PROSPECTUS

LUMP SUM SALE

BUTTE FALLS RESOURCEAREA JACKSON MASTER UNIT Medford Sale # ORM05-TS-2018-09 July 29, 2021

1 Gold Sardine (6300) Jackson County, O&C, P.D.

BID DEPOSIT REQUIRED: \$3,900.00

All timber designated for cutting in Un-Num. Lot NW $\frac{1}{4}$ SW $\frac{1}{4}$, Un-Num. Lot SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 18, Un-Num. Lot NW $\frac{1}{4}$ NW $\frac{1}{4}$, Un-Num. Lot SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 19, S $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, NW $\frac{1}{4}$ Sec. 27, T335., R3W., NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 24, T35S., R4W, 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
7,562	1,516	Douglas-fir	1,825	*\$20.20	\$36,865.00
216	50	White Fir	58	*\$14.70	\$852.60
187	18	Ponderosa Pine	23	*\$10.10	\$232.30
102	10	Incense-cedar	13	*\$18.00	\$234.00
8,067	1,594	Totals	1,919		\$38,183.90

^{*}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.

<u>CRUISE INFORMATION:</u> Douglas-fir, White fir, Ponderosa Pine, and Incense-cedar have been cruised using the 3-P sampling methods to select sample trees. Maps showing the location and description of these sample trees are available at the Medford District Office. The sample trees have been measured using the volt system of measurement, and the volume expanded to a total sale volume.

With respect to merchantable trees of all conifer species: the average tree is 14.7 inches DBHOB; the average gross merchantable log contains 58 bd. ft.; the total gross volume is approximately 2011 MBF; and 96% recovery is expected (Average DF is 14.8 inches DBHOB; average gross merchantable log DF contains 59 bd. ft.).

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.

<u>LOG EXPORT AND SUBSTITUTION RESTRICTIONS:</u> 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 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.

<u>CUTTING AREA:</u> Thirteen (13) units containing one hundred forty five (145) acres must be logged, Two (2) helicopter landings containing (2) acres must be clear-cut for landing construction, and approximately one (1) right of way acre must be clear-cut for temporary road construction.

<u>CUTTING TIME:</u> Contract duration will be thirty-six (36) months for cutting and removal of timber.

<u>ACCESS</u>: <u>ACCESS</u> - 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-660J with Siskiyou Timberland, LLC., and via Right-of-way and Road Use Agreement M-660K with System Global Timberlands, LLC.

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 payment of a surface replacement fee of \$86.28. Among other conditions, agreement M-660K with System Global Timberlands, LLC, requires completion of a license agreement between the Purchaser and System Global Timberlands, LLC, road maintenance to be performed by the Purchaser or BLM, and payment of a surface replacement fee of \$47.89.

<u>ROAD MAINTENANCE:</u> The Purchaser will be required to maintain all the temp routes he constructs plus 2.99 miles of existing BLM and private roads. The BLM will maintain the approximately 6.55 miles of existing BLM and private roads.

ROAD CONSTRUCTION: The Purchaser will be required to construct 0.14 miles of temporary road.

<u>SOIL DAMAGE PREVENTION:</u> Pursuant to Section 26 of Form 5450-3, Timber Sale Contract, the Purchaser shall not operate or cause to have operated on the contract area any tractor-type logging equipment when soil moisture content at six (6) inch depth exceeds twenty five (25) percent by weight as determined by the oven dry method.

EQUIPMENT REQUIREMENTS:

- 1. A yarding tractor not greater than 9 feet in track width equipped with an integral arch and winch system capable of lining logs at least 75 feet.
- 2. A helicopter equipped with a dropline with a minimum length of 150 feet and capable of lifting logs vertically to a height above adjacent trees without horizontal movement.

<u>SLASH DISPOSAL</u>: Perform logging residue reduction and site preparation work on approximately one hundred twenty five (125) acres of harvest area as directed by the Authorized Officer.

<u>CONTRACT TERMINATION:</u> A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and /or to modify or terminate the contract when necessary to:

- 1. Comply with the Endangered Species Act. or:
- 2. Comply with a court order, or;
- 3. Protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP. 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.

<u>PERFORMANCE BOND:</u> 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. "This contract includes an additional special provision to ensure the Purchaser understands he/she is required to conduct all operations in compliance with Contract Section 12 (Purchaser's Contractual Responsibilities for Liability) and Contract Section 29 (Safety and Health) and the Special Provisions included in Section 42 of this Contract."
- 3. Purchaser shall be responsible for complying with all county, state, and federal laws and regulations that relate to the execution of this contract (See Sec. 29 of contract).
- 4. Directional falling is required

- 5. There are daily and seasonal restrictions in place on this sale.
- 6. Cleaning of equipment to eliminate noxious weed seeds is required prior to move-in of equipment onto federal lands.
- 7. Dust abatement is required.
- 8. There are slash treatment and pile placement requirements in place for this sale (see SD-1 in the contract)
- 9. Purchaser should be aware there are logging residue reduction costs assessed under SD-5. Refer to the appraisal for total assessed costs of logging residue reduction.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA:

From the town of Gold Hill, proceed west on North River Road approximately 2 miles to the junction of North River Road and Sardine Creek Road. Turn right onto Sardine Creek Road and proceed north into the sale area.

<u>ENVIRONMENTAL ASSESSMENT:</u> Environmental Assessment (DOI-BLM-ORWA M050-2018-0001-EA) was prepared for this sale, and a Finding of No Significant Impact has been documented for the environmental assessment. This document is available for inspection as background for this sale at the Medford District Office.

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) <u>AR-1</u> All timber on the Reserve Area(s) as shown on Exhibit A and all orange painted and posted trees which are on or mark the boundaries of the Reserve Area(s).
- (B) <u>IR-1</u> Approximately four thousand two hundred and seventy-eight (4,278) trees marked with orange paint above and below stump height in units, 18-1, 18-2, 18-4, 18-5, 19-2, 19-7, 24-1, and 27-2 as shown on Exhibit A.
- (C) <u>IR-2</u> All timber except approximately six hundred and forty-nine (649) trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 19-1, and 19-3, as shown on Exhibit A.
- (D) <u>IR-5</u> All young growth conifers less than eight (8) inches in diameter D.B.H.O.B. not damaged in the normal course of logging in all units as shown on Exhibit A.
- (E) <u>IR-6</u> Reserve dominant madrone, bigleaf maple, and oak trees >24 inches DBH, except where falling is necessary for safety or operational reasons and no alternative harvesting method is economically viable or practically feasible. If such trees need to be cut for safety or operational reasons, retain cut trees in the stand. (USDI 2016c, p. 68)
- (F) <u>IR-13</u> All non-hazardous snags in all units as shown on Exhibit A. Any felled hazard snags must remain where felled or as directed by the authorized officer.
- (G) <u>IR-14</u> Within commercial harvest stands in the Harvest Land Base, retain existing large down woody material >20 inches in diameter at the large end and >20 feet in length; and down woody material 6-20 inches in diameter at the large end and >20 feet in length in decay classes III, IV, and V (USDI 2016c, pp. 62-63).

Section 42

(A) 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 and three-quarters (83/4) 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 regardless of size, manufactured to standards and construction timber. 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. 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 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. The purchaser shall also provide a current, interim Log Scale and Disposition of Timber Removed Report (Form 5460-15) upon request by the Authorized Officer at any time during the contract period for cutting and removal specified in Section 4 of this contract as amended. 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.

(B) Logging

- (1) <u>L-1</u> Before beginning operations on the contract area for the first time or after a shutdown of seven (7) days or more, 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 they intend to cease operations for any period of seven (7) or more days.
- (2) <u>L-2</u> 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 assure protection of the environment and watershed. (A prework conference between the Purchaser's authorized representative and the Authorized Officer's representative 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) <u>L-4</u> All trees designated for cutting shall be cut so that the resulting stumps shall not be lower than six (6) inches nor higher than twelve (12) inches measured from the ground on the uphill side of the tree. This height requirement may be reduced if approved by the Authorized Officer.
- (4) <u>L-8</u> In all tractor units, as shown on Exhibit A, all trees twenty one (21) inches D.B.H.O.B. and smaller designated for cutting shall be felled and yarded to approved landing locations either whole tree, or as log segments (segment length not to exceed forty-four (44) feet) If excessive stand damage occurs from whole tree yarding as determined by the authorized officer, bucking and/or limbing will be required.
- (5) <u>L-8</u> In all tractor units, fell trees over twenty one (21) inches DBH designated for cutting and cut into log lengths not to exceed 44 feet. Log segments would be completely limbed prior to yarding.
- (6) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred sixty five (165) feet of the unit boundary shall be felled way from the unit boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (7) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred sixty five (165) feet of a private property line shall be felled Page 4 of 33

- away from the private property line. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (8) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred sixty five (165) feet of the corner monument shall be felled away from the corner monument. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (9) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred sixty five (165) feet of any plant site, or reserve area boundary as shown on Exhibit A shall be felled away from the painted and posted boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (10) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred sixty five (165) feet of fences, cattle guards, livestock watering troughs, and other improvements shall be felled away from these improvements. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (11) <u>L-12</u> Yarding on the areas designated herein and shown on Exhibit A shall be done in accordance with the yarding requirements or limitations for the designated area.

Designated Area	Yarding Requirements or Limitations
Ground Based	Yarding tractor width will not be greater than twelve (12) feet as measured from the outer edges of the standard width dozer blade in the straight position, or nine (9) feet as measured from the outer
18-2, 19-3	edges of standard width track shoes.
	Yarding tractors will be equipped with integral arches and winch systems capable of lining logs at least seventy five (75) feet.
	The location of the tractor skid roads must be clearly designated on the ground, at locations approved by the Authorized Officer.
	Incorporate existing skid trails and landings as a priority over creating new trails and landings where feasible, into a designated trail network for ground-based harvesting equipment. When new skid trails are needed, limit total (existing and new) designated skid trails to $\leq 15\%$ of the harvest unit area to reduce displacement or

compaction to acceptable limits. Consider proper spacing (on average 100 feet), skid trail direction and location relative to terrain and stream channel features. (TH-8 and TH-12)

Within commercial harvest stands in the Harvest Land Base, retain existing large down woody material >20 inches in diameter at the large end and >20 feet in length; and down woody material 6-20 inches in diameter at the large end and >20 feet in length in decay classes III, IV, and V (USDI 2016c, pp. 62-63).

Locate skid trails to minimize disturbance to down woody material. Where skid trails encounter large down woody material, a section would be bucked out for equipment access. The remainder would be left in place and would not be disturbed.

Restrict ground-based yarding and soil decompaction operations from October 15 to May 15, or when soil moisture exceeds 25%. Block skid trails by October 15 of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season. (TH-11 and TH 19)

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 a watershed specialist (hydrologist, soils scientist, or fisheries biologist) to determine appropriate conditions. If conditions change during operations where detrimental soil compaction and displacement is occurring, operations would be stopped immediately. (TH-20)

Restrict tractor and mechanical operations to slopes generally less than 35%. In areas where it is necessary to exceed these gradients to access adjacent tractor area, use ridge tops where possible.

Minimize the area where more than half of the depth of the organically-enriched upper horizon (topsoil) is removed when conducting forest management operations. (TH-21)

Restrict the amount of total area detrimental soil disturbance (i.e. compaction, displacement, erosion, burning) to below 20% in a timber harvest unit.

If operators are using feller-bunchers or cut-to-length harvesters off of designated skid trails:

- Allow mechanized equipment capable of creating and walking on slash (such as a cut-to-length system) to work off designated skid trails for one or two passes on at least eight inches of slash and under dry soil conditions (less than 25% soil moisture content);
- Allow mechanized equipment (feller-buncher systems) to work off designated skid trails during the dry season (soil moisture content less than 20%) for one or two passes only (one round-trip);
- Use low, ground-pressure equipment off designated skid trails;
- Restrict all other use of ground-based equipment to designated skid trails; and
- Stop equipment use off of designated skid trails if logging equipment is causing soil disturbance above a Class 1 (Page-Dumroese, Abbott, Rice 2009, p. 6, 14, 15, and 27-33), or as determined by the Authorized Officer.

Mechanized felling equipment must have an arm capable of reaching at least twenty (20) feet.

No front-end loaders are permitted.

No yarding up or down draw bottoms is permitted.

The use of ground based equipment on unstable areas within units is not permitted.

Log landing size shall not exceed one-quarter (1/4) acre.

Helicopter	A helicopter equipped with a dropline with a minimum length of	
Units	one hundred fifty (150) feet and capable of lifting logs vertically to	
	a height above adjacent trees without horizontal movement is	
18-1, 18-4	required	
18-5, 19-1		
19-2,	Service landing pads and log landing pads can be constructed with	
19-7, 24-1	prior approval of the Contract Administrator and shall not be larger	
27-2, 27-3	than necessary. Service landings shall not exceed three (3) acres	
27-6, 27-8		
	Log landing size shall not exceed one (1) acre and all landings are	
	to be approved by the Authorized Officer prior to construction.	
	A dropline with a minimum length of one hundred fifty (150) feet	
	is required.	
	Lift logs vertically (without horizontal movement) to a height	
	above the adjacent leave trees.	
	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.	
	All aerial operations within 0.5 miles of any residence will be	
	restricted to an operating time of 6:00 am to 6:00 pm Monday thru	
	Friday.	

- (12) <u>L-14</u> No yarding or loading is permitted in or through plant sites, or protected sites, shown on Exhibit A.
- (13) <u>L-19</u> No ground based yarding, road construction, landing construction, road renovation, road reconstruction, road decommissioning, road rocking, road blocking/barricade construction, water bar construction, soil ripping, shall be conducted within units 18-1, 18-2, 18-4, 18-5, 19-3, 19-7, 24-1, 27-2, 27-3, 27-6, 27-8 between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive, or when soil moisture exceeds 25% when sampled at a 6 inch depth as determined by Authorized Officer.
- (14) <u>L-19</u> Restrict all timber hauling and landing operations on native surface or rocked roads whenever soil moisture conditions or rain events could result in road damage or the transport of sediment to nearby stream channels, generally October 15th to May 15th. 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 as determined by the Authorized Officer. (R-93)

(15) <u>L-19</u> Hauling could occur during the wet season (October 16th to May 14th) on roads determined to have adequate surfacing. In addition, a selection of roads have been identified as available for wet season haul if adequate rock is added to the roadbed (See Exhibit C-14). 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. (R-94).

The Purchaser may wet season haul, with the Authorized Officer's approval on road 35-3W-20.00 A1-B2 (portion of B2). Road numbers 35-3W-19.00 A1-B2, 35-3W-19.03, and 35-3W-20.00 B2 (portion of B2) will have an additional lift of surface course aggregate placed during pre-haul road maintenance operations and can be wet season hauled on after maintenance lift is approved. If the use of all wet season haul 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 number 35-3W-19.01 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.

- (16) <u>L-20</u> No helicopter operations or chainsaw use, shall be conducted in units 19-1, and 19-2 as shown on Exhibit A between March 1 and September 30 both days inclusive (Spotted Owl).
- (17) <u>L-20</u> No roadside brushing, road rocking, road grading, or chain saw use shall be conducted along roads 35-3-19.0, and 35-3-20.0 as shown on Exhibit A between March 1 and September 30, both days inclusive (Spotted Owl).

- (18) <u>L-24</u> Before cutting and removing any trees necessary to facilitate logging in units 18-4, and 19-3 as shown on Exhibit A, the Purchaser shall identify the location of skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following conditions must be met:
 - (a) All skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contact and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees; however, unless otherwise approved in writing by the Authorized Officer, the width of each skid road shall be limited to twelve (12) feet, and cable yarding roads shall be limited to fifteen (15) feet.
 - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees when the trees have been marked with pink paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Sec. 3 (b) of the contract or sufficient bonding has been provided in accordance with Sec. 3 (e) of the contract.
 - (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that all trees otherwise reserved in section 41 of the contract or any tree that exceeds 28 inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Sec. 8 of the contract.

- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
- (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or Sec. 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
- (f) The Government may reserve trees previously designated for cutting and removal by applying orange paint or blacking out blue paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription(s). The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.
- (19) <u>L-29</u> 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 (except 18-4, and 19-3) 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 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.
- 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 contact 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.

- (20) <u>L-32</u> In the location of the helicopter log landing to be built (Section 19, T35S, R03W, W.M.), the Purchaser shall during landing constructing fell, buck, and remove to an area adjacent to and outside of the landing right-of-way all eight (8) pink marked trees which are forty (40) inch diameter or larger at breast height. No adjustments of volume or value shall be made to meet these requirements. (The Purchaser shall tally all trees by diameter class and species on a daily basis. The tally may be requested by the Authorized Officer at any time during falling operations. At the end of falling operations a completed tree tally shall be submitted to the Authorized Officer.)
- (21) <u>L-33</u> Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties on Contract

Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

In the event that the Authorized Officer identifies a conflict between the requirements of this contract or agreed upon methods of proceeding hereunder and State or Federal safety requirements, the contract may be modified. If the cost of such contract modification is of a substantial nature (\$2,000.00 or more), the Purchaser may request, in writing, an adjustment in the Total Purchase Price specified in 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 harvest unit area, Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with adequate warning of and protection from hazardous or potentially hazardous conditions associated with its operations. Purchaser shall prepare a Traffic Control Plan, which the Purchaser has determined is compliant with state and local OSHA and Transportation standards no later than the pre-work meeting and prior to commencing operations. Traffic control devices shall be appropriate to current operating and/or weather conditions and shall be covered or removed when not needed. Flagmen and devices shall be as specified in state OSHA and Transportation standards for logging roads or the "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD) published by the U.S. Department of Transportation - Federal Highway Administration. Included in the Traffic Control Plan, Purchaser shall note traffic control device locations on a Purchaser produced copy of the contract Exhibit "A" Map.

(C) ROAD CONSTRUCTION, MAINTENANCE, AND USE (R)

- (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) <u>R-1a</u>: Any required <u>construction</u>, <u>improvement</u>, <u>or renovation</u> 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) <u>R-1b</u>: The Purchaser shall construct, use and decommission temporary routes in Sections 18, 19, and 27 by October 15th of the same respective operating season.
- (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.

Road No. and	Length		Road Surface	Maintenance
Segment	Miles Used	Road Control	Type	Responsibility
35-3W-18.00 A	0.12	BLM	ASC	Purchaser
35-3W-18.00 B	0.09	BLM	NAT	Purchaser
35-3W-18.01	0.23	AP Timber	NAT	Purchaser
35-3W-19.00A1-B1	0.64	BLM	ASC	Purchaser
35-3W-19.00 B2	0.08	BLM	NAT	Purchaser
35-3W-19.01 A	0.37	BLM	ASC	Purchaser
35-3W-19.01 B	0.53	AP Timber	PRR	Purchaser
35-3W-19.03	0.25	BLM	ASC	Purchaser
35-3W-20.00A1-B2	2.98	BLM	ASC	BLM
35-3W-27.05 A	0.27	BLM	ASC	Purchaser
35-3W-27.05 B	0.41	BLM	NAT	Purchaser
35-3W-28.01 A	0.08	System Global	ASC	BLM
35-3W-28.01 B	0.59	BLM	ASC	BLM
35-3W-28.02A1-B2	2.90	BLM	ASC	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) 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-2b: The Purchaser shall pay the Government a road maintenance and rockwear fee of eight thous and twenty one and 20/100 dollars (\$8,021.20) for the transportation of timber included in this contract price over said roads. The above maintenance amount is for the use of 6.55 miles of road or less. 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 obligations.
- 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 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. 35-3W-18.01 and 35-3W-19.01 B, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No M-660J, between the United States of America and AP

Timber, LLC. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road rockwear obligation of <u>eighty six and 28/100</u> dollars (\$86.28) to AP Timber, 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.
- (10) R-3: In the use of Road No. 35-2E-28.01 A, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-600K, between the United States of America and System Global Timberlands, LLC. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road rockwear obligation of **forty seven and 89/100 dollars** (\$47.89) to System Global Timberlands, 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 Page 17 of 33

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.

- (12) 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.
- (13) 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.
- 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.

(14) 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.

(D) Environmental Protection

(1) <u>E-1</u> During operations the operator would be required to have a BLM-approved spill plan or other applicable contingency plan. In the event of any release of oil or hazardous substance, as defined in Oregon Administrative Rules (OAR) 340-142-0005 (9)(d) and (15), into the soil, water, or air, the operator would immediately implement the site's plan. As part of the plan, the operator would be required to have spill containment kits present on the site during operations. The operator would be required to be in compliance with OAR 629-605-0130 of the Forest Practices Act, Compliance with the Rules and Regulations of the Department of Environmental Quality. Notification, removal, transport, and disposal of oil, hazardous substances, and hazardous wastes would be accomplished in accordance with OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements, contained in Oregon Department of Environmental Quality regulations (SP-05, SP-06, and SP-07).

In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. In addition, such plan shall follow all applicable State of Oregon Department of Environmental Quality guidelines for spill prevention and containment of petroleum products (Oregon

Administrative Rules, Chapter 340, Department of Environmental Quality, Division 142, Oil and Hazardous Materials Emergency Response Requirements).

