Right of Way	0.0
<b>Total Acres:</b>	<b>12.0</b>

**Unit: 9-2A****Net Volume/Acre: 21.0 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	156.0	177.0	196.0	252
Ponderosa Pine	4.0	5.0	5.0	2
Incense-cedar	4.0	5.0	5.0	10
Sugar Pine	3.0	4.0	4.0	2
White Fir	1.0	2.0	2.0	6
<b>Totals:</b>	<b>168.0</b>	<b>193.0</b>	<b>212.0</b>	<b>272</b>

Regeneration Harvest	0.0
Partial Cut	8.0
Right of Way	0.0
<b>Total Acres:</b>	<b>8.0</b>

**Unit: 9-2B****Net Volume/Acre: 21.0 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	19.0	22.0	25.0	32
Ponderosa Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	1
<b>Totals:</b>	<b>21.0</b>	<b>24.0</b>	<b>27.0</b>	<b>34</b>

Regeneration Harvest	0.0
Partial Cut	1.0
Right of Way	0.0
<b>Total Acres:</b>	<b>1.0</b>



**Unit: 9-3**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	117.0	133.0	147.0	189
Ponderosa Pine	3.0	3.0	4.0	2
Sugar Pine	3.0	3.0	3.0	2
Incense-cedar	3.0	4.0	4.0	8
White Fir	1.0	1.0	2.0	5
<b>Totals:</b>	<b>127.0</b>	<b>144.0</b>	<b>160.0</b>	<b>206</b>

**Net Volume/Acre: 21.2 MBF**

Regeneration Harvest	0.0
Partial Cut	6.0
Right of Way	0.0
<b>Total Acres:</b>	<b>6.0</b>

**Unit: 13-2**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	39.0	44.0	49.0	63
Ponderosa Pine	1.0	1.0	1.0	1
Sugar Pine	1.0	1.0	1.0	1
Incense-cedar	1.0	1.0	1.0	2
<b>Totals:</b>	<b>42.0</b>	<b>47.0</b>	<b>52.0</b>	<b>67</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	2.0
Right of Way	0.0
<b>Total Acres:</b>	<b>2.0</b>

**Unit: 13-5A**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	301.0	338.0	379.0	651
Sugar Pine	10.0	12.0	12.0	7
Ponderosa Pine	6.0	10.0	13.0	2
Incense-cedar	6.0	8.0	8.0	29
White Fir	5.0	5.0	7.0	22
<b>Totals:</b>	<b>328.0</b>	<b>373.0</b>	<b>419.0</b>	<b>711</b>

**Net Volume/Acre: 20.5 MBF**

Regeneration Harvest	0.0
Partial Cut	16.0
Right of Way	0.0
<b>Total Acres:</b>	<b>16.0</b>

**Unit: 13-5B**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	117.0	133.0	147.0	158
Ponderosa Pine	3.0	3.0	4.0	2
Incense-cedar	3.0	4.0	4.0	6
Sugar Pine	3.0	3.0	3.0	2
White Fir	1.0	1.0	2.0	4
<b>Totals:</b>	<b>127.0</b>	<b>144.0</b>	<b>160.0</b>	<b>172</b>

**Net Volume/Acre: 25.4 MBF**

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
<b>Total Acres:</b>	<b>5.0</b>

**Unit: 17-1A**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	175.0	199.0	221.0	284
Incense-cedar	5.0	6.0	6.0	11
Ponderosa Pine	5.0	5.0	6.0	3
Sugar Pine	4.0	4.0	4.0	3
White Fir	2.0	2.0	2.0	7
<b>Totals:</b>	<b>191.0</b>	<b>216.0</b>	<b>239.0</b>	<b>308</b>

**Net Volume/Acre: 21.2 MBF**

Regeneration Harvest	0.0
Partial Cut	9.0
Right of Way	0.0
<b>Total Acres:</b>	<b>9.0</b>

**Unit: 17-1B**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	455.0	515.0	575.0	754
Sugar Pine	12.0	15.0	16.0	8
Ponderosa Pine	9.0	14.0	18.0	5
Incense-cedar	7.0	13.0	14.0	32
White Fir	6.0	6.0	9.0	22
<b>Totals:</b>	<b>489.0</b>	<b>563.0</b>	<b>632.0</b>	<b>821</b>

**Net Volume/Acre: 25.7 MBF**

Regeneration Harvest	0.0
Partial Cut	19.0
Right of Way	0.0
<b>Total Acres:</b>	<b>19.0</b>

**Unit: 17-1C**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	58.0	66.0	74.0	95
Ponderosa Pine	2.0	2.0	2.0	1
Incense-cedar	2.0	2.0	2.0	4
White Fir	1.0	1.0	1.0	2
Sugar Pine	1.0	1.0	1.0	1
<b>Totals:</b>	<b>64.0</b>	<b>72.0</b>	<b>80.0</b>	<b>103</b>

**Net Volume/Acre: 21.3 MBF**

Regeneration Harvest	0.0
Partial Cut	3.0
Right of Way	0.0
<b>Total Acres:</b>	<b>3.0</b>

**Unit: 19-1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	136.0	155.0	172.0	221
Ponderosa Pine	4.0	4.0	5.0	2
Incense-cedar	4.0	4.0	4.0	9
Sugar Pine	3.0	3.0	3.0	2
White Fir	1.0	2.0	2.0	5
<b>Totals:</b>	<b>148.0</b>	<b>168.0</b>	<b>186.0</b>	<b>239</b>

**Net Volume/Acre: 21.1 MBF**

Regeneration Harvest	0.0
Partial Cut	7.0
Right of Way	0.0
<b>Total Acres:</b>	<b>7.0</b>

**Unit: 19-2**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	341.0	382.0	427.0	722
Sugar Pine	10.0	12.0	14.0	7
Ponderosa Pine	8.0	10.0	13.0	5
Incense-cedar	8.0	9.0	10.0	32
White Fir	5.0	5.0	6.0	21
<b>Totals:</b>	<b>372.0</b>	<b>418.0</b>	<b>470.0</b>	<b>787</b>

**Net Volume/Acre: 20.7 MBF**

Regeneration Harvest	0.0
Partial Cut	18.0
Right of Way	0.0
<b>Total Acres:</b>	<b>18.0</b>

**Unit: 27-1****Net Volume/Acre: 21.3 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	78.0	89.0	98.0	126
Ponderosa Pine	2.0	2.0	3.0	1
Sugar Pine	2.0	2.0	2.0	1
Incense-cedar	2.0	2.0	3.0	5
White Fir	1.0	1.0	1.0	3
<b>Totals:</b>	<b>85.0</b>	<b>96.0</b>	<b>107.0</b>	<b>136</b>

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
<b>Total Acres:</b>	<b>4.0</b>

**Unit: 27-2****Net Volume/Acre: 21.0 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	19.0	22.0	24.0	221
Ponderosa Pine	1.0	1.0	1.0	2
Incense-cedar	1.0	1.0	1.0	9
<b>Totals:</b>	<b>21.0</b>	<b>24.0</b>	<b>26.0</b>	<b>232</b>

Regeneration Harvest	0.0
Partial Cut	1.0
Right of Way	0.0
<b>Total Acres:</b>	<b>1.0</b>

**Unit: 27-3****Net Volume/Acre: 21.2 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	97.0	111.0	123.0	158
Incense-cedar	3.0	3.0	3.0	6
Ponderosa Pine	3.0	3.0	3.0	2
Sugar Pine	2.0	2.0	2.0	1
White Fir	1.0	1.0	1.0	4
<b>Totals:</b>	<b>106.0</b>	<b>120.0</b>	<b>132.0</b>	<b>171</b>

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
<b>Total Acres:</b>	<b>5.0</b>

**Unit: 35-1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	194.0	221.0	245.0	315
Ponderosa Pine	5.0	6.0	6.0	3
Incense-cedar	5.0	6.0	6.0	13
Sugar Pine	4.0	5.0	5.0	3
White Fir	2.0	2.0	2.0	7
<b>Totals:</b>	<b>210.0</b>	<b>240.0</b>	<b>264.0</b>	<b>341</b>

**Net Volume/Acre: 21.0 MBF**

Regeneration Harvest	0.0
Partial Cut	10.0
Right of Way	0.0
<b>Total Acres:</b>	<b>10.0</b>

**Unit: 35-2**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	117.0	133.0	147.0	189
Ponderosa Pine	3.0	3.0	4.0	2
Sugar Pine	3.0	3.0	3.0	2
Incense-cedar	3.0	4.0	4.0	8
White Fir	1.0	1.0	2.0	4
<b>Totals:</b>	<b>127.0</b>	<b>144.0</b>	<b>160.0</b>	<b>205</b>

**Net Volume/Acre: 21.2 MBF**

Regeneration Harvest	0.0
Partial Cut	6.0
Right of Way	0.0
<b>Total Acres:</b>	<b>6.0</b>

**Unit: RS7**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	4.0	4.0	4.0	5
<b>Totals:</b>	<b>4.0</b>	<b>4.0</b>	<b>4.0</b>	<b>5</b>

**Net Volume/Acre: 0.5 MBF**

Regeneration Harvest	0.0
Partial Cut	8.0
Right of Way	0.0
<b>Total Acres:</b>	<b>8.0</b>

**Unit: RS8**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	5.0	6.0	7.0	34
Ponderosa Pine	2.0	3.0	3.0	5
<b>Totals:</b>	<b>7.0</b>	<b>9.0</b>	<b>10.0</b>	<b>39</b>

**Net Volume/Acre: 0.4 MBF**

Regeneration Harvest	0.0
Partial Cut	20.0
Right of Way	0.0
<b>Total Acres:</b>	<b>20.0</b>

**Unit: RS9**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	16.0	19.0	22.0	59
Ponderosa Pine	2.0	2.0	2.0	2
<b>Totals:</b>	<b>18.0</b>	<b>21.0</b>	<b>24.0</b>	<b>61</b>

**Net Volume/Acre: 1.3 MBF**

Regeneration Harvest	0.0
Partial Cut	14.0
Right of Way	0.0
<b>Total Acres:</b>	<b>14.0</b>

**Unit: RS12**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	57.0	67.0	72.0	50
<b>Totals:</b>	<b>57.0</b>	<b>67.0</b>	<b>72.0</b>	<b>50</b>

**Net Volume/Acre: 8.1 MBF**

Regeneration Harvest	0.0
Partial Cut	7.0
Right of Way	0.0
<b>Total Acres:</b>	<b>7.0</b>

**Unit: RS13**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	27.0	37.0	41.0	49
<b>Totals:</b>	<b>27.0</b>	<b>37.0</b>	<b>41.0</b>	<b>49</b>

**Net Volume/Acre: 3.9 MBF**

Regeneration Harvest	0.0
Partial Cut	7.0
Right of Way	0.0
<b>Total Acres:</b>	<b>7.0</b>

**Unit: RS15**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	23.0	27.0	29.0	41
Ponderosa Pine	13.0	15.0	16.0	23
Sugar Pine	8.0	9.0	10.0	6
<b>Totals:</b>	<b>44.0</b>	<b>51.0</b>	<b>55.0</b>	<b>70</b>

**Net Volume/Acre: 1.2 MBF**

Regeneration Harvest	0.0
Partial Cut	36.0
Right of Way	0.0
<b>Total Acres:</b>	<b>36.0</b>

**Unit: RS17**

Species	Net	Gross Merch	Gross	# of Trees
Incense-cedar	6.0	7.0	7.0	2
Douglas Fir	3.0	3.0	4.0	9
<b>Totals:</b>	<b>9.0</b>	<b>10.0</b>	<b>11.0</b>	<b>11</b>

**Net Volume/Acre: 0.5 MBF**

Regeneration Harvest	0.0
Partial Cut	19.0
Right of Way	0.0
<b>Total Acres:</b>	<b>19.0</b>

**Unit: RS29**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	17.0	19.0	21.0	36
<b>Totals:</b>	<b>17.0</b>	<b>19.0</b>	<b>21.0</b>	<b>36</b>

**Net Volume/Acre: 3.4 MBF**

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
<b>Total Acres:</b>	<b>5.0</b>

**Unit: RS35**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	30.0	45.0	46.0	246
Ponderosa Pine	1.0	1.0	2.0	11
Sugar Pine	1.0	1.0	1.0	2
<b>Totals:</b>	<b>32.0</b>	<b>47.0</b>	<b>49.0</b>	<b>259</b>

**Net Volume/Acre: 0.5 MBF**

Regeneration Harvest	0.0
Partial Cut	68.0
Right of Way	0.0
<b>Total Acres:</b>	<b>68.0</b>

**Miles Salvage****Stump to Truck Costs****ORM05-TS-2019.0012**

	Total Stump To Truck	Net Volume	\$/MBF
	\$1,199,684.50	4,844.0	\$247.66

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Helicopter	GM MBF	1,919.0	\$382.06	\$733,173.14	
Cable: Medium Yarder	GM MBF	2,698.0	\$138.20	\$372,863.60	
Wheel Skidder	GM MBF	913.0	\$87.52	\$79,905.76	
<b>Subtotal</b>				<b>\$1,185,942.50</b>	

**Additional Costs**

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Deadman Anchor	Each	22.0	\$450.00	\$9,900.00	
Operator Spur 19-1	Station	0.5	\$184.00	\$92.00	
Lift Tree/Intermediate support	Each	25.0	\$150.00	\$3,750.00	
<b>Subtotal</b>				<b>\$13,742.00</b>	

**Additional Moves**

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

**Comments:**

Additional Costs amounts per Lead Layout.

Operator Spur = construct/water bar/rip/seed/mulch



**Miles Salvage****Transportation****ORM05-TS-2019.0012**

Total	Net Volume	\$/MBF
\$187,301.10	4,844.0	\$38.67

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
White City, OR	37.0	All species	GM MBF	5,530.0	\$33.87	\$187,301.10	100 %

**Engineering Allowances**

Total	Net Volume	\$/MBF
\$179,635.23	4,844.0	\$37.08

Cost Item	Total Cost
Road Construction:	\$118,649.43
Road Maintenance/Rockwear:	\$60,985.80
Road Use Fees:	\$0.00

**Miles Salvage****Other Allowances****ORM05-TS-2019.0012**

	<b>Total</b>	<b>Net Volume</b>	<b>\$/MBF</b>
	\$46,183.01	4,844.0	\$9.53

**Environmental Protection**

<b>Cost item</b>	<b>Total Cost</b>
Water bar Skyline	\$247.77
Block rds/landings	\$750.00
Water bar Tractor	\$600.00
Equipment Washing #2	\$1,000.00
Equipment Washing #1	\$740.00
Move-in Ripping/Water bar Cat	\$1,100.00
Ripping skids/landings	\$4,210.00
Seed/Mulch	\$14,140.00
<b>Subtotal</b>	<b>\$22,787.77</b>

**Logging**

<b>Cost item</b>	<b>Total Cost</b>
Skid location	\$220.24
Landing Clean-up	\$1,375.00
Skid Construction	\$1,500.00
Landing construction	\$1,500.00
<b>Subtotal</b>	<b>\$4,595.24</b>

**Slash Disposal & Site Prep**

<b>Cost item</b>	<b>Total Cost</b>
Lop & Scatter	\$7,200.00
Hand Pile / Cover	\$11,600.00
<b>Subtotal</b>	<b>\$18,800.00</b>

**Comments:**

Other Allowances amounts per Lead Layout

Equipment washing #1 = yarder, loader

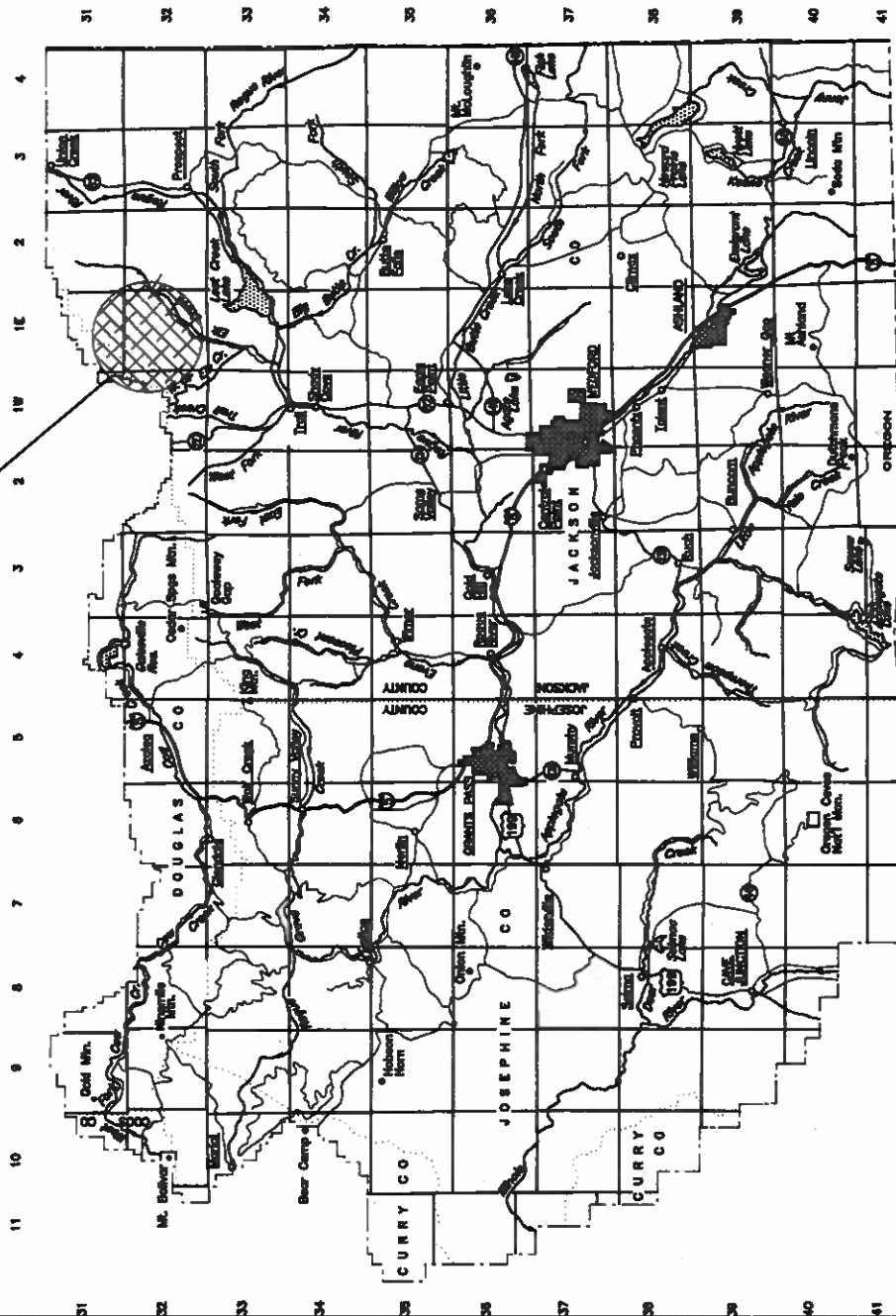
Equipment washing #2 = skidder, dozer(2), harvester

# EXHIBIT C-1 SHEET 1 OF 1

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MILES SALVAGE TIMBER SALE TRACT NO. ORM05-TS-2019-0012

Exhibit No.	Description
C-1	TITLE SHEET
C-2	ROAD LOCATION MAP
C-3	ESTIMATE OF QUANTITIES
C-4	TYPICAL ROAD DATA
C-5	ROADSIDE BRUSHING DETAILS
C-6	ROAD SURFACE TREE REMOVAL DETAILS
C-7	ROAD RENOVATION WORK LIST
C-8	ROAD CONSTRUCTION WORK LIST
C-9	ROAD SPECIFICATIONS
C-10	SPECIAL PROVISIONS
D-1	ROAD MAINTENANCE SPECIFICATIONS
D-2	ROAD MAINTENANCE MAP
D-3	ROAD DECOMMISSIONING WORK LIST
D-4	ROAD DECOMMISSIONING MAP
D-5	BARRICADE DETAILS
D-6	DRAINAGE AND EROSION CONTROL DETAILS
D-7	TYPICAL FULL DECOMMISSIONING

### PROJECT LOCATION



0 6 12  
SCALE IN MILES

ALWAYS  
THINK  
SAFETY

REV. NO. DESCRIPTION DATE APPROV.  
UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD, OREGON

### MILES SALVAGE T.S. TITLE SHEET

DESIGNED

REVIEWED

APPROVED

DRAWN JAB SCALE AS SHOWN

DATE APRIL 2019 SHEET 1 OF 1

DRAWING NO. ORM05-TS-2019-0012-C1



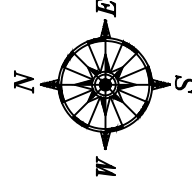
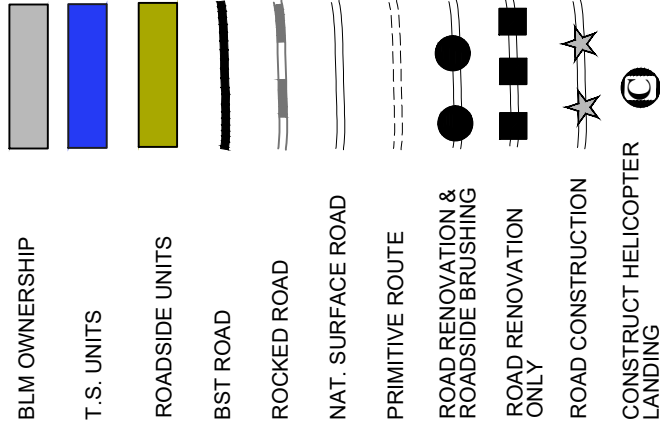
## EXHIBIT C-2

SHEET 1 OF 6

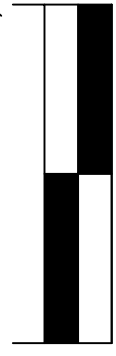
MILES SALVAGE T.S.

TRACT NO.:

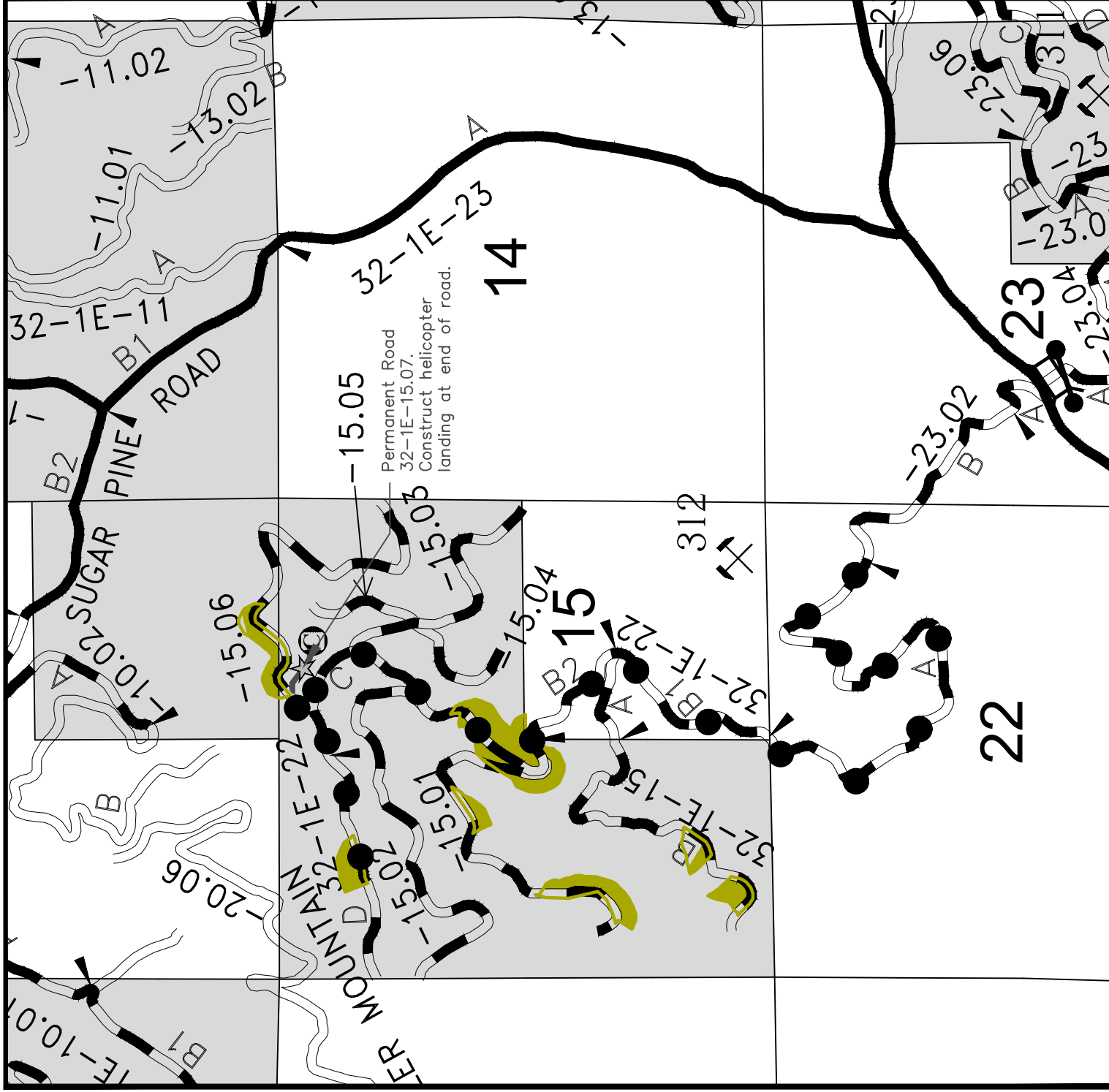
ORM05-TS-2019-0012



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$$0 \quad 1/2$$


SCALE IN MILES





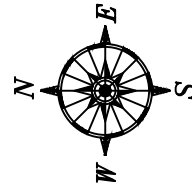
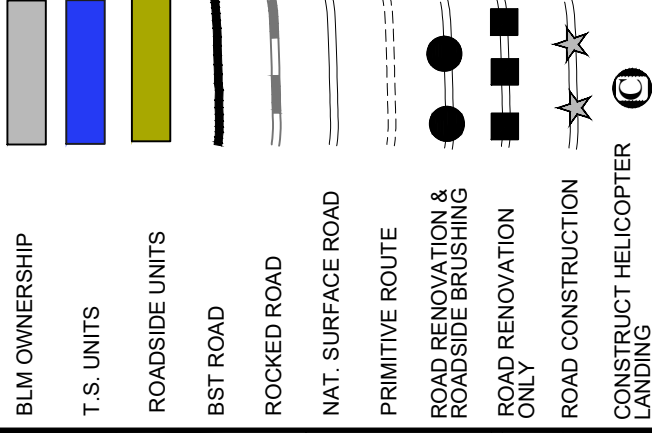
# EXHIBIT C-2

SHEET 2 OF 6

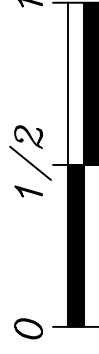
MILES SALVAGE T.S.