(2) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall Store all hazardous materials and petroleum products in durable containers placed outside of Riparian Reserves. Locate so an accidental spill would be contained nor drain into any stream system (SP-03).

Refuel equipment a minimum of 150 feet from streams, ponds, or other wet areas. Store equipment containing reportable quantities of toxic fluids outside of the Riparian Reserve. Hydraulic fluid and fuel lines would be in proper working condition in order to minimize leakage into streams (SP-03).

(3) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only be allowed to use equipment that is free of noxious weed seeds prior to entering federal lands in the contract area as shown on Exhibit A.

If equipment is not considered free of noxious weed seeds by the Government, it shall be cleaned prior to entering federal lands. Cleaning shall be defined as removal from all surfaces including the under carriage any dirt, grease, plant parts, and material that may carry noxious weed seeds onto federal lands. Cleaning prior to entering federal lands may be accomplished by using a pressure hose. Equipment shall be subject to visual inspection by the Government to certify that the equipment is free of noxious weed seeds. Only equipment inspected by the government shall be allowed to operate on federal lands within the contract area. The purchaser shall make equipment available for government inspection at an agreed upon location off federal lands prior to any move-in of equipment.

Requirements as outlined above may be waived by the Government if move-in is from one "weed free area" to another "weed free area", as determined by the Government, or as conditions warrant.

(4) E-1 In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall block all temporary roads, and newly constructed landings (except landings located along temp spurs to be decommissioned), and at any location where an existing barricade has been removed to provide access to units as shown on exhibit A. Temporary roads, and newly constructed landings (except landings located along temp spurs to be decommissioned) shall be blocked in the same season of use (generally by October 15). 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%.

- (5) <u>E-1</u> 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.
- (6) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall barricade and place woody debris or other appropriate barriers (e.g. rocks, logs, and slash) on the first one hundred (100) feet of predesignated skid trails, designated skid trails, and forwarder trails leading off system roads or landings in all ground-based yarding units shown on Exhibit A, by October 15 of the year of harvest.
 - Block skid trails by October 15 of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season. (TH-11 and TH 19)
- (7) <u>E-1</u> In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall:
 - (a) Decompact (using a subsoiler, wing-toothed subsoiler, excavator, or equivalent) all temporary routes and associated landings to a depth of 18 inches or bedrock (whichever is shallower). Avoid subsoiling areas near tree roots and where there are rocks larger than 2 feet across.
 - (b) Decompact all temporary roads, and newly constructed landings, as shown on Exhibit A. All ripping activities shall be performed in the same season of use. If hauling on a temporary route, road to be decommissioned, 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%.
 - (c) Seed and mulch all temporary roads, and newly constructed landings within the project area as shown on Exhibit A. between September 1 and October 31, and/or between February 1 and March 31 in the same year constructed. Seed must be native species, site-specific, and approved by the field office botanist. 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%.
 - (d) Seed and mulch all predesignated skid trails, designated skid trails, and forwarder trails used for logging activities in all ground based units as shown on Exhibit A, beginning where the trail takes off of system roads, or landing areas for a distance of one hundred (100) feet, or as needed, as determined by the authorized officer. Apply native, site-specific seed approved by the field office botanist and weed-free straw between September 1 and October 31, and/or between February 1 and March 31 of the year of harvest.

Prior to fall rains, the Purchaser shall scarify and contour landings and temporary logging road spurs to provide for adequate drainage, then stabilize and revegetate all bare soil with certified weed free straw mulch and a native seed mixture approved by the Authorized Officer. Landings on rock that lack soil for seed germination need not be seeded or mulched, as determined by the Authorized Officer. The BLM may provide the seed mixture and straw mulch if the purchaser is unable to locate and buy the approved materials from a commercial source. The Purchaser shall reimburse the government for the cost of seed and straw, if provided by the government.

The Purchaser shall furnish the specific seed mixture prescribed by the Authorized Officer, which will include up to 3 grasses and 2 forbs from the following list, but may include substitutions approved by the Authorized Officer:

Grasses: Achnatherum lemmonii, Bromus carinatus, Brumus vulgaris, Elymus glaucus, Festuca californica, Festuca roemeri, Koeleria macrantha, Poa secunda, Vulpia microstachys

Forbs: Achillea millefolium, Clarkia purpurea, Clarkia rhomboidea, Collinsia grandiflora, Eriophyllum lanatum, Lupinus bicolor, Madia elegans, Madia gracilis The proportion of each species in the mixture shall be prescribed by the Authorized Officer.

The Purchaser shall apply prescribed seed and straw mulch to acres designated for treatment, as directed by the Authorized Officer, at the following rates of application:

Grass seed 20 to 25 lbs/acre (cumulative, all species) Forb seed 0.5 to 2 lbs/acre (cumulative, all species)

Straw mulch 1000 lbs/acre

The Purchaser shall apply seed and straw mulch between August 1 and October 15. Deviations from that timing must be approved by the Authorized Officer. The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date that he/she intends to commence revegetation and soil stabilization work.

If the Purchaser furnishes seed from any source other than the BLM, that seed shall meet the following minimum test standards:

Test	Grasses	(%)	Forbs (%)
Purity:		95	80
Germination:		85	70
Other species/weed content (max):		0.2	0.2
Noxious weed content:	Prol	nibited	Prohibited

Furnished seed shall meet the minimum requirements for either Yellow Tag Source Identified Seed or Blue Tag Certified Class Seed, as defined by the

Association of Official Seed Certifying Agencies. Seed source shall be approved by the Authorized Officer and shall be from the EPA Level III Ecoregion in which the project occurs. For each lot of seed, the Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (e.g., Oregon State University), which shall include: test date; lot number; seed source; and results of test for purity, germination, and weed content. All seed lots must have been tested within the previous 12 months to be accepted. Seed that has become wet, moldy, or otherwise damaged shall not be accepted. Seed must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work.

If the Purchaser furnishes straw mulch from any source other than the BLM, the material must be from native grass or other approved sterile grain crops that are certified weed free and free of mold or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for spreading in a uniform manner. Straw mulch must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work.

- (10) <u>E-2</u> The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C-10, which is attached hereto and made a part hereof.
 - (a) Water-bar all temporary roads and newly constructed landings, shown on Exhibit A, 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%.
 - (b) Water-bar all pre-designated skid trails, designated skid trails, and forwarder trails used for logging activities in all ground based units shown on Exhibit A., at locations approved by the authorized officer, by October 15 of the year of harvest. Install waterbars at the same time as subsoiling (if both are required) unless skid trails are needed to complete harvest the following season. In that case, water bars would be constructed and straw would be applied to exposed soil prior to fall rains to reduce sedimentation during winter months. Water bar spacing on tractor skid trails would be based on the RMP erosion-control measures for timber harvest, which considers slope and soil series. (TH-16 and TH-17).
- (11) <u>E-3</u> The Purchaser shall immediately discontinue specified construction or timber 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, or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP), 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;
- (g) species 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, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
- (h) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines 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 (h) of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

In the event of a suspension period or a combination of suspension periods that exceed a total of 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.

The 30 days can be the sum of days accruing during more than one operating season. Reappraisal may result in a decrease to the unit price bid per species. Reappraisal will be based on the loss of net volume due to the deterioration of logs during the period of delay and any associated changes in the amortization of logging costs per unit of volume, as determined by the Authorized Officer. Amortization of road construction cost over a reduced net volume will be considered as well as any additional move-in or logging costs caused by the delay,

as determined by the Authorized Officer. Reappraisal will adjust Exhibit B volume and values, and will <u>not</u> consider changes in the market price of timber. 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 occupied marbled murrelet sites in accordance with the ROD and RMP, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, marbled murrelet occupied site protection in accordance with the ROD and RMP, 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.
- (12) <u>E-5</u> 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.

(E) Miscellaneous

M-2 The Government at its option may check scale any portion of the timber (1) removed from the contract area. The Purchaser hereby agrees to make such contract timber available for scaling at a location designated by the Authorized Officer. In the event that BLM elects to 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 fourteen hundred thirty-two dollars and fifty cents (\$1,432.50). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of \$0.75 per net thousand board foot of timber scaled 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.

(F) Fire Prevention and Control

- (1) <u>F-1a Fire Prevention and Control</u>. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 - (a) 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 State of Oregon, Department of Forestry.
 - (b) Provide and maintain in good repair, on the contract area, the following equipment for use during closed fire season or periods of fire danger:

- 1. F-2a Firefighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever people are working on the contract area. All firefighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered 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 not be less than four (4) tools in each box nor less than one (1) tool for each person working on the contract area. Three-fourths (34) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.
- 2. <u>F-2b</u> 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 during periods of operation one (1) tank truck. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute (ORS) 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.410 as amended or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.
- 4. <u>F-2d</u> Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area and Medford, Oregon. Such communication shall be available during periods of operation including the time watch-service is required.
- 5. <u>F-2e</u> 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 firefighting and construction of fire trails at night.
- 6. <u>F-2f</u> A headlight for each person 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. It shall be equipped with a battery case so designed that it can be either carried in the hip pocket or fastened to the belt. The head of the light and the battery case shall be connected by insulated wires. At least one extra set of batteries shall be provided for each such headlight.

- 7. <u>F-2g</u> 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 Oregon State Forester shall be carried during the closed fire season or periods of fire danger by each saw operator 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. A size "0" or larger shovel shall be available with each gas can when refueling. 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 Oregon State Forester.
- (2) <u>F-5</u> 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) <u>F-8</u> 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.
- (G) Slash Disposal and Site Preparation
 - 1) <u>SD-4 Logging Residue Reduction</u>. In addition to the requirements of Sect.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 logging residue reduction and site preparation measure(s) required by this contract:

- 2) 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.
- 3) 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.
- 4) 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.
- 5) <u>SD-1f</u> <u>LOP AND SCATTER</u> Lop and scatter all slash as directed by the Authorized Officer, concurrently with normal felling operations. All tops and side branches must be free of the central stem so that such slash is reduced to the point that it is within eighteen (18) inches of the ground at all points.
- 6) <u>SD-4a</u> <u>SLASHING DAMAGED RESIDUALS</u>. 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 Authorized Officer. All slashing is to be completed prior to any required piling of slash.
- 7) <u>SD-1h</u> <u>HANDPILE</u> 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 (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 (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 exceedsix (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.
- 8) <u>SD-1i</u> <u>LANDING PILES</u> In all units as shown in the Exhibit A, pile all slash located within fifty (50) feet on each side of each landing. Slash shall be piled by a grapple loader. Finished piles shall be tight and free of earth.
 - (a) A ten (10) foot by ten (10) foot cover of four (4) mil black plastic shall cap each pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Landings shall be piled and covered during the same season that they are logged.
- 9) <u>SD-5</u> Perform logging residue reduction and site preparation work on approximately one hundred twenty-five (125) acres of harvest area as directed by the Authorized Officer.
 - (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.

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

Treatment/Level	Cost Per	Number of	Total Cost Per
	Acre	Acres	Treatment Type
Hand Pile Slash	\$580.00	50	\$29,000.00
Lop and Scatter L2	\$48.00	75	\$3,600.00
Total Appraised Cost			\$32,600.00

(c) The total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 41(G)(2)(a) differs from: Forty Eight thousand three hundred dollars (\$32,600.00) as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 41(G)(2)(a).

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.

(H) Quarry Development

- (1) Q-1 The Purchaser shall develop a rock quarry in strict accordance with the plans and specifications shown on Exhibit C-11 which is attached hereto and made a part hereof. Exhibit C-11 contains 1 sheet.
 - (a) Q-1b Any quarry access road construction and site preparation shown on exhibit C-11 shall be completed at each quarry location shown on Exhibit C-11 prior to removal of any rock from such area.

	(I) Equa	1 Opportunity	in Employmen
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(1) Certification of Nonsegregated Facilities attached hereto and made a part hereof.

Seasonal Restriction Matrix Gold Sardine Timber Sale ORM05-TS18-9 Sheet 1 of 1

*Possible Waived Times are Hatched *Restricted Times are Shaded

15 15 Fuels chainsaw site prep, prescribed burning Fuels chainsaw site prep, prescribed burning Barricade and/or waterbar construction Log processing, loading, log hauling Road and/or landing construction ¹ Hand timber falling and bucking Hand timber falling and bucking Road/skid trail blocking, Ground based yarding Helicopter operations Road reconstruction Helicopter yarding Seeding, mulching Roadside brushing Road renovation 1 Chainsaw use 3 Road rocking³ Road grading 3 Soil ripping ¹ Activity (spotted owl) 35-3-19.0 Haul Routes (Spotted Owl) 19-1,19-2 35-3-20.0 Sale Area All Other

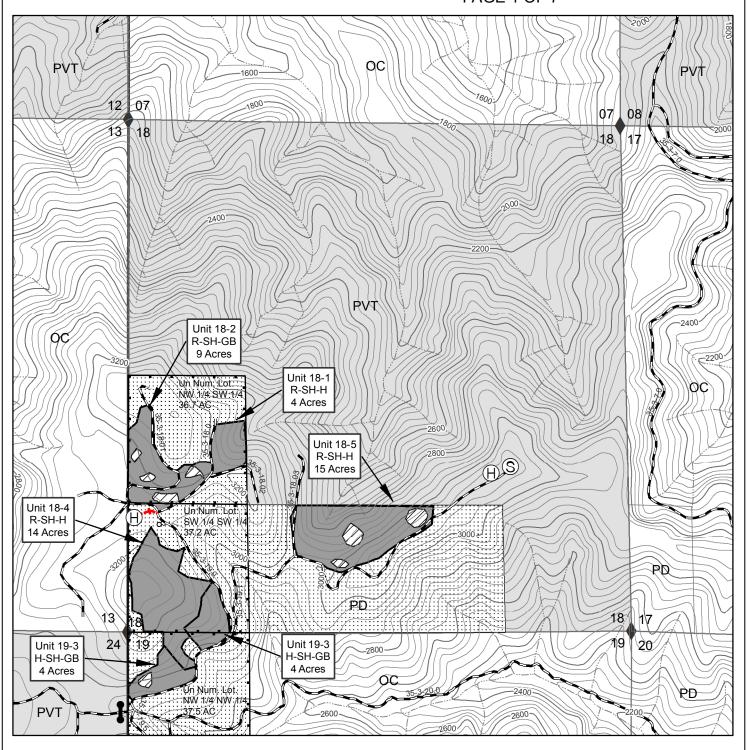
¹ Wet season restrictions may be shortened or extended depending on weather conditions.

² Hauling restriction may be shortened or extended (see L-19 in contract)

³ Spotted Owl seasonal restrictions from March 1 through September 30 may be shortened if it is determined that spotted owl nesting and/or fledgling activities are not occurring

in the area.

U.S.D.I. BLM MEDFORD DISTRICT SALE NO.2018-09 T35S-R03W SECTION 18, WILL. MER GOLD SARDINE TIMBER SALE TIMBER SALE CONTRACT MAP CONTRACT NO.ORM05-TS-2018-09 EXHIBIT A PAGE 1 OF 7



Medford District BLM August 2018

1 inch = 1,000 feet

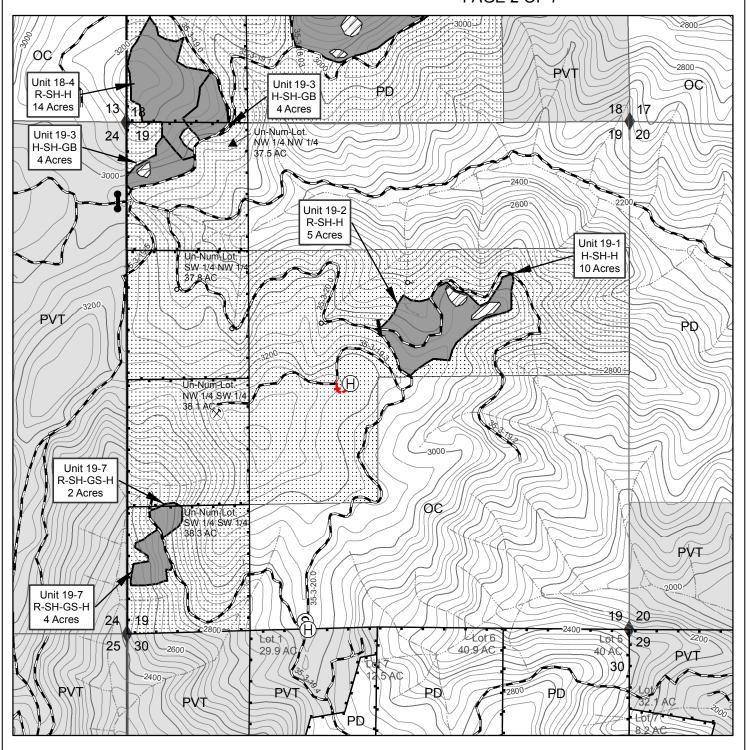
Contours = 40 feet







U.S.D.I. BLM MEDFORD DISTRICT SALE NO.2018-09 T35S-R03W SECTION 19, WILL. MER GOLD SARDINE TIMBER SALE TIMBER SALE CONTRACT MAP CONTRACT NO.ORM05-TS-2018-09 EXHIBIT A PAGE 2 OF 7



Medford District BLM August 2018

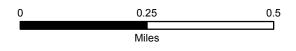
1 inch = 1,000 feet

Contours = 40 feet

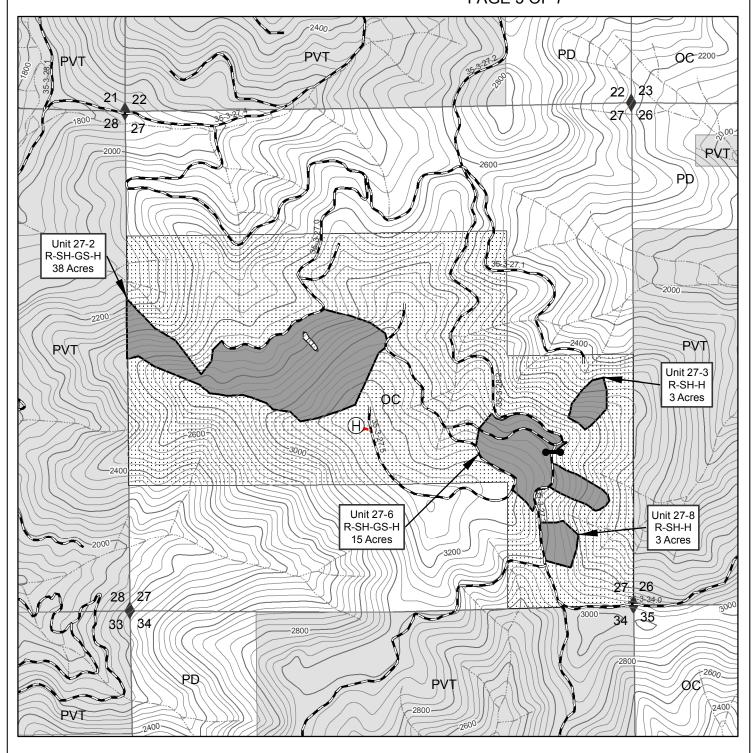






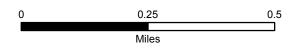


U.S.D.I. BLM MEDFORD DISTRICT SALE NO.2018-09 T35S-R03W SECTION 27, WILL. MER GOLD SARDINE TIMBER SALE TIMBER SALE CONTRACT MAP CONTRACT NO.ORM05-TS-2018-09 EXHIBIT A PAGE 3 OF 7



Medford District BLM August 2018



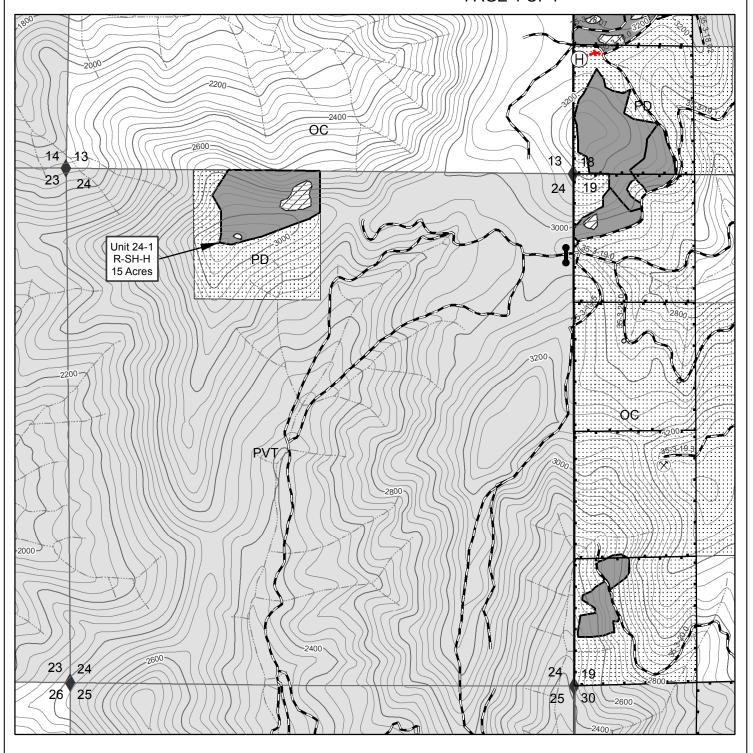


1 inch = 1,000 feet

Contours = 40 feet

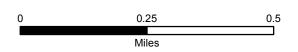


U.S.D.I. BLM MEDFORD DISTRICT SALE NO.2018-09 T34S-R04W SECTION 24, WILL. MER GOLD SARDINE TIMBER SALE TIMBER SALE CONTRACT MAP CONTRACT NO.ORM05-TS-2018-09 EXHIBIT A PAGE 4 OF 7



Medford District BLM August 2018





1 inch = 1,000 feet

Contours = 40 feet



U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 2018-09 T. 35S. R. 03W., SEC 18, 19, 27 WILL. MER. T. 35S. R. 04W., SEC 24 WILL. MER. GOLD SARDINE TIMBER SALE

*** Temporary Spur Road

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM05- TS-2018-09 EXHIBIT A PAGE 5 OF 7

Legend

- Helicopter

 Log
 Service

 Helicopter

 X Transmission Line
 Stream

 40 ft. Intermediate Contour

 200 ft. Index Contour
 - Found Corner Boundary of Cutting Area
- SpringGovernment LotQuarryContract Area
- Water Source
 BLM Administered Land
- Gate, Existing

 Non-BLM Land

 Barricade, Existing
- Skip Reserve Areas

 Road

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 2018-09 T. 35S. R. 03W., SEC 18, 19, 27 WILL. MER. T. 35S. R. 04W., SEC 24 WILL. MER. **GOLD SARDINE TIMBER SALE**

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM05- TS-2018-09 **EXHIBIT A** PAGE 6 OF 7

SELECTION HARVEST (BLUE PAINT) H - SH - GB

GROUND BASED: UNITS: 19-3

R-SH-GB SELECTION HARVEST (ORANGE PAINT)

GROUND BASED: UNITS: 18-2

H-SH-H SELECTION HARVEST (BLUE PAINT)

HELICOPTER: UNITS: 19-1

R-SH-H SELECTION HARVEST (ORANGE PAINT)

HELICOPTER: UNITS: 18-1, 18-4, 18-5, 19-2, 24-1, 27-3, 27-8

SELECTION HARVEST, GROUP SELECTION (ORANGE PAINT) R-SH-GS-H

HELICOPTER: UNITS: 19-7, 27-2, 27-6

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 18-09
T. 35S. R.4W., SEC.24, WILL. MER.
T. 35S. R. 3W., SEC. 18, 19, 27, Will. MER.
GOLD SARDINE TIMBER SALE

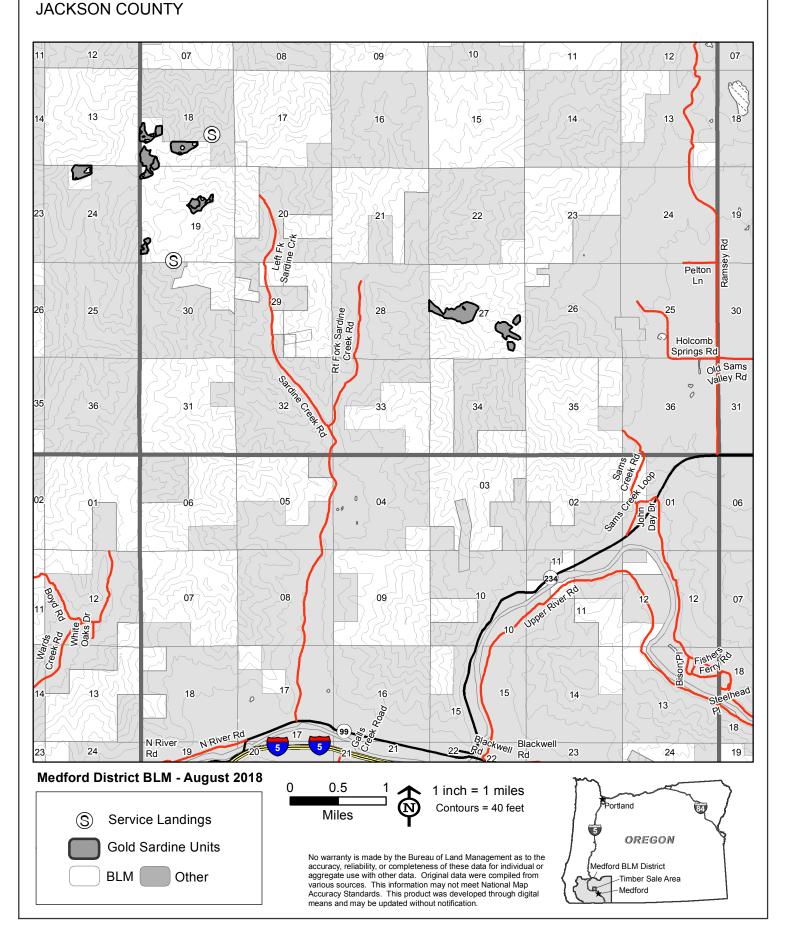
TIMBER SALE CONTRACT MAP CONTRACT NO. ORM05-TS18-09 EXHIBIT A

PAGE 7 OF 7

Section	Unit Number	Unit		Reserve	Contract
Number		Acres		Acres	Acres
18	18-1, 18-2, 18-4, 18-5, HL18		43		
19	19-1, 19-2, 19-3, 19-7, HL19		30	204	234
24	24-1		15	25	40
27	27-2, 27-3, 27-6, 27-8		59	221	280
	Total	s 1	147	561	708

U.S.D.I. BLM MEDFORD DISTRICT SALE NO.2018-09 GOLD SARDINE TIMBER SALE BUTTE FALLS RESOURCE AREA

TIMBER SALE LOCATION MAP CONTRACT NO.ORM05-TS-2018-09



UNITED STATES DEPARTMENT OF THE INTERIOR

Bureau of Land Management

District: Medford

Sale Number: ORM00-TS-18-09

Sale Name: Gold Sardine TS Re-offer

Stumpage Computation

	Pond	Logging	Profit &	Marg.	Stumpage
Species	Value	Costs (-)	Risk (-)	Logs (+)	
Douglas-fir	\$628.20	\$530.86	\$69.10	\$0.00	\$28.24
White Fir	\$458.85	\$530.86	\$50.47	\$0.00	(\$122.48)
Ponderosa Pine	\$313.04	\$530.86	\$34.43	\$0.00	(\$252.25)
Incense Cedar	\$561.52	\$530.86	\$61.77	\$0.00	(\$31.11)

Appraised Price Summary

		Unrounded Stumpage & Value		Adjuste	d Appraised Price
Species	Volume	\$/M	Value	\$/M	Value
Douglas-fir	1,825.0	\$28.24	\$51,538.00	\$20.20	\$36,865.00
White Fir	58.0	(\$122.48)	(\$7,103.84)	\$14.70	\$852.60
Ponderosa Pine	23.0	(\$252.25)	(\$5,801.75)	\$10.10	\$232.30
Incense Cedar	13.0	(\$31.11)	(\$404.43)	\$18.00	\$234.00
TOTALS	1,919.0				\$38,183.90

This sale does not meet the OR/WA BLM minimum price policy of 10% of pond value. The State Director has given approval to sell this re-offer timber sale at 3.2% of pond value, with deficit/surplus adjustments.

Approved by: Aaron Worman Acting District C/A 6/23/21



United States Department of the Interior Bureau of Land Management

Timber Appraisal

Sale Name: Gold Sardine

BLM District: Medford DO

Contract #: ORM05-TS-2018.0009

Sale Type: Adv

Advertised

Sale Date:

Thursday, August 23, 2018

Unit of Measure:

16' MBF

Contract Term:

36 months

Contract Mechanism: 5450-3

Sale of Timber - Lump Sum

Content

Timber Appraisal Summary Stumpage Summary Unit Summary Stump to Truck Transportation

Engineering Allowances Other Allowances

Prepared By: Parks, Corey J Approved By: Rentz, George C

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
PD	Jackson	358	4W	24	NE1/4NW1/4.	Willamette
PD	Jackson	35\$	3W	18	Un-Num Lot NW1/4SW1/4, Un-Num Lot SW1/4SW1/4, SE1/4SW1/4, SW1/4SE1/4.	Willamette
O&C	Jackson	35\$	3W	19	Un-Num Lot NW1/4NW1/4, Un-num Lot NW1/4SW1/4, Un-Num Lot SW1/4SW1/4, SE1/4NW1/4, S1/2NE1/4, NE1/4SW1/4.	Willamette
O&C	Jackson	35\$	3W	27	S1/2NW1/4, N1/2SW1/4, E1/2SE1/4, NW1/4SE1/4.	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	1,825.0	1,909.0	1,911.0	32,081	122	7,562
White Fir	58.0	62.0	62.0	1,252	0	216
Ponderosa Pine	23.0	24.0	24.0	713	0	187
Incense-cedar	13.0	14.0	14.0	314	0	102
Totals	1,919.0	2,009.0	2,011.0	34,360	122	8,067

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
the second secon			×	
0.0	145.0	3.0	148.0	13.0

Logging	Costs
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Total:	\$1,005,043.79
Other Allowances	\$40,726.00
Road Use	\$0.00
Maintenance/Rockwear	\$26,663.16
Road Construction	\$137,172.33
Transportation	\$68,004.65
Stump to Truck	\$732,477.65

Total Logging Cost per MBF:

\$523.73

Utilization Centers

Location	Distance	% of Net Volume
White City, OR	25.0 miles	100 %
	Profit & Ris	k -
Basic Profit & Ris	k	9 %
Additional Risk		3 %
Total Profit & Ris	sk	12 %

Tract Features

Quadratic Mean DBH	14.7 in
Average GM Log	58 bf
Average Volume per Acre	13.0 mbf
Recovery	95 %
Net MBF volume:	
Green	1,919.0 mbf
Salvage	0 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	9 %
Average Yarding Slope	10 %
Average Yarding Distance	250 ft
Cable Logging:	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft
Aerial Logging:	32
Percent of Sale Volume	91 %
Average Yarding Slope	50 %
Average Yarding Distance	1950 ft

Cruise

Cruise Completed

July 2018

Cruised By

Darner, Parks, Siemer, Worman

Cruise Method

3P all species DF, WF, PP, IC. Sample tree maps available at Medford District Office.

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF		Appraised Value
Douglas Fir	7,562	1,825.0	\$821.65	\$98.60	\$523.73	\$0.00	\$199.30	10	\$363,722.50
White Fir	216	58.0	\$606.44	\$72.77	\$523.73	\$0.00	\$60.70	*	\$3,520.60
Ponderosa Pine	187	23.0	\$460.95	\$55.31	\$523.73	\$0.00	\$46.10	*	\$ <mark>1,060.30</mark>
I <mark>ncense-</mark> cedar	102	13.0	\$679.20	\$81.50	\$523.73	\$0.00	\$74.00		\$962.00
Totals	8,067	1,919.0							\$369,265.40

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			8.0 %	53.0 %	33.0 %	6.0 %	
Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
White Fir				50.0 %	45.0 %	5.0 %	
Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Ponderosa Pine				19.0 %	67.0 %	14.0 %	
Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Incense-cedar				48.0 %	39.0 %	13.0 %	

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Unit Summary

ORM05-TS-2018.0009

			_
He	it:	18-	.1
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Out: 10-1				
Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	52.0	54.0	54.0	262
Ponderosa Pine	2.0	2.0	2.0	- 19
White Fir	0.1	0.1	0.1	1
Totals:	54.1	56.1	56.1	282

Net	Volume	/Acre	13.5	MBF
1461	VOIGITIE	ACI C.	10.0	IVIDI

1100 10101110/110101	
Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 18-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	94.0	99.0	99.0	594
Ponderosa Pine	7.0	7.0	7.0	60
White Fir	0.3	0.3	0.3	2
Incense-cedar	0.3	0.4	0.4	4
Totals:	101.6	106.7	106.7	660

Net Volume/Acre: 11.3 MBF

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

Unit: 18-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	133.0	139.0	139.0	698
White Fir	4.0	4.9	4.9	11
Ponderosa Pine	2.0	2.0	2.0	20
Incense-cedar	0.3	0.4	0.4	5
Totals:	139.3	146.3	146.3	734

Net Volume/Acre: 9.3 MBF

Regeneration Harvest	0.0
Partial Cut	15.0
Right of Way	0.0
Total Acres:	15.0

Unit: 18-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	223.0	233.0	233.0	1,152
Ponderosa Pine	0.8	0.9	0.9	8
Totals:	223.8	233.9	233.9	1,160

Net Volume/Acre: 14.9 MBF

Regeneration Harvest	0.0
Partial Cut	15.0
Right of Way	0.0
Total Acres:	15.0

Unit: 19-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	63.0	66.0	66.0	331
White Fir	10.0	10.0	10.0	31
Incense-cedar	2.0	2.0	2.0	17
Totals:	75.0	78.0	78.0	379

Net Volume/Acre: 8.3 MBF

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

Unit: 19-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	42.0	44.0	44.0	216
White Fir	30.0	32.0	32.0	124
Incense-cedar	1.3	1.3	1.3	18
Ponderosa Pine	0.1	0.1	0.1	1
Totals:	73.4	77.4	77.4	359

Net Volume/Acre: 14.7 MBF

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
Total Acres:	5.0

Unit: 19-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	57.0	60.0	60.0	242
Ponderosa Pine	3.0	3.0	3.0	17
White Fir	1.8	1.9	1.9	7
Incense-cedar	0.4	0.5	0.5	4
Totals:	62.2	65.4	65.4	270

Net Volume/Acre: 7.8 MBF

Regeneration Harvest	0.0
Partial Cut	8.0
Right of Way	0.0
Total Acres:	8.0

Unit: 19-7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	118.0	123.0	123.0	343
Ponderosa Pine	1.3	1.4	1.4	5
Totals:	119.3	124.4	124.4	348

Net Volume/Acre: 19.9 MBF

Regeneration Harvest	0.0
Partial Cut	6.0
Right of Way	0.0
Total Acres:	6.0

Unit: 24-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	209.0	220.0	221.0	895
Ponderosa Pine	0.4	0.4	0.4	4
Totals:	209.4	220.4	221.4	899

Unit: 27-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	517.0	541.0	542.0	1,839
Ponderosa Pine	0.6	0.6	0.6	3
Incense-cedar	0.3	0.3	0.3	2
Totals:	517.9	541.9	542.9	1,844

Unit: 27-3

Species		Net		Gross Merch		Gross	# of Trees
Douglas Fir		4	5.0	4	7.0	47.0	111
	Totals:		5.0	4	7.0	47.0	111

Unit: 27-6

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	219.0	229.0	229.0	708
Ponderosa Pine	0.6	1.4	1.4	15
Incense-cedar	0.1	0.1	0.1	1
Totals:	219.7	230.5	230.5	724

Net Volume/Acre: 14.0 MBF

Regeneration Harvest	0.0
Partial Cut	15.0
Right of Way	0.0
Total Acres:	15.0

Net Volume/Acre: 13.6 MBF

Regeneration Harvest	0.0
Partial Cut	38.0
Right of Way	0.0
Total Acres:	38.0

Net Volume/Acre: 15.0 MBF

Regeneration Harvest	0.0
Partial Cut	3.0
Right of Way	0.0
Total Acres:	3.0

Net Volume/Acre: 14.6 MBF

15.0
0.0
15.0
0.0

Unit: 27-8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	35.0	36.0	36.0	121
Ponderosa Pine	1.2	1.2	1.2	8
Incense-cedar	0.2	0.2	0.2	2
Totals:	36.4	37.4	37.4	131

Net Volume/Acre: 12.1 MBF

Regeneration Harvest	0.0
Partial Cut	3.0
Right of Way	0.0
Total Acres:	3.0

Unit: Sec.18 heli landing

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	6.0	6.0	6.0	35
Ponderosa Pine	4.0	4.0	4.0	27
Incense-cedar	3.0	3.0	3.0	23
White Fir	0.8	0.8	0.8	4
Totals:	13.8	13.8	13.8	89

Net Volume/Acre: 13.8 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	1.0
Total Acres:	1.0

Unit: Sec.19 heli landing

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	12.0	12.0	12.0	15
White Fir	11.0	12.0	12.0	36
Incense-cedar	5.1	5.8	5.8	26
Totals:	28.1	29.8	29.8	77

Net Volume/Acre: 14.1 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	2.0
Total Acres:	2.0

Total Stump To Truck	Net Volume	\$/MBF
\$732,477.65	1,919.0	\$381.70

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	1,838.0	\$386.49	\$710,368.62	
Wheel Skidder	GM MBF	171.0	\$110.73	\$18,934.83	
Subtotal				\$729,303.45	

Additional Costs

Item		# of Units of Measure	\$/Unit of Measure	Total Cost
Hand fall 22"+ DBH	MBF	30.0	\$42.34	\$1,270.20
Subtotal				\$1,270.20

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Shovel	Hour	4.0	\$134.00	\$536.00	Shovel = loader move from sec 27 to sec 18
Harvester/Skidder	Hour	8.0	\$107.00	\$856.00	harvest equipment
Track Skidder	Hour	4.0	\$64.00	\$256.00	track skider = delimber
Track Skidder	Hour	4.0	\$64.00	\$256.00	ripping cat
Subtota	al			\$1,904.00	

Comments:

Wheel skidder = ground based systems.

Hand falling 22" + DBH= oversized in ground based units

Gold Sardine Transportation ORM05-TS-2018.0009

Total	Net Volume	\$/MBF
\$68,004.65	1,919.0	\$35.44

Utilization Center	One Way Mileage		Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
White City, OR		25.0	All Species	GM MBF	2,009.0	\$33.85	\$68,004.65	100 %

Engineering Allowances

Total	Net Volume	\$/MBF
\$163,835.49	1,919.0	\$85.38

Cost Item	Total Cost	
Road Construction:		\$137,172.33
Road Maintenance/Rockwear:		\$26,663.16
Road Use Fees:		\$0.00

Comments:

See engineering appraisal for full details.