TRACT NO.:

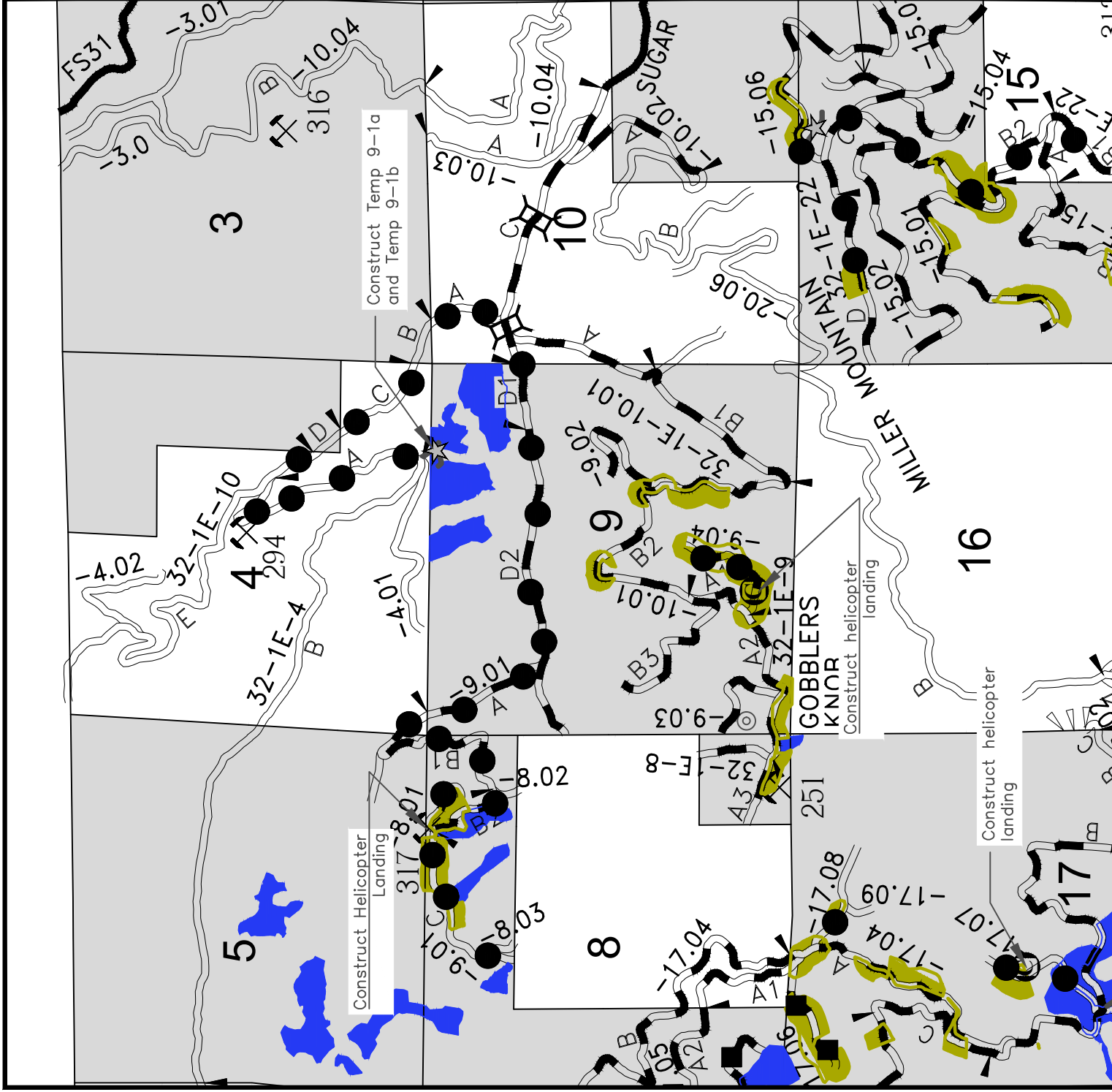
ORM05-TS-2019-0012



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SCALE IN MILES

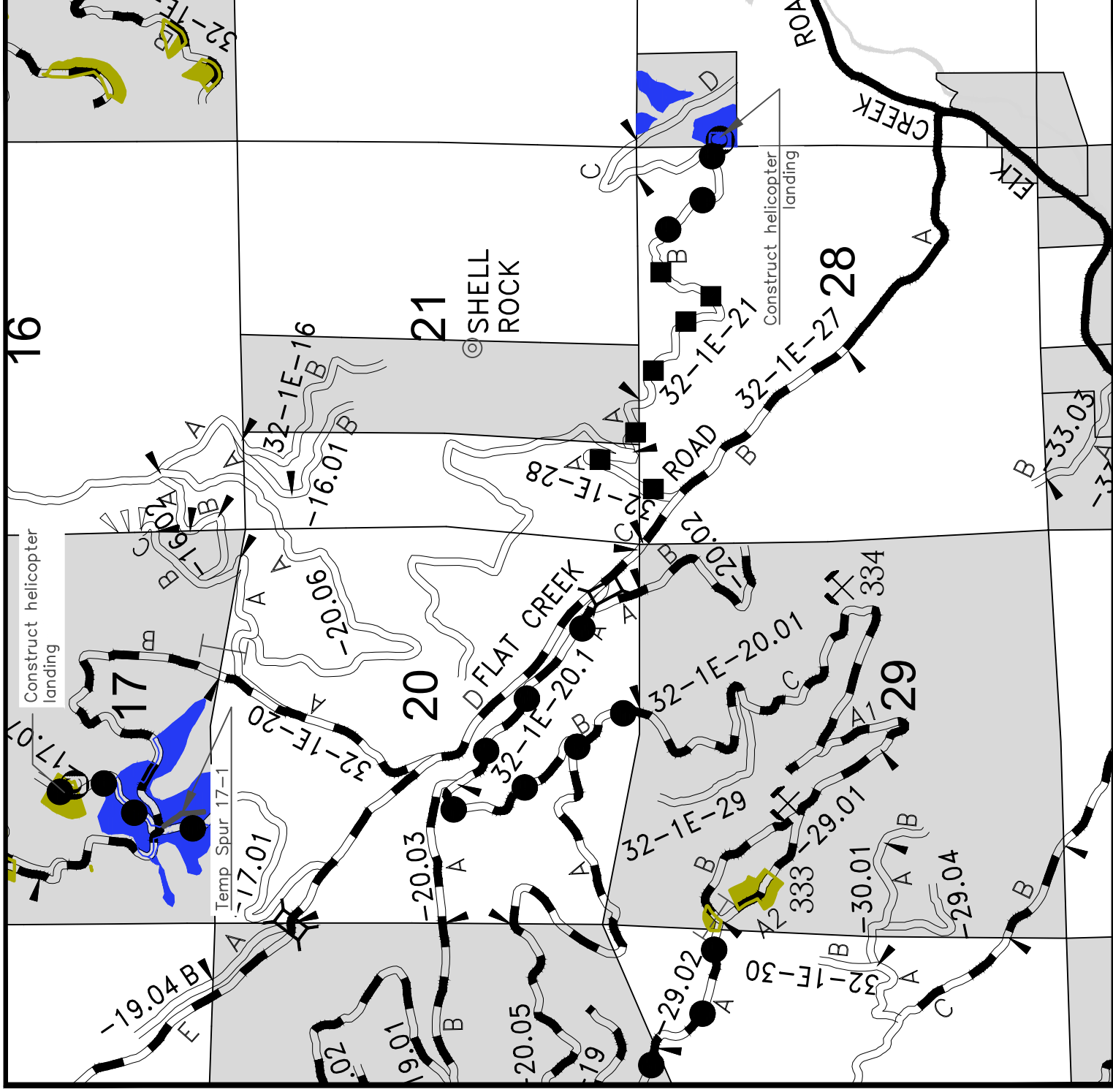
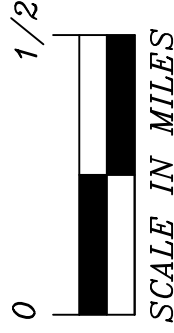






ORM05-TS-2019-0012

## CONSTRUCT HELICOPTER LANDING

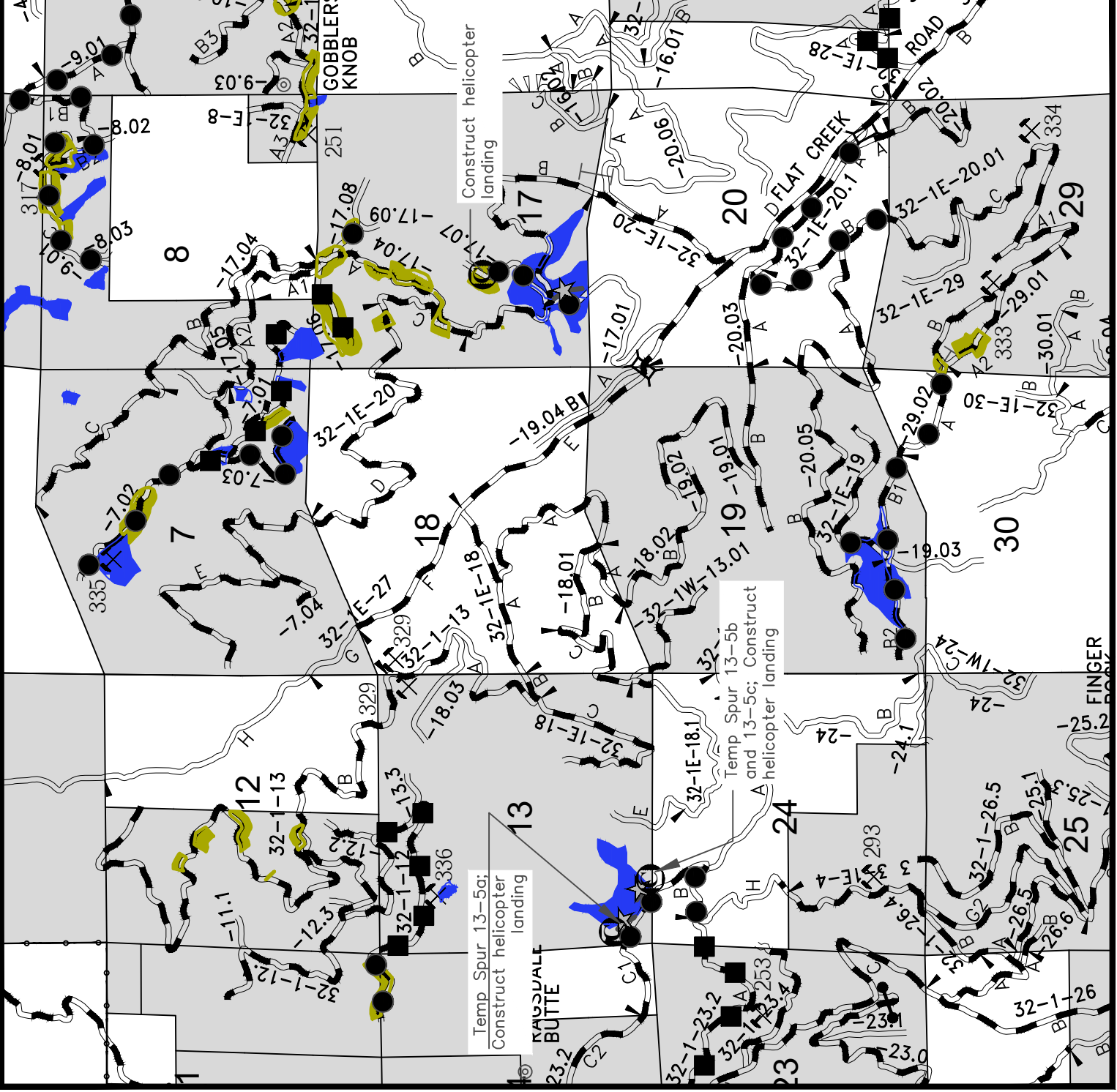




IRACI NO.:  
ORM05-TS-2019-0012



SCALE IN MILES





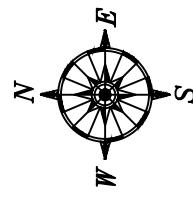
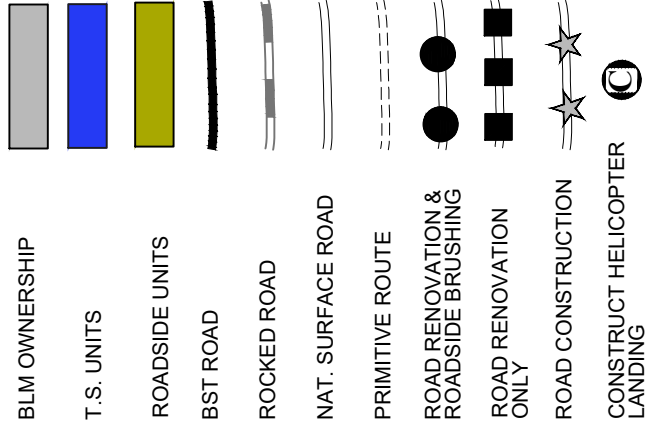
# EXHIBIT C-2

## SHEET 5 OF 6

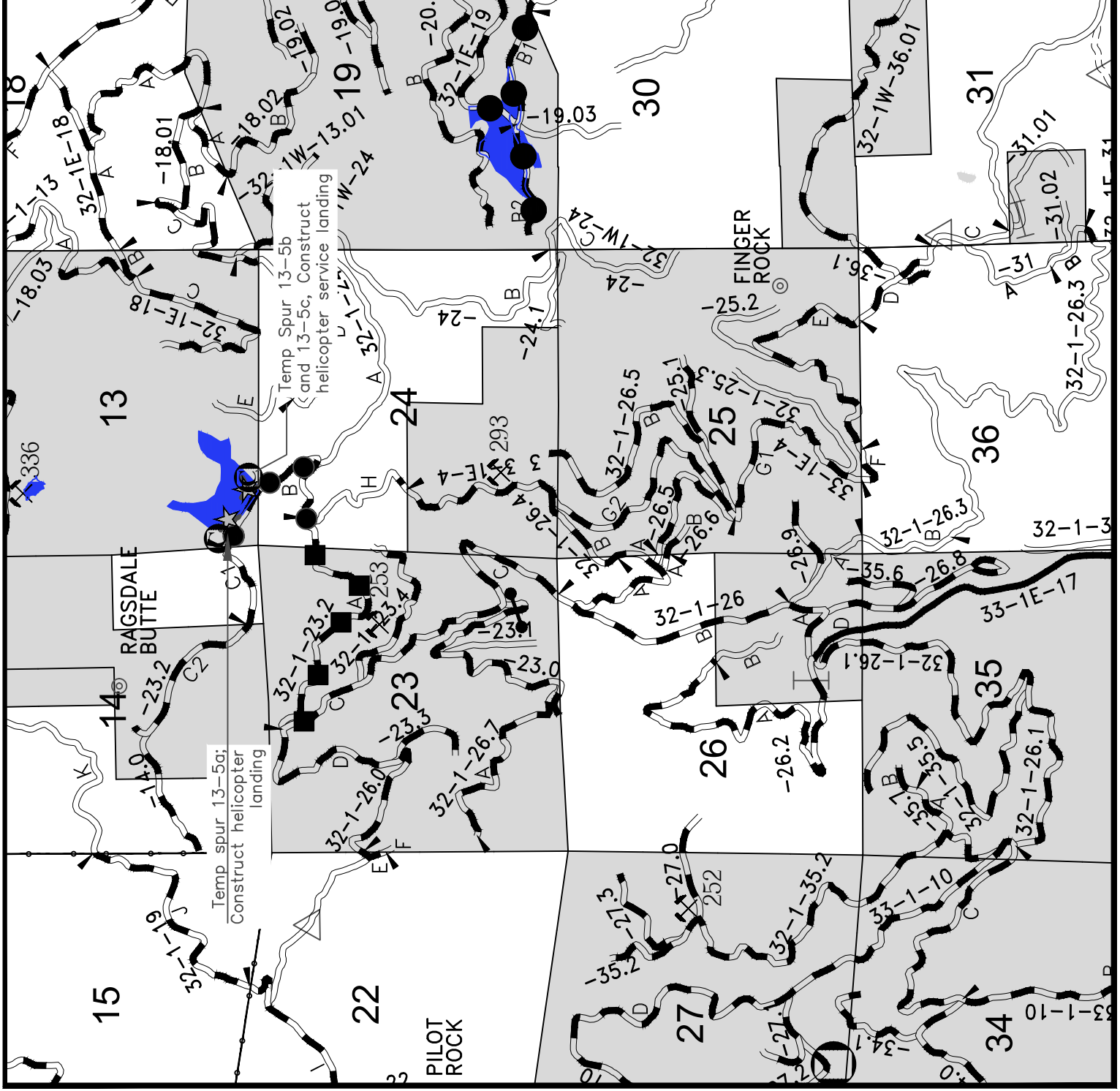
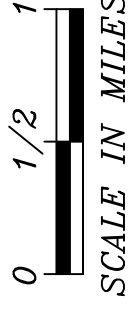
### MILES SALVAGE T.S.

#### TRACT NO.:

#### ORM05-TS-2019-0012



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ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE										RENOVATION	NEW CONSTRUCTION	CONSTRUCT HELICOPTER LANDING	SLOPE PROTECTION - Class III Riprap	AGGREGATE**				SOIL STABILIZATION	ROADSIDE BRUSHING - SCATTER	ROADSIDE BRUSHING - CHIP	EXHIBIT D WORK***																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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\*\*Indicate gradation.  
\*\*\* Work to be completed under Exhibit D.

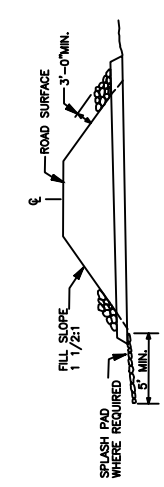
SIZE	GRADE	SIZE	GRADE
4 inch	(A)	1 1/2inch	C,C-1
3 inch	(B)	1 inch	D,F
2 inch	(C)	3/4inch	E,E-1
1 1/2 inch	(D)		

\* FOR INFORMATIONAL USE ONLY,  
QUANTITIES SHOWN ARE NOT PAY ITEMS.

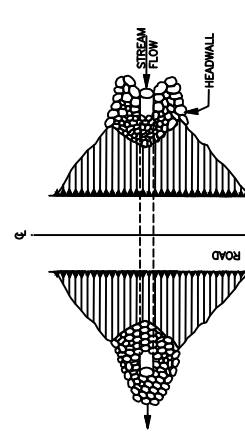
ESTIMATE OF QUANTITIES\*



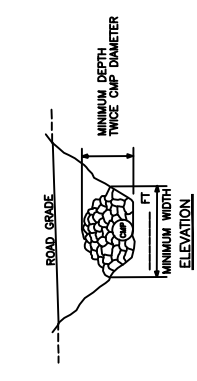
# EXHIBIT C-4 SHEET 1 OF 1 MILES SALVAGE T.S.



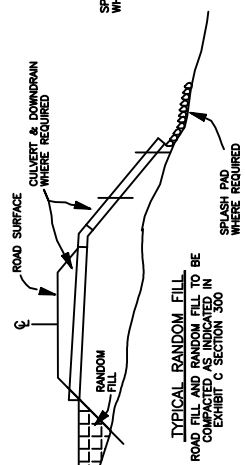
CROSS SECTION



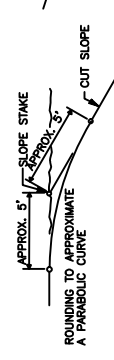
PLAN



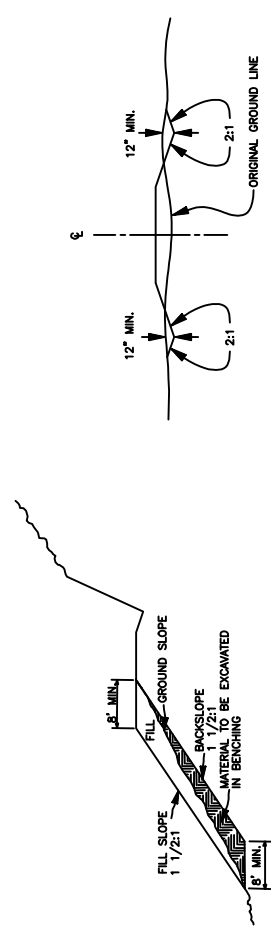
ELEVATION



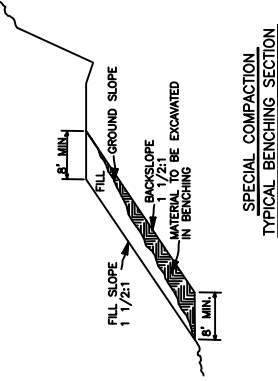
TYPICAL RANDOM FILL  
ROAD FILL AND RANDOM FILL TO BE  
COMPACTED AS INDICATED IN  
EXHIBIT C SECTION 300



CUT SLOPE ROUNDING

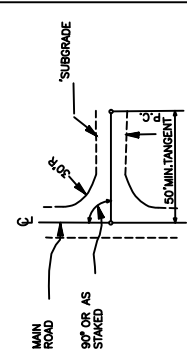


TYPICAL ROAD SECTION  
FOR TURNPIKE CONSTRUCTION

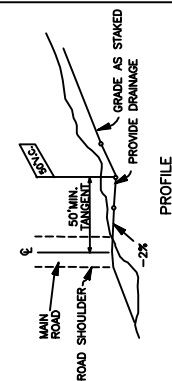


SPECIAL COMPACTION  
TYPICAL BENCHING SECTION

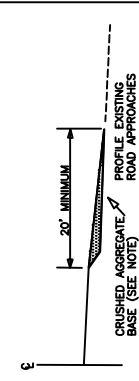
## TYPICAL ROAD APPROACHES



PLAN



PROFILE

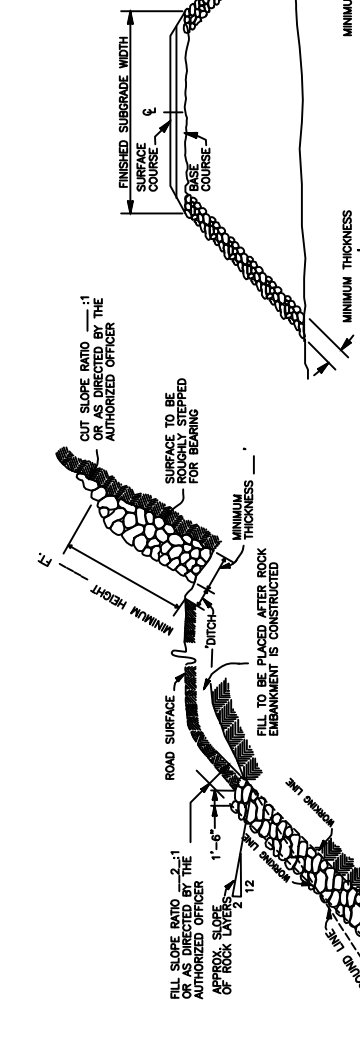


## TYPICAL SURFACING SECTION

- THE PROFILE OF EXISTING APPROACH ROADS SHALL BE TAPERED TO MEET THE SHOULDER LINE OF THE MAIN ROADWAY AND SHALL BE FINISHED TO THE MAIN ROADWAY.
- THE CRUSHED AGGREGATE SHALL BE OF THE SAME GRADATION AS USED IN THE ADJACENT ROADBED.
- TREATMENT SHALL BE FINISHED WITH THE SAME TREATMENT AS SHOWN FOR THE ADJACENT ROADBED.