Other Allowances ORM05-TS-2018.0009

Total
\$40,726.00

Environmental Protection

Cost item	Total Co	st
Barricade		\$440.00
Waterbar skids		\$600.00
Equipment washing #2		\$1,000.00
Equipment Washing #1		\$1,110.00
Seed & mulch		\$1,612.00
Ripping		\$1,684.00
	Subtotal	\$6,446.00

Logging

Cost item	Total C	ost
Skid location		\$550.00
Landing Construction		\$300.00
Falling, bucking, skidding 40"+ DBH		\$500.00
	Subtotal	\$1,350.00

Slash Disposal & Site Prep

Cost item	Total Co	ost
Lop and scatter/slash residuals		\$3,600.00
Landing cleanup		\$330.00
Hand pile and cover		\$29,000.00
	Subtotal	\$32,930.00

Comments:

Gold Sardine

Falling, bucking, skidding 40"+ DBH trees in heli landing in sec. 19
Equipment washing #1 = loaders, both sides. Equipment washing #2 = all other equipment including ripping cat.
Landing construction = incidental work

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT GOLD SARDINE TIMBER SALE TRACT NO. ORMO5-TS-2018.0009

PROJECT LOCATION

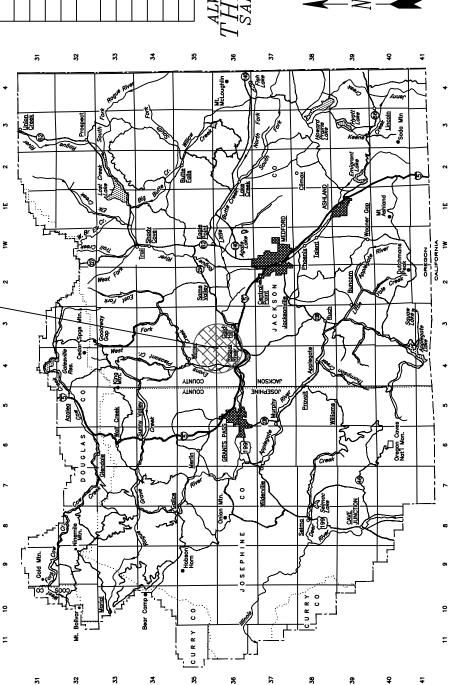


EXHIBIT C-1SHEET 1 OF 1

Exhibit No.	Description
C-1	TITLE SHEET
C-2	ROAD LOCATION MAP
C-3	ESTIMATE OF QUANTITIES
C4	TYPICAL ROAD DATA
C-5	ROADSIDE BRUSHING DETAILS
C-6	CULVERT LIST
C-7	CULVERT INSTALLATION DETAILS
C-8	CULVERT BAND DETAILS
C-9	ARMORED WATER DIP DETAILS
C-10	DRAINAGE AND EROSION CONTROL DETAILS
C-11	ROAD RENOVATION WORK LIST
C-12	TEMP ROUTE AND HELICOPTER LANDING CONSTRUCTION WORKLIST
C-13	ROAD SPECIFICATIONS
C-14	SPECIAL PROVISIONS
D-1	ROAD MAINTENANCE SPECIFICATIONS
D-2	ROAD MAINTENANCE MAP
D-3	ROAD DECOMMISSIONING WORKLIST
D-4	ROAD DECOMMISSIONING MAP





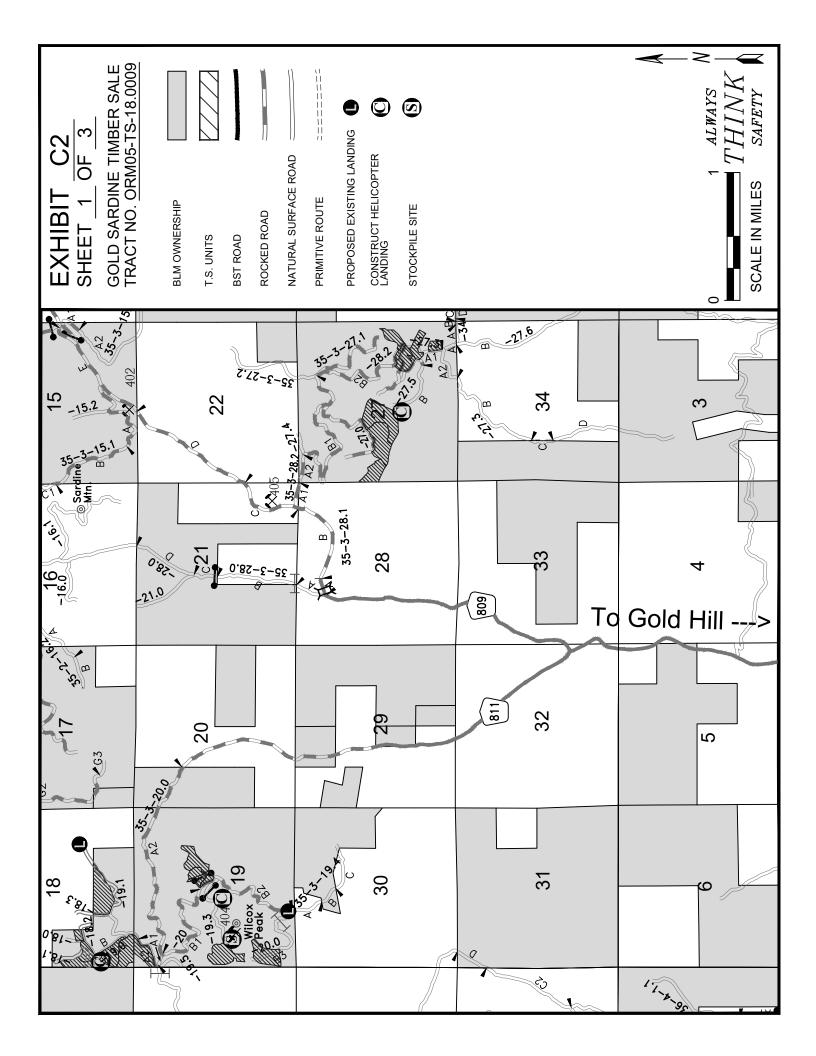
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MEDFORD DISTRICT	ı	MEDFORD, OREGON	DREGON

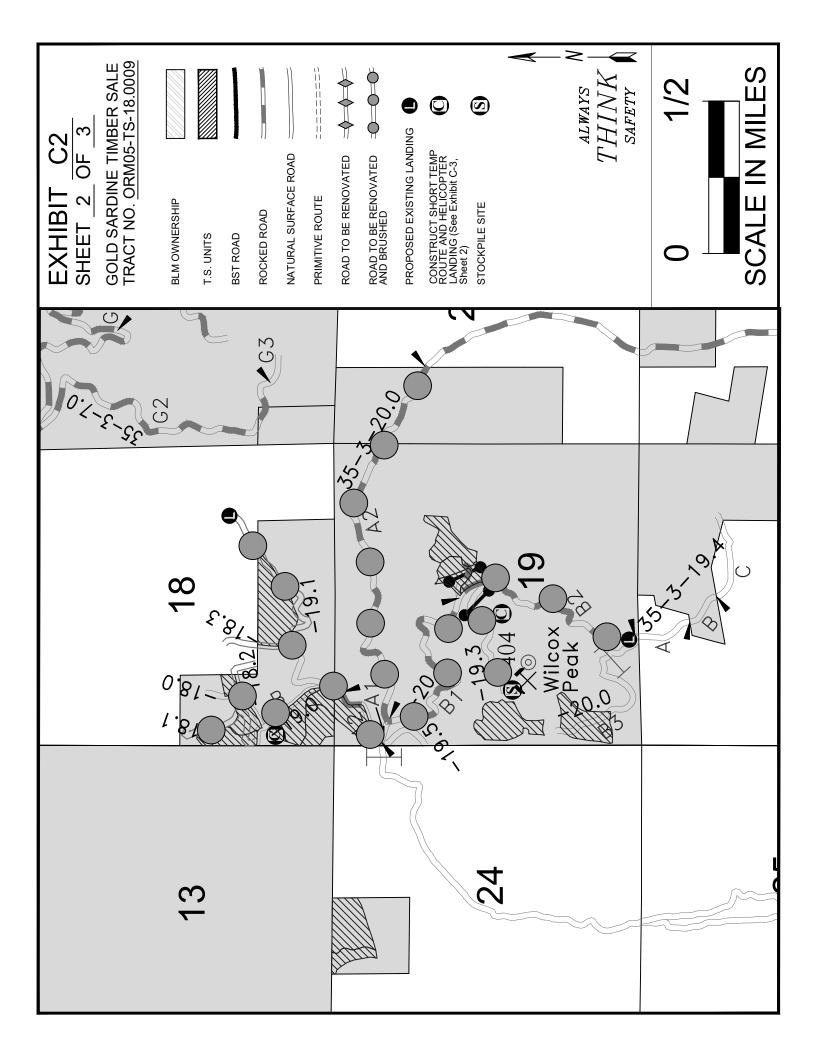
GOLD SARDINE TITLE SHEET

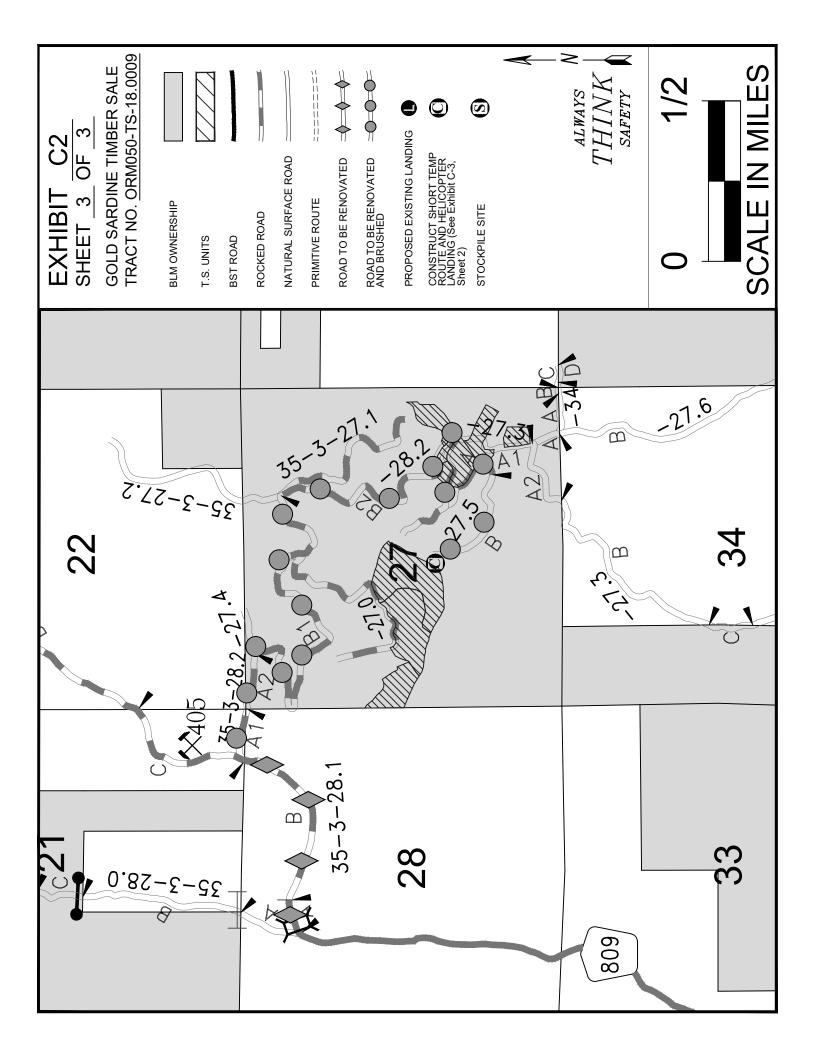
			SCALE AS SHOWN	SHEET 1 OF 1
				DATE JUNE 2021
SNED	WED	OVE	¶ ∂AB	JUNI
DESIGNED	REVIEWED	APPROVED	DRAWN JAB	DATE

ORM05-TS-2018.0009-C1

DRAWING NO.





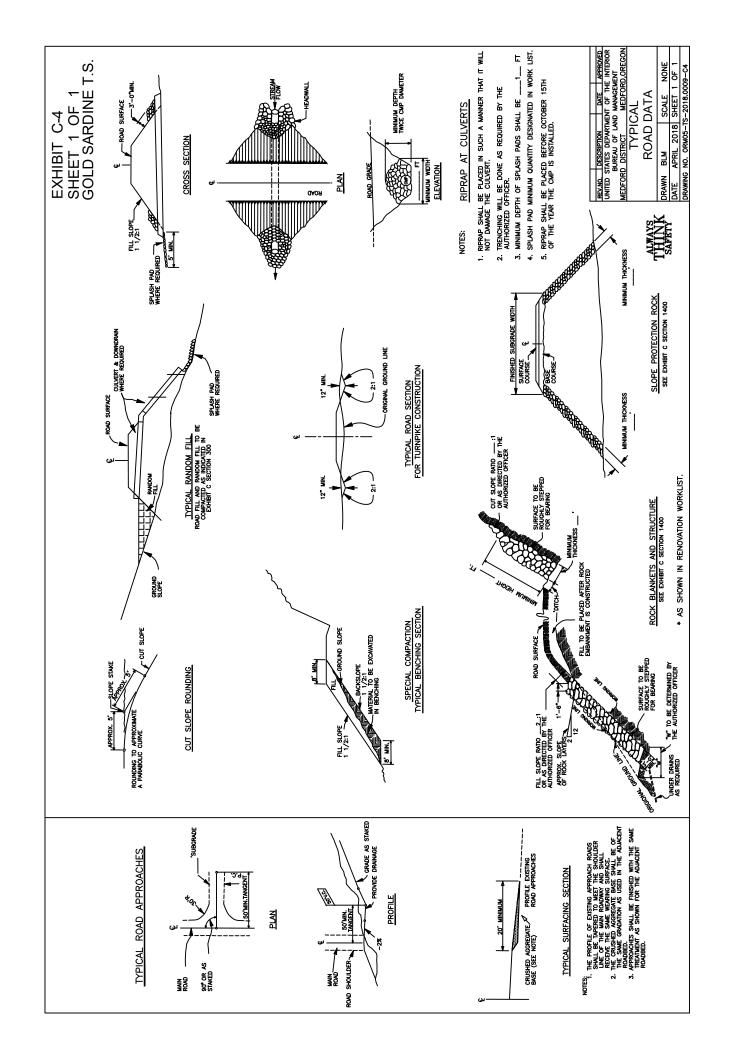


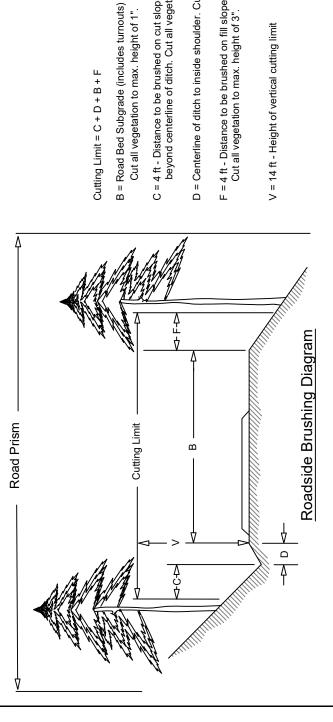
SCALE: NONE SHEET: 1 OF 2 MILE MEDFORD, OREGON DECOMMISSION**** INTERIOR BUREAU OF LAND MANAGEMENT UNITED STATES DEPARTMENT OF THE **ESTIMATE OF QUANTITIES*** Ë _ EARTHEN BARRICADE***** EXHIBIT C-3 SHEET 1 OF 2 GOLD SARDINE TIMBER SALE DATE EA. ω ***** ω ËĀ က EARTHEN BARRICADE က MILE 0.09 1.55 0.54 0.68 0.24 DESCRIPTION ROADSIDE BRUSHING - CHIP MEDFORD DISTRICT 7.64 MILE 0.12 0.25 2.66 0.72 SCATTER 0.91 ROADSIDE BRUSHING -0.80 ACRE 0.20 0.30 0.30 1800 DRAWN: JAB DATE: JUNE 2 DRAWING NO. SOIL STABILIZATION REV. NO. PADS CLASS 3 **** 9 S. 9 4 RIPRAP FOR SPLASH AGGREGATE** 1113 2663 1152 SURFACE TYPE C-1 358 S. 40 1-1/S" CRUSHED **** Quantities costs covered for under splash pads under drainage. 40 CY per AWD and are accounted for in aggregate column under 4" minus grade A and 20 CY per AWD are accounted under crushed surface (stockpiled). AWDs on natural surface will not be surfaced with 20 CY of stockpiled crushed surfacing. BASE 900 .≺ 4 4 80 4" MINUS SCREENED ***Armored water dip aggregate quantities calculated at DIPS*** EA. N _ **AEMORED WATER** Ë NEW CONSTRUCTION ***** Work to be completed under Exhibit D MILE ROAD RECONSTRUCTION 500 MILE 0.25 0.72 0.54 2.98 0.68 0.67 2.90 9.86 0.21 0.91 **NOITAVON3A** 30" DS 400 ROUND 400 24" DS L.F. CORRUGATED METAL PIPE 400 L.F. 18" DS **Indicate gradation. 400 EA. Remove 18" 400 L.F. 8 42" L.F. 400 F.F. 36" 50 50 SIZE 400 30 Ľ, 400 ĽF. 24" 400 108 144 ₫ Ľ, QUANTITIES SHOWN ARE NOT PAY ITEMS. 36 COMMON EXCAVATION MÀTERIAL) 200 350 150 500 C.Y. SLIDE 500 C.Y. FOR INFORMATIONAL USE ONLY C,C-1 D,F E,E-1 ACRE 200 **ITEM 1200** CLEARING AND GRUBBING 1 1/2inch 1 inch MILE/STA 2.90 SIZE 0.25 0.72 0.54 2.98 0.68 0.21 0.67 86 0.91 **LENGTH** 6 MP/STA 0.21 0.25 2.90 0.72 0.54 2.98 0.68 0.67 0.91 OT ITEM 900 MP/STA 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4 inch 3 inch 2 inch 1 1/2 inch **FROM** SIZE 35-3W-18.00 A-B 35-3W-19.00 A1-B2 ROAD NUMBER 35-3W-19.01 A-B 35-3W-20.00 A1-B2 35-3W-27.05 A-B ROAD NUMBER 35-3W-18.01 35-3W-19.03 35-3W-28.01 35-3W-28.02 PROJECT TOTALS *

ORM05-TS-2018.0009-C3

EXHIBIT C-3 SHEET 2 OF 2 GOLD SARDINE TIMBER SALE

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AGGREGATE**	-				+						+	Н	+	+					+	+			<u> </u>	Σ		DA.
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	1	TEMP ROUTE NUMBER	SPECIFICATION NO	Temp Route 18	Temp Route 19	Temp Route 27															I V HOL				•	





SHEET = 1 OF

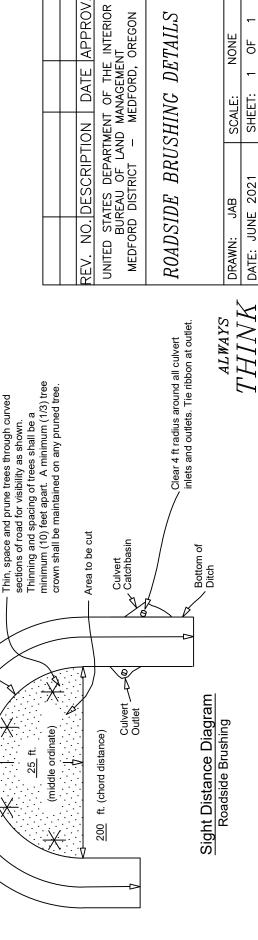
Cut all vegetation to max. height of 1".

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



Inside shoulder

Aoad Sub-grad

Inside Corner

DATE APPROV

ORM05-TS-2018.0009-C5

DRAWING NO.

SAFETY

All distances shown are horizontal except for V

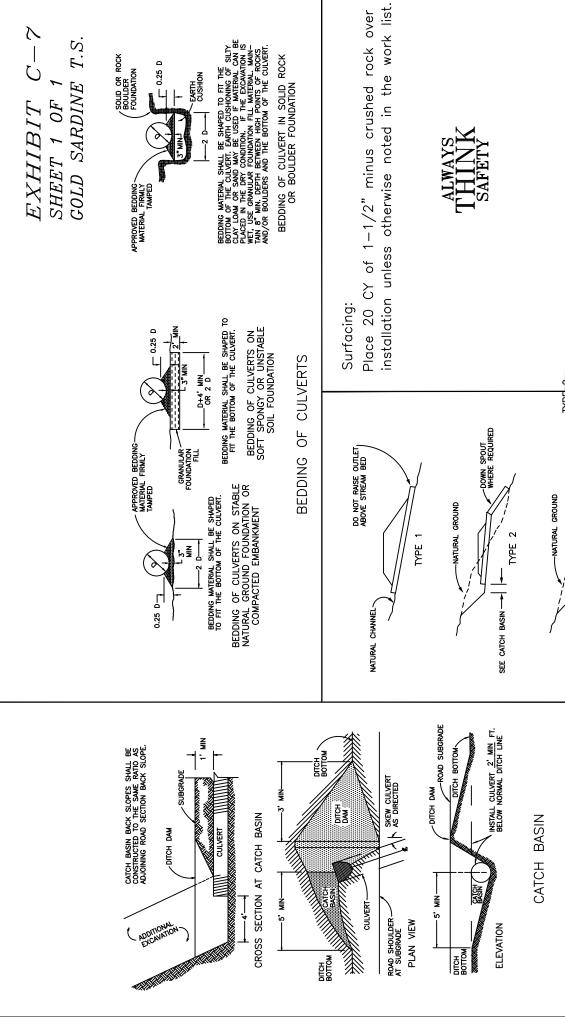
SHEET:

NONE OF

SCALE:

EXHIBIT C-6 SHEET 1 OF 1 GOLD SARDINE T.S.

GOLD SARDINE T.S.				NOTES:	A. Designed culvert lengths and	Actual lengths and locations	will be staked in the field. B Summary of quantities are		C-3 (Estimate of	Guarmines). C. All culverts and bands shall	be aluminized.							SYAWIA	THINK	SAFETY	INITED STATES DEBABINENT OF THE INTERIOR	UNIED SIGNES DEFARMENTO UN THE INTENDE BURRAD OF LAND MANAGEMENT MEDFORD DISTRICT — MEDFORD, OREGON	CULVERT LIST	SCALE:	DATE: APRIL 2018 SHEET 1 OF 1 DRAWING NO. ORMO5-TS-2018.0009-C6
			REMARKS	Installation Type 3	Installation Type 3	Installation Type 3	Installation Type 3	Installation Type 1																	
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١	2		YNGFE ZKEM															144		CY (RIPRAP):					
2	LOCATIONS	- 1	ГЕИСТН	36,	42,	30,	36'	50,										CMP:	36" CMP:	RIPR					
5	<u></u>	f	C∀CE	16	16	16	16	14										18"	36"	СУ (
	- 1		SIZE	18"	18,	18,	18"	36"										TOTAL		TOTAL					
	COLVER	DESIGNED	STATION OR M.P.	0.16	0.28	0.41	60.0	0.17										PROJECT TO	PROJECT TOTAL	PROJECT TO					
			ROAD NO.	35-3W-19.00			35-3W-19.01																		

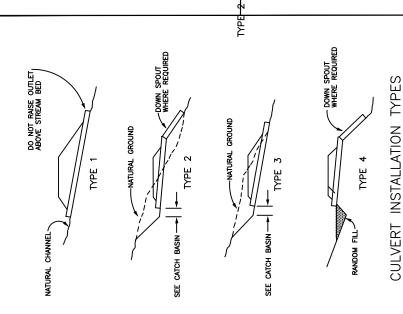


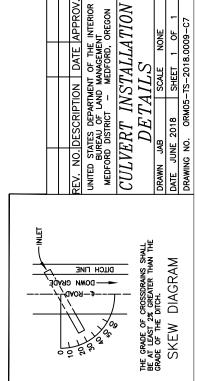
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION

BOTTOM OF THE CULVERT, EARTH CUSHIONING OF SILTY CLAY LOAN OR SAND MAY BE USED IF MATERIAL CAN EVACED IN THE DRY CONDITION. IF THE EXCANTION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL MAIN-TAIN S MIN DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT SOLID OR ROCK BOULDER FOUNDATION _ C 0.25 D BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION BEDDING MATERIAL SHALL APPROVED BEDDING -MATERIAL FIRMLY TAMPED

GOLD SARDINE T.S.