## NOTES:

- RIPRAP SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT DAMAGE THE CULVERT.
- TRENCHING WILL BE DONE AS REQUIRED BY THE AUTHORIZED OFFICER.
- MINIMUM DEPTH OF SPLASH PADS SHALL BE 1 FT.
- SPLASH PAD MINIMUM QUANTITY DESIGNATED IN WORK LIST.
- RIPRAP SHALL BE PLACED BEFORE OCTOBER 15TH OF THE YEAR THE CMP IS INSTALLED.



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SLOPE PROTECTION ROCK  
SEE EXHIBIT C SECTION 1400

ROCK BLANKETS AND STRUCTURE  
SEE EXHIBIT C SECTION 1400

\* AS SHOWN IN RENOVATION WORKLIST.

REVNO.	DESCRIPTION	DATE	APPROVED
1	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON		
TYPICAL ROAD DATA			
DESIGNED			
REVIEWED			
APPROVED			
DRAWN	BLM	SCALE	NONE
DATE	APRIL 2019	SHEET	1 OF 1
DRAWING NO. ORM05-TS-2019-0012-C4			

Cutting Limit = C + D + B + F  
B = Road Bed Subgrade (includes turnouts)  
Cut all vegetation to max. height of 1".  
C = 4 ft - Distance to be brushed on cut slope beyond centerline of ditch. Cut all vegetation to max height of 3".  
D = Centerline of ditch to inside shoulder. Cut all vegetation to max height of 1".  
F = 4 ft - Distance to be brushed on fill slope beyond outside shoulder  
Cut all vegetation to max. height of 3".  
V = 14 ft - Height of vertical cutting limit

NOTES:

Cutting and removal of vegetation from ditches and roadway is incidental to brushing within cutting limits. All vegetation larger than 6" in diameter measured 54" from the ground shall be left standing to meet roadside brushing specifications.

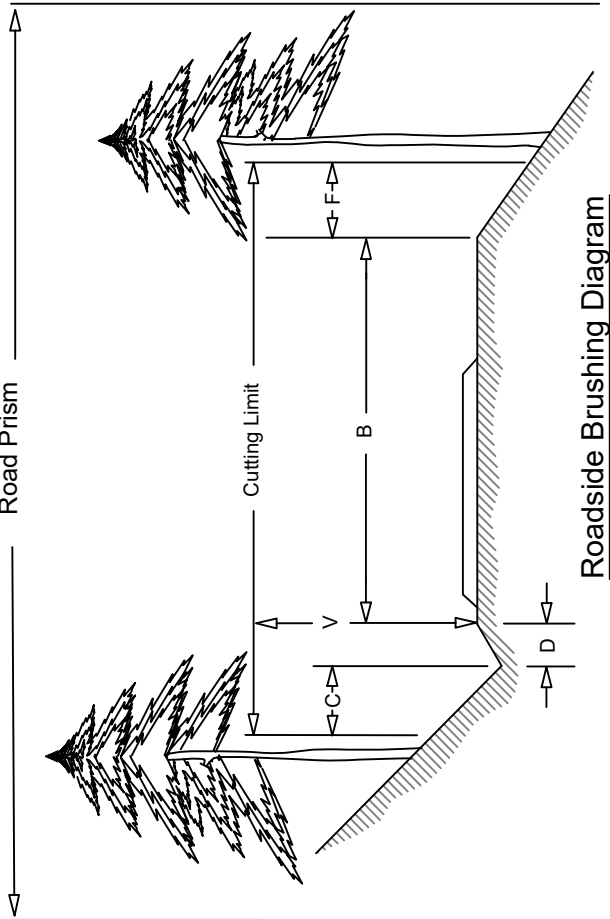
All distances shown are horizontal except for V.

Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of a maximum 25 feet, whichever is achieved first. The middle ordinate is measured from the edge of shoulder and shall not exceed 25 feet as measured parallel with the fill slope.

Thinning shall consist of removing vegetation that is 6" in diameter or less in a particular area. Thinning and spacing of vegetation shall be achieved by leaving one standing tree (6" diameter or less) every 10'.

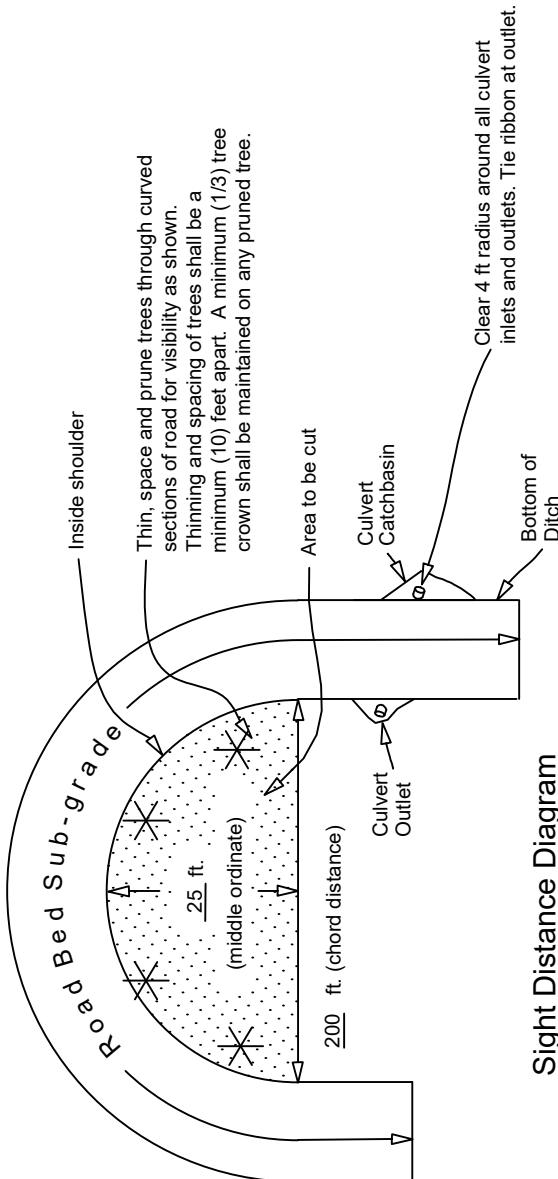
Pruning shall consist of trimming tree limbs within 1" of the trunk of all vegetation larger than 6" in diameter measured 54" from the ground and other vegetation while maintaining a minimum tree crown cover as described.

Thin, space and prune trees through curved sections of road for visibility as shown. Thinning and spacing of trees shall be a minimum (10) feet apart. A minimum (1/3) tree crown shall be maintained on any pruned tree.



Roadside Brushing Diagram

Inside Corner



Sight Distance Diagram  
Roadside Brushing

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All distances shown are horizontal except for V

REV.	NO.	DESCRIPTION	DATE	APPROV.

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD, OREGON

ROADSIDE BRUSHING DETAILS

DRAWN: JAB	SCALE: NONE
DATE: APRIL 2019	SHEET: 1 OF 1
DRAWING NO. ORM05-TS-2019-0012-C5	

Cutting Limit = C + D + B + F  
B = Road Bed Subgrade (includes turnouts)  
Cut all trees.

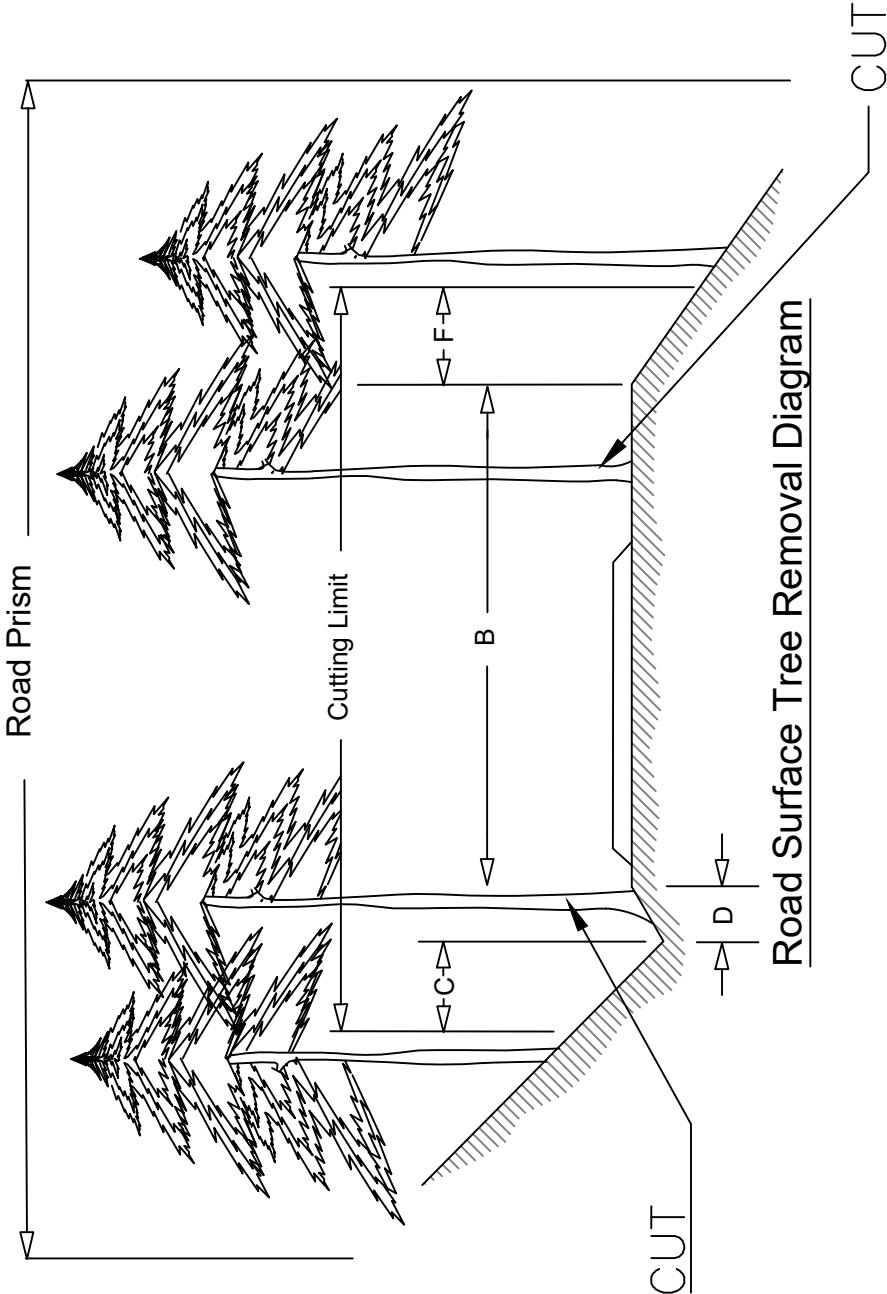
C = 2 ft - Distance to remove trees over 6" DBH on cut slope  
beyond centerline of ditch. Cut all trees.

D = Centerline of ditch to inside shoulder. Cut all trees.

F = 2 ft - Distance to remove trees over " DBH on fill slope beyond outside shoulder  
Cut all trees.

NOTES:

This diagram is for road number 32-1E-7.03  
from milepost 0.35 to milepost 0.57.  
Cut all non-merchantable and merchantable trees  
over 6" at DBH within the cutting limits.  
All stumps shall be grubbed. Stump holes shall be  
filled (if needed) with suitable material and  
compacted.



Road Surface Tree Removal Diagram

REV. NO.	DESCRIPTION	DATE	APPROV.

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD, OREGON

ROAD SURFACE TREE  
REMOVAL DETAILS

DRAWN: JAB	SCALE: NONE
DATE: APRIL 2019	SHEET: 1 OF 1
DRAWING NO. ORM05-TS-2019-12-C6	

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All distances shown are horizontal except for V

## Road Renovation Work List

**Renovation:** This consists of road work to be performed on the road prior to its use. The work includes, but not limited to; blading and/or rolling the road surface, cleaning ditches where needed, cleaning or enlarging catch basins and outlets, cleaning the entire barrel of all culverts, maintaining water dips (WDs), maintaining armored water dips (AWDs), spot rocking, slide removal, and constructing barricades. All drainage structures including culverts, and water dips shall be inspected and required work performed so that water flow is not impeded, and brought to the design standard as shown on the plans. Remove all down trees from roadways. Rock used for ford crossings on road numbers 32-1E-4.00, 32-1E-10.00, and 32-1E-23.00 shall be a clean, durable 4" rock. All rock conforming to Sections 900 and 1200 shall be commercial source.

**Roadside Brushing:** This consists of road work to be performed on the road prior to its use. The work includes, but is not limited to: brushing 4 horizontal feet from the centerline of the ditch and 4 horizontal feet from the outside shoulder of the road prism, removing brush within 4' of the inlet and outlet of CMPs, removing brush, limbs, and trees along the roadway to improve sight distance. Vegetation to be cut and disposed of will generally be 6 inches in diameter at breast height or less. Disposal from roadside brushing shall be lop and scatter. Debris shall not be allowed to accumulate in concentrations, but shall be further reduced or removed. Concentrations will be defined as any debris, limbs or branches touching each other or piled on top of each other or any material sticking up over 2 feet in elevation above the ground. Cut trees or debris shall not be allowed to stand or lean against other standing uncut trees or brush. Such "hang ups" shall be removed and scattered down slope. Debris shall be cut so that the length of limbs, downed pole, hardwoods, or brush does not exceed eight feet. Brush shall be cut to meet regular specifications in Section 2100. While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. All culvert inlets and outlets shall be brushed for a radius of 4 feet.

Jct. – Junction

AWD – Armored Water Dip

CMP – Corrugated Metal Pipe

PRR – Pit Run Rock

GRR – Grid Rolled Rock

DO – Ditch Out

PVT - Private

CY – Cubic Yards

WD – Water Dip

ASC – Aggregate Surface Course

BST – Bituminous Surface Treatment

NAT – Natural Surface Roads

WB – Water Bar

### **Road 32-1E-4.00**

#### **Segment A (PVT) NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. w/ 32-1E-10.00. Begin road renovation and roadside brushing.
0.10	Creek ford. Place 50 CY yards of a clean, durable 4" rock. Rock shall be placed to a minimum depth of 6", starting 50' from down-road side of ford, extending through ford and ending 50' up-road from the ford for the entire width of the road.
0.72	Construct temp route 9-1 right.

0.73 Large landing left. End road renovation and roadside brushing.

**Road 32-1E-7.01 (Hole in Rock TS Sp)**  
**(BLM) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-17.04.  
0.39 Jct. w/ 32-1E-7.02 right. Begin road renovation.  
0.48 Jct. w/ 32-1E-7.03 right.  
1.23 End road renovation.

**Road 32-1E-7.02 (Hole in Rock TS Sp)**  
**Segment A (BLM) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-7.01. Begin road renovation, roadside brushing, and chipping.  
0.45 Existing quarry. Existing BLM stockpile (300CY). Move BLM stockpile to milepost 0.41 on road number 32-1E-7.02 to allow use of quarry for a helicopter landing.  
0.60 End segment A. End road renovation, roadside brushing, and chipping.

**Road 32-1E-7.03 (Hole in Rock Spur)**  
**(BLM) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-7.01. Begin road renovation and roadside brushing.  
0.35 Jct. w/ private road right. Begin removing standing trees from road surface. Begin chipping.  
0.57 End road renovation, removing standing trees from road surface, roadside brushing, and chipping.

**Road 32-1E-8.01 (Gobblers Knob Short Sp)**  
**(BLM) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-9.01. Begin road renovation and roadside brushing.  
0.20 End road renovation and roadside brushing.

**Road 32-1E-9.01 (N Sp Timber Creek)**  
**Segment A (BLM) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-23.00. Begin road renovation and roadside brushing.  
0.02 Ditch out left.  
0.34 Property line (into PVT). End segment A.

**Segment B1 (BLM) ASC**

**MP Remarks**

0.34 Continue road renovation and roadside brushing.  
0.44 Property line (into BLM).  
0.80 Begin 1' ruts. Start scarification of ruts.  
0.99 Jct. w/ 32-1E-8.02 left. End segment B1.



**Segment B2 (BLM) ASC**

**MP Remarks**

- 0.99 Continue road renovation and roadside brushing.  
1.10 End 1' ruts. End scarification of ruts.  
1.23 Jct. w/ 32-1E-8.01 right. Construct helicopter landing. End segment B2.

**Segment C (PVT) NAT**

**MP Remarks**

- 1.23 Continue road renovation and roadside brushing. Begin chipping.  
1.64 Jct. w/ private road left.  
1.75 Property line (into PVT).  
1.80 Clear existing landing of vegetation. End road renovation and roadside brushing and chipping.

**Road 32-1E-9.04 (Gobblers Knob Cut Spur)**  
**(BLM) ASC**

**MP Remarks**

- 0.00 Jct. w/ 32-1E-9.00. Begin road renovation, roadside brushing, and chipping.  
0.09 Construct helicopter landing. Surface portion of helicopter landing with 100 CY of gradation A from Table 903 to an 8" compacted depth to help facilitate wet season use. Begin removing trees from road surface.  
0.32 End road renovation, removing standing trees from road surface, roadside brushing, and chipping.

**Road 32-1E-10.00 (Hawk Creek)**  
**Segment A (PVT) NAT**

**MP Remarks**

- 0.00 Jct. w/ 32-1E-23.00. Begin road renovation and roadside brushing.  
0.12 Jct. w/ private road right.  
0.26 Property line (into BLM). End segment A.

**Segment B (BLM) NAT**

**MP Remarks**

- 0.26 Continue road renovation and roadside brushing.  
0.37 Property line (into private). End segment B.

**Segment C (PVT) NAT**

**MP Remarks**

- 0.37 Continue road renovation and roadside brushing.  
0.41 Creek ford. Place 50 CY yards of a clean, durable 4" rock. Rock shall be placed to a minimum depth of 6", starting 50' from down-road side of ford, extending through ford and ending 50' up-road from the ford for the entire width of the road.  
0.64 Property line (into BLM). End segment C.

**Segment D (BLM) NAT**

**MP Remarks**

- 0.64 Continue road renovation and roadside brushing.  
0.72 Property line (into private). End segment D.

**Segment E (PVT) NAT**

**MP      Remarks**

- 0.72 Continue road renovation and roadside brushing.  
0.79 Creek ford. Place 50 CY yards of a clean, durable 4" rock. Rock shall be placed to a minimum depth of 6", starting 50' from down-road side of ford, extending through ford and ending 50' up-road from the ford for the entire width of the road.  
0.83 Jct. w/ 32-1E-4.00 left. End road renovation and roadside brushing.

**Road 32-1E-15.06    (Miller Mountain Spur)**  
**(BLM)    ASC**

**MP      Remarks**

- 0.00 Jct. w/ 32-1E-22.00. Begin road renovation, roadside brushing, and chipping.  
0.25 End road renovation, roadside brushing, and chipping.

**Road 32-1E-17.01    (Gobblers Spur)**  
**(BLM)    ASC**

**MP      Remarks**

- 0.00 Jct. w/ 32-1E-20.00. Begin road renovation and roadside brushing.  
0.03 Existing earth barricade. Replace after use.  
0.06 Existing water bar. Replace after use.  
0.08 Existing water bar. Replace after use.  
0.10 Existing water bar. Replace after use.  
0.13 Existing water bar. Replace after use.  
0.15 Property line (into private). End road renovation and roadside brushing.

**Road 32-1E-17.06    (Hole in Rock Spur)**  
**(BLM)    ASC**

**MP      Remarks**

- 0.00 Jct. w/ 32-1E-17.05. Begin road renovation.  
0.32 End road renovation.

**Road 32-1E-17.07    (Madrone Spur)**  
**(BLM)    NAT**

**MP      Remarks**

- 0.00 Jct. w/ 32-1E-20.00. Begin road renovation, roadside brushing, and chipping.  
0.05 Existing earth barricade. Replace after use.  
0.31 Construct helicopter landing.  
0.42 End road renovation, roadside brushing, and chipping.

**Road 32-1E-17.08    (Saddle Spur)**  
**(BLM)    NAT**

**MP      Remarks**

- 0.00 Jct. w/ 32-1E-17.04. Begin road renovation, roadside brushing, and chipping.  
0.14 Jct. w/ 32-1E-17.09 right. End road renovation, roadside brushing, and chipping.

**Road 32-1E-19.00    (West Flat)**

**(BLM) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-29.02. Begin road renovation, roadside brushing, and chipping.  
0.21 End road renovation, roadside brushing, and chipping.

**Road 32-1E-20.01 (Flat Creek Falls Mainline)**

**Segment A (Private) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-27.00. Begin road renovation, roadside brushing, and chipping.  
0.02 Jct. w/ 32-1E-20.02 left.  
0.63 Jct. w/ 32-1E-20.03 right. End segment A.

**Segment B (Private) ASC**

**MP Remarks**

0.63 Continue road renovation, roadside brushing, and chipping.  
1.07 Jct. w/ 32-1E-20.05 right.  
1.31 Property line (into BLM). End segment B. End road renovation, roadside brushing, and chipping.

**Segment C (BLM) ASC**

**MP Remarks**

1.81 Jct. w/ 32-1E-29.00 right.  
2.30 Jct. w/ un-numbered road left.  
2.71 Jct. w/ 32-1E-29.01 left.

**Road 32-1E-21.00 (Shell Creek)**

**Segment A (Private) NAT**

**MP Remarks**

0.00 Jct. w/ 32-1E-28.00. Begin road renovation.  
0.02 Property line (into BLM).  
0.14 Property line (into private). End segment A.

**Segment B (Private) NAT**

**MP Remarks**

0.14 Continue road renovation.  
0.84 Jct. w/ private road left. Begin brushing.  
1.15 Jct. with private road left and right. Construct helicopter landing on BLM. End road renovation and roadside brushing.

**Road 32-1E-22.00 (Miller Mountain Mainline)**

**Segment A (BLM) ASC**

**MP Remarks**

0.00 Jct. w/ 32-1E-28.00. Begin road renovation and roadside brushing.  
0.90 Jct. w/ private road left.  
1.09 Jct. w/ private road right. Begin chipping.  
1.35 End segment A.

**Segment B1 (Private) ASC**

**MP Remarks**

- 1.35 Continue road renovation, roadside brushing, and chipping.  
1.73 Jct. w/ 32-1E-15.00 left. End segment B.

**Segment B2 (BLM) ASC**

**MP Remarks**

- 1.73 Continue road renovation, roadside brushing, and chipping. Begin scarifying 1' ruts.  
2.01 Property line (into BLM). End segment B2.

**Segment C (BLM) ASC**

**MP Remarks**

- 2.01 Continue road renovation, roadside brushing, and chipping.  
2.07 Jct. w/ 32-1E-15.01 left.  
2.39 Jct. w/ 32-1E-15.02 left.  
2.45 End scarifying 1' ruts.  
2.59 Jct. w/ 32-1E-15.03 right.  
2.75 Jct. w/ 32-1E-15.06 right.  
2.87 End segment C.

**Segment D (BLM) ASC**

**MP Remarks**

- 2.87 Continue road renovation, roadside brushing, and chipping.  
3.14 End road renovation, roadside brushing, and chipping.

**Road 32-1E-23.00 (Sugar Pine – Timber Creek)**

**Segment A (BLM) BST**

**MP Remarks**

- 0.00 Jct. w/ Elk Creek County Road.  
0.02 Existing cattle guard.  
0.14 Jct. w/ spur left.  
0.19 Driveway right.  
0.21 Driveway right.  
0.33 Jct. w/ spur left.  
0.36 Driveway right.  
0.60 Driveway right.  
1.07 Driveway right.  
1.30 Driveway right.  
1.33 Jct. w/ 32-1E-11.00 right. End segment A.

**Segment B1 (BLM) BST**

**MP Remarks**

- 1.35 Existing cattle guard.  
1.80 Waste disposal site right.  
1.88 Jct. w/ FS 6610 (BLM Road #32-1E-11.04) right. End segment B1.

**Segment B2 (BLM) ASC**

**MP Remarks**

- 2.32 Property line (into private). End segment B2.

**Segment C (Private) ASC**

**MP Remarks**

- 2.44 Jct. w/ 32-1E-10.03 right (gated).

- 2.56 Jct. w/ 32-1E-10.02 left.
- 2.74 Private mega gate.
- 3.04 Jct. w/ 32-1E-10.00 right.
- 3.09 Jct. w/ 32-1E-10.01 left.
- 3.17 Property line (into BLM). End segment C.

**Segment D1 (BLM) ASC**

**MP Remarks**

- 3.17 Begin road renovation and roadside brushing.
- 3.65 Creek ford. Place 50 CY yards of a clean, durable 4" rock. Rock shall be placed to a minimum depth of 6", starting 50' from down-road side of ford, extending through ford and ending 50' up-road from the ford for the entire width of the road.
- 3.99 Jct. w/ 32-1E-09.01 right. End segment D1. End road renovation and roadside brushing.

**Road 32-1E-28.00 (Section 21 Spur)**

**Segment A1 (Private) ASC**

**MP Remarks**

- 0.00 Jct. w/ 32-1E-27.00. Begin road renovation.
- 0.12 Property line (into private). End segment A1.

**Segment A2 (Private) ASC**

**MP Remarks**

- 0.12 Continue road renovation.
- 0.43 Jct. w/ 32-1E-21.00 right. End segment A2. End road renovation.

**Road 32-1E-29.02 (West Flat Loop Spur)**

**Segment A (Private) ASC**

**MP Remarks**

- 0.00 Jct. w/ 32-1E-29.01. Begin road renovation, roadside brushing, and chipping.
- 0.02 Property line (into private).
- 0.37 Property line (into BLM). End segment A.

**Segment B1 (BLM) ASC**

**MP Remarks**

- 0.37 Continue road renovation, roadside brushing, and chipping.
- 0.81 Jct. w/ 32-1E-19.00 right and jct. w/ 32-1E-19.03 left. End segment B1.

**Segment B2 (BLM) ASC**

**MP Remarks**

- 0.81 Continue road renovation, roadside brushing, and chipping.
- 1.19 End road renovation, roadside brushing, and chipping.

**Road 32-1E-35.00 (Burnt Peak Mainline)**

**Segment A (BLM) ASC**

**MP Remarks**

- 0.00 Jct. w/ 33-1E-27.00. Begin road renovation.
- 0.07 Jct. w/ 32-1E-35.01 left.
- 0.58 Jct. w/ 32-1E-35.02 left.
- 0.75 Jct. w/ 32-1E-35.03 right.

- 1.27 Jct. w/ 32-1E-35.09 right.  
1.41 Property line (into private). End segment A.

**Segment B (BLM) ASC**

**MP Remarks**

- 1.41 Continue road renovation. Begin roadside brushing and chipping.  
1.54 Property line (into BLM).  
2.25 End road renovation, roadside brushing, and chipping.

**Road 32-1E-35.02 (Burnt Peak Spur)**

**Segment A (BLM) ASC**

**MP Remarks**

- 0.00 Jct. w/ 33-1E-35.00. Begin road renovation.  
0.26 Jct. w/ un-numbered road right. End road renovation.

**Road 32-1E-35.03 (Burnt Peak Spur)**

**(BLM) ASC**

**MP Remarks**

- 0.00 Jct. w/ 33-1E-35.00. Begin road renovation and roadside brushing.  
0.02 Jct. w/ un-numbered road right (barricaded).  
0.38 End road renovation and roadside brushing.

**Road 32-1W-12.00 (County Line TS Spur Left)**

**(BLM) ASC**

**MP Remarks**

- 0.00 Jct. w/ 32-1W-13.00.  
0.54 Jct. w/ 32-1W-12.03 right (overgrown).  
0.60 Jct. w/ 32-1W-12.01 right.  
1.14 Jct. w/ 32-1W-12.02 left. Begin road renovation.  
1.31 Jct. w/ 32-1W-13.03 left.  
1.54 Existing quarry left.  
2.00 Begin roadside brushing and chipping.  
2.32 End road renovation, roadside brushing, and chipping.

**Road 32-1W-23.02 (Wild Lily)**

**Segment A (BLM) ASC**

**MP Remarks**

- 0.00 Jct. w/ 32-1W-26.00. Begin road renovation.  
0.15 Jct. w/ 32-1W-23.06 left.  
0.89 Property line (into private).  
1.02 Jct. w/ private road right. End segment A.

**Segment B (Private) ASC**

**MP Remarks**

- 1.02 Begin roadside brushing.  
1.20 Jct. w/ 32-1W-24.00 right.  
1.45 Property line (into BLM).

- 1.68 Property line (into private). Construct helicopter landing. Surface portion of helicopter landing and access road with 150 CY of gradation A from Table 903 to an 8" compacted depth to help facilitate wet season use.
- 1.70 Jct. w/ private road right. End road renovation and roadside brushing.

**Road 33-1E-27.00 (Burnt Peak Road)**  
**Segment B (BLM) ASC**

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                              |
|------------------|----------------------------------------------------|
| 0.00             | Jct. w/ Takelma County Road.                       |
| 0.10             | Jct. w/ substation road left.                      |
| 0.16             | Substation left.                                   |
| 0.17             | Existing cattle guard.                             |
| 0.19             | Jct. w/ power line road left.                      |
| 1.22             | Jct. w/ 33-1E-23.00 left and right. End segment B. |

**Segment C (BLM) ASC**

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                                       |
|------------------|-------------------------------------------------------------|
| 1.22             | Jct. w/ 33-1E-23.00.                                        |
| 1.48             | Property line (into private).                               |
| 1.82             | Jct. w/ 33-1E-14.02 left and right (fenced). End segment C. |

**Segment D (BLM) ASC**

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                    |
|------------------|------------------------------------------|
| 1.82             | Jct. w/ 33-1E-14.02.                     |
| 1.99             | Property line (into Army Corp).          |
| 2.27             | Property line (into private).            |
| 2.55             | Jct. w/ road left.                       |
| 2.60             | Property line (into BLM).                |
| 2.65             | Jct. w/ 33-1E-11.02 left.                |
| 2.80             | Jct. w/ 33-1E-14.01 left. End segment D. |

**Segment E (BLM) ASC**

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                               |
|------------------|-----------------------------------------------------|
| 2.80             | Jct. w/ 33-1E-14.01.                                |
| 3.37             | Jct. w/ trailhead access road right. End segment E. |

**Segment F (BLM) ASC**

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                     |
|------------------|-------------------------------------------|
| 3.37             | Jct. w/ trailhead access road.            |
| 3.48             | Jct. w/ road powerline access road left.  |
| 3.49             | Jct. w/ 33-1E-11.01 right. End segment F. |

**Segment G (BLM) ASC**

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                        |
|------------------|----------------------------------------------|
| 3.49             | Jct. w/ 33-1E-11.01 right.                   |
| 4.05             | Property line (into private). End segment G. |

**Segment H (Private) ASC**

- | <b><u>MP</u></b> | <b><u>Remarks</u></b>                    |
|------------------|------------------------------------------|
| 4.12             | Property line (into BLM). End segment H. |

**Segment I (BLM) ASC**

**MP**   **Remarks**

4.19   Jct. w/ 33-1E-2.00 left. 4.30 Property line (into private). End segment I.

**Segment J (Private)   ASC**

**MP**   **Remarks**

4.88   Jct. w/ private road left.

5.23   Property line (into BLM). End segment J.

**Segment K (BLM)   ASC**

**MP**   **Remarks**

5.35   Jct. w/ private road left.

5.58   Jct. w/ 32-1E-35.00 left. End segment K.

**Segment L (BLM)   ASC**

**MP**   **Remarks**

5.67   Jct. w/ 32-1E-35.04 right (barricaded).

5.82   Jct. w/ 32-1E-35.05 right (barricaded).

5.99   Jct. w/ 32-1E-35.06 left (barricaded).

6.07   Jct. w/ 32-1E-13.00 right. End segment L.

**Segment M (BLM)   ASC**

**MP**   **Remarks**

6.07   Begin road renovation and roadside brushing.

6.93   End segment M.

**Segment N (BLM)   ASC**

**MP**   **Remarks**

6.93   Continue road renovation and roadside brushing.

7.35   Jct. w/ un-numbered road right (barricaded). End segment N.

**Segment O (BLM)   ASC**

**MP**   **Remarks**

7.35   Continue road renovation and roadside brushing.

7.78   End road renovation and roadside brushing.



## **MPLES SALVAGE TIMBER SALE**

### **Road Construction Work List**

#### **Temp Route 9-1a      T32S-R01E-Sections 4 & 9   NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. w/ 32-1E-04.00. Begin temp route construction. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
0.04	Property line (into BLM).
0.05	Jct. w/ temp route 9-1b left (to be constructed).
0.11	End temp route construction.

#### **Temp Route 9-1b      T32S-R01E-Section 9   NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. w/ temp route 9-1a. Begin temp route construction. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
0.02	End temp route construction.

#### **Temp Route 17-1      T32S-R01E-Section 17   NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. w/ 32-1E-17.01. Begin temp route construction. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
0.13	End temp route construction.

#### **Temp Route 13-5a      T32S-R01W-Section 13   NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. w/ 32-1W-23.02. Begin temp route construction. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
0.09	End temp route construction.

#### **Temp Route 13-5b      T32S-R01W-Section 13   NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. w/ 32-1W-23.02. Begin temp route construction. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
0.08	Construct helicopter service landing at end of road. End temp route construction.

#### **Temp Route 13-5c      T32S-R01W-Section 13   NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. w/ temp route 13-5b. Begin temp route construction. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
0.04	End temp route construction.

#### **32-1E-15.07 (BLM)   NAT**

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Jct. with 35-1E-12.00. Begin new construction. Road shall be barricaded and water barred after use (See Exhibit D-3; Road Decommissioning Work List for details).
0.12	Construct helicopter landing at end of road. End new construction.

## **TIMBER SALE ROAD SPECIFICATIONS**

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**GENERAL – 100**

101 - Prewrite Conference(s):

A prework conference will be held prior to the start of new construction, improvement, and renovation operations. The Purchaser shall request the conference at least 72 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representative(s), subcontractor(s) and/or his or their representative(s) and the Authorized Officer and/or his representative(s).

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

102 - Definitions:

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

Abrasion Resistance - The ability of a fabric surface to resist wear by friction.

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management.

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

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

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

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

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

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

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

Grab Tensile Strength - A modified tensile strength of a geotextile material. The strength of a specific width of geotextile material together with the additional strength contributed by adjacent areas. Typically, grab strength is determined on a 12-inch-wide strip of geotextile material, with the tensile load applied at the midpoint of the geotextile material width through 1-inch-wide jaw faces.

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

Nonwoven Geotextile Material - A textile structure produced by bonding or interlocking of fibers, or both, accomplished by mechanical or chemical means.

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

Penetration Resistance - The geotextile material property determined by the force required to penetrate a geotextile material with a sharp pointed object. Initial penetration is by separating the fibers. Further penetration is essentially a tearing process.

Percent Open Area - The net area of a geotextile material that is not occupied by geotextile material filaments, normally determinable only for woven and nonwoven geotextile material having distinct, visible, and measurable openings that continue directly through the geotextile material.

Permeability - The geotextile material property which permits water to be transmitted in the longitudinal or transverse planes of the geotextile material.

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

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

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

Pore Size - The size of an opening between geotextile material filaments; apparent opening size (AOS) is used to quantify this geotextile material property.

Puncture Resistance - The geotextile material property determined by the force required to penetrate a geotextile material with a blunt object. Failure results in a tearing of the geotextile material.

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

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

Reinforcement - Strengthening of concrete with iron bars or mesh: geotextile with geotextile material inclusion: subgrade with aggregate: etc.

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

Scarification - The process of loosening or breaking up of the surface layer of

soil or road, usually to a specified depth.

Separation - Function of geotextile material as a partition between adjacent materials to prevent mixing of those materials.

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

Spalls - Flakes or chips of stone.

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

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

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

Subbase - Reinforcement of the subgrade with large particles of pitrun rock or crushed stone. Usually confined to roads having wet subgrades or subgrades with weak support characteristics.

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

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

Tensile Strength - The strength shown by a geotextile material subjected to tension as distinct from torsion, compression, or shear.

Tensile Stress - Strain Modulus - A measure of the resistance to elongation under stress. The ratio of the change in tensile stress to the corresponding change in strain.

Tensile Test - A test which subjects geotextile material to tensile forces and measures resultant stresses and strains.

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

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

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

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

Ultraviolet (UV) Radiation Stability - The ability of geotextile material to resist deterioration from exposure to sunlight.

Unaged Cloth - Cloth in condition received from the manufacturer or distributor.

Woven Geotextile Material - A textile structure comprising two or more sets of filaments of yarns interlaced in such a way that the elements pass each other at essentially right angles with one set of elements parallel to the geotextile material axis.

102a - Tests Used in These Specifications:

<u>AASHTO T 11</u>	Quantity of rock finer than No. 200 sieve.
<u>AASHTO T 27</u>	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
<u>AASHTO T 89</u>	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
<u>AASHTO T 90</u>	Plastic limits and plasticity index of soil. a. Plastic limit - lowest water content at which the soil remains plastic. b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
<u>AASHTO T 96</u>	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
<u>AASHTO T 99</u>	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56

blows/layer & 3 layers.

<u>AASHTO T 119</u>	Slump of hydraulic cement concrete.
<u>AASHTO T 152</u>	Air content of freshly mixed concrete.
<u>AASHTO T 166</u>	Specific Gravity of compacted Bituminous Mixtures.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
<u>AASHTO T 180</u>	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.
<u>AASHTO T 191</u>	<u>Sand Cone.</u> Density of soil in place: For subgrade use 6-inch or 12- inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
<u>AASHTO T 205</u>	<u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil.
<u>AASHTO T 209</u>	Maximum Specific Gravity of Bituminous Paving Mixtures.
<u>AASHTO T 210</u>	Durability of aggregates based on resistance to produce fines.
<u>AASHTO T 224</u>	Correction for coarse particles in the soil.
<u>AASHTO T 238</u>	Density of Soil and Soil-Aggregate in place by nuclear methods.
<u>AASHTO T 248</u>	Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
<u>ASTM D 4564</u>	Determination of relative density of cohesionless soils.
<u>DMSO (dimethyl sulfide)</u>	Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

- 103 - Compaction equipment shall meet the following requirements:
- 103b - Sheepfoot rollers. A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less



than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7 inches from the face of the drums.

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

The weight of the tamping-roller unit shall be such as to exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet, and the roller shall be so designed that the weight may be increased to exert a pressure up to 500 pounds per square inch on the ground area in contact with the tamping feet. The ground pressure shall be determined by dividing the total weight of the roller unit, not including the weight of the tractor, by the total cross-sectional area of the tamping feet in one row of tamping feet parallel to the axis of the roller.

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

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

- 103g - Vibratory compactor. Vibratory compactors shall consist of multiple or gang- type compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.
- 103h - Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.

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

**CLEARING AND GRUBBING - 200**

- 201 - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans and as staked on the ground.
- 202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202, as shown on the plans, and as staked on the ground.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204c, and 204d.
- 204a - Stumps including those overhanging cut banks, shall be removed within the required excavation limits.
- 204c - On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 204d - On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.
- 204e - Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- 206 - Clearing and grubbing debris shall be disposed of by scattering in accordance with

Subsection 210 and/or piling in accordance with Subsection 211 and at the following road locations.

Road No.	From M.P.	To M.P.	Disposal Method
32-1E-7.03	0.35	0.57	Pile
32-1E-9.01	1.23	1.23	Pile
32-1E-9.04	0.09	0.09	Pile
32-1E-17.07	0.31	0.31	Pile
32-1E-21.00	1.15	1.15	Pile
32-1E-15.07	0.00	0.12	Pile
Temp Route 9-1a	0.00	0.11	Scatter
Temp Route 9-1b	0.00	0.02	Scatter
Temp Route 13-5a	0.00	0.09	Scatter
Temp Route 13-5b	0.00	0.08	Scatter
Temp Route 13-5c	0.00	0.04	Scatter
Temp Route 17-1	0.00	0.13	Scatter

- 206a - Notwithstanding Subsections 204, 204a, 204d, and 205, clearing and grubbing debris resulting from landing construction as shown on Exhibit C-2, shall be placed at disposal sites and shall not be covered with excavated material. Location of disposal sites will be determined by the Authorized Officer.
- 208b - Trees, firm logs, and other firm large pieces, 4 inches in diameter and 8 feet in length and larger and not removed from the contract area by the Purchaser, shall be piled at locations determined by the Authorized Officer.
- 210 - Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 210a - Disposal of clearing and grubbing debris on non-government property by scattering this material outside of clearing limits will be permitted provided the Purchaser obtains a written permit from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the permit and a written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.
- 211 - Disposal of clearing and grubbing debris and stumps and cull logs shall be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.
- 212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may

proceed with the excavation of the road prism.

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

**EXCAVATION AND EMBANKMENT - 300**

- 301 - This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 302 - Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.
- 303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 304 - Borrow shall consist of suitable material required for the construction of embankments or for other portions of the work; such material shall be obtained from sources selected by the Purchaser at his option and approved by the Authorized Officer.
- 305 - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.
- 305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.

- 306 - Layers of embankment and selected roadway excavation material as specified under Subsections 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f, 103g, 103h, and 103i.
- 306e - The final subgrade excluding landings shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f, 103g, 103h, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 8 stations of road or a fraction of as measured along the center line of the constructed road. Landings shall be compacted by routing construction equipment over full width.
- 306g - All fill slopes shall be compacted to 75 percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 308 - In the case of rock fills, placement of material in layers is not required and such material may be placed by end-dumping or other methods approved by the Authorized Officer provided that the rock be reasonably prevented from escaping beyond the embankment toe.
- 309 - The top of cut slopes shall be rounded by blending into the adjacent terrain for a distance not less than 1 foot and not more than 3 feet beyond the top of the cut. Rounding shall be performed in soils that can be shaped without ripping or blasting.
- 314 - When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 316 - Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.
- 317 - Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics from sources shown on the plans.
- 318 - Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed 6 inches in depth until the required thickness shown on the plans is attained.

Each layer shall be uniformly moistened or dried to the optimum moisture content

suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

- 320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- 321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- 321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- 323 - In the construction of channel changes and stream-crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.
- 324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 327 - The finished grading shall be approved in writing by the Authorized Officer the total project. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations and start of surfacing operations.
- 328 - The Purchaser shall adopt methods and procedures in using explosives, which will prevent damage to adjacent landscape features, and which will minimize scattering rocks and other debris outside the road prism.
- 328a - The Purchaser shall establish and be responsible for blasting techniques and shall furnish the Authorized Officer, prior to starting drilling operations, a blasting plan specifying drill-hole diameter, drill-hole spacing, depth of drilling, type of explosive to be used, loading pattern, sequence of firing, the location where the plan is to be used, and other relevant data. Acceptance of the drilling and blasting plan does not relieve the Purchaser of responsibility or liability for the results of the blasting.

#### **RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500**

- 501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches,

trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans, and as marked on the ground with stakes.

- 502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes and as specified in the worklist.
- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 504 - Existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f, 103g, 103h, and 103i and as specified in the worklist.
- 504a - Minimum compaction required shall be 1 hour of continuous rolling for each 10 stations of road, or fraction thereof, as measured along the centerline per layer of material.
- 506 - The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of all pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans. All culvert barrels shall be cleaned of debris.
- 508 - Vegetation encroaching on the roadbed, drainage ditches, and culvert inlets and outlets on existing roads shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.
- 509 - The finished grading shall be approved in writing by the Authorized Officer 3 days prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of the grading operations.

#### **WATERING - 600**

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

locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods.

- 603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the road bed.
- 605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of water sources selected by the Purchaser and approved by the Authorized Officer.

**AGGREGATE BASE COURSE - 900**  
**SCREENED ROCK MATERIAL**

- 901 - This work shall consist of furnishing (commercial source), hauling, and placing one or more lifts of screened rock material on roadbeds and landings approved for placing screened rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans.
- 902a - Screened rock materials to be used in this work may be obtained from a commercial source selected by the Purchaser, at his option, providing the rock materials furnished comply with these specifications and the sources are approved in writing by the Authorized Officer prior to use.
- 903 - Screened rock material shall conform to the following gradation requirements:

Table 903

**SCREENED ROCK MATERIAL GRADATION REQUIREMENTS**

Percentage by Weight Passing Square Mesh Sieves  
(AASHTO T 27)

Sieve Designation	Gradation			
	A	B	C	D
4 inch	<b>100</b>			
3 inch	<b>95-100</b>	100		
2 inch		95-100	100	



1-1/2 inch			95-100	100
1 inch				95-100
No. 4	<b>11-44</b>	16-49	21-54	26-59
No. 200	<b>2-15</b>	2-15	0-15	0-15

- 904 - Screened rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions as determined by AASHTO T 96.
- 904a - Screened rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.
- 905 - The roadbed as shaped and compacted under sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of screened rock materials. Notification for final inspection, prior to rocking, shall be 72 hours prior to that inspection and shall be 5 days prior to start of rock operations.
- 906 - Screened rock material shall be placed in layers not to exceed 6 inches in thickness. Where the required total thickness is more than 6 inches, the rock material shall be shaped and compacted in two or more layers of approximately equal thickness.
- 906a - Screened rock materials used to repair or reinforce a soft, muddy, frozen, yielding, or rutted subgrades shall not be construed as surfacing under this specification.
- 907 - Filler or binder material obtained from sources shown on the plans and approved by the Authorized Officer shall be uniformly blended with the screened rock material on the road. Filler or binder materials shall be free from stones, vegetative matter, and other deleterious materials.
- 908 - Screened rock material shall be blade-processed and spread to required dimensions. Processing shall be performed in such a manner as to minimize aggregate segregation.
- 910 - Screened rock material, bladed and shaped as specified, shall be moistened or dried to optimum moisture content for maximum compaction and compacted to full width by compaction equipment conforming to the requirements of Subsections 103f, 103g, 103h, and 103i. Minimum compaction shall be 6 passes over each full-width layer, or fraction thereof.

**EROSION CONTROL - 1700**

- 1701 - This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.
- 1704 - The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.
- 1705 - The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 21,780 square feet (0.50 acres) after October 15 without prior approval by the Authorized Officer.
- 1706 - The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right-of-way shall not exceed 21,780 square feet (0.50 acres) after October 15 without prior approval by the Authorized Officer.
- 1707 - Completed and partially completed segments of roads at the following locations:

Road No.	From M.P.	To M.P.
32-1E-15.07	0.00	0.12
Temp Route 9-1a	0.00	0.11
Temp Route 9-1b	0.00	0.02
Temp Route 13-5a	0.00	0.09
Temp Route 13-5b	0.00	0.08
Temp Route 13-5c	0.00	0.04
Temp Route 17-1	0.00	0.13

carried over the winter and early spring periods shall be stabilized by seeding and mulching in accordance with Section 1800.

- 1708 - Newly constructed roads to be carried over the winter period, shall be blocked to vehicular traffic.
- 1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

**SOIL STABILIZATION – 1800**

- 1801 - This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications. This work is required for road acceptance under Section 18 of this contract.
- 1802a - Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, landings, disturbed areas, and disposal sites in accordance with these specifications and as shown on the plans.
- 1803 - Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal periods:

From: August 1	To: October 31 (of the same year )
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If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Subsection 1707 and then complete the requirements of Section 1800 the next construction season. The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

- 1803a - The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.
- 1806a - Additional soil stabilization work consisting of seeding and mulching, may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 1808 - Mulch materials conforming to the requirements of Subsection 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1812.
- 1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.
- 1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

- 1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.
- 1811 - The Purchaser shall furnish and apply to approximately **4.60 acres** designated for treatment as shown on the plans (and as specified under Subsections 1802a and 1806a, a mixture of grass seed and mulch material at the following rate of application:

a. Two Stage:

Grass Seed	20 lbs./acre
Mulch	3,000 lbs./acre

The above proportion and application rate are subject to adjustment by the Authorized Officer during the application operation.