SHEET 1 OF EXHIBIT





STEP BEVEL WHEN DIA. EQUALS OR LARGER X=1/4 D OR MFR. STD. ROUND PIPE

48

STEP BEVEL WHEN RISE EQUALS 40" OR LARGER

PIPE ARCH

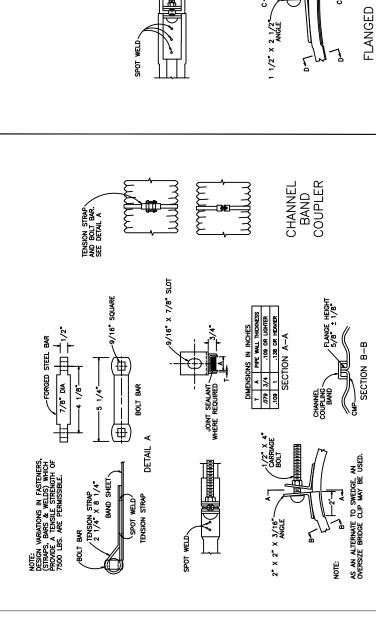
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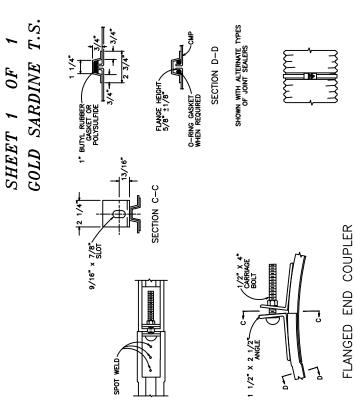
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1 1/2:1 SLOPE

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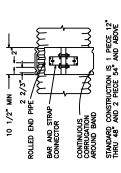
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8-

EXHIBIT



THE HIGGER COUPER BAND OR AN APPROVED EQUIVALENT COUPLER BAND SHALL BE MADE OF THE SAME MATERIAL AND FINISH AS THE PRISE AS THE PRISE JOHED THE COUPLER BANDS SHALL HAVE A SHIRL PRISE JOHED THE COUPLER BAND SHALL BE THE WINDER THE COUPLE THAN THE CAGE OF THE CONDUT THE DATE SHALL BE DESIGNED THE DRAWN TOCETHER WITH THE DATE SHALL BE DESIGNED THE BAND SHALL ENGAGE AND MESS WITH E BLOOD SHALL ENGAGE AND MESS WITH E BAND OF BACH OF THE CONDUT SECTIONS JOINED.

WHEN DESIGNATED ON THE PLANS OR IN THE SPECIAL PROVISIONS, GASKETS SHALL BE INSTALLED WHEN THE "HUGGER" TYPE, OR AN APPROVED EQUINALENT COUPLER BAND IS INSTALLED ON SPILLMAY, OVERSIDE OR DOWN DRAINS.

"HUGGER" COUPLER BANDS

	FLAT-D	NO. OF	DIMPLES	2	2	4	
		HLUIN		1/2	1/2	16 1/2	
١,,		_		10 1	10	16	
SANDS		(اي	SI TOR		£	4	
LER E		1 X _9	HLDIM		18	24	
STANDARD COUPLER BANDS		(I,	NO. OF BOLIS		£	2	
ARD	Θ	3" X 1"	HLDIW		14	24	
STAND	CORRUGATED	HELICAL	NO. OF	2	3	5	
ľ	S		HLDIM	4	12	24	
		STD. ANNULAR	H 100.05	2	3	2	
		STD. AI	HLDIM	4	12	24	
		CULVERT	INCHES	UNDER 18	18 TO 54	OVER 54	
	5	AN ∃	OWI	BAND	1	JITABLY FSH	}

) PERFORATED PIPE UNDERDRAIN, NIECTIONS, 2 BOLTS ARE ALL LAP 1/2 WIDTH ONTO EACH CLE THE JOINT FORMING A ECTION 400.

(A) BANDS WITH TENSION TYPE CONNECTIONS

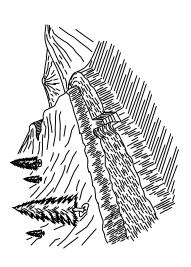
	REV. NO.	 DESCRIPTION 	DATE	DATE APPROV.
	UNITED ST	UNITED STATES DEPARTMENT OF THE INTERIOR	OF THE	INTERIOR
	ā	BUREAU OF LAND MA	MANAGEMENT	<u>_</u>
	MEDFORD	Medford district - Mi	MEDFORD, OREGON	OREGON
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$CULVER$ DET_{ℓ}	AIL	AND
DRAWN: JAB	SCALE	NONE
DATE JUNE 2021	SHEET 1	OF 1

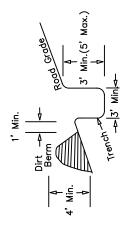
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DATE JUNE 2021		SHEET 1	OF 1
DRAWING NO.	ORMO	5-TS-201	ORM05-TS-2018.0009-C9

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT — MEDFORD, OREGON REV. NO. DESCRIPTION | DATE APPROV WATER DIP DETAILS DATE JUNE 2021 | SHEET 1 OF 1
DRAWING NO. ORM05-TS-2018.0009-C9 T.S.WITH 20 CUBIC YARDS OF 1-1/2" MINUS ROCK, EXTENDING AND TAPERING IN DEPTH 20' ON EACH SIDE OF THE AWD, TO MEET THE EXISTING ROAD SURFACE. NATURAL SURFACE ROADS WILL ONLY USE THE 4" MINUS AGGREGATE. TYPICAL ARMORED NONE 4" MINUS ROCK MATERIAL SHALL BE PLACED ON FILL SLOPE OF ARMORED WATERDIP. EACH DIP ON EXISTING ROCKED ROADS SHALL BE SURFACED EACH DIP SHALL BE REINFORCED WITH 40 CUBIC YARDS OF 4" MINUS ROCK, ON ROADWAY AND 4" MINUS AT OUTFALL. SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE. EXCAVATED MATERIAL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING IS NOT PERMITTED. GOLD SARDINE SCALE THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET. THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET. SHEET 1 OF FILL SLOPE ARMOR MATERIAL 4" MINUS OR OTHER APPROVED MATERIAL. SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED. THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING. **EXHIBIT** SURFACE COURSE AGGREGATE DRAWN JAB SUBGRADE ARMOR MATERIAL CUT/FILL SLOPES (1-1/2" minus) (4" minus) TYPICAL ARMORED WATER DIP CONSTRUCTION DETAIL = 5 4 જ 2 ଡ 7 8 6 DEPTH, TAPER TO 6" EACH END. NATURAL GROUND ဍ VARIABLE ARMORED APRON DRAWINGS NOT TO SCALE 9 ARMORED WATER DIP. ROAD ____ SHOULDER -0UTSLOPE 3-5% PROFILE SUBGRADE SECTION A-A ဗို PROFILE STATION OR MILEPOST LOCATION V PLAN 18

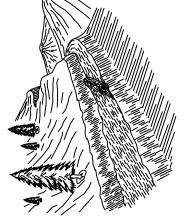
T.S.C - 10SARDINE EXHIBIT SHEETGOTD



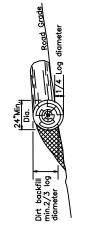




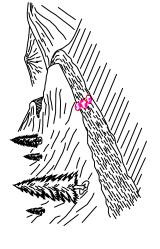
- 1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
 2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
 3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.
 - ď
- A MINIMUM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



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 SVEFTICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.
 5. THE MINIMUM SMALL END DIAMETER OF THE LOG BARRICADE SHALL BE 24".

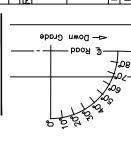


ROCK BARRICADE



- 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.
- THE MINIMUM DIAMETER OF ROCK SHALL BE 3 FEET. THE MAXIMUM SPACE BETWEEN ROCKS SHALL BE 36" OR AS APPROVED BY THE AUTHORIZED OFFICER.

SKEW DIAGRAM



œ	EV. NO.). DESCRIPTION	DATE	APPROV.
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	BOL	Z	MANAGEMENT	Þ
	MEDFORD	MEDFORD DISTRICT - M	MEDFORD, OREGON	OREGON

& EROSION CONTROL DETAILS DRAINAGE

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DATE	APRIL	APRIL 2018	SHEET	-	R	2
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SARDINE EXHIBIT SHEETGOTD

T.S.

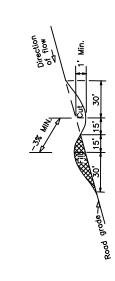




Y Level line

15,

WATER_BAR



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.

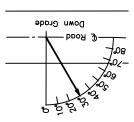
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DRAINAGE	CONTROL

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DATE	APRIL	APRIL 2018	SHEET 2 OF :	7	PF	2
DRAWING NO.	ÖN	OPMOS	OBM05-TS-2018 0009-C10	ă	900	-010

CROSS—DRAINS SHALL BE CONSTRUCTED AS SHOWN ABOVE. EXACT LOCATION WILL BE FLAGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION. ALL CROSS DRAINS SHALL BE SKEWED 30 DEGREES. THE CROSS—DRAINS INVERT SHALL BE SMOOTH AND FREE DRAINING.

SKEW DIAGRAM



Bown Grade

Road Renovation Work List

Renovation: This consists of roadwork 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, furnishing and replacing/installing corrugated metal pipes and/or culverts, maintaining and/or constructing water dips (WDs), maintaining and/or constructing armored water dips (AWDs) with 4" minus screened rock, spot rocking, surfacing with 1½" minus crushed aggregate, 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. All culvert replacements shall be capped with 20 cubic yards of 1½" minus crushed aggregate from commercial sources that meet crushed aggregate specifications in Section 1200. Armored water dips constructed on existing rocked roads shall be constructed using 40 cubic yards of 4" minus as a base course that meet screened rock specifications in Section 900 and capped with 20 cubic of 1½" minus crushed aggregate from commercial sources that meet crushed aggregate specifications in Section 1200. Armored water dips constructed on natural surface roads shall be constructed with 40 cubic yards of 4" minus that meet screened rock specifications in Section 900.

Roadside Brushing: This consists of roadwork to be performed on the road prior to its use. The work includes, but 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 near inlet or outlet of CMPs, removing brush, limbs, and trees along the roadway to improve sight distance. All culvert inlets and outlets shall be brushed for a radius of 4'. All bridges shall be brushed 8 horizontal feet from the outermost portion of the structure. 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 unless otherwise noted as chipping in the work list. 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.

<u>Surfacing</u>: Shall be done in accordance with Exhibit C. Grade A shall be used in accordance with table 903 and Grade C-1 shall be used in accordance with table 1204, as specified in this worklist and Exhibit C-3.

Jct. – Junction AWD – Armored Water Dip CSP – Corrugate Steel Pipe PRR – Pit Run Rock CY – Cubic Yards WD – Water Dip ASC – Aggregate Surfa

ASC – Aggregate Surface Course NAT – Natural Surface Roads

Road 35-3W-18.00 Hillis Peak Spur N

Segment A ASC

MP Remarks

- 0.00 Jct. with 35-3W-19.00. Begin road renovation and roadside brushing.
- 0.12 Jct. with 35-3W-18.02 right. End segment A.

Segment B NAT

MP Remarks

- 0.12 Continue road renovation and roadside brushing. Begin chipping.
- 0.17 Construct AWD (refer to Exhibit C-9; Typical Armored Water Dip Details).
- 0.19 Remove 200 cubic yard slide. Place waste material from slide at large turn-around at end of road in layers. Water (if needed) and roll. Taper into easy transition with existing road. Remove any large rocks and/or woody material and place on fill slope.
- 0.21 End of road. End road renovation and roadside brushing and chipping.

Road 35-3W-18.01 Hillis Peak Spur A NAT

MP Remarks

- 0.00 Jct. with 35-3W-19.00. Begin road renovation and roadside brushing.
- 0.25 End road renovation and roadside brushing.

Road 35-3W-19.00 Hillis Peak

Segment A1 ASC

MP Remarks

- 0.00 Jct. with 35-3W-20.00. Begin road renovation and roadside brushing. Begin surfacing 15' wide with a 4" compacted depth.
- 0.07 Jct. with 35-3W-19.05 left. End segment A1.

Segment A2 ASC

MP Remarks

- 0.07 Continue road renovation and roadside brushing.
- 0.16 Replace existing 18" cross drain culvert with an 18" x 36' CSP with a 2 cubic yard splash pad. Culvert installation shall be a Type 3 (refer to Exhibit C-7; Culvert Installation Details Sheet for installation type).
- 0.25 Spot rock prior to surfacing with 30 cubic yards of ASC to repair road.
- 0.26 Existing culvert, cross drain.
- 0.28 Replace existing 18" cross drain culvert with an 18" x 42' CSP with a 2 cubic yard splash pad. Culvert installation shall be a Type 3 (refer to Exhibit C-7; Culvert Installation Details Sheet for installation type).
- 0.30 Spot rock prior to surfacing with 20 cubic yards of ASC to repair road.
- 0.32 Jct. with 35-3W-19.01 right. End segment A2.

Segment B1 ASC

- 0.32 Continue road renovation and roadside brushing.
- 0.41 Replace existing 18" cross drain culvert with an 18" x 30' CSP with a 2 cubic yard splash pad. Culvert installation shall be a Type 3 (refer to Exhibit C-7; Culvert Installation

- Details Sheet for installation type).
- 0.59 Existing culvert, draw.
- 0.60 Spot rock prior to surfacing with 30 cubic yards of ASC to repair road.
- 0.64 Jct. with 35-3W-18.00 right. End segment B1.

Segment B2 NAT

MP Remarks

- 0.64 Continue road renovation and roadside brushing.
- 0.70 Jct. with 35-3W-18.01 right.
- 0.72 Jct. with unnumbered road left. End road renovation, surfacing, and roadside brushing.

Road 35-3W-19.01 Hillis Peak Spur

Segment A PRR

MP Remarks

- 0.00 Jct. with 35-3W-19.00. Begin road renovation and roadside brushing.
- 0.09 Replace existing 18" cross drain culvert with an 18" x 36' CSP with a 2 cubic yard splash pad. Culvert installation shall be a Type 3 with new culvert outlet installed 2' lower than existing culvert outlet (refer to Exhibit C-7; Culvert Installation Details Sheet for installation type).
- 0.17 Replace existing 36" draw culvert with a 36" x 50' CSP with a 2 cubic yard splash pad. Culvert installation shall be a Type 1 (refer to Exhibit C-7; Culvert Installation Details Sheet for installation type).
- 0.32 Jct. with 35-3W-18.03 left.
- 0.37 End segment A.

Segment B PRR/NAT

MP Remarks

- 0.37 Continue road renovation and roadside brushing.
- 0.68 Surface changes from PRR to NAT.
- 0.76 Property line (into private).
- 0.77 Jct. with private road right.
- 0.91 End of road. Helicopter landing. End road renovation and roadside brushing.

Road 35-3W-19.03 ASC

- 0.00 Jct. with 35-3W-20.00. Begin road renovation and roadside brushing and chipping. Begin surfacing 15' wide with a 4" compacted depth.
- 0.05 Existing AWD.
- 0.06 Vandalized guardrail gate. Remove posts.
- 0.15 Existing AWD.
- 0.20 Existing AWD.
- 0.25 End surfacing.
- 0.54 Wilcox Peak Quarry; 50cy stockpile. End of road. End road renovation and roadside brushing and chipping.

Road 35-3W-20.00 Left Fork Sardine Creek Segment A1 ASC

MP Remarks

- 0.00 End of Sardine Creek Rd (County). Begin road renovation and roadside brushing. Existing culvert, cross drain.
- 0.07 Existing culvert, cross drain.
- 0.13 Existing culvert, draw.
- 0.27 Existing culvert, draw.
- 0.39 Existing culvert, draw.
- 0.52 Existing culvert, draw.
- 0.58 Existing culvert, cross drain.
- 0.61 Jct. with jeep road left.
- 0.68 Existing culvert, cross drain.
- 0.72 End segment A1.

Segment A2 ASC

MP Remarks

- 0.72 Continue road renovation and roadside brushing.
- 0.76 Existing culvert, cross drain.
- 0.84 Existing culvert, cross drain.
- 0.92 Existing culvert, cross drain.
- 0.98 Existing culvert, cross drain.
- 1.07 Existing culvert, draw.
- 1.14 Existing culvert, cross drain.
- 1.21 Existing culvert, draw.
- 1.32 Existing culvert, cross drain.
- 1.38 Existing culvert, cross drain. Jct. with 35-3W-19.00 right. End segment A2.

Segment B1 ASC

MP Remarks

- 1.38 Continue road renovation and roadside brushing.
- 1.39 Existing culvert, draw.
- 1.55 Existing culvert, draw.
- 1.62 Existing culvert, cross drain.
- 1.71 Existing culvert, draw.
- 1.80 Existing culvert, cross drain.
- 1.85 Existing culvert, draw.
- 1.93 Existing culvert, cross drain.
- 1.98 End segment B1.

Segment B2 ASC

- 1.98 Continue road renovation and roadside brushing.
- 2.00 Existing culvert, cross drain.
- 2.10 Existing culvert, draw.
- 2.18 Existing culvert, cross drain.
- 2.20 Jct. with 35-3W-19.02 left barricaded. Begin surfacing 15' wide with a 4" compacted depth.

- 2.26 Existing culvert, cross drain.
- 2.31 Existing culvert, cross drain.
- 2.33 Jct. with 35-3W-19.03 right.
- 2.37 Jct. with 35-3W-19.03 right.
- 2.41 Existing culvert, cross drain.
- 2.47 Existing culvert, cross drain.
- 2.53 Existing culvert, draw.
- 2.74 Existing culvert, cross drain.
- 2.88 Ditch out right.
- 2.98 Jct. with 35-3W-19.04 left barricaded. Re-construct barricades (2) on -19.04 road and barricade (1) on -20.00 road. End segment B2. Helicopter landing. End road renovation, surfacing, and roadside brushing.

Road 35-3W-27.05 Hornet Hill Ridge Rd Segment A ASC

MP Remarks

- 0.00 Jct. with 35-3W-28.02. Existing culvert, cross drain crosses both roads. Begin road renovation and roadside brushing and chipping.
- 0.05 Remove 150cy slide. Spread waste from slide at waste disposals sites at milepost 1.62, 2.43, or 2.90 on the 35-3W-28.02 road or along ridgetop on the 35-3W-27.05 road. Waste material shall be placed in layers, watered (if necessary), and rolled and shall not impede use of roads or turnouts.
- 0.10 Existing culvert, cross drain.
- 0.15 Existing culvert, cross drain.
- 0.22 Existing culvert, cross drain.
- 0.27 End ASC surfacing. End segment A.

Segment B NAT

MP Remarks

- 0.27 Continue road renovation and roadside brushing.
- 0.30 Existing WD.
- 0.34 Construct AWD (refer to Exhibit C-9; Typical Armored Water Dip Details).
- 0.68 End of road. End road renovation and roadside brushing and chipping.

Road 35-3W-28.01 R Fork Sardine Cr Segment A ASC

- Jct. with R. Fork Sardine Creek (County). Jct. with driveway left. Begin road renovation. **Do not brush from milepost 0.00 to milepost 0.67.** Road renovation for this section includes cleaning ditches where necessary, cleaning culverts where needed (watch for water pipes running through culverts or in catch basins), and blading, watering, and rolling aggregate surface. Scarify potholes where needed.
- 0.02 Jct. with driveway left.
- 0.04 Bridge.

0.08 End segment A.

Segment B ASC

MP Remarks

- 0.08 Continue road renovation.
- 0.10 Jct. with driveway left.
- 0.21 Jct. with driveway left.
- 0.23 Jct. with driveway left.
- 0.29 Existing culvert, cross drain. Jct. with driveways left and right.
- 0.39 Jct. with driveway left.
- 0.41 Existing culvert, cross drain.
- 0.42 Jct. with driveway left.
- 0.45 Existing culvert, draw.
- 0.54 Existing culvert, cross drain.
- 0.64 Jct. with driveway right.
- 0.65 Existing culvert, cross drain.
- 0.66 Jct. with PVT road left.
- 0.67 Jct. with 35-3W-28.02 right. End road renovation.