- 1812 - The Purchaser shall furnish and apply to the area designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806a, a mixture of grass seed and mulch, material at the application rate to be determined by the Authorized Officer based on visual observation of trial applications.

Mulches shall be spread/placed in treatment areas to a depth of 2 inches to allow seed germination or as directed by the Authorized Officer. Treatment area will be covered evenly and completely. Mulch can be broadcast onto the soil surface by hand or with hand/mechanical operated spreaders.

- 1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.
- 1815 - The seed and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 1815b.
- 1815b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipacker seeders, fertilizer spreaders, or other approved mechanical seeding equipment may be used when seed and fertilizer are to be applied in dry form.
- 1819 - The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- 1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.

- 1822 - No materials shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

### **ROADSIDE BRUSHING - 2100**

- 2101 - This work shall consist of the removal of vegetation from the road prism - variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet (C-5) of this exhibit, at designated locations as shown in the plans.
- 2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.
- 2103 - Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at D.B.H. shall be cut to a maximum height of 3 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs below the 2 inch area will be severed from the trunk.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. Limbs below the 1 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- 2104 - Trees in excess of 6 inches in diameter at D.B.H. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the running surface shall be cut, to within 1 inches of the trunk to produce a smooth vertical face.
- 2106 - Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- 2107 - Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a

middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot in height, shall be cut within these areas.

- 2108 - Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 - Debris resulting from this operation shall be scattered (unless otherwise noted in the work list as chipped) downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.
- 2110 - Vegetation 6 inches and smaller in diameter shall be chipped where indicated in the work list. Chips shall be scattered downslope from the roadway. Vegetation over 6 inches in diameter shall be disposed of by direction of the Authorized Officer.
- 2114 - Sections of roadway to have vegetation removed will be marked at start and stop points with red-topped painted stakes.
- 2115 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2116 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

## SPECIAL PROVISIONS

1. **CULVERTS / CMPs:**
  - When removing culverts unless constructing armored water dips, pull slopes back to the natural slope, or at least 2:1, to minimize sloughing, erosion, and the potential for the stream to undercut stream banks during periods of high stream flows. Remove excess sediment from stream channels during culvert removal, replacement, and installation activities. Apply seed and mulch to all disturbed or exposed soils at each stream culvert removal site.
2. **DAMAGE:**
  - The contractor shall protect and is responsible for any damage to existing telephone lines, transmission lines, fiber optic lines, fences, ditches, and other existing improvements as required in Section 14. Damage to utilities and existing improvements shall be promptly paid for or repaired to a condition which is, in the opinion of the Authorized Officer and the governing utility company, at least as good as the condition just prior to such damage.
3. **DUST ABATEMENT:**
  - The application of dust abatement materials such as Lignin, Mag-chloride, or approved petroleum based dust abatement products shall be restricted from application just after severely wet weather, at stream crossings, or other locations that could result in direct delivery to a water body.
  - All dust abatement applications shall be approved by the Authorized Officer prior to application.
4. **WATER SOURCE:**
  - The Purchaser is responsible for obtaining water and associated rights and permits.
5. **PERMITS:**
  - All permits required are the responsibility of the Purchaser.
6. **EQUIPMENT**
  - Construction equipment shall be washed prior to entering BLM lands. Removal of all dirt, grease, and plant parts that may carry noxious weed seeds or vegetative parts is required. Equipment shall be inspected by CO prior to entering BLM lands. Provide 48 hours' notice of inspection to BLM prior to mobilization.
7. **SOIL STABILIZATION:**
  - All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and certified weed free straw mulch for soil stabilization operations. The Purchaser shall supply native seed and certified weed free straw. Native seed and certified weed free straw may be purchased from the BLM, if available.
8. **ROAD RENOVATION:**

- Road renovation shall generally take place between May 15<sup>th</sup> and October 15<sup>th</sup> of the same year. Waivers may be granted from the Authorized Officer for working outside of this time period. Seasonal restrictions for stream work and wildlife may still apply.
- Loose material cleaned from ditch lines and/or slide material shall not be sidecast or placed where it can enter wetlands, riparian reserves, floodplains, and waters of the State.
- Work on in-stream fords on Road Numbers 32-1E-4.00 (M.P. 0.10), 32-1E-10.00 (M.P. 0.41), and 32-1E-23.00 (M.P. 3.65) shall be between June 15 and September 15 of the same year.
- Haul through in-stream fords on Road Numbers 32-1E-4.00 (M.P. 0.10), 32-1E-10.00 (M.P. 0.41), and 32-1E-23.00 (M.P. 3.65) shall be between June 15 and September 15 of the same year.

9. STREAMS:

- All in-stream work shall be done from June 15 thru September 15 both days included.
- Construct silt fences 25 and 50 feet below culvert replacement sites (on live streams) to trap sediment and prevent it from entering nearby stream channels.
- Live streams shall be diverted around or through the work area in a manner that will minimize sedimentation downstream. Keep excavation site dewatered so that installation of culverts can be carried out only under dry conditions. Dispose of excess water by using natural drainage ways or devices near the site to the extent of their natural capacity and in a manner that will avoid damage to adjacent property. Utilize dewatering methods such as temporary sediment traps and/or silt fences for areas to be excavated. Provide for downstream water flow without significant transport of excavated material or sediment during construction. At no time shall turbidity limits exceed DEQ's water quality standards.
- Ensure that all large wood is retained in the stream channel during culvert cleaning activities by moving logs which had accumulated on the stream side of a culvert to the downstream side of the culvert.

10. TEMPORARY ROUTES

- All temp routes and native surfaced roads (that were previously closed before timber sale activities began) shall be winterized if access is needed over two dry seasons by October 15<sup>th</sup>. Winterization includes water barring, seeding, mulching, and barricading. All temp routes shall be ripped, water barred, barricaded, seeded, and mulched after use unless otherwise specified.
- Clearing, grubbing, and excavation activities of temporary spur routes shown on Exhibit C shall be performed in accordance with Exhibit C-9.
- Construction of temporary spur routes shall be to minimum width.

11. COMMERCIAL AGGREGATE

- Aggregate furnished for this work shall be from an accredited weed free quarry or shall have been stockpiled in the period between November 1<sup>st</sup> and June 15<sup>th</sup> immediately prior to application. Aggregate which has been stockpiled between June 16<sup>th</sup> and October 31<sup>st</sup> of prior years will not be accepted. Aggregate crushed between June



16<sup>th</sup> and October 31<sup>st</sup> of the same application year shall not be stockpiled for more than two weeks before application.

12. WILDLIFE RESTRICTIONS

- Seasonally restrict roadside brushing and heavy equipment use for the following roads:

Road Number	Segment	Starting M.P.	Ending M.P.	Starting Seasonal Restriction	Ending Seasonal Restriction
32-1E-18.00	A-B	0.52	0.75	January 1	August 15
32-1W-12.00		0.10	2.32	January 1	August 15
32-1W-13.00	A	0.00	0.47	January 1	August 15
32-1W-13.00	B	2.08	2.39	January 1	August 15
32-1W-23.02	A-B	0.00	1.70	January 1	August 15
32-1W-26.00	C	1.20	1.38	March 1	June 30
32-1W-26.00	C	1.38	1.64	January 1	August 15
32-1W-26.00	C	1.64	2.26	March 1	June 30
32-1W-26.00	C	2.26	2.66	January 1	August 15
33-1E-17.00	B-C	1.64	1.97	March 1	June 30
33-1E-17.00	C	2.56	3.34	March 1	June 30
33-1E-27.00	D-E	2.38	3.14	March 1	June 30

- Wildlife seasonal restrictions may be waived if nesting is not determined by the wildlife biologist.

13. WET SEASON HAUL

- The Purchaser may wet season haul, with the Authorized Officer's approval on the following roads 32-1E-7.01, 32-1E-7.02, 32-1E-17.04 A, 32-1E-17.05 A1-A2, 32-1E-18.00 A (portion), 32-1E-20.00 A-D, 32-1E-23.00 A-D1 (portion), 32-1E-27.00 A-E, 32-1W-23.02 A-B, 32-1W-26.00 A-C, 33-1E-17.00 A-D, and the 33-1E-27.00 B-O. If the use of these roads during the wet season causes or begins to cause road damage or the transport of sediment into streams, the Authorized Officer may suspend wet season haul or require additional erosion control devices to prevent damage or off-site transportation of sediment. Additional rock may be required at the Purchaser's expense to repair any damage that occurs to the road during wet season haul.
- The Purchaser shall have the option to rock road numbers 32-1E-7.03, 32-1E-9.00 A1-A3, 32-1E-9.04, 32-1E-10.01 A-B2, 32-1E-18.00 A-B, 32-1E-19.00, 32-1E-20.01 A-C, 32-1E-22.00 A-D, 32-1E-23.02 A-B, 32-1E-29.01 A1-A2, 32-1E-29.02 A-B2, 32-1E-35.00 A-B, 32-1E-35.01, 32-1E-35.02 A, 32-1E-35.03, 32-1W-12.00, 32-1W-12.01, and the 32-1W-13.00 A-B for wet weather haul. Purchaser option rocking depths will be determined and approved by the Authorized Officer. Any costs for rocking and installation of additional drainage features will be at the

Purchaser's expense and shall be completed in accordance with the plans and specifications show in Exhibit C of this contract.

14. HELICOPTER LANDING CONSTRUCTION

- All helicopter landings shall be constructed with a minimum 2% grade to allow for drainage. Landings may either be outsloped or crowned. Helicopter landings that are built on one or both sides of an existing road shall be outsloped a minimum of 2% away from the existing road to allow for drainage.
- The helicopter landing to be constructed on the 32-1E-9.04 road shall be partially rocked with 100 CY of 4" minus aggregate to help facilitate wet season operations. The helicopter landing to be constructed on the 32-1W-23.02 road shall be partially rocked with 150 CY of 4" minus aggregate to help facilitate wet season operations. The rocking shall be placed in a manner for the loaders to walk back and forth on and to allow for loading of trucks.

## **ROAD MAINTENANCE SPECIFICATIONS**

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**GENERAL - 3000**

- 3001 - The Purchaser shall be required to maintain all roads as shown on the Exhibit D-2 maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3001a - The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3403, 3404, 3405b, and 3406.
- 3002 - The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
- 3003 - The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 - The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non- cleanup of the road prism shall not exceed the sum of one (1) mile at any time.

Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

**OPERATIONAL MAINTENANCE - 3100**

- 3101 - The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3103 - The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 - The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a - Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.

- 3104b - The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.

Prior to removal of any slough or slide material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.

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

- 3105 - The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.

- 3106 - The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

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

- 3107 - The Purchaser shall cut or trim trees and brush which obstructs vision or prevents the safe passage of traffic along the traveled way when directed by the Authorized Officer.

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be by scattering below the road in accordance with Section 2100 of Exhibit C.

- 3108 - The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway.

Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.

- 3108a - The Purchaser shall perform logging operations on gravel and/or bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish oil, asphalt, gravel for necessary repairs at designated locations. Repair of the roads is not considered maintenance and shall be repaired at the Purchaser's expense.

#### **SEASONAL MAINTENANCE - 3200**

- 3201 - The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- 3202 - The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 15 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the proceeding operating seasons.
- 3203 - The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.
- 3204 - The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

#### **FINAL MAINTENANCE - 3300**

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

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

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

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

#### **OTHER MAINTENANCE - 3400**

- 3401 - The Purchaser shall repair any damage to road surfaces that was specified under Subsections 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.
- 3402 - The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

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

- 3403 - The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one-half gallon per yd<sup>2</sup> of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds<sup>3</sup> of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd<sup>2</sup> when a specified lesser rate is approved by the Authorized Officer.

The following roads shall be watered:

Road Number	From M.P.	to M.P.
32-1E-23.02 A-B	0.00	0.69
32-1E-27.00 A-B	0.47	2.21
33-1E-27.00 B-H	0.00	4.19

The Purchaser shall secure any necessary water permits and pay all required water fees for use of the water sources selected by the Purchaser and approved by the Authorized Officer.

During drought periods when the transportation of water from the source to the roads noted above exceeds 15 miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering based on equipment rental rates from the current BLM Road Cost Guide.

- 3404 - The Purchaser may at his option and expense substitute lignin sulfonate, for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.
- 3405b - The Purchaser shall notify affected residents along the roads to be treated of the planned application of lignin sulfonate dust palliatives at least 5 days prior to the work. Warning signs shall be posted at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within 15 days of treatment.
- 3406 - Prior to the application of lignin sulfonate dust palliatives, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must have 1/2 to 1 inch of relatively loose material and be visibly moist and drying.
- 3406b - A light application of water to promote penetration shall be made in advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.
- 3406c - The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.
- 3407 - The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the lignin sulfonate dust palliatives material requirements specified under Subsection 3412b. Commercial certification includes



the date, identification number of truck or trailer, net mass, and brand name with each shipment. Also provide the net volume and specific gravity at 60 degrees F, percent solids by mass, and PH.

- 3408 - Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.
- 3409 - The Purchaser shall notify the Authorized Officer a minimum of 7 days in advance of application of required dust palliative.
- 3410 - The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.
- 3411 - Required lignin sulfonate dust palliatives shall only be applied when the atmospheric temperature is 45° F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.
- 3412 - The Purchaser shall apply to the prepared roadbed specified under Subsection 3405b, a lignin sulfonate dust palliative conforming to the material requirements of Subsection 3412b. The rate of application shall be 0.5 gallons per yd<sup>2</sup> surface.

Applied materials not penetrating the road surface shall be blade mixed with additional water into the top 1 to 1½ inches of the surfacing at the Contractor's expense.

- 3412a - If required, the lignin sulfonate shall be field diluted within the application vehicle and be circulated at least 5 minutes to assure mixing. An air gap shall be provided between any water source and the materials being diluted. Accidental spills shall be contained to prevent entry in water courses or ponded water. The surface of adjacent structures and trees shall be protected from spattering or marring.

A wetting agent may be used in addition to the certified compound or mixed with the road surface preparation watering. A mix of less than 1:6000 is recommended.

Water used to dilute lignin sulfonate concentrate shall be clean and free of oil, salt, acid, alkali, vegetable matter, or any other substance that contaminates the finished product.

- 3412b - Specifications for Lignin Sulfonate:

Lignin sulfonate shall be the chemical residue produced as a byproduct of the acid sulfite pulping process and supplied as a water solution. The base cation shall be ammonia, calcium, or sodium. The product shall be water soluble to allow field

dilution. Dilute with water until the mixture contains a minimum 48 percent concentration with the following properties:

Solids	50%
Specific gravity	1.25
PH, AASHTO T289	4.5 min.

Ensure that the material does not exceed the following chemical constituents:

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm
chromium	0.50 ppm
cadmium	0.20 ppm
barium	10.00 ppm
selenium	5.00 ppm
zinc	10.00 ppm

Apply when the ambient air temperature is 45° F or above.

#### **DECOMMISSIONING – 3500**

- 3501 - Work includes subsoiling and installing water bars, placement of soil stabilization material, placement of slash, and blocking road from access by vehicles. This work is required for road acceptance under Section 18 of this contract.
- 3503 - Decommissioning shall be performed on existing roads in accordance with these specifications, and as shown on the plans at the following locations:

Road No or Site	From M.P.	To M.P.	Decommission or Obliterate
32-1E-17.01	0.00	0.15	Decommission
32-1E-17.07	0.00	0.42	Decommission
32-1E-15.07	0.00	0.12	Decommission
Temp 9-1a	0.00	0.11	Decommission

Temp 9-1b	0.00	0.02	Decommission
Temp 13-5a	0.00	0.09	Decommission
Temp 13-5b	0.00	0.08	Decommission
Temp 13-5c	0.00	0.04	Decommission
Temp 17-1	0.00	0.13	Decommission

- 3504 - Decommissioning work shall be completed after road use. All decommissioning work shall be performed during the following seasonal periods:

From: August 1	To: October 15 (of the same year)
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- 3506 - Stockpiled slash shall be used to protect exposed areas created by the Purchaser's decommissioning operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. All slash stockpiles created by the purchaser shall be utilized for decommissioning operations. Where slash is not available or no longer available, exposed soil areas shall be stabilized in accordance with Section 1800.
- 3508 - Protect areas mulched and treated with slash placement from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.
- 3509 - Access shall be blocked with barricades as shown on the Drainage and Erosion Control Detail Sheet Exhibit D-5 and at locations as shown on Exhibits D-3 and D-4.
- 3511 - Ripping, subsoiling, and/or water barring shall be done on designated roadways and landings. Ripping shall be done in accordance with wing-toothed rippers or excavators modified for tillage.
- 3513 - Water bars shall be installed across full width of roadway at spacing shown in the specifications. Water bars shall be constructed as shown on Exhibit D-5, page 2 of 2.
- 3514 - Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 and/or placement of slash described in Subsection 3506 on designated roadways, landings, and other areas disturbed by the purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.



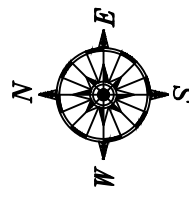
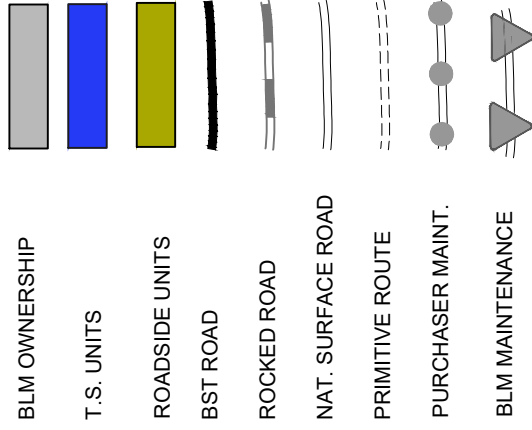
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SHEET 1 OF 6

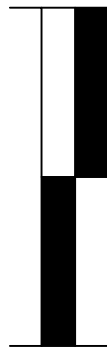
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TRACT NO.:

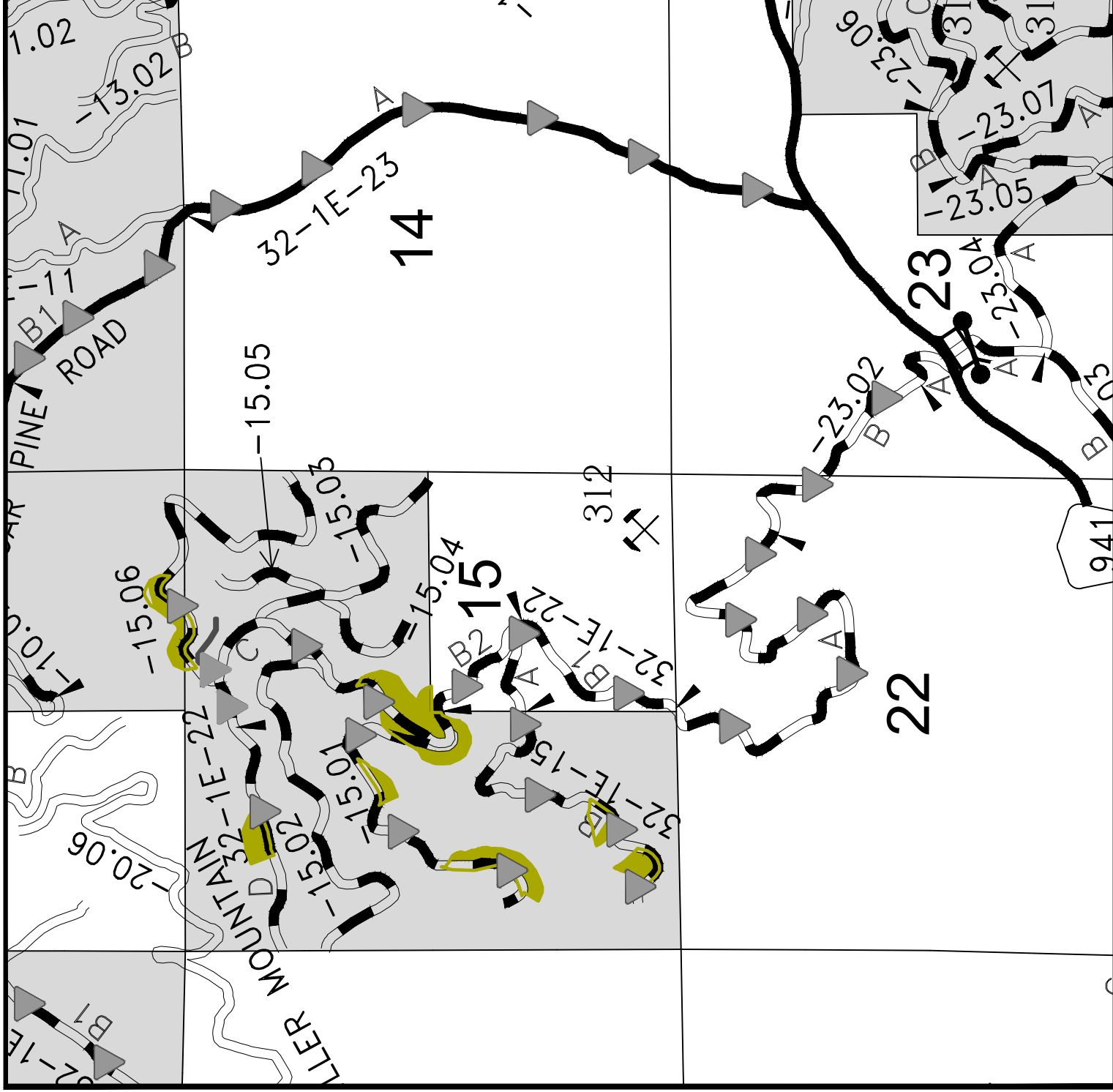
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*ALWAYS  
THINK  
SAFETY*

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SCALE IN MILES





SHEET 2 OF 6

TRACT NO.:

BLM OWNERSHIP

T.S. UNITS

ROADSIDE UNITS

BST ROAD

ROCKED ROAD

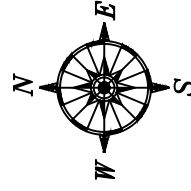
NAT. SURFACE ROAD

## PRIMITIVE ROUTE

## Purchaser Maintenance

## BLM Maintenance

## STOCKPILE SITE



ALWAYS

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## SAFETY

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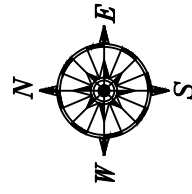
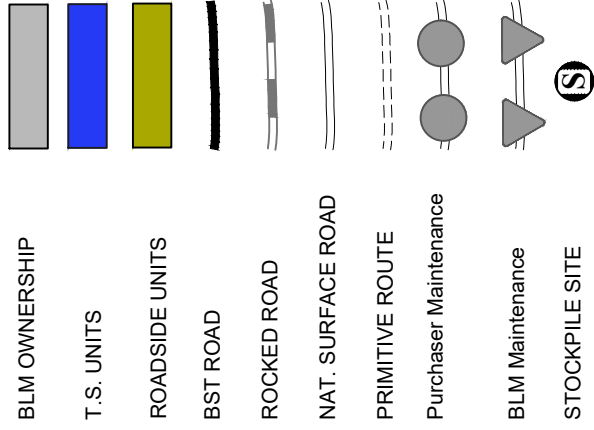


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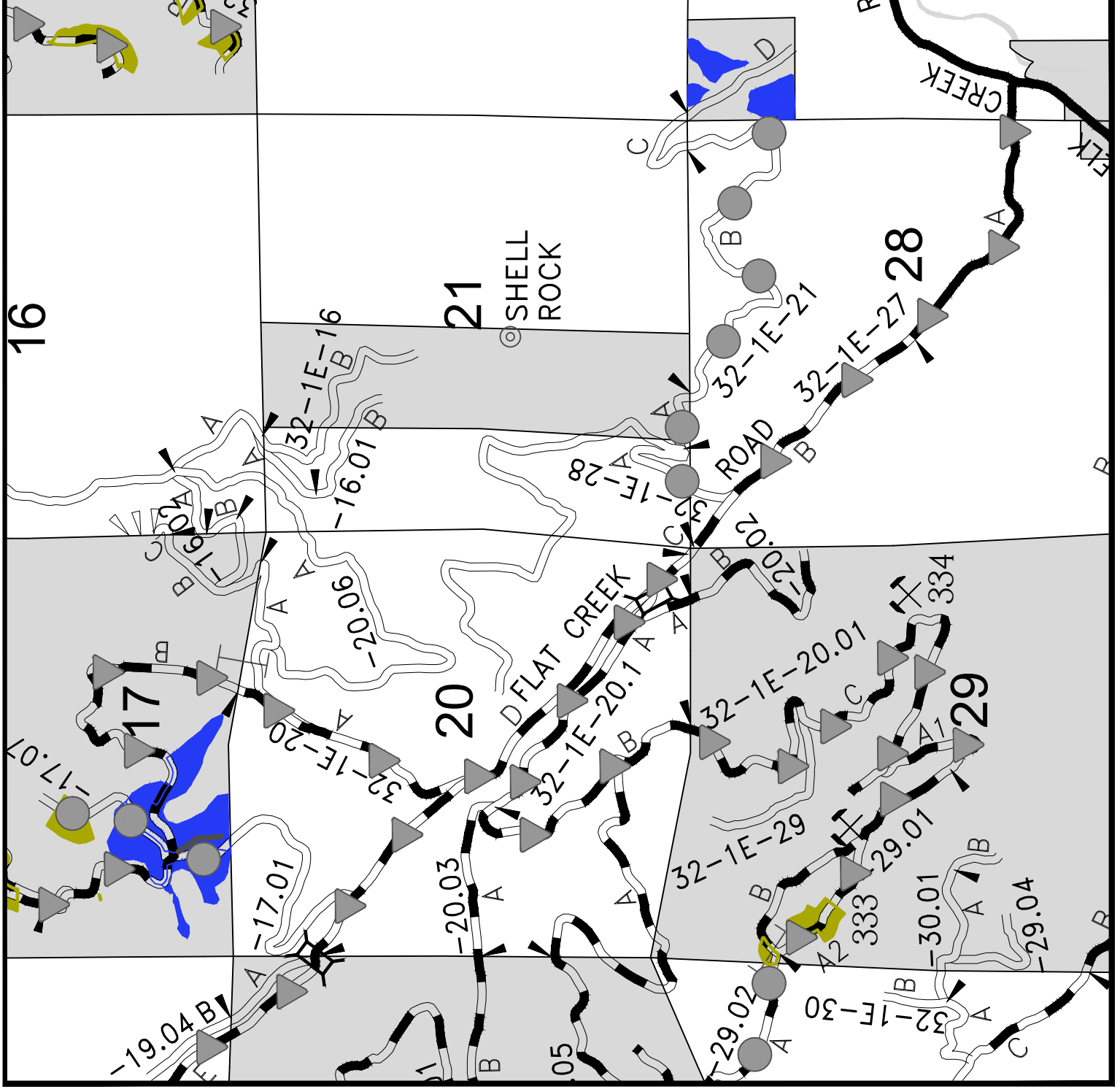
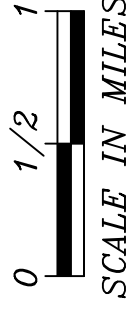
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### MILES SALVAGE T.S.