Road 35-3W-28.02 Hornet Hill

Segment A1 ASC

MP Remarks

- 0.00 Jct. with 35-3W-28.01. Begin road renovation and roadside brushing.
- 0.01 Jct. with PVT road right.
- 0.09 Existing culvert, cross drain.
- 0.14 Existing culvert, cross drain.
- 0.19 Property line (into BLM). End segment A1

Segment A2 ASC

MP Remarks

- 0.19 Continue road renovation and roadside brushing.
- 0.20 Existing culvert, cross drain.
- 0.24 Existing culvert, cross drain.
- 0.32 Existing culvert, draw.
- 0.36 Jct. with 35-3W-27.04 right barricaded.
- 0.37 Existing culvert, draw. End segment A2.

Segment B1 ASC

- 0.37 Continue road renovation and roadside brushing.
- 0.45 Existing culvert, draw.
- 0.46 Existing culvert, draw.
- 0.49 Existing culvert, cross drain.
- 0.55 Existing culvert, cross drain.
- 0.60 Existing culvert, cross drain.
- 0.66 Jct. with PVT road right.
- 0.68 Ditch out right.

- 0.82 Existing culvert, cross drain.
- 0.95 Existing culvert, draw.
- 1.04 Existing culvert, draw.
- 1.13 Existing culvert, cross drain.
- 1.28 Existing culvert, cross drain.
- 1.31 Jct. with 35-3W-27.00 right.
- 1.32 Existing culvert, cross drain.
- 1.38 Existing culvert, cross drain.
- 1.42 Existing culvert, draw.
- 1.50 Existing culvert, cross drain.
- 1.59 Existing culvert, cross drain.
- 1.62 Jct. with 35-3W-27.02 left barricaded. Flatter areas around road junction can be used for a waste disposal site. Waste material shall be placed in layers, watered (if necessary), and rolled and shall not impede use of roads or turnouts.
- 1.63 Jct. with 35-3W-27.01 left. End segment B1.

Segment B2 ASC

- 1.63 Continue road renovation and roadside brushing.
- 1.64 Existing culvert, cross drain.
- 1.72 Existing culvert, cross drain.
- 1.78 Existing culvert, cross drain.
- 1.87 Existing culvert, draw.
- 1.94 Existing culvert, cross drain.
- 2.04 Existing culvert, cross drain.
- 2.09 Existing culvert, draw.
- 2.15 Existing culvert, cross drain.
- 2.28 Existing culvert, cross drain.
- 2.35 Existing culvert, cross drain.
- 2.40 Existing culvert, cross drain.
- 2.45 Jct. with 35-3W-27.03 left gated.
- 2.47 Existing culvert, cross drain.
- 2.57 Existing culvert, cross drain.
- 2.66 Jct. with 35-3W-27.05 left. Begin chipping.
- 2.69 Existing culvert, cross drain.
- 2.76 Existing culvert, cross drain.
- 2.82 Existing culvert, cross drain
- 2.90 End of road. End road renovation and roadside brushing and chipping.

GOLD SARDINE TIMBER SALE Temp Route Work List

Temp Route 18 T35S-R03w-Section 18 NAT.

MP Remarks

- 0.00 Jct. w/ 35-3W-19.00. Begin temp route construction. Begin surfacing 14' wide with an 8" compacted depth using gradation A from Table 903 in Exhibit C-14.urface with an 8" compacted depth of 4" minus 14' wide. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
- 0.06 End temp route construction and surfacing. Construct helicopter landing. Surface portion of helicopter landing with 100CY of gradation A from Table 903 to an 8" compacted depth to facilitate wet season use.

Temp Route 19 T35S-R03w-Section 19 NAT.

MP Remarks

- 0.00 Jct. w/ 35-3W-19.03. Begin temp route construction. Begin surfacing 14' wide with an 8" compacted depth using gradation A from Table 903 in Exhibit C-14.urface with an 8" compacted depth of 4" minus 14' wide. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
- 0.05 End temp route construction and surfacing. Construct helicopter landing. Surface portion of helicopter landing with 100CY of gradation A from Table 903 to an 8" compacted depth to facilitate wet season use.

Temp Route 27 T35S-R03w-Section 27 NAT.

- 0.00 Jct. w/ 35-3W-27.05. Begin temp route construction. Road shall be decommissioned after use (See Exhibit D-3; Road Decommissioning Work List for details).
- 0.03 End temp route construction. Construct helicopter landing.

TIMBER SALE ROAD SPECIFICATIONS

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GENERAL – 100

101 - Prework 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:

<u>AASHTO</u> - American Association of State Highway and Transportation Officials. Current editions of tests and specifications.

<u>Abrasion Resistance</u> - The ability of a fabric surface to resist wear by friction.

ACI - American Concrete Institute

<u>Apparent Opening Size (AOS)</u> - 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.

<u>Base Course</u> - 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

<u>Borrow</u> - Excavated material required for embankments and other portions of the work.

<u>Burst Strength</u> - 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.

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<u>Culvert</u> - 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.

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

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

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

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

<u>Grab Tensile Strength</u> - 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.

<u>Grading</u> - 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.

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

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

<u>Penetration Resistance</u> - 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.

<u>Percent Open Area</u> - 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.

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

<u>Pioneer Road</u> - Temporary construction access built along the route of the project.

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

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

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

<u>Puncture Resistance</u> - 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.

<u>Purchaser</u> - 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.

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

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

<u>Roadbed</u> - 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.

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

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

<u>Roadway (Road Prism)</u> - 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.

<u>Scale</u> - 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.

<u>Scarification</u> - The process of loosening or breaking up of the surface layer of

soil or road, usually to a specified depth.

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

<u>Shoulder</u> - 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.

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

<u>Specific Gravity</u> - 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.

<u>Structures</u> - 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.

<u>Subbase</u> - 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.

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

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

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

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

<u>Tensile Test</u> - 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.

<u>Typical Cross Sections</u> - 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.

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

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

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

<u>Woven Geotextile Material</u> - 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:

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

AASHTO T 27 Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.

AASHTO T 89 Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.

AASHTO T 90 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.

AASHTO T 96 Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.

AASHTO T 99

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.

AASHTO T 119	Slump of hydraulic cement concrete.
AASHTO T 152	Air content of freshly mixed concrete.
AASHTO T 166	Specific Gravity of compacted Bituminous Mixtures.
AASHTO T 176	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
AASHTO T 180	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.
AASHTO T 191	Sand Cone. 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.
AASHTO T 205	Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.
AASHTO T 209	Maximum Specific Gravity of Bituminous Paving Mixtures.
AASHTO T 210	Durability of aggregates based on resistance to produce fines.
AASHTO T 224	Correction for coarse particles in the soil.
AASHTO T 238	Density of Soil and Soil-Aggregate in place by nuclear methods.

<u>ASTM D 4564</u> Determination of relative density of cohensionless soils.

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

Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile

103 - Compaction equipment shall meet the following requirements:

sampling.

AASHTO T 248

103b - (Sheepfoot) (Tamping) 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

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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.

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 <u>Vibratory compactor</u>. 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.
- 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

- 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.
- 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.
- 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.
- 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.
- 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.
- Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210 and/or piling in accordance with Subsection 211 at the following road locations.

Road No.	From M.P.	To M.P.	Disposal Method
Temp Route 18 & Helicopter Landing	0.00	0.06	Pile
Temp Route 19 & Helicopter Landing	0.00	0.05	Pile
Temp Route 27 & Helicopter Landing	0.00	0.03	Pile

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

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, 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.
- 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.
- 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.

- 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.
- Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earthmoving 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.
- 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.
- Layers of embankment material as specified under Subsections 305a and 305b and 317 shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103b, 103f, 103g, and 103h, and 103i.
- Compaction of embankment layers placed for all temp routes and helicopter landings as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures.
- 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.
- When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with these specifications.
- 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.

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

- 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.
- 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.
- 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.
- The finished grading shall be approved by the Authorized Officer for the total project. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.
- 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.

PIPE CULVERTS – 400

- 401 This work shall consist of furnishing and installing pipe culverts, full round downspouts, and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer upon installation of the appurtenance structures. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.
- Corrugated-aluminized steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274, or AASHTO M 289 as specified on the plans.
- Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.
- "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.
- Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined, and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- 410 Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for

use in the road construction, it shall be replaced at the Purchaser's expense.

- 411 Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram included in the plans and the Culvert Installation Detail Sheet.
- Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled with selected granular or fine readily compactable soil material or crushed rock material in accordance with Section 1200 gradation C-1.
- Pipe culverts shall be bedded on fine readily compactable soil material (from excavated trench) or on a selected granular, crushed rock material in accordance with Section 1200 gradation C-1, having a depth of not less than 3 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- 416 Side-fill material for pipe culverts at the following locations:

Road No.	M.P.
35-3W-19.00	0.16
	0.28
	0.41
35-3W-19.01	0.09
	0.17

shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel, and to 1 foot over the pipe with fine, readily compactable soil, crushed rock material in accordance with Section 1200 gradation C-1, or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.

- For pipe culverts list in Section 416, side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe, and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 6 inches in depth and 1 pipe diameter/span, or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of 85 percent of the maximum density.
- 418 Side fills beyond the compaction limits specified under Subsection 417 shall be

- compacted as specified under Section 300.
- The pipe culverts after being bedded and backfilled as required by these specifications shall be protected by a 2-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.
- Construction of splash pads conforming to lines, grades, dimensions and typical diagram shown on the plans, shall be required for culverts at the following locations:

Road No.	M.P.
35-3W-19.00	0.16
	0.28
	0.41
35-3W-19.01	0.09
	0.17

- Record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.
- Remove and dispose of old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the work site within three 3 working days of completion of the culvert replacement work for each road.
- Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site and in a manner that will avoid damage to adjacent property. Provide for downstream waterflow with no more that 10% increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

- 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.
- 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 at the following locations:

Road No.	From M.P.	To M.P.
35-3W-18.00 A-B	0.00	0.21
35-3W-18.01	0.00	0.25
35-3W-19.00 A1-B2	0.00	0.72
35-3W-19.01 A-B	0.00	0.91
35-3W-19.03	0.00	0.54
35-3W-20.00 A1-B2	0.00	2.98
35-3W-27.05 A-B	0.00	0.68
35-3W-28.01 A-B	0.00	0.67
35-3W-28.02 A1-B2	0.00	2.90

- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 503a Debris from the slides at the following locations:

Road No.	M.P.
35-3W-18.00 B	0.19
35-3W-27.05 A	0.05

shall be hauled to designated disposal sites or shall be used as embankment as designated in Exhibit C-10 at the following locations:

Road No.	M.P.	Disposal Type
35-3W-18.00 B	0.19-0.21	Embankment
35-3W-27.05 B	0.35-0.45	Waste Disposal Sites
35-3W-28.02 A1-B2	1.62	Waste Disposal Site
	2.43	Waste Disposal Site
	2.90	Waste Disposal Site

as shown on the plans and marked on the ground.

- 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 103b, 103f, 103g, 103h, and 103i and in accordance with the following table:

Road No.	From M.P.	To M.P.
35-3W-18.00 A	0.00	0.12
35-3W-19.00 A1-B2	0.00	0.64
35-3W-19.01 A-B	0.00	0.68
35-3W-19.03	0.00	0.54
35-3W-20.00 A1-B2	0.00	2.98
35-3W-27.05 A	0.00	0.27

35-3W-28.01 A-B	0.00	0.67
35-3W-28.02 A1-B2	0.00	2.90

- 504a Minimum compaction required shall be 1 hour of continuous rolling for each 5 stations of road, or fraction thereof, as measured along the centerline per layer of material.
- The inlet end of 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 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.
- 507 Existing drainage structures at the following locations:

Road No.	M.P.
35-3W-19.00	0.16
	0.28
	0.41
35-3W-19.01	0.09
	0.17

shall be replaced with structures of the type, gauge, diameter, and length shown on the plans and in accordance with the placement requirements set forth under section 400 of these specifications.

508 - Vegetation encroaching on the roadbed and the drainage ditches of existing roads at the following locations:

Road No.	From M.P.	To M.P.	Total Miles	Type
35-3W-18.00 A	0.00	0.12	0.12	Scatter
35-3W-18.00 B	0.12	0.21	0.09	Chip
35-3W-18.01	0.00	0.25	0.25	Scatter
35-3W-19.00 A1-B2	0.00	0.72	0.72	Scatter
35-3W-19.01 A-B	0.00	0.91	0.91	Scatter
35-3W-19.03	0.00	0.54	0.54	Chip
35-3W-20.00 A1-B2	0.00	2.98	2.98	Scatter
35-3W-27.05 A-B	0.00	0.68	0.68	Chip
35-3W-28.02 A1-B2	0.00	2.66	2.66	Scatter
35-3W-28.02 B2	2.66	2.90	0.24	Chip

shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.

- 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

- 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.
- 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.
- 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.
- The Purchaser shall secure the necessary water permits and pay all required water fees for use of water source(s) selected by the Purchaser and approved by the Authorized Officer.

AGGREGATE BASE COURSE - 900 SCREENED ROCK MATERIAL

- This work shall consist of furnishing, hauling, and placing one or more lifts of screened rock material on roadbeds 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 sources 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	Gradation			
Designation	A	В	С	D
4 inch	100			
3 inch	95-100	100		
2 inch		95-100	100	
1-1/2 inch			95-100	100
1 inch				95-100
No. 4	11-44	16-49	21-54	26-59
No. 200	2-15	2-15	0-15	0-15

- 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.
- 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 10 days prior to start of rock operations.
- 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.
- 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 103b, 103f, 103g, 103h, and (103i. Minimum compaction shall be 6 passes over each full-width layer, or fraction thereof.

AGGREGATE SURFACE COURSE - 1200 CRUSHED ROCK MATERIAL

- 1201 This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the purchaser's expense.
- 1202a Crushed rock materials used in this work may be obtained from commercial source(s) selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.
- When crushed rock material is produced from gravel, not less than 65 percent by weight of the particles retained on the No. 4 sieve will have 2 manufactured fractured faces.
- 1204 Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

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

GRADATION

a.						
Sieve	C	C-1	D	D-1	E	E-1
Designation	C	C-1	D	D-1	Ľ	L-1

1-1/2-inch	100	100	-	-	-	-
1-inch	-	-	100	100	-	-
3/4-inch	50-90	60-90	-	70-98	100	100
1/2-inch	-	_	-	-	-	70-98
No. 4	25-50	30-55	30-60	36-60	40-75	44-70
No. 8	_	22-43	-	25-47	_	30-54
No. 30	_	11-27	_	12-31	_	15-34
No. 40	5-25	_	5-30	_	5-35	_
No. 200	2-15	3-15	3-15	3-15	2-15	3-15

- Crushed 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.
- 1206 Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.
- 1207a That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

TABLE 1207a

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
34	9
33	8
32	7
31	6
30	5
29 or less	4

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

be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

- 1208a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1209 Shaping and compacting of roadbed and/or base course shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsections 300 and 500 for placing on the roadbed and Subsections 900 for placing on the base course.
- 1210 Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed and base course in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the ground. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved in writing by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1212 Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection 103f. Minimum compaction shall be 4 passes over each full-width layer, or fraction thereof.

SLOPE PROTECTION - 1400

- 1401 This work shall consist of furnishing, hauling, and placing stone materials for splash pads in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross- sections shown on the plans.
- 1402 Stone material shall consist of hard angular quarry rock of such quality that it will not disintegrate on exposure to water or weathering, and shall be graded in accordance with these specifications.

NOTE: Guide for relation between volume, size and weight. (175 lbs./cu./ft.):

Volume/ Cubic Foot	Average Dimension in	Approximate Weight
	inches	in Pounds
12	27.5 x 27.5 x 27.5	2100
6	21.8 x 21.8 x 21.8	1050
4	19.1 x 19.1 x 19.1	700
3	17.3 x 17.3 x 17.3	525
1	12.0 x 12.0 x 12.0	175
2/3	10.5 x 12.0 x 12.0	120
1/2	9.5 x 9.5 x 9.5	88
1/3	8.3 x 8.3 x 8.3	60
1/4	7.6 x 7.6 x 7.6	44
1/6	6.6 x 6.6 x 6.6	30
1/8	6.0 x 6.0 x 6.0	22
1/100	2.6 x 2.6 x 2.6	2

- The material shall be well graded from the smallest to the maximum size specified. Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.
- 1405 Rip rap shall conform to the following gradations:

TABLE 1405

TABLE 1403					
	Approx. Cubic	Sphere	% of Total		
Class	Dimension	Diameter	Volume Smaller than		
	(inches)	(inches)	Size of Stone		
	6-8	8	100		
1	5-6	6	80		
1	2-5	6	50		
	0-2	2	10		
	8-10	12	100		
2	6-8	8	80		
2	3-6	6	50		
	0-3	4	10		
	14-16	21	100		
3	10-14	18	80		
3	5-10	12	50		
	0-5	6	10		
	18-20	24	100		
4	14-18	22	80		
4	6-14	18	50		
	0-6	8	10		
	26-28	36	100		

	20-26	32	80
5	8-20	25	50
3	0-8	10	10
	28-34	42	100
6	22-28	34	80
O	10-22	27	50
	0-10	12	10

^{*}Rocks smaller than six inches in diameter are not counted.

- 1406 The placement of slope protection stones by the end dumping method shall be conducted to prevent the stones from escaping beyond the embankment toe.
- 1407 Determination of the acceptability of the slope protection material gradation will be through visual inspection by the Authorized Officer.

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 requirement 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.
- 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 the roads at the following locations:

Road No.	From M.P.	То М.Р.
Temp Route 18	0.00	0.06
Temp Route 19	0.00	0.05
Temp Route 27	0.00	0.03

- 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.
- 1711 The Purchaser shall construct energy dissipators for pipe culverts (splash pads) conforming to the requirements and details shown on the respective exhibits and on the plans.

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 (not) required for road acceptance under Section 18 of this contract.
- 1802 Soil stabilization work consisting of seeding and mulching shall be performed on existing roads and designated locations (culvert replacements) in accordance with these specifications at the following locations:

Road No.	M.P.
35-3W-19.00	0.16
	0.28
	0.41
35-3W-19.01	0.09
	0.17

- 1802a Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, landings, disturbed areas, and waste disposal sites in accordance with these specifications and as shown on the plans.
- 1803 Soil stabilization work as specified under Subsections 1802 and 1802a shall be performed during the following seasonal periods:

From: September 1	To: October 15 (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 **3.00** acres designated for treatment as shown on the plans and as specified under Subsections 1802, 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 1802, 1802a, and 1806, 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 1 inch 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, cultipaker 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 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 inch 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.
- Vegetation shall be cut and removed from the road bed between the outside shoulder 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.
- 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.
- 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) 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.

Road No.	From M.P.	To M.P.	Total Miles	Туре
35-3W-18.00 A	0.00	0.12	0.12	Scatter

35-3W-18.00 B	0.12	0.21	0.09	Chip
35-3W-18.01	0.00	0.25	0.25	Scatter
35-3W-19.00 A1-B2	0.00	0.72	0.72	Scatter
35-3W-19.01 A-B	0.00	0.91	0.91	Scatter
35-3W-19.03	0.00	0.54	0.54	Chip
35-3W-20.00 A1-B2	0.00	2.98	2.98	Scatter
35-3W-27.05 A-B	0.00	0.68	0.68	Chip
35-3W-28.02 A1-B2	0.00	2.66	2.66	Scatter
35-3W-28.02 B2	2.66	2.90	0.24	Chip

- 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. 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.

6. 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 may be purchased from the BLM, if available.

7. ROAD RENOVATION:

Road renovation shall generally take place between May 15th and October 15th 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.

8. 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.

9. 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 15th. 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-13.
- Construction of temporary spur routes shall be to minimum width.

10. 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 1st and June 15th immediately prior to application. Aggregate which has been stockpiled between June 16th and October 31st of prior years will not be accepted. Aggregate crushed between June 16th and October 31st of the same application year shall not be stockpiled for more than two weeks before application.

11. 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
35-3W-20.00	A1-A2	0.00	1.38	March 1	June 30

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

12. BOTANY RESTRICTIONS

- Plant site to be protected is flagged with yellow and black striped ribbon in addition to orange ribbon with plant buffer written on it.
- Roadside brushing slash shall be disposed of in accordance with Exhibit C-13, Section 2109 on the downslope side of the road.
- Any debris resulting from road blading operations, ditch cleaning operations, or culvert cleaning operations shall be bunched and hauled to milepost 2.43 on the 35-3W-28.02 road.

Road Number	Segment	Starting M.P.	Ending M.P.
35-3W-28.02	B1	2.05	2.15

13. WET SEASON HAUL

- The Purchaser may wet season haul, with the Authorized Officer's approval on road 35-3W-20.00 A1-B2 (portion of B2). Road numbers 35-3W-19.00 A1-B2, 35-3W-19.03, and 35-3W-20.00 B2 (portion of B2) will have an additional lift of surface course aggregate placed during pre-haul road maintenance operations and can be wet season hauled on after maintenance lift is approved. If the use of all wet season haul 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 number 35-3W-19.01 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.