#### TRACT NO.: ORM05-TS-2019-0012



ALWAYS  
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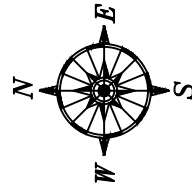
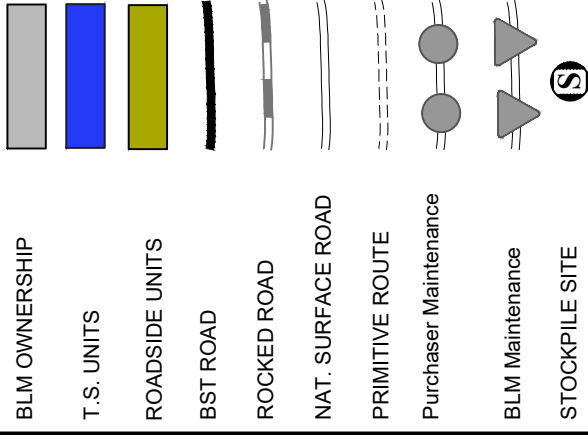
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SHEET 4 OF 6

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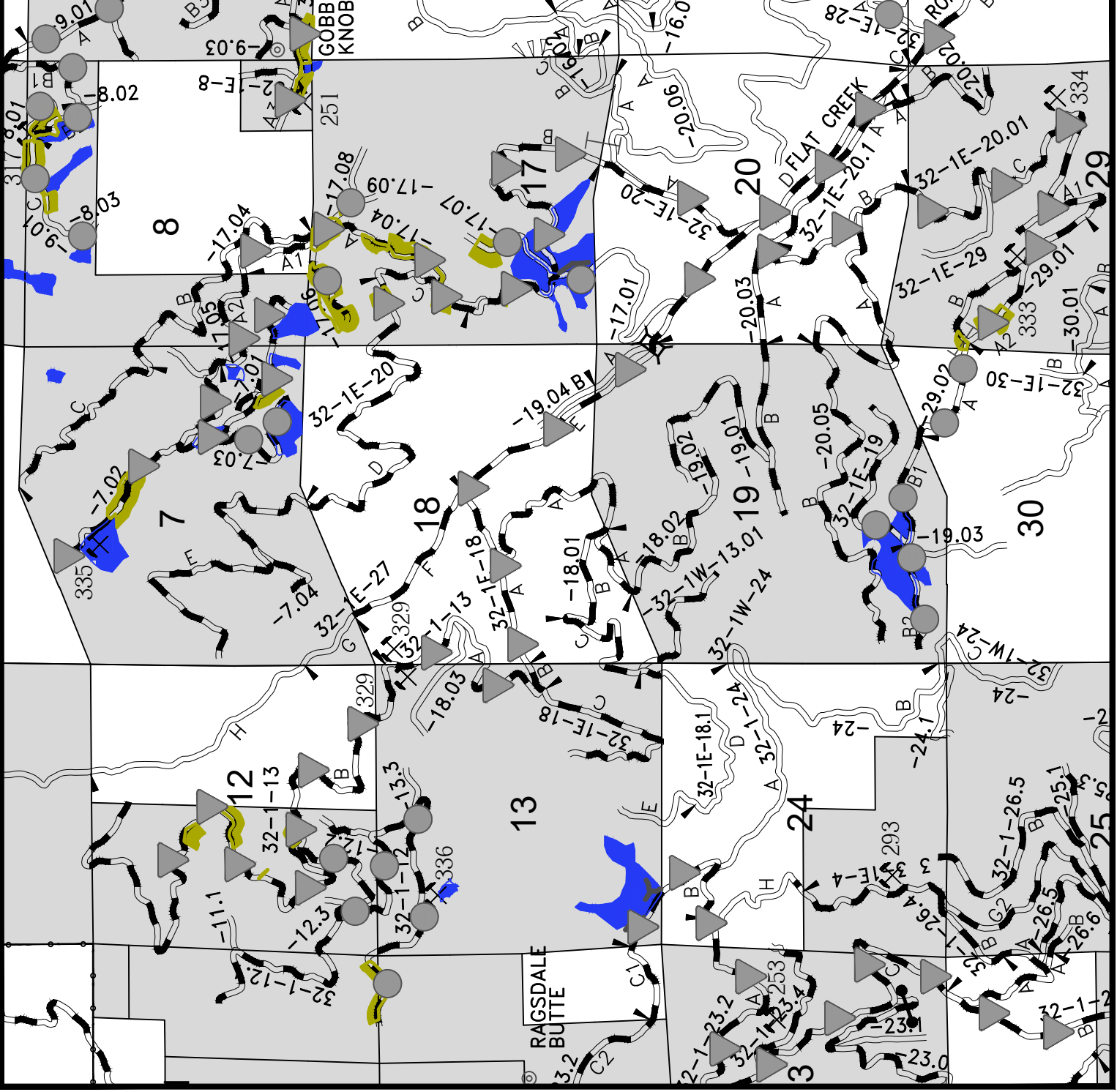
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ALWAYS  
**THINK**  
SAFETY



SCALE IN MILES





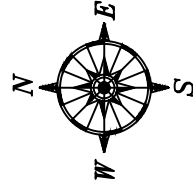
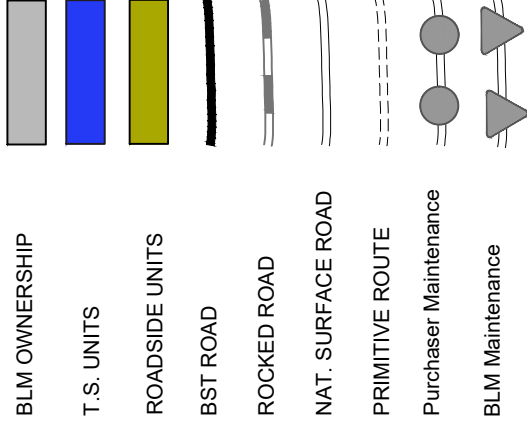
# EXHIBIT D-2

## SHEET 5 OF 6

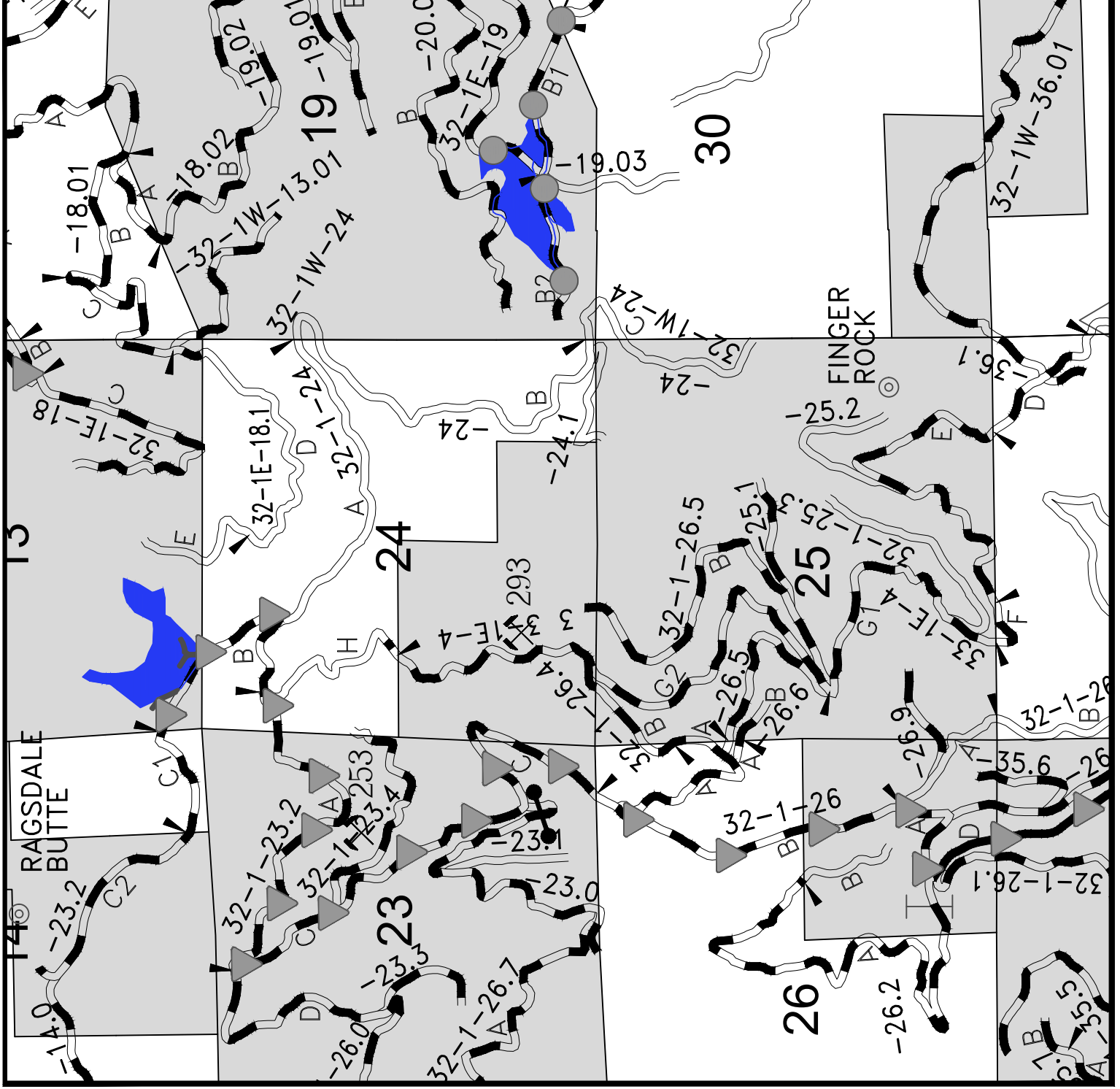
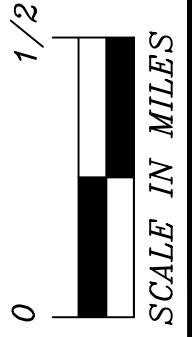
### MILES SALVAGE T.S.

#### TRACT NO.:

#### ORM05-TS-2019-0012



ALWAYS  
**THINK**  
SAFETY





**SHEET 6 OF 6**

TRACT NO.:

SCALE IN MILES





## MILES SALVAGE TIMBER SALE Road Decommissioning Work List

### GENERAL DEFINITIONS:

**Decommission (Full)** = Barricade, rip, seed and mulch disturbed areas, and water bar (every 150' for grades <10% - every 100' grades >10%). Remove Culverts (armor if needed) if in worklist.

**Decommission (Partial)** = Barricade, seed and mulch disturbed areas, and water bar (every 150' for grades <10% - every 100' grades >10%). Remove Culverts (armor if needed) if in worklist.

**Barricade** = Barricade only.

ASC - Aggregate Surface Course

CMP – Corrugated metal pipe

D.B.H. - Diameter breast height

NAT – Natural surface

WD – Water Dip

AWD – Armored water dip

Cu. Yds = CY = Cubic Yards

Jct. – Junction

PRR - Pit Run Rock

DS – Down Spout

### 32-1E-17.01 NAT.

<u>MP</u>	<u>Remarks</u>
0.00	Jct. w/ 32-1E-20.00.
0.03	Construct earth barricade.
0.06	Replace existing water bar.
0.08	Replace existing water bar.
0.10	Replace existing water bar.
0.13	Replace existing water bar.
0.15	End of project.

### 32-1E-17.07 NAT.

<u>MP</u>	<u>Remarks</u>
0.00	Jct. w/ 32-1E-20.00.
0.05	Construct earth barricade. Begin partial decommission (water bar every 150', seed and mulch where needed).
0.42	End partial decommission.

### 32-1E-15.07 NAT.

<u>MP</u>	<u>Remarks</u>
0.00	Jct. w/ 32-1E-15.06.
0.02	Construct earth barricade. Begin partial decommission (water bar every 150', seed and mulch where needed).
0.12	End partial decommission.

### Temp 9-1a NAT.

<u>MP</u>	<u>Remarks</u>
0.00	Jct. w/ 32-1E-4.00. Begin full decommission (rip, water bar every 100', seed and mulch).

0.01 Construct earth barricade.  
0.11 End full decommission.

**Temp 9-1b NAT.**

**MP Remarks**

0.00 Jct. w/ Temp 9-1a. Begin full decommission (rip, water bar every 100', seed and mulch).  
0.02 End full decommission.

**Temp Route 13-5a NAT.**

**MP Remarks**

0.00 Jct. w/ 32-1W-23.02. Construct barricade. Begin full decommission (rip, water bar every 150', seed and mulch).  
0.09 End full decommission.

**Temp Route 13-5b NAT.**

**MP Remarks**

0.00 Jct. w/ 32-1W-23.02. Construct barricade. Begin full decommission (water bar every 150', seed and mulch).  
0.08 Rip helicopter landing. End full decommission.

**Temp Route 13-5c NAT.**

**MP Remarks**

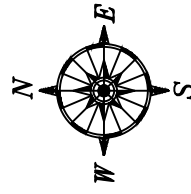
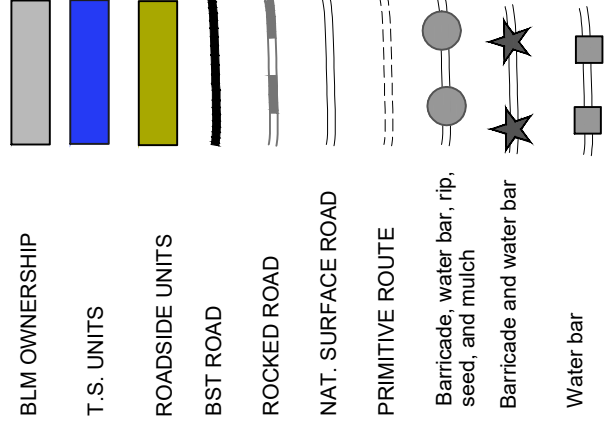
0.00 Jct. w/ Temp 13-5b. Begin full decommission (rip, water bar every 150', seed and mulch).  
0.04 End full decommission.

**Temp 17-1 NAT.**

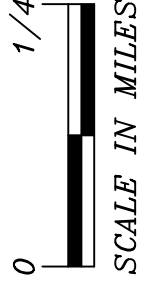
**MP Remarks**

0.00 Jct. w/ 32-1E-20.00. Begin full decommission (rip, water bar every 100', seed and mulch).  
0.02 Construct earth barricade.  
0.13 End full decommission.

ORM05-TS-2019-0012



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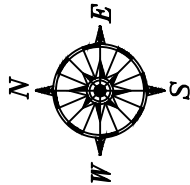
# EXHIBIT D-4

## SHEET 3 OF 4

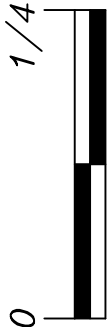
### MILES SALVAGE T.S.

#### TRACT NO.: ORM05-TS-2019-0012

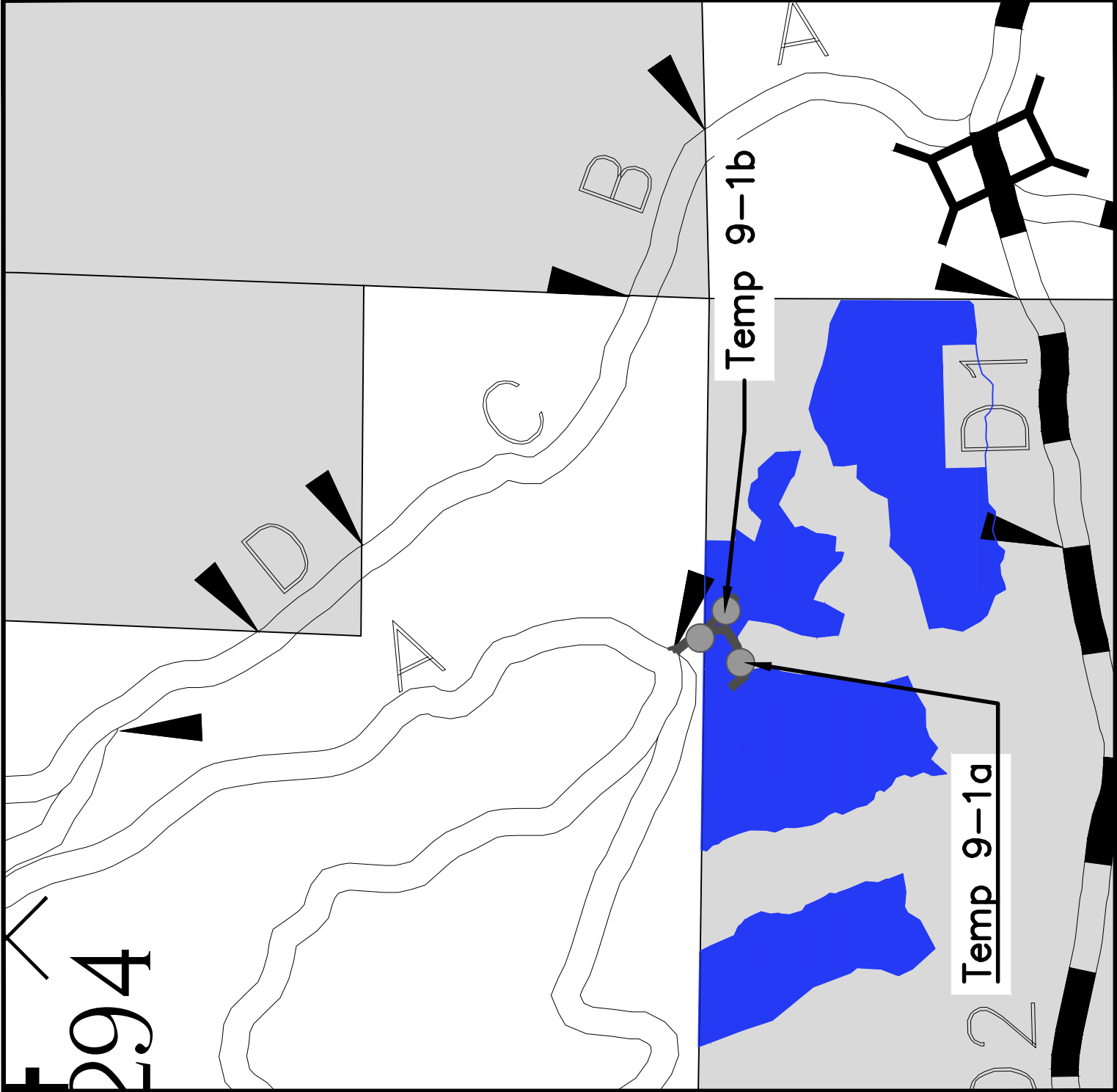
- BLM OWNERSHIP
- T.S. UNITS
- ROADSIDE UNITS
- BST ROAD
- ROCKED ROAD
- NAT. SURFACE ROAD
- PRIMITIVE ROUTE
- Barricade, water bar, rip, seed, and mulch
- Barricade and water bar



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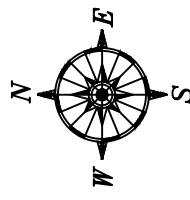
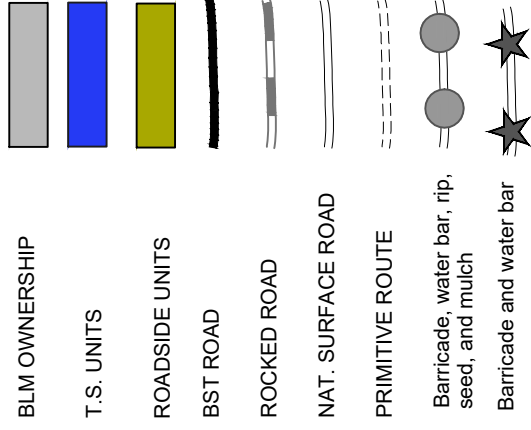
SCALE IN MILES