ROAD MAINTENANCE SPECIFICATIONS

TABLE OF CONTENTS

SECTION	DESCRIPTION	Page(s)
3000	General	2-2
3100	Operational Maintenance	2-4
3200	Seasonal Maintenance	4-4
3300	Final Maintenance	5-5
3400	Other Maintenance	5-8
3500	Decommissioning	8-9

GENERAL - 3000

- 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 and 3404.
- 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.
- The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) 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

- 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.
- The Purchaser shall furnish and place 200 cu. yds. of aggregate conforming to the requirements in Section 1200 of Exhibit C of this contract on the roadway at locations and in the amounts designated by the Authorized Officer.
 - This aggregate shall be used to repair surface failures and areas of depleted surface depth excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, spread, and compacted by use of dump trucks, water trucks, and motor grader or similar equipment.
- The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.

- 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.

- 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.
- 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.

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.

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 roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish gravel for necessary repairs at designated locations. Repair of the road(s) 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.
- 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.
- 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

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.

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

- The Purchaser shall repair any damage to road surfaces that was specified under Subsection 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.
- 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 yd² of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds³ of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd² 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.
35-3W-20.00 A1-A2	0.00	1.38
35-3W-28.01 A-B	0.00	0.67
35-3W-28.02 A1-B1 (portion)	0.00	0.66

The Purchaser shall secure any necessary water permits and pay all required water fees for use of the water source(s) 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 (one-way), 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.

- 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.
- 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.
- 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.
- The Purchaser shall notify the Authorized Officer a minimum of 7 days in advance of application of required dust palliative.
- 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.
- 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 yd² 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
cadium	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 Decommissioning work includes ripping, installing water bars, placement of soil stabilization material, 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

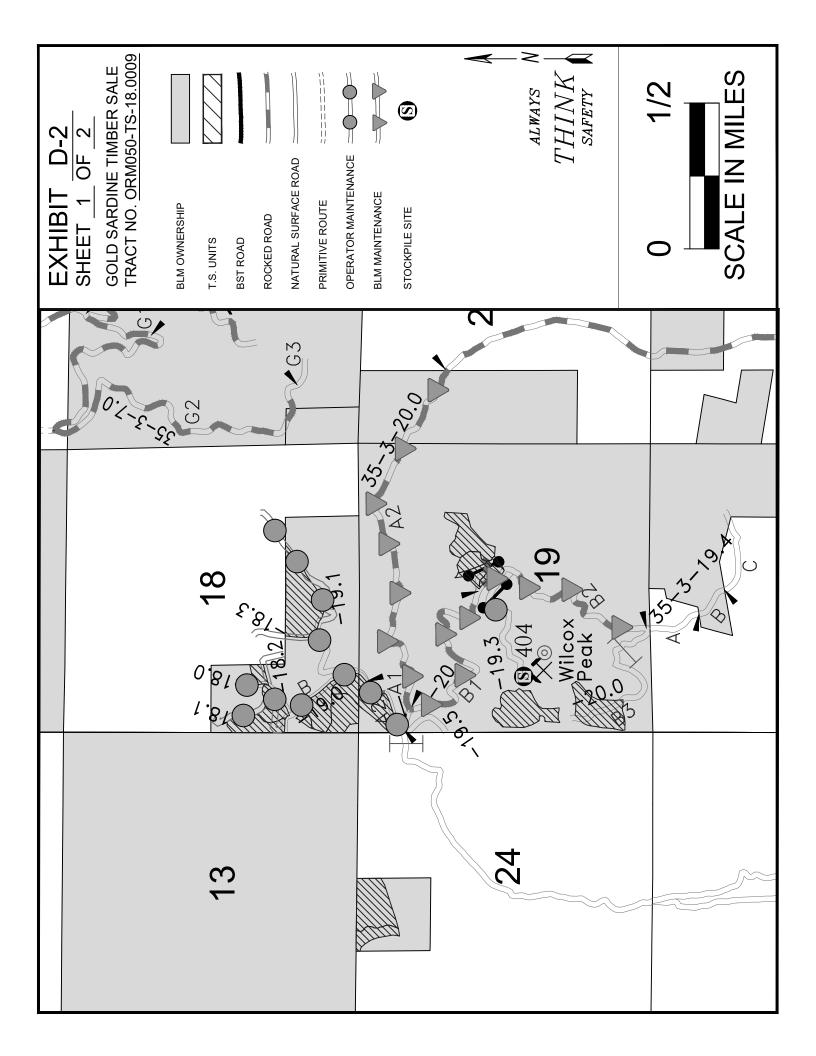
specifications, and as shown on the plans at the following locations:

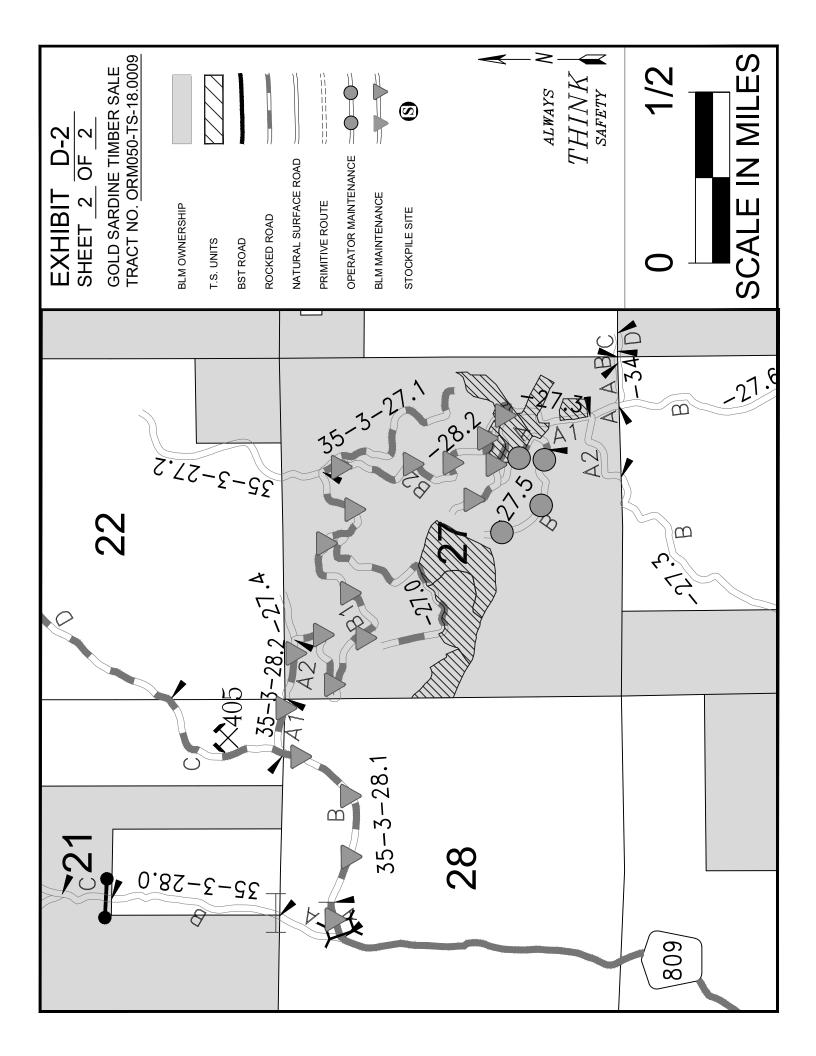
Road No or Site	From MP	То МР	Decommission or Obliterate
Temp 18	0.00	0.06	Decommission
Temp 19	0.00	0.05	Decommission
Temp 27	0.00	0.03	Decommission

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. Where slash is not available exposed soil areas shall be stabilized in accordance with Section 1800.
- 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 typical detail sheet Drainage and Erosion Control Detail Sheet Exhibit C-10 and at locations as shown on Exhibits D-3 and D-4.
- Ripping, subsoiling, and/or water barring shall be done on designated roadways and landings. Ripping shall be done in accordance wing-toothed rippers or excavators modified for tillage.
- 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 C-10, page 2 of 2.
- 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.





GOLD SARDINE TIMBER SALE Road Decommissioning Work List

GENERAL DEFINITIONS:

Decommission (Full) = Rip, Water bar (every 150' for grades <10% - every 100' grades >10%) unless otherwise noted in the work list, Barricade, and/or Remove Culverts (Armor if needed) and Seed and Mulch.

Decommission (Partial) = Water bar (every 150' for grades <10% - every 100' grades >10%) unless otherwise noted in the work list, Barricade, and/or Remove culverts (Armor if needed) and Seed and Mulch disturbed areas.

ASC - Aggregate Surface Course	AWD – Armored water dip
CMP – Corrugated metal pipe	Cu. $Yds = CY = Cubic Yards$
D.B.H Diameter breast height	Jct.— Junction
NAT – Natural surface	PRR - Pit Run Rock
WD – Water Dip	DS – Down Spout

35-1E-18.01 (Hillis Peak Spur A)

(Private) NAT

MP	Remarks
1111	110111111111

- 0.00 Jct. w/35-3W-19.00. Begin road partial road decommissioning.
- 0.05 Construct earth barricade.
- 0.25 End partial road decommissioning.

Temp Route 18

MP Remarks

- 0.00 Jct. w/ 35-3W-19.00.
- 0.01 Construct barricade.
- 0.06 Full decommission un-rocked portion of helicopter landing.

Temp Route 19

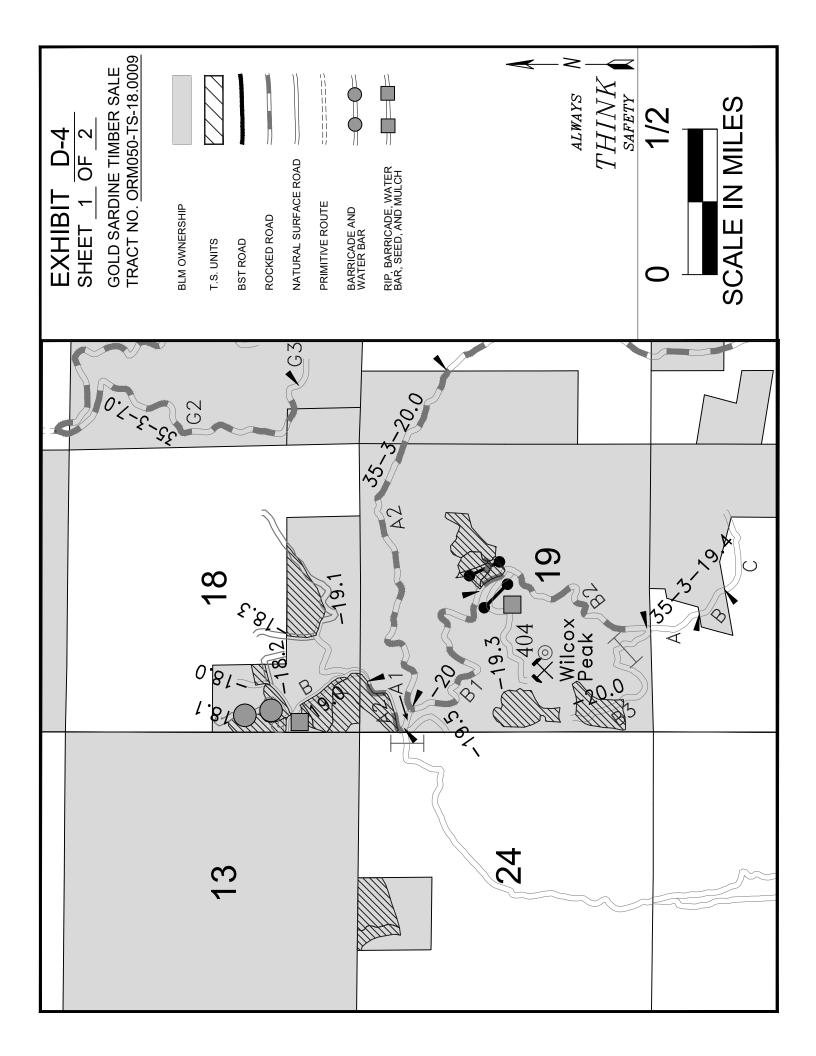
MP Remarks

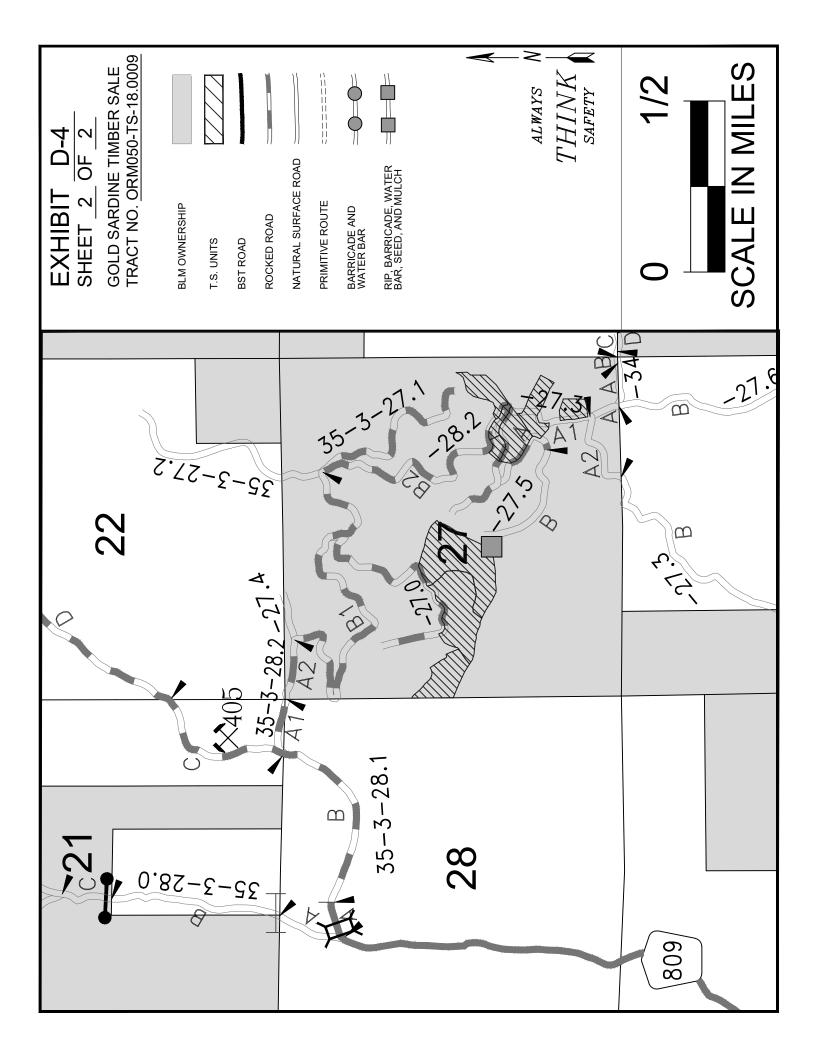
- $\overline{0.00}$ $\overline{\text{Jct. w}/35}$ -3W-19.03.
- 0.01 Construct barricade.
- 0.05 Full decommission un-rocked portion of helicopter landing.

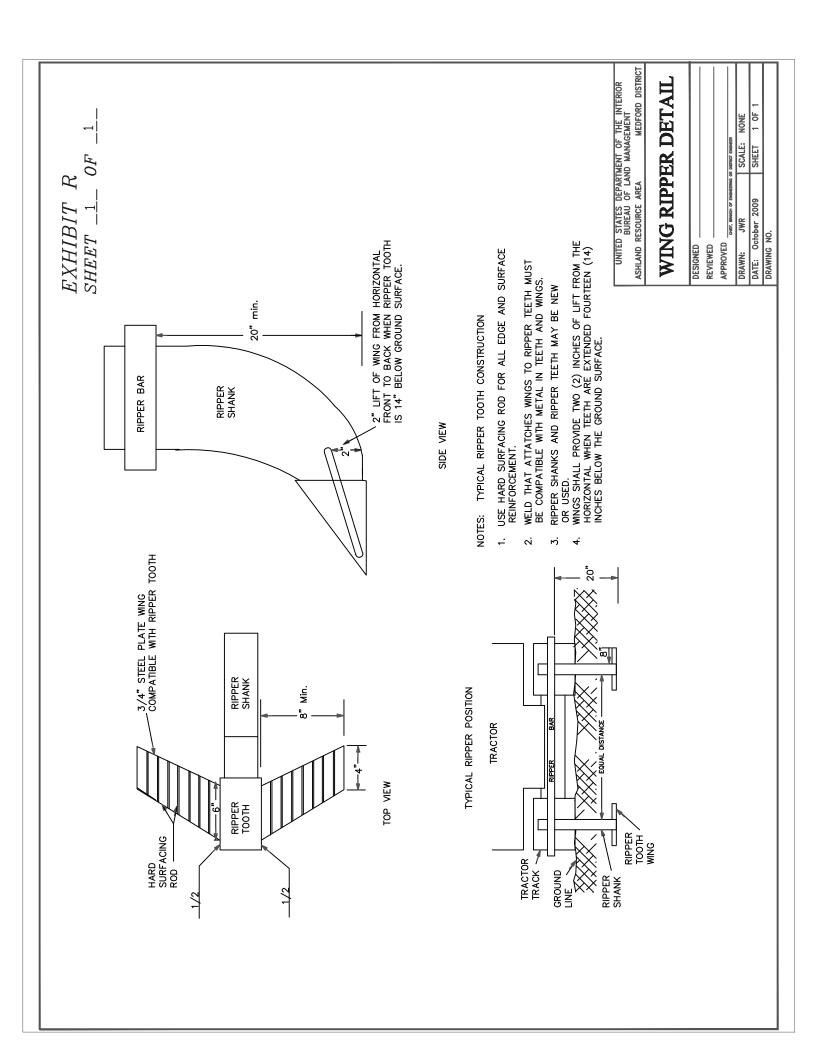
Temp Route 27

MP Remarks

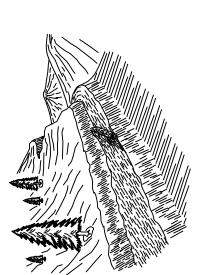
- 0.00 Jct. w/ 35-3W-19.03. Begin full decommission.
- 0.01 Construct barricade.
- 0.03 Full decommission helicopter landing. End full decommission.







OF1 EXHIBITSHEET

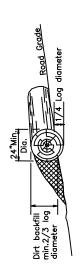


OG BARRICADE

Direction of flow

WATER BAR

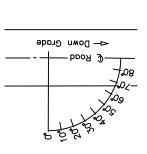
√ Level



- LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
 ALL BARRICADES SHALL BE SKEWED 30 DEGREES THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE. THE MINIMUM SMALL END DIAMETER OF THE LOG BARRICADE SHALL BE 24". - 7

 - ю. 4.
 - - 5

SKEW DIAGRAM



WATER BAR SPACING *

WATER BARS SHALL BE CONSTRUCTED AS SHOWN ABOVE. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
ALL WATER BARS SHALL BE SKEWED 30 DEGREES UPON COMPLETION OF SKIDDING LOGS, FOR THE LOGGING SEASON, EACH ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.
PRIOR TO BLOCKING, EACH ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.