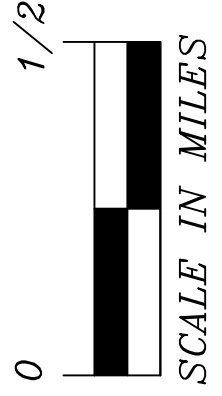




**EXHIBIT D-4**  
**SHEET 4 OF 4**  
**MILES SALVAGE T.S.**  
**TRACT NO.:**  
**ORM05-TS-2019-0012**



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**THINK**  
SAFETY



Temp 13-5c

Temp 13-5b

Temp 13-5a

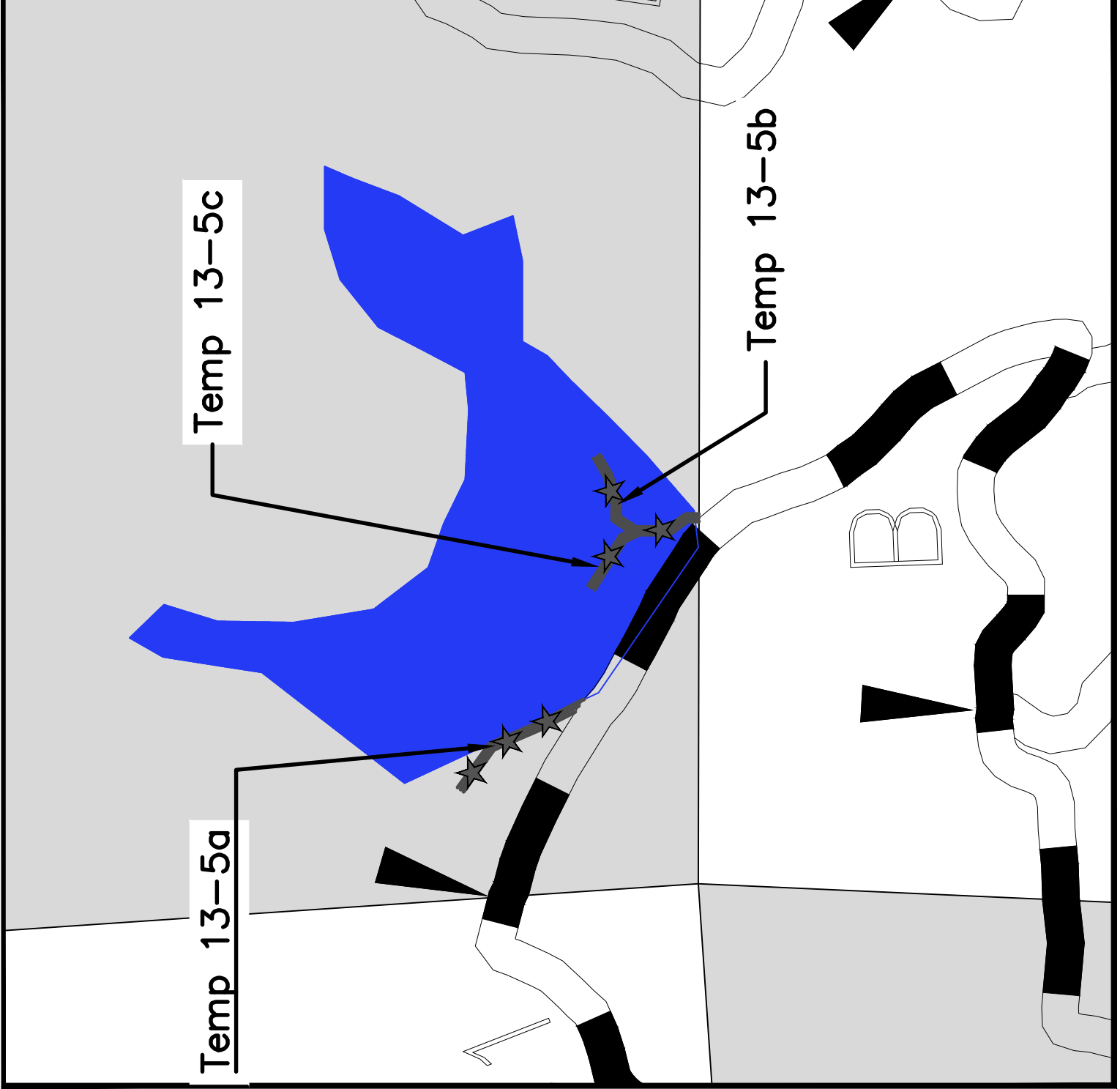
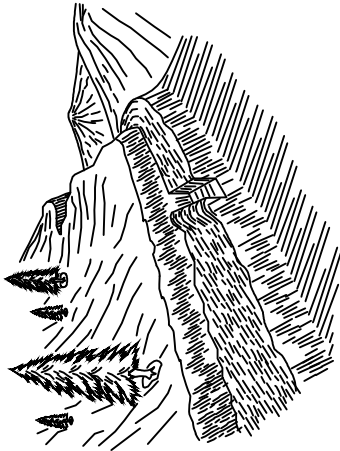
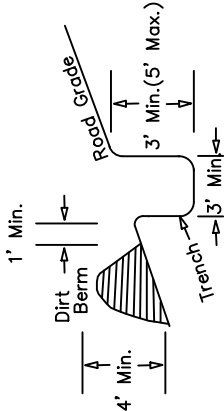




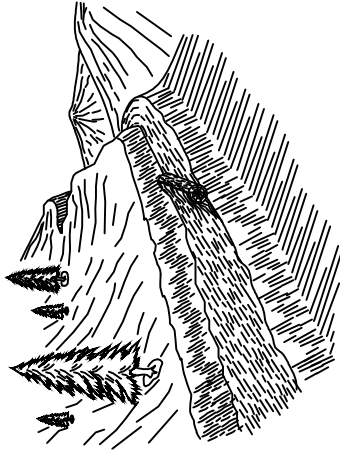
EXHIBIT D-5  
SHEET 1 OF 2  
MILES SALVAGE T.S.



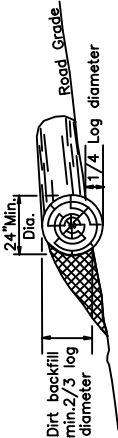
TRENCH BARRICADE



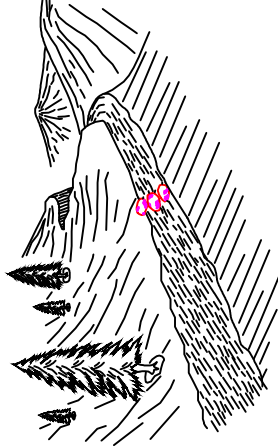
1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.
4. A MINIMUM OF 1' IS OF LEVEL GROUND IS NEEDED BETWEEN TOE OF THE DIRT BERM AND THE EDGE OF THE TRENCH.



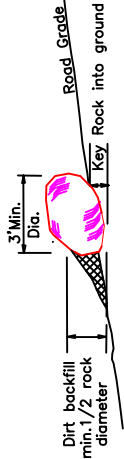
LOG BARRICADE



1. LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL BARRICADES SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.
5. THE MINIMUM SMALL END DIAMETER OF THE LOG BARRICADE SHALL BE 24".

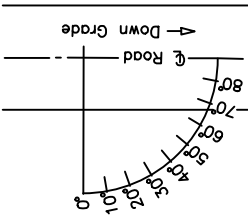


ROCK BARRICADE



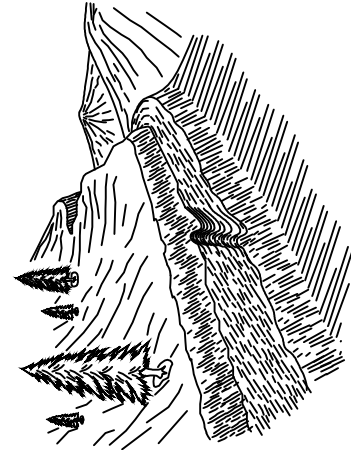
1. ROCK BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. THE LENGTH SHALL BE SUFFICIENT TO BLOCK ROAD FROM VEHICLE USE.
4. THE MINIMUM DIAMETER OF ROCK SHALL BE 3 FEET.
5. THE MAXIMUM SPACE BETWEEN ROCKS SHALL BE 36" OR AS APPROVED BY THE AUTHORIZED OFFICER.

SKIEW DIAGRAM

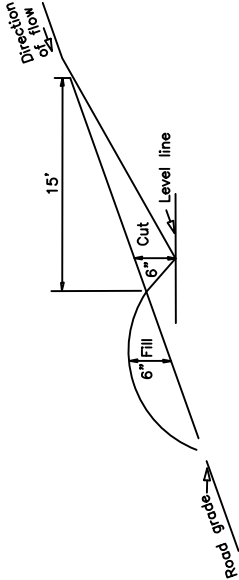


REV.	NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR				
BUREAU OF LAND MANAGEMENT				
MEDFORD DISTRICT - MEDFORD, OREGON				
DRAINAGE & EROSION				
CONTROL DETAILS				
DRAWN	JAB	SCALE	NONE	
DATE	MAY 2019	SHEET	1 OF 2	
DRAWING NO.	ORM05-TS-2019-0012-D5			

EXHIBIT D-5  
SHEET 2 OF 2  
MILES SALVAGE T.S.

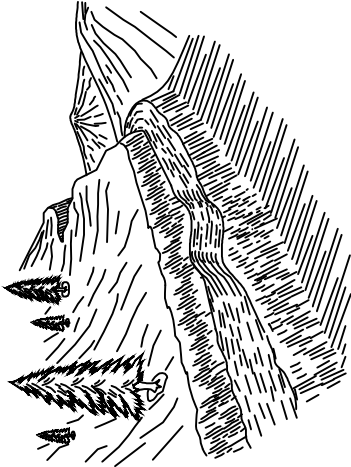
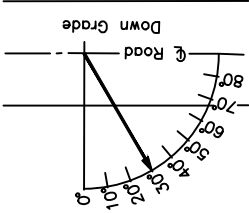


WATER BAR

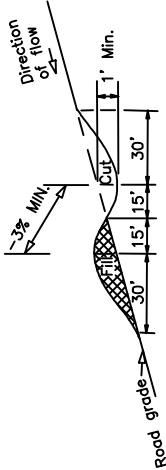


1. CROSS-DRAINS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL CROSS DRAINS SHALL BE SKEWED 30 DEGREES.
4. THE CROSS-DRAINS INVERT SHALL BE SMOOTH AND FREE DRAINING.

SKEW DIAGRAM



WATER DIP



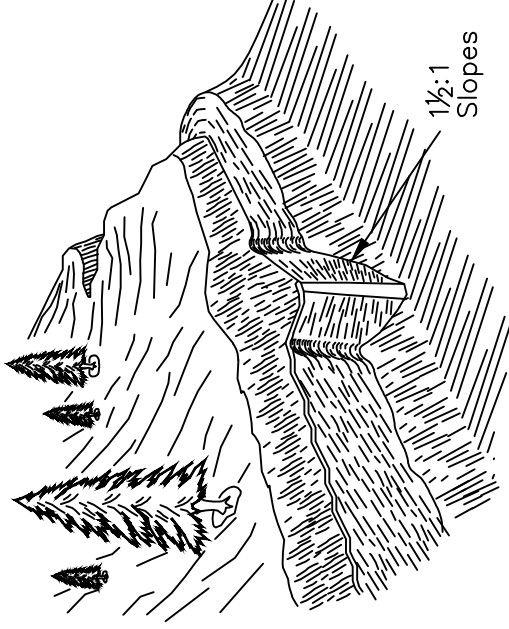
1. WATER DIPS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER DIPS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY HIGH CLEARANCE TYPE VEHICLES.

REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
<b>DRAINAGE &amp; EROSION CONTROL DETAILS</b>			
DRAWN	JAB	SCALE	NONE
DATE	MAY 2019	SHEET	2 OF 2
DRAWING NO.	ORM05-TS-2019-0012-D5		

EXHIBIT D-6  
MILES SALVAGE T.S.  
SHEET 1 OF 1



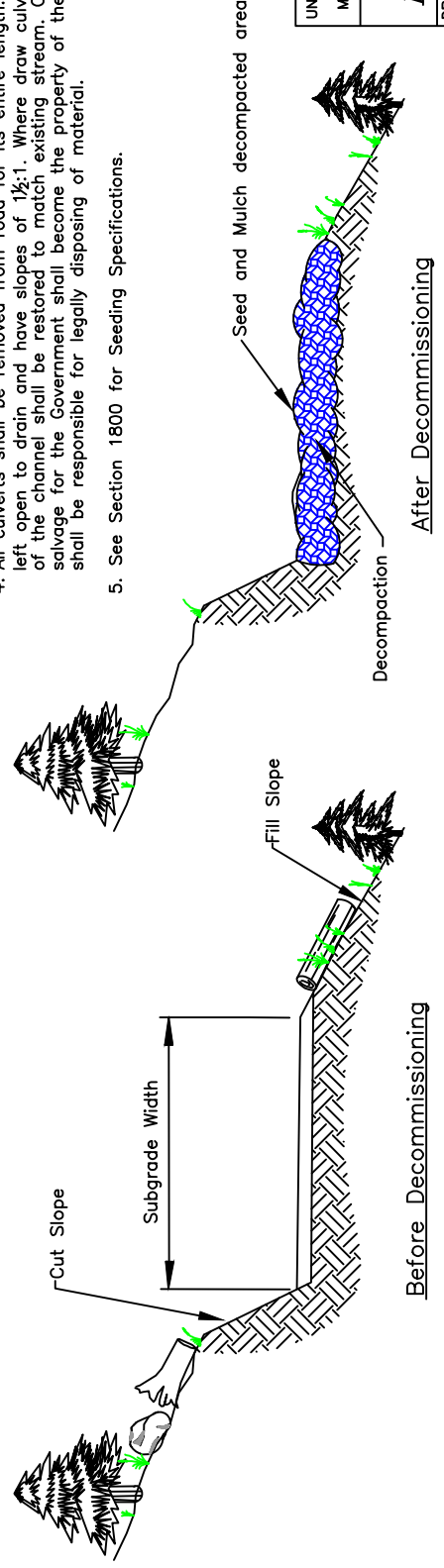
Typical Culvert Removal – Before



Typical Culvert Removal – After

Notes:

1. The Purchaser shall barricade, and decompact the road prism. Barricades shall be constructed as shown for each road.
2. Ditchlines at intersecting roads will be restored as indicated on plan view.
3. Road surface shall be decompacted for its entire length using mechanical equipment. Decompact road surface to a depth of 12 to 18 inches or to a point where 10 inch diameter stones are the dominant substrate (whichever is shallower). Where it is determined by the Authorized Officer that decompaction may cause unacceptable damage to the root systems of residual trees along a majority of the road, decompaction may be intermittent, or scarification may be used instead. Decompacted areas shall be seed and mulched after completion.
4. All culverts shall be removed from road for its entire length. Excavated culverts shall be left open to drain and have slopes of 1 1/2:1. Where draw culverts are removed the grade of the channel shall be restored to match existing stream. Culverts not designated as salvage for the Government shall become the property of the Contractor. The Contractor shall be responsible for legally disposing of material.
5. See Section 1800 for Seeding Specifications.



Typical Full Decommission

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT — MEDFORD, OREGON			
<i>Typical Full Decommission Detail</i>			
DRAWN	JAB	SCALE	NONE
DATE	MAY 2019	SHEET	1 OF 1
DRAWING NO.	ORM05-TS19-0012-D6		



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-04.00** Road Name:

Road Renovation: 0.73 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$550.70
Blading 0.73 mi	
700-1200 Surfacing: .....	\$1,572.50
Quarry Name: Freel Ranch - 4" 50 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.7 acres .....	\$464.35
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$470.30 Surf. \$0.00.....	\$470.30
Quarry Development: .....	\$0.00

Total: \$3,057.85

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-07.01** Road Name: Hole in Rock TS Sp

Road Renovation: 1.23 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$633.68
Blading 0.84 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$115.17 Surf. \$0.00.....	\$115.17
Quarry Development: .....	\$0.00
Total:	\$748.85

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-07.02** Road Name: Hole in Rock TS Sp

Road Renovation: 0.60 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$452.63
Blading 0.60 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.6 acres .....	\$448.61
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,077.36
Mobilization: Const. \$359.62 Surf. \$0.00.....	\$359.62
Quarry Development: .....	\$0.00
Total:	\$2,338.22

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-07.03** Road Name: Hole in Rock Sp

Road Renovation: 0.57 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.4 acres .....	\$912.89
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$789.90
Blading 0.57 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.8 acres .....	\$1,199.69
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$527.54 Surf. \$0.00.....	\$527.54
Quarry Development: .....	\$0.00
Total:	\$3,430.01

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-08.01** Road Name: Gobblers Knob Short

Road Renovation: 0.20 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$150.88
Blading 0.20 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.2 acres .....	\$132.67
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$51.54 Surf. \$0.00.....	\$51.54
Quarry Development: .....	\$0.00
Total:	\$335.08

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-09.01** Road Name: N Sp Timber Creek

Road Renovation: 1.80 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.8 acres .....	\$1,477.64
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$2,751.77
Blading 1.80 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.5 acres .....	\$472.45
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):1.8 acres .....	\$2,098.04
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,264.88
Mobilization: Const. \$1,465.81 Surf. \$0.00.....	\$1,465.81
Quarry Development: .....	\$0.00

Total: \$9,530.59

## Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-09.04** Road Name: Gobblers Knob Cut Sp

Road Renovation: 0.32 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 1.2 acres .....	\$2,265.72
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$241.40
Blading 0.32 mi	
700-1200 Surfacing: .....	\$3,210.00
Quarry Name: Freel Ranch - 4" 100 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.5 acres .....	\$472.45
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres .....	\$651.01
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,264.88
Mobilization: Const. \$1,473.20 Surf. \$0.00.....	\$1,473.20
Quarry Development: .....	\$0.00

Total: \$9,578.66

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-10.00** Road Name: Hawk Creek

Road Renovation: 0.83 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$356.00
Blading 0.83 mi	
700-1200 Surfacing: .....	\$3,101.00
Quarry Name: Freel Ranch - 4" 100 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Mechanical):0.8 acres .....	\$322.15
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$686.87 Surf. \$0.00.....	\$686.87
Quarry Development: .....	\$0.00

Total: \$4,466.02

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-15.06** Road Name: Miller Mountain Spur

Road Renovation: 0.25 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$346.45
Blading 0.25 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.2 acres .....	\$301.33
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$117.74 Surf. \$0.00.....	\$117.74
Quarry Development: .....	\$0.00
Total:	\$765.52

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-17.01** Road Name: Gobblers Spur

Road Renovation: 0.15 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$64.34
Blading 0.15 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.1 acres .....	\$66.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$85.84
Mobilization: Const. \$39.35 Surf. \$0.00.....	\$39.35
Quarry Development: .....	\$0.00
Total:	\$255.86

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-17.06** Road Name: Hole in Rock Spur

Road Renovation: 0.32 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$358.46
Blading 0.32 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$65.15 Surf. \$0.00.....	\$65.15
Quarry Development: .....	\$0.00
Total:	\$423.62

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-17.07** Road Name: Madrone Spur

Road Renovation: 0.42 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.8 acres .....	\$1,477.64
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$180.14
Blading 0.42 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.5 acres .....	\$472.45
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.8 acres .....	\$1,398.70
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,350.72
Mobilization: Const. \$886.90 Surf. \$0.00.....	\$886.90
Quarry Development: .....	\$0.00

Total: \$5,766.55

## Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-17.08** Road Name: Saddle Spur

Road Renovation: 0.14 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$60.05
Blading 0.14 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.2 acres .....	\$301.33
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$65.68 Surf. \$0.00.....	\$65.68
Quarry Development: .....	\$0.00
Total:	\$427.06

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-19.00** Road Name: West Flat

Road Renovation: 0.21 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$291.02
Blading 0.21 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.2 acres .....	\$434.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$131.78 Surf. \$0.00.....	\$131.78
Quarry Development: .....	\$0.00
Total:	\$856.80

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-20.01** Road Name: Flat Cr Falls Mainli

Road Renovation: 2.71 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,815.38
Blading 1.31 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):1.3 acres .....	\$1,537.01
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$609.31 Surf. \$0.00.....	\$609.31
Quarry Development: .....	\$0.00
Total:	\$3,961.70

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-21.00** Road Name: Shell Creek

Road Renovation: 1.15 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.8 acres .....	\$1,544.51
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$676.16
Blading 1.15 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.5 acres .....	\$472.45
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres .....	\$199.01
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,264.88
Mobilization: Const. \$755.55 Surf. \$0.00.....	\$755.55
Quarry Development: .....	\$0.00

Total: \$4,912.55

## Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-22.00** Road Name: Miller Mountain ML

Road Renovation: 3.14 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$4,969.01
Blading 3.14 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):3.0 acres .....	\$4,334.40
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$1,690.93 Surf. \$0.00.....	\$1,690.93
Quarry Development: .....	\$0.00
Total:	\$10,994.34

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-23.00** Road Name: Sugar Pine - Timber

Road Renovation: 3.99 mi 16 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,136.35
Blading 0.82 mi	
700-1200 Surfacing: .....	\$1,557.10
Quarry Name: Freel Ranch - 4" 50 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.8 acres .....	\$530.69
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$586.00 Surf. \$0.00.....	\$586.00
Quarry Development: .....	\$0.00

Total: \$3,810.14

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-28.00** Road Name: Miller Mountain ML

Road Renovation: 0.43 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$595.89
Blading 0.43 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$108.31 Surf. \$0.00.....	\$108.31
Quarry Development: .....	\$0.00
Total:	\$704.19

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-29.02** Road Name: West Flat Loop Spur

Road Renovation: 1.19 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$897.71
Blading 1.19 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):1.2 acres .....	\$1,639.33
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$461.12 Surf. \$0.00.....	\$461.12
Quarry Development: .....	\$0.00
Total:	\$2,998.16

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-35.00** Road Name: Burnt Peak Mainline

Road Renovation: 2.25 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$3,118.03
Blading 2.25 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.9 acres .....	\$1,238.50
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$791.82 Surf. \$0.00.....	\$791.82
Quarry Development: .....	\$0.00
Total:	\$5,148.34

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-35.02** Road Name: Burnt Peak Spur

Road Renovation: 0.26 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$360.31
Blading 0.26 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$65.49 Surf. \$0.00.....	\$65.49
Quarry Development: .....	\$0.00
Total:	\$425.79

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1E-35.03** Road Name: Burnt Peak Spur

Road Renovation: 0.38 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$526.60
Blading 0.38 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.4 acres .....	\$265.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$143.94 Surf. \$0.00.....	\$143.94
Quarry Development: .....	\$0.00
Total:	\$935.88

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1W-12.00** Road Name: County Line TS Sp Le

Road Renovation: 2.32 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,428.07
Blading 1.18 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.3 acres .....	\$735.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$393.21 Surf. \$0.00.....	\$393.21
Quarry Development: .....	\$0.00
Total:	\$2,556.62

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 32-1W-23.02** Road Name: Wild Lily

Road Renovation: 1.70 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$2,355.84
Blading 1.70 mi	
700-1200 Surfacing: .....	\$7,396.50
Quarry Name: Freel Ranch - 4" 150 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.7 acres .....	\$464.35
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$1,856.92 Surf. \$0.00.....	\$1,856.92
Quarry Development: .....	\$0.00

Total: \$12,073.62

## Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: 33-1E-27.00** Road Name: Burnt Peak Road

Road Renovation: 7.78 mi 15 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$2,143.95
Blading 1.71 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):1.7 acres .....	\$1,127.71
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$594.64 Surf. \$0.00.....	\$594.64
Quarry Development: .....	\$0.00
Total:	\$3,866.30

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: New 32-1E-15.07** Road Name:

Road Construction: 0.12 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 1.5 acres .....	\$4,212.29
300 Excavation: 300 cy .....	\$1,115.21
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.0 acres .....	\$944.90
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,897.32
Mobilization: Const. \$1,484.88 Surf. \$0.00.....	\$1,484.88
Quarry Development: .....	\$0.00
Total:	\$9,654.59

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: TempRoute 09-1a** Road Name:

Road Construction: 0.11 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.4 acres .....	\$759.55
300 Excavation: 250 cy .....	\$1,005.66
Haul < 500 ft: 250 sta-yds	
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.2 acres .....	\$188.98
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$355.18 Surf. \$0.00.....	\$355.18
Quarry Development: .....	\$0.00

Total: \$2,309.37

## Notes:

Quantities shown are estimates only and not pay items.  
 Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: TempRoute 09-1b** Road Name:

Road Construction: 0.02 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.1 acres .....	\$189.89
300 Excavation: 50 cy .....	\$186.10
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.1 acres .....	\$47.24
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$76.92 Surf. \$0.00.....	\$76.92
Quarry Development: .....	\$0.00
Total:	\$500.15

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: TempRoute 13-5a** Road Name:

Road Construction: 0.09 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.4 acres .....	\$1,023.43
300 Excavation: 100 cy .....	\$553.56
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.2 acres .....	\$188.98
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$320.97 Surf. \$0.00.....	\$320.97
Quarry Development: .....	\$0.00
Total:	\$2,086.94

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: TempRoute 13-5b** Road Name:

Road Construction: 0.08 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 1.1 acres .....	\$2,088.76
300 Excavation: 200 cy .....	\$743.01
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.8 acres .....	\$708.67
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,897.32
Mobilization: Const. \$988.34 Surf. \$0.00.....	\$988.34
Quarry Development: .....	\$0.00
Total:	\$6,426.10

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: TempRoute 13-5c** Road Name:

Road Construction: 0.04 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.2 acres .....	\$284.83
300 Excavation: 50 cy .....	\$258.51
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.1 acres .....	\$94.49
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$115.93 Surf. \$0.00.....	\$115.93
Quarry Development: .....	\$0.00
Total:	\$753.75

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Miles Salvage Sale Date: 6-27-2019

**Road Number: TempRoute 17-1** Road Name:

Road Construction: 0.13 mi 15 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.5 acres .....	\$949.44
300 Excavation: 200 cy .....	\$925.07
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.3 acres .....	\$283.47
Includes Small Quantity Factor of 1.32	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$392.22 Surf. \$0.00.....	\$392.22
Quarry Development: .....	\$0.00
Total:	\$2,550.19

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sale: Miles Salvage  
Sale Date: 6-27-2019  
Prep. By : Brown  
Tract No: 05-TS19-12

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1.1) Road Use - Amortization:           \$0.00/4844 MBF = \$0.00/MBF

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Road Maintenance Obligation:

(2.1) BLM Maintenance . . . . .	\$21,102.47
(2.2) BLM Rockwear . . . . .	\$6,062.36
(5.1) Purchaser Maintenance Rockwear . . . . .	<u>\$1,617.85</u>
Total Rockwear Payable to BLM . . . . .	\$7,680.21
(3.1) 3rd Party Maintenance . . . . .	\$0.00
(3.2) 3rd Party Rockwear . . . . .	\$4,085.95
(4.1) Other Maintenance Payments . . . . .	\$0.00
Total Maintenance Fee Obligation (2.1-5.1)	<u>\$32,868.63</u>

Purchaser Maintenance Allowances:

(5.2A) Move In . . . . .	\$2,305.80
(5.2B) Culverts, Catch Basins, Downspouts . . . . .	\$1,463.28
(5.2C) Grading, Ditching . . . . .	\$8,042.31
(5.2D) Slide Removal and Slump Repair . . . . .	\$0.00
(5.2E) Dust Palliative (Water) . . . . .	\$10,245.30
(5.2F) Surface Repair (Aggregate) . . . . .	\$0.00
(5.2G) Other . . . . .	\$0.00

Total Purchaser Maintenance Allowances (5.2A-5.2G) \$22,056.69

(2.1-5.2G) Cost (\$32,868.63 + \$22,056.69) = \$54,925.32  
                   Cost/MBF \$54,925.32 / 4844 MBF = \$11.34/MBF \$11.34/MBF

(5.2H) Decommissioning . . . . . \$6,060.49

(5.2H)       Cost/MBF   \$6,060.49/4844 MBF = \$1.25/MBF

(2.1-5.2H) Cost (\$32,868.63 + \$22,056.69 + \$6,060.49) = \$60,985.80

Total Cost/MBF (Excluding Road Use) \$60,985.80/4844 MBF = \$12.59/MBF

# 1) Road Use Fees - Amortization

Details

R/W	Rd Use	Vol	Road Use
Number	Road Number	Fee x MBF =	Obligation

Subtotal by agreement number

(1.1) Subtotal \$0.00

# 2) BLM Maintenance - Timber Haul

MAINTENANCE (2.1)						ROCKWEAR (2.2)			
Road Number and Segment	A Surf N Type	Mi	x Fee x	Vol MBF =		Maint	Fee x MBF =	Rkwear	
32-1E-35.00	A-1N AGG	0.07	0.95	230		\$15.30	0.60 230	\$9.66	
32-1E-35.00	A-2N AGG	0.51	0.95	229		\$110.95	0.60 229	\$70.07	
32-1E-35.00	A-3N AGG	0.17	0.95	220		\$35.53	0.60 220	\$22.44	
32-1E-35.00	A-4N AGG	0.52	0.95	110		\$54.34	0.60 110	\$34.32	
32-1E-35.00	A-5N AGG	0.14	0.95	10		\$1.33	0.60 10	\$0.84	
32-1E-35.00	B N AGG	0.84	0.95	10		\$7.98	0.60 10	\$5.04	
32-1E-35.01	N AGG	0.10	0.95	1		\$0.10	0.60 1	\$0.06	
32-1E-35.02	A N AGG	0.26	0.95	3		\$0.74	0.60 3	\$0.47	
32-1E-35.03	N AGG	0.38	0.95	110		\$39.71	0.60 110	\$25.08	
33-1E-27.00	B-GA AGG	4.05	0.75	369		\$1,120.84	0.60 369	\$896.67	
33-1E-27.00	H N AGG	0.07	0.95	369		\$24.54	0.00 369	\$0.00	
33-1E-27.00	I N AGG	0.07	0.95	369		\$24.54	0.60 369	\$15.50	
33-1E-27.00	J N AGG	0.91	0.95	369		\$319.00	0.00 369	\$0.00	
33-1E-27.00	K N AGG	0.23	0.95	369		\$80.63	0.60 369	\$50.92	
33-1E-27.00	L-MN AGG	1.35	0.95	139		\$178.27	0.60 139	\$112.59	
33-1E-27.00	N N AGG	0.42	0.95	132		\$52.67	0.60 132	\$33.26	
33-1E-27.00	O N AGG	0.43	0.95	129		\$52.70	0.60 129	\$33.28	
32-1W-23.02	B N AGG	0.65	0.95	464		\$286.52	0.00 464	\$0.00	
32-1W-23.02	A N AGG	1.02	0.95	464		\$449.62	0.60 464	\$283.97	
32-1W-26.00	B-CN AGG	2.38	0.95	464		\$1,049.10	0.60 464	\$662.59	
32-1W-26.00	A A AGG	0.28	0.75	464		\$97.44	0.60 464	\$77.95	
33-1E-17.00	A-DA BST	4.66	0.92	464		\$1,989.26	0.00 464	\$0.00	
32-1E-29.01A1A2N	AGG	0.97	0.95	527		\$485.63	0.60 527	\$306.71	
32-1E-20.01	C N AGG	1.42	0.95	527		\$710.92	0.60 527	\$449.00	
32-1E-20.01	A-BN AGG	1.31	0.95	527		\$655.85	0.00 527	\$0.00	
32-1W-13.00	B-1N AGG	1.40	0.95	21		\$27.93	0.60 21	\$17.64	
32-1W-13.00	A-BN AGG	1.95	0.95	101		\$187.10	0.60 101	\$118.17	
32-1E-18.00	A-BN AGG	0.75	0.95	101		\$71.96	0.60 101	\$45.45	
32-1E-27.00	E N AGG	0.84	0.95	101		\$80.60	0.60 101	\$50.90	
32-1E-27.00	A-1A BST	0.47	0.92	2276		\$984.14	0.00 2276	\$0.00	
32-1E-27.00	A-2A AGG	0.26	0.75	2276		\$443.82	0.60 2276	\$355.06	
32-1E-27.00	B-1N AGG	0.56	0.95	2276		\$1,210.83	0.00 2276	\$0.00	
32-1E-27.00	B-2N AGG	0.18	0.95	2064		\$352.94	0.00 2064	\$0.00	
32-1E-27.00	C N AGG	0.02	0.95	2064		\$39.22	0.00 2064	\$0.00	
32-1E-27.00	D-1N AGG	0.19	0.95	2064		\$372.55	0.00 2064	\$0.00	
32-1E-27.00	D-2N AGG	0.56	0.95	1520		\$808.64	0.00 1520	\$0.00	
32-1E-27.00	D-3N AGG	0.49	0.95	101		\$47.02	0.00 101	\$0.00	
32-1E-07.01	- 3N AGG	0.75	0.95	43		\$30.64	0.60 43	\$19.35	
32-1E-07.01	- 2N AGG	0.09	0.95	316		\$27.02	0.60 316	\$17.06	
32-1E-07.01	- 1N AGG	0.39	0.95	467		\$173.02	0.60 467	\$109.28	
32-1E-07.02	N AGG	0.60	0.95	151		\$86.07	0.60 151	\$54.36	
32-1E-17.05A1A2N	AGG	0.85	0.95	467		\$377.10	0.60 467	\$238.17	
32-1E-17.04	A N AGG	0.75	0.95	472		\$336.30	0.60 472	\$212.40	
32-1E-20.00	D N AGG	0.22	0.95	2		\$0.42	0.00 2	\$0.00	
32-1E-20.00	C N AGG	0.41	0.95	2		\$0.78	0.60 2	\$0.49	
32-1E-20.00	B-2N AGG	0.37	0.95	474		\$166.61	0.60 474	\$105.23	
32-1E-20.00	B-1N AGG	1.07	0.95	1419		\$1,442.41	0.60 1419	\$911.00	
32-1E-20.00	A N AGG	0.58	0.95	1419		\$781.87	0.00 1419	\$0.00	
32-1E-09.00	- 3N AGG	0.10	0.95	2		\$0.19	0.60 2	\$0.12	

32-1E-09.00 - 2N AGG	0.45	0.95	25	\$10.69	0.60	25	\$6.75
32-1E-09.00 - 1N AGG	0.19	0.95	307	\$55.41	0.60	307	\$35.00
32-1E-10.01A-B2N AGG	0.89	0.95	312	\$263.80	0.60	312	\$166.61
32-1E-23.00 C N AGG	0.78	0.95	1691	\$1,253.03	0.00	1691	\$0.00
32-1E-23.00 B2A AGG	0.44	0.75	1691	\$558.03	0.60	1691	\$446.42
32-1E-23.00AB1A BST	1.88	0.92	1691	\$2,924.75	0.00	1691	\$0.00
32-1E-15.06 N AGG	0.25	0.95	4	\$0.95	0.60	4	\$0.60
32-1E-15.01 N AGG	0.83	0.95	10	\$7.89	0.60	10	\$4.98
32-1E-15.00 A-BN AGG	0.90	0.95	10	\$8.55	0.60	10	\$5.40
32-1E-22.00 C N AGG	0.39	0.95	5	\$1.85	0.60	5	\$1.17
32-1E-22.00B2-CN AGG	1.02	0.95	24	\$23.26	0.60	24	\$14.69
32-1E-22.00 B1N AGG	0.38	0.95	44	\$15.88	0.00	44	\$0.00
32-1E-22.00 A N AGG	1.35	0.95	44	\$56.43	0.60	44	\$35.64
32-1E-23.02 A-BN AGG	0.70	0.95	44	\$29.26	0.00	44	\$0.00

(2.1) Subtotal \$21,102.47

(2.2) Subtotal \$6,062.36

### 3) Third Party Maintenance and Rockwear

Agmmt Number	Surface Type	MAINTENANCE (3.1)				ROCKWEAR (3.2)		
		Road Number	Mi	x	Fee x MBF =	Maint	Fee x MBF =	Rkwear
M-2000E	AGG	32-1E-23.02 A-B	0.70			0.60	44	\$18.48
M-2000F	AGG	32-1E-22.00 B1	0.38			0.60	44	\$10.03
M-660I	AGG	32-1E-29.02 A	0.37			0.60	527	\$116.99
M-660I	NAT	32-1E-21.00 A-B	1.15			0.00	212	\$0.00
M-660I	AGG	32-1E-28.00 A1	0.12			0.60	212	\$15.26
M-660I	AGG	32-1E-27.00 B-1	0.56			0.60	2276	\$764.74
M-660I	AGG	32-1E-27.00 B-2	0.18			0.60	2064	\$222.91
M-660J	AGG	33-1E-27.00 J	0.91			0.60	369	\$201.47
M-660J	AGG	32-1W-23.02 B	0.65			0.60	464	\$180.96
M-660J	AGG	33-1E-27.00 H	0.07			0.60	369	\$15.50
M-660L	AGG	32-1E-27.00 D-2	0.56			0.60	1520	\$510.72
M-660L	AGG	32-1E-20.01 A-B	1.31			0.60	527	\$414.22
M-660L	AGG	32-1E-28.00 A2	0.31			0.60	212	\$39.43
M-660L	AGG	32-1E-27.00 D-1	0.19			0.60	2064	\$235.30
M-660L	AGG	32-1E-27.00 D-3	0.49			0.60	101	\$29.69
M-660L	AGG	32-1E-20.00 D	0.22			0.60	2	\$0.26
M-660L	AGG	32-1E-20.00 A	0.58			0.60	1419	\$493.81
M-660L	NAT	32-1E-09.01 C	0.54			0.00	544	\$0.00
M-660L	AGG	32-1E-23.00 C	0.78			0.60	1691	\$791.39
M-660L	NAT	32-1E-04.00 A	0.74			0.00	401	\$0.00
M-660L	NAT	32-1E-10.00 E	0.14			0.00	401	\$0.00
M-660L	NAT	32-1E-10.00 C	0.38			0.00	401	\$0.00
M-660L	NAT	32-1E-10.00 A	0.26			0.00	401	\$0.00
M-660L	AGG	32-1E-27.00 C	0.02			0.60	2064	\$24.77

Subtotal of maintenance fees by agreement number:

Subtotal of rockwear fees by agreement number:

M-2000E	\$18.48
M-2000F	\$10.03
M-660I	\$1,119.90
M-660J	\$397.93
M-660L	\$2,539.59

(3.1) Subtotal \$0.00

(3.2) Subtotal \$4,085.93

### 4) Other Maintenance Payments - USFS or Others Perform Maintenance

Agency	Road Number	Miles (Log)	Vol (mbf)	Fee x MBF/MI =	Cost
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(4.1) Subtotal \$0.00

## 5) Purchaser Maintenance - Rock Wear

### TIMBER HAUL (5.1)

Road No and Segment	A N	Mi	RkWear x Fee x	Vol MBF =	Total RkWear
32-1E-19.00	N	0.21	0.60	125	\$15.75
32-1E-29.02	B2N	0.38	0.60	254	\$57.91
32-1E-29.02	B1N	0.44	0.60	527	\$139.13
32-1E-29.02	A N	0.37	0.00	527	\$0.00
32-1E-21.00	A-BN	1.15	0.00	212	\$0.00
32-1E-28.00	N	0.43	0.00	212	\$0.00
32-1W-12.00	N	0.78	0.60	20	\$9.36
32-1W-12.00	N	1.54	0.60	71	\$65.60
32-1E-07.03	N	0.57	0.60	210	\$71.82
32-1E-17.06	N	0.32	0.60	5	\$0.96
32-1E-17.07	N	0.42	0.00	270	\$0.00
32-1E-17.01	N	0.15	0.00	70	\$0.00
32-1E-09.04	N	0.32	0.60	282	\$54.14
32-1E-09.01	C N	0.54	0.00	544	\$0.00
32-1E-09.01AB2N		1.23	0.60	978	\$721.76
32-1E-08.01	N	0.20	0.60	2	\$0.24
32-1E-23.00	D1N	0.82	0.60	978	\$481.18
32-1E-04.00	A N	0.74	0.00	401	\$0.00
32-1E-10.00	A-EN	0.83	0.00	401	\$0.00

(5.1) Subtotal \$1,617.85

### Purchaser Operational Maintenance

#### Move In

Equipment	No Units x	Move in x	Cost/ 50 Mi x	Dist Factor =	Sub- total
Motor Grader:	1	3	\$410.00	0.63	\$774.90
Back Hoe:	1	3	\$305.00	0.63	\$576.45
Loader:			\$410.00	0.63	\$0.00
Water Truck:	1	3	\$95.00	0.63	\$179.55
Dump Truck:			\$89.00	0.63	\$0.00
Excavator:			\$410.00	0.63	\$0.00
Roller:	1	3	\$410.00	0.63	\$774.90

(5.2A) Total \$2,305.80

### Culvert Maintenance - Including Catch basins and Downpipes

Miles	x	Cost/Mi	=	Subtotal
4.00		\$365.82		\$1,463.28

(5.2B) Total \$1,463.28

### Grading (Includes Ditches and Shoulders)

Miles	x	Cost/Mi	x	Freq	=	Subtotal
Blade w/ Ditch:	11.58		\$694.50	1		\$8,042.31
Blade w/o Ditch:	0.00		\$428.91	0		\$0.00

(5.2C) Total \$8,042.31

**Slide and Slough removal, Slump Repair (15 sta-yds. ea.)**

Type	No Slides	Hours	Equip		
Equipment	/Slumps	x Each	x Cost	= Subtotal	
Grader:	0		0	\$140.96	\$0.00
Loader:	0	0	\$101.17		\$0.00
Backhoe:	0	0	\$85.84		\$0.00

(5.2D) Total \$0.00**Dust Palliative (Water)**

Spreading Hours

No	Freq	Truck				
Miles	/ MPH	= Hours	x Days	x /Day	= Hours	
6.62	5	1.3	50	2	130	

Load & Haul = 0.0 0 0 0  
 Total Hours = 130

Truck Cost: \$78.81/Hr. x 130.0 Hours = \$10,245.30

(5.2E) Total \$10,245.30**Surface Repair (Aggregate)**

Production Cost:	0.0 CY x \$0.00/CY	=	\$0.00
Haul to Stockpile:	0.0 CY x ((\$1.75/CY x 0.00 Mi) + \$0.58)	=	\$0.00
Stockpile:	0.0 CY x \$1.07/CY	=	\$0.00
Load from Stockpile:	0.0 CY x \$1.05/CY	=	\$0.00
Haul from Stockpile:	0.0 CY x ((\$1.75/CY x 0.00 Mi) + \$0.58)	=	\$0.00
Process with Grader:	0.0 CY x \$0.88/CY	=	\$0.00
Compaction:	0.0 CY x \$1.08/CY	=	\$0.00

(5.2F) Total \$0.00**Other**

Fallen Timber Cutting:	0.0 Hours x \$0.00/Hour	=	\$0.00
Brush Cutting/Tree Trimming:	0.0 Hours x \$0.00/Hour	=	\$0.00
Oil/Asphalt Materials:	Lump Sum	=	\$0.00
Signing for Dust Palliatives:	Lump Sum	=	\$0.00

(5.2G) Total \$0.00**Decommissioning****Ripping**

Road Number	Ripping Cost	x	(NumSta or CuYds)	= Total
TempRoute 09-1a	\$30.34	x	5.81	= \$176.28
TempRoute 13-5a	\$30.34	x	4.75	= \$144.12
TempRoute 13-5b	\$30.34	x	4.22	= \$128.03
TempRoute 13-5c	\$30.34	x	2.11	= \$64.02
TempRoute 17-1	\$30.34	x	6.86	= \$208.13

(Ripping) Total \$720.58

**Other Costs**

Road Number	Cubic Yds Pullback Material	Qty Waterbars	Qty Earthen Barriers	= Total
New 32-1E-15.07	(0x\$1.77)	+ (3x\$55.35)	+ (1x\$166.04)	= \$332.09
TempRoute 09-1a	(0x\$1.77)	+ (4x\$55.35)	+ (1x\$166.04)	= \$387.44
32-1E-17.01	(0x\$1.77) +	(4x\$55.35) +	(1x\$166.04)	= \$387.44
32-1E-17.07	(0x\$1.77) +	(13x\$55.35) +	(1x\$166.04)	= \$885.59
TempRoute 09-1b	(0x\$1.77)	+ (1x\$55.35)	+ (0x\$166.04)	= \$55.35
TempRoute 13-5a	(0x\$1.77)	+ (3x\$55.35)	+ (1x\$166.04)	= \$332.09
TempRoute 13-5b	(0x\$1.77)	+ (3x\$55.35)	+ (1x\$166.04)	= \$332.09
TempRoute 13-5c	(0x\$1.77)	+ (2x\$55.35)	+ (0x\$166.04)	= \$110.70
TempRoute 17-1	(0x\$1.77)	+ (5x\$55.35)	+ (1x\$166.04)	= \$442.79

(Other Cost) Total \$3,265.58

**Time & Equipment**

TempRoute 09-1a Seeding and Mulching: 0.2 AC @ \$1000.00/AC	= \$200.00
TempRoute 09-1b Seed and Mulch: 0.05 AC @ \$1000.00/AC	= \$50.00
TempRoute 13-5a Seed and Mulch: 0.2 AC @ \$1000.00/AC	= \$200.00
TempRoute 13-5b Tractor: D7 with rippers: 3 hr @ \$158.11/hr	= \$474.33
TempRoute 13-5b Seed and Mulch: 0.75 AC @ \$1000.00/AC	= \$750.00
TempRoute 13-5c Seed and Mulch: 0.1 AC @ \$1000.00/AC	= \$100.00
TempRoute 17-1 Seed and Mulch: 0.3 AC @ \$1000.00/AC	= \$300.00

(5.2H) Decommissioning Total \$6,060.49

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Name of Bidder
Tract Number
Sale Name
Sale Notice <i>(dated)</i>
BLM District

**DEPOSIT AND BID FOR: (Check One):**

- ☐ **Timber and/or Other Wood Products or**  
(Examples of Other Wood Products: biomass, firewood, posts, poles, etc...)
- ☐ **Vegetative Resources**  
(Examples of Vegetative Resources: boughs, pinyon nuts, cones, plants, etc...)

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input type="checkbox"/> Written Bid for Oral Auction Sale
Time for opening sealed bids <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Sale commences <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
On <i>(date)</i> Place	On <i>(date)</i> Place

In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated Timber and/or Other Wood Products or Vegetative Resources on the tract specified above.

Required bid deposit is \$ \_\_\_\_\_ and is enclosed in the form of:

- ☐ cash ☐ money order ☐ cashier's check ☐ certified check ☐ bank draft
- ☐ bid bond of corporate surety on approved list of the United States Treasury ☐ guaranteed remittance approved by the authorized officer.

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per product and species will be considered. If the bid is rejected the deposit will be returned.

**BID SCHEDULE – TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES**

*NOTE: Bidders should carefully check computations in completing the Bid Schedule*

BID SUBMITTED					ORAL BID MADE	
PRODUCT & SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
TOTAL PURCHASE PRICE						

If sale contract is executed, undersigned is liable for total purchase price including all modifications executed under the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for taking may be less or more than 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)*

☐ Signature, if firm is individually owned

Name of firm *(type or print)*

☐ Signatures, if firm is a partnership or L.L.C.

Business address, include zip code *(type or print)*

☐ Corporation organized under the state laws of

*(To be completed following oral bidding)*

Signature of Authorized Corporate Signing Officer

I HEREBY confirm the above oral bid  
By *(signature)*

Title

Date

Submit bid, in *duplicate*, 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 and/or Other Wood Products or  
(1a) “Vegetative Resources ”  
(2) Time bids are to be opened  
(3) Legal description

## NOTICES

The Privacy Act and the regulations in 43 CFR 2.223(d) require that you be furnished with the following information:

**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 and/or Other Wood Products or Vegetative Resources.



## **INSTRUCTIONS TO BIDDERS**

1. **AUTHORITY** – Timber and/or Other Wood Products or Vegetative Resources, 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 and/or Other Wood Products or Vegetative Resources located on other 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 and/or Other Wood Products or Vegetative Resources, are codified in 43 CFR Group 5400.

2. **QUALIFICATIONS OF BIDDERS** – A bidder for sale of Timber and/or Other Wood Products or 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 and/or Other Wood Products or Vegetative Resources are located.

3. **INSPECTION OF TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES** – Bidder is invited, urged, and cautioned to inspect the Timber and/or Other Wood Products or Vegetative Resources prior to submitting a bid. By executing the Timber and/or Other Wood Products or Vegetative Resources sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the Timber and/or Other Wood Products or Vegetative Resources and his opinion of its value.

4. **DISCLAIMER OF WARRANTY** – Government expressly disclaims any warranty of the fitness of the designated Timber and/or Other Wood Products or Vegetative Resources for any purpose of the bidder; all Timber and/or Other Wood Products or 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 and/or Other Wood Products or Vegetative Resources to be sold is expressly disclaimed by Government.

5. **BIDS** – Sealed or written bids for not less than the advertised appraised price, per Timber and/or Other Wood Products or Vegetative Resources must be submitted in duplicate to the District Manager who issued *Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources*, time bid is to be opened, tract number, and legal description of land on which Timber and/or Other Wood Products or Vegetative Resources are 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 and/or Other Wood Products or Vegetative Resources 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) **Timber and/or Other Wood Products or Vegetative Resources Sales** – For each product and species, bids shall specify (1) Bureau of Land Management estimated unit volume or quantity, (2) bidder’s price per unit and total value, and (3) bidder’s total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, the high bidder agrees to pay the Government for the Timber and/or Other Wood Products or Vegetative Resources designated for removal in accordance with the terms of the contract. Timber and/or Other Wood Products or Vegetative designated for taking may be less or more than total estimated volume or quantity shown above.

7. **BID DEPOSIT** – All bidders must make a deposit of not less than the amount specified in the *Timber and/or Other Wood Products or Vegetative Resources*

*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 (*Applies To Timber Only*), 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 AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES SALE CONTRACTS** – To be executed by purchaser, has been prepared by Government, and may be examined in the District or Field Manager’s office.

10. **PERFORMANCE BOND** – (*Primarily Used For Timber Sales*)

(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 and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources covered by the bond increase. This increased amount of bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources cut in advance of payment.

11. **PAYMENT BOND**— (*Primarily Used For Timber Sales*)

If purchaser elects to (a) cut and remove Timber and/or Other Wood Products or Vegetative Resources, or (b) remove Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources covered by the bond. Payment bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or 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 and/or Other Wood Products or Vegetative Resources, 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 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 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.