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DECOMPOSED GRANITE	FEET	300	200**	150	90	50	25
LOAM OR CLAY LOAM	FEET	400	300**	200	150	90	50
ROAD GRADE	%	4-6	6-2	10-14	15–20	21–40	41–60

- * DISTANCES ARE MAXIMUM. ** ON GRADES IN EXCESS OF 10% CONSTRUCT WATER BARS.
- UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON

CONTROL INSTALLATION DRAINAGE & EROSION

DESIGNED		BLM				
REVIEWED	 }					
APPROVED	MED					
DRAWN	DCM		SCALE		NONE	ш
DATE	October 2009 SHEET	2009	SHEET	-	OF	1
DRAWING NO.	3 NO.	ō	OR-11-9113.4-8	113	.4-8	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Version: 7.0.0.19 Updated: 11/20/2019

Summary of All Roads and Projects Updated:	on: 7.0.0.19
T.S. Contract Name: Gold Sardine T.S. Tract No: ORM05-TS-18-10 Sale Da	
Prepared by: Brown Ph: x2322 Print Date: 6/14/2021 2:13:15 PM	
Construction: 7.39 sta Improve: 0.00 sta Renov: 520.61 sta Decom: 0.00 sta Temp: 0.00 sta	
200 Clearing and Grubbing: 2.70 acres	\$5 , 693.90
300 Excavation:	\$4,046.12
400 Drainage:	\$13,412.80
500 Renovation:	\$19,345.18
700-1200 Surfacing:	\$84,674.33
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.80 acres	\$842.26
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$11,481.79
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$850.00
Mobilization: Const. \$9,570.00 Surf. \$0.00	\$9,570.00
Quarry Development:	\$0.00
Total: 1,919 mbf @ \$78.122/mbf =	\$149,916.38
Notes:	

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

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-18.00 A-B Road Name: Hillis Peak Spur N	
Road Renovation: 0.21 mi 14 ft Subgrade 3 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$2,270.82
700-1200 Surfacing:	\$979.58
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.31 acres	\$613.57
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$263.48 Surf. \$0.00	\$263.48
Quarry Development:	\$0.00
Total: Notes:	\$4,127.45

Notes:

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

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-18.01 Road Name: Road Representation: 0.25 minutes the Subgrade O. ft. ditch	
Road Renovation: 0.25 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.25 mi	\$108.55
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.35 acres	\$251.16
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$24.53 Surf. \$0.00	\$24.53
Quarry Development:	\$0.00
Total:	\$384.24
Notes:	

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

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-19.00A1B2 Road Name: Hillis Peak Road Renovation: 0.72 mi 15 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 108 lf DownSpout: 0 lf PolyPipe: 0 lf	\$5,816.04
500 Renovation:	\$1,184.70
700-1200 Surfacing:	\$29,148.36
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.30 acres	\$315.85
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.05 acres	\$753.48
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$2,537.87 Surf. \$0.00	\$2,537.87
Quarry Development:	\$0.00
Total: Notes:	\$39,756.29

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-19.01 A-B Road Name: Hillis Peak Spur	
Road Renovation: 0.91 mi 14 ft Subgrade 3 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 86 lf DownSpout: 0 lf PolyPipe: 0 lf	\$6,996.76
500 Renovation:	\$1,027.12
700-1200 Surfacing:	\$1,060.02
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.20 acres	\$210.57
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.35 acres	\$968.76
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$699.83 Surf. \$0.00	\$699.83
Quarry Development:	\$0.00
Total:	\$10,963.05

Notes:

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-19.03 Road Name:	
Road Renovation: 0.54 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.54 mi	\$413.08
700-1200 Surfacing:	\$9,582.77
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.80 acres	\$911.40
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$250.00
Mobilization: Const. \$760.80 Surf. \$0.00	\$760.80
Quarry Development:	\$0.00
Total:	\$11,918.04

Notes:

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-20.00A1B2 Road Name: Left Fork Sardine Cr Road Renovation: 2.98 mi 16 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$5,516.65
700-1200 Surfacing:	\$30,631.10
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.30 acres	\$315.85
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):4.35 acres	\$3,121.56
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$600.00
Mobilization: Const. \$2,740.16 Surf. \$0.00	\$2,740.16
Quarry Development:	\$0.00
Total: Notes:	\$42,925.32

Notes:

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-27.05 A-B Road Name: Hornet Hill Ridge Rd	
Road Renovation: 0.68 mi 16 ft Subgrade 3 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$600.00
500 Renovation:	\$2,228.80
700-1200 Surfacing:	\$993.96
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):1.00 acres	\$1,223.58
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$344.10 Surf. \$0.00	\$344.10
Quarry Development:	\$0.00
Total: Notes:	\$5,390.44

Notes:

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-28.01 A-B Road Name: R Fork Sardine Cr Road Renovation: 0.67 mi 16 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.67 mi	\$1,192.64
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.00 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. \$81.32 Surf. \$0.00	\$81.32
Quarry Development:	\$0.00
Total:	\$1,273.97
Notes:	

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: 35-3W-28.02 Road Name: Hornet Hill Road Renovation: 2.90 mi 16 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 2.90 mi	\$5,402.83
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):4.20 acres	\$3,638.28
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$616.50 Surf. \$0.00	\$616.50
Quarry Development:	\$0.00
Total:	\$9,657.61
Notes:	

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: Temp Route 18 Road Name: Road Construction: 0.06 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: n acres	\$2,139.73
300 Excavation:	\$1,372.76
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$6,407.67
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.00 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. \$676.44 Surf. \$0.00	\$676.44
Quarry Development:	\$0.00
Total:	\$10,596.60
Notes:	

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: Temp Route 19 Road Name: Road Construction: 0.05 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: n acres	\$1,842.39
300 Excavation:	\$1,354.72
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$5,870.87
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.00 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. \$618.33 Surf. \$0.00	\$618.33
Quarry Development:	\$0.00
Total:	\$9,686.31
Notes:	

T.S. Contract Name: Gold Sardine T.S. Sale Date: Road Number: Temp Route 27 Road Name:		
Road Construction: 0.03 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: n acres		\$1,711.78
300 Excavation:		\$1,318.65
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf		\$0.00
500 Renovation:		\$0.00
700-1200 Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.00 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing (NONE):0.00 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. \$206.64 Surf. \$0.00		\$206.64
Quarry Development:		\$0.00
Total Notes:	al:	\$3,237.07
NOTE BY:		

Notes:

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name:	Gold Sa	rdine T.S	. Sale Dat	ce:			
Road Number 35-3W-18.00 A-B 35-3W-18.01 35-3W-19.00A1B2 35-3W-19.03 35-3W-20.00A1B2 35-3W-27.05 A-B 35-3W-28.01 A-B 35-3W-28.02 Temp Route 18 Temp Route 19 Temp Route 27	3.17 2.64 1.58	Improv	Renov 11.09 13.2 38.02 48.05 28.51 157.34 35.9 35.38 153.12	Decomm	Temp		
Total Sta:	7.39		520.61				
200 Clearing and Gr	ubbing		Clearing				
35-3W-18.00 A-B 35-3W-18.01 35-3W-19.00A1B2 35-3W-19.01 A-B 35-3W-20.00A1B2 35-3W-27.05 A-B 35-3W-28.01 A-B 35-3W-28.02 Temp Route 18 Temp Route 19 Temp Route 27		Totals:	acres 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0				
300 Excavation			Excav LCY.s	Haul sta-yds	Haul yd-mi		
		Totals:					
Construct Road an Tractor: D7 w Construct Temp an Tractor: D7 w Construct Temp an Tractor: D7 w	ith ripp d Helico ith ripp d Helico	pers opter Te	mp Route 27	7		8	hr
400 Drainage							
Road Number 35-3W-19.00A1B2	CMP Cul	vert P	olypipes	Downspouts	3		
35-3W-19.00A1B2	108 1	.f	0 lf	0 lf			
55 SW-19.01 A-B	86 1	f	0 lf	0 lf			
Total Drainage:	194 1	<u> </u>					

Continuation of Construction Quantities

35-3W-19.00A1B2

Culvert Qty	Aluminized	Galvanized	Poly Pine		
12 inch	0 lf	0 lf	101/ 1100		
18 inch	144 lf	0 lf	0 lf		
24 inch	0 lf	0 lf	0 lf		
30 inch	0 lf	0 lf	0 lf		
36 inch	50 lf	0 lf	0 lf		
42 inch	0 lf	0 lf			
48 inch	0 lf	0 lf			
Downspout Qty	Half Round	Full (poly)	Full (gal	:7)	
18 inch	0 lf	0 lf	0 lf	v <i>)</i>	
21 inch	0 lf	0 11	0 11		
24 inch	0 lf	0 lf	0 lf		
30 inch	0 11	0 lf	0 11		
Excavation on De	ction				1 ea
500 Renovation		Blade Mile		_	
35-3W-18.00 A-1	В	0.21	2	00	
35-3W-18.01		0.25		0	
35-3W-19.00A1B2		0.72		0	
35-3W-19.01 A-1	В	0.91		0	
35-3W-19.03	_	0.54		0	
35-3W-20.00A1B2		2.98		0	
35-3W-27.05 A-1		0.68	1.	50	
35-3W-28.01 A-I	В	0.67		0	
35-3W-28.02		2.90		0	
	Total	s: 9.86		<u> </u>	
Construct Armore	ed Water Dip	35-3W-18.00 A-B			
Construct A	rmored Water Di	p			1 EA
Watering 35-3		-			
Water Truck	3000 Gal				16 hr
Watering 35-30	W-28.01 A-B				
Water Truck	3000 Gal				3 hr
Watering 35-3	W-27.05 A-B				
					3 hr
Watering 35-31					
					16 hr
Watering 35-31					
					4 hr
watering 35-31					
					3 hr
Watering 35-31					
Water Truck	3000 Gal				1 hr
Surfacing (Loose (Note: Due to sligh Totals shown here	nt rounding dif may not be exa	ctly as shown i	n the road :	summaries	
Commercial		-	Turnouts	Other	
35-3W-19.01 A-1		0	0	40	40
35-3W-20.00A1B2	2	1,078	74	0	1,152
35-3W-19.03		346	12	0	358
35-3W-19 00A1B1	2	996	37	8.0	1 113

996

80

37

1,113

	Totals:	2,420	123	120	2,663
Quarry Name: Comm 4"minus					
Commercial		Roadway	Turnouts	Other	4.0
35-3W-27.05 A-B		0	0	40	40
35-3W-18.00 A-B		0 166	0	40 100	40 266
Temp Route 18 Temp Route 19		138	0	100	238
Temp Route 19		130	O	100	230
	Totals:	304	0	280	584
1300 Geotextiles					
	Totals:	No Quanti	ties		
1400 Slope Protection					
-					
			Totals:	C) c
	Totals:				
	10ca15.	O			
1800 Soil stabilization -	acres	Dry W/O	-	Hydro	
25 25 10 007170		Mulch	Mulch	Mulch	
35-3W-19.00A1B2 35-3W-19.01 A-B		0.0	0.0	0.0	
35-3W-19.01 A-B		0.0	0.0	0.0	
33 3W 20.00AIB2		0.0	0.0	0.0	
	Totals:	0.00	0.80	0.00	
	Small Qua	ntity Fact	or of 1.55	used	
1900 Cattleguards					
1900 Cattlegualus	Totals:	No Quanti	ties		
		200000			
2100 RoadSide Brushing		acres			
35-3W-18.00 A-B - Manua					
35-3W-18.01 - Manual Bi 35-3W-19.00A1B2 - Manua		0.4			
35-3W-19.00A1B2 - Manua					
35-3W-19.01 A-B - Manual Br		0.8			
35-3W-20.00A1B2 - Manua					
35-3W-27.05 A-B - Manua					
35-3W-28.02 - Manual Br	_	4.2			
	Totals:				
Chip Brush (0.09 miles)	35-3W-18	.00 A-B			2 -
Brush Chipper Chip Brush (0.24 miles)					2 hr
Chip Brush (0.24 miles) Brush Chipper	35-3W-28	. U Z			Λhν
Chipping Brush 35-3W-2	27.05 A-B				
Brush Chipper					6 hr
Chipping Brush 35-3W-1	9.03				
Brush Chipper					4 hr

2300 Engineering

stations

Continuation of Construction Quantities

	Totals:	0.00	
2400 Minor Concrete	Totals:	No Quantities	
2500 Gabions	Totals:	No Quantities	
8000 Miscellaneous Re-construct barricadeM. Re-construct barrica Remove guardrail gates p Remove post	de osts 35-3		 3 EA 1 LS

Sale: Gold Sardine T.S.

Sale Date:

Prep. By : Brown UNITED STATES

DEPARTMENT OF THE INTERIOR Tract No: ORM05-TS-18-10 BUREAU OF LAND MANAGEMENT

1.1) Road Use - Amortization: \$0.00/1919 MBF = 0/MBF

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

Road Maintenance Obligation:	
(2.1) BLM Maintenance	
Purchaser Maintenance Allowances:	
(5.2A) Move In	\$1,323.00
(5.2B) Culverts, Catch Basins, Downspouts	\$4,442.91
(5.2C) Grading, Ditching	\$0.00
(5.2D) Slide Removal and Slump Repair	\$0.00
(5.2E) Dust Palliative (Water)	\$7,183.80
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	\$12,949.71
(2.1-5.2G) Cost (\$8,155.37 + \$12,949.71) = \$21,105.08 Cost/MBF 21105.08 / 1919 MBF =	\$11.00/MBF
(5.2H) Decommissioning	\$6,487.65
(5.2H) Cost/MBF \$6,487.65/1919 MBF =	\$3.38/MBF
(2.1-5.2H) Cost $($8,155.37 + $12,949.71 + $6,487.65) = $27,592.73$	
Total Cost/MBF (Excluding Road Use) \$27,592.73/1919 MBF =	\$14.38/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

	MA	CE (2.1	.)	R	CCKWEAR	(2.2)	
Road Number	A Surf		Maint	Vol				
and Segment	N Type	Mi x	Fee x	MBF	= Maint F	ee x MB	F =	Rkwear
35-3W-20.00A1A	A2A AGG	1.38	0.76	1099	\$1,152.63	0.73	1099	\$1,107.13
35-3W-20.00B1	A AGG	0.60	0.76	296	\$134.98	0.73	296	\$129.65
35-3W-20.00B2A	AA AGG	0.35	0.76	296	\$78.74	0.73	296	\$75.63
35-3W-20.00B2	A AGG	0.65	0.76	119	\$58.79	0.73	119	\$56.47
35-3W-28.01 A	N AGG	0.08	0.99	820	\$64.94	0.00	820	\$0.00
35-3W-28.01 B	N AGG	0.59	0.99	820	\$478.96	0.73	820	\$353.17
35-3W-28.02	N AGG	2.66	0.99	820	\$2,159.39	0.73	820	\$1,592.28
(2.1) Subtotal	\$4 , 12	8.43		(2.2)	Subtotal \$3	,314.33	-	

3) Third Party Maintenance and Rockwear

MAINTENANCE (3.1) ROCKWEAR (3.2)

Agrmnt	Surfac	ce Road							
Number	Type	Number	Mi	X	Fee	x MBF	=	Maint Fee x MBF	= Rkwear
M-660J	AGG	35-3W-19.01	в 0.	53				\$0.73 x 223	= \$86.28
M-660J	NAT	35-3W-18.01	0.	23				\$0.00 x 61	= \$0.00
M-660K	AGG	35-3W-28.01	A 0.	08				\$0.73 x 820	= \$47.89
Subtotal	of mair	ntenance fees	by agre	emen	t num	ber:			
Subtotal	of rock	kwear fees by	agreeme	nt ni	umber	•			
M-660J									\$86.28
M-660K									\$47.89

(3.1) Subtotal \$0.00

(3.2) Subtotal \$134.17

4) Other Maintenance Payments - USFS or Others Perform Maintenance

Miles Vol Fee
Agency Road Number (Log) x (mbf) x MBF/MI = Cost

(4.1) Subtotal \$0.00

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)

Road No	A	RkWear	Vol '	Total
and Segment	N Mi	x Fee x	MBF = 1	RkWear
35-3W-18.00 A	A 0.12	x \$0.73	x 94 =	\$8.23
35-3W-18.00 B	A 0.09	x \$0.00	x 54 =	\$0.00
35-3W-18.01	A 0.23	x \$0.00	x 61 =	\$0.00
35-3W-19.00A1A2	A 0.32	x \$0.73	x 803 =	\$187.58

35-3W-19.00B1	A	0.32	Х	\$0.73	Х	550 =	\$128.48
35-3W-19.00B2	Α	0.08	Х	\$0.00	Х	424 =	\$0.00
35-3W-19.01 A	Α	0.37	Х	\$0.73	Х	223 =	\$60.23
35-3W-19.01 B	Α	0.53	Х	\$0.00	Х	223 =	\$0.00
35-3W-19.03	Α	0.25	Х	\$0.73	Х	177 =	\$32.30
35-3W-27.05 A	N	0.27	Х	\$0.73	Х	820 =	\$161.62
35-3W-27.05 B	N	0.41	Х	\$0.00	Х	820 =	\$0.00

(5.1) Subtotal \$578.44

Purchaser Operational Maintenance

Move In

No	Move	Со	st/		Dist		Sub-		
Equipment	Uni	cs x	in	Х	50 Mi	Х	Factor	=	total
Motor Grader	:	L	1		414		1.00	\$4	14.00
Back Hoe:		L	1		308		1.00	\$3	08.00
Loader:					414		0.63		\$0.00
Water Truck:		L	1		96		1.00	\$	96.00
Dump Truck:		L	1		91		1.00	\$	91.00
Excavator:					414		0.63		\$0.00
Roller:		L	1		414		1.00	\$4	14.00

(5.2A) Total \$1,323.00

Culvert Maintenance - Including Catch basins and Downpipes

$$\frac{\text{Miles x Cost/Mi} = \text{Subtotal}}{\$4,442.91}$$

(5.2B) Total \$4,442.91

Grading (Includes Ditches and Shoulders)

Miles	X	Cost/Mi	x Freq	= Subtotal		
Blade	w/	Ditch:	0.21	708.54	0	\$0.00
Blade	w/o	Ditch:	0.00	434.19	0	\$0.00

(5.2C) Total \$0.00

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

Type	No Slides		Hours	Equip	
Equipment	/Slumps	Х	Each	x Cost	= Subtotal
Grader:	0		0	\$142.72	\$0.00
Loader:	0		0	\$102.93	\$0.00
Backhoe:	0		0	\$87.60	\$0.00

(5.2D) Total \$0.00

Dust Palliative (Water)

Spreading Hours

	No	Freq	Truck			
	Miles	/ MPH	= Hours	x Days	x /Day	= Hours
	2.70	3	0.9	100	1	90
Load & Haul = Total Hours =			0.0 90	0	0	0

Truck Cost: $79.82/Hr. \times 90.0 \text{ Hours} = 7183.80$

(5.2E) Total 7183.80

Surface Repair (Aggregate)

(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 <u>\$0.00</u>

Decommissioning

Ripping

Road Number	Ripping Cost	Х	(NumSta or	CuYds)	= Total
Temp Route 19	30.7	X	21		= \$#,##0.00
Temp Route 18	30.7	X	25		= \$#,##0.00
Temp Route 27	30.7	Х	26		= \$#,##0.00

(Ripping) Total <u>\$#,##0.00</u>

Other Costs

Road	Cubi	c Yds		Qty		(Qty		
Number	Pullback	Materia	ıl	Waterba	rs	 Earthe	n Barrie	rs =	Total
35-3W-19.00	(0x1.8)	+	(0x55	.93)	+	(1x167.8) =	\$#,##0.	00
35-3W-20.00	(0x1.8)	+	(0x55	.93)	+	(1x167.8)) =	\$#,##0.	00
Temp Route	19	(0x1.8)	+	(2x55	.93)	+	(1x167.8)	=	\$#,##0.00
Temp Route	18	(0x1.8)	+	(2x55	.93)	+	(1x167.8)	=	\$#,##0.00
Temp Route	27	(0x1.8)	+	(1x55	.93)	+	(1x167.8)	=	\$#,##0.00
35-3W-18.01	(0x1.8)	+	(8x55	.93)	+	(1x167.8)) =	\$#,##0.	00

(Other Cost) Total \$#, ##0.00

Time & Equipment

35-3W-19.00 Backhoe: 2 hr @ \$85.84/hr =\$	171.68
35-3W-20.00 Backhoe: 2 hr @ \$85.84/hr =\$	171.68
Temp Route 18 Seeding and Mulching: 0.75 Acre @ \$1000.00/Acre =\$	750.00
Temp Route 19 Seeding and Mulching: 0.65 Acre @ \$1000.00/Acre =\$	650.00
Temp Route 27 Seeding and Mulching: 0.8 Acre @ \$1000.00/Acre =\$	800.00

(5.2H) Decommissioning Total \$6,487.65

Form 5440-9 (December 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	TIMBER*
DEPOSIT AND BID FOR	VEGETATIVE RESOURCE
	(Other Than Timber)

Name of Bidder	
Tract Number	
OD 10 5 TO 10 00	
ORM05-TS-18-09	
Sale Name	
Suic i vaine	
Gold Sardine	
Sale Notice (dated)	
7/0/2021	
7/9/2021	
BLM District	
DLM DISTILCT	
Medford	

LUMP SUM SALE

		Sealed Bid for Sealed Bid Sale				Written Bid for Oral Auction Sale			
	In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.								
Red	Required bid deposited is \$37,000.00 and is enclosed in the form of \Box cash \Box money order \Box bank draft								
	□ cashier's check □ certified check □ 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 species will be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE – LUMP SUM SALE

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
Douglas-fir	MBF	1,825	Х	=\$	Х	=
White Fir	MBF	58	Х	=\$	Х	=
Ponderosa Pine	MBF	23	х	=\$	х	=
Incense-cedar	MBF	13	Х	=\$	Х	=
			Х	=	Х	=
Total		1,919	X	=	Х	=
			X	=	Х	=
			X	=	Х	=
			Х	=	Х	=
			Х	=	Х	=
			X	=	Х	=
			Х	=	Х	=
			Х	=	Х	=
			X	=	Х	=
	TOTAL PUR					

(Continued on reverse)

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

Bid submitted on (date)	
(Check appropriate box, sign in	ink, and complete the following)
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)
Corporation organized under the same laws or	, , , , , , , , , , , , , , , , , , , ,
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above or albid By (signature)
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (2) Vecetative Resource Other Then Timber
Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	(2) Vegetative Resource Other Than Timber(3) Time bids are to be opened(4) Legal description

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

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

INSTRUCTIONS TO BIDDERS

- 1. AUTHORITY Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.
- 2. QUALIFICATIONS OF BIDDERS A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.
- 3. INSPECTION OF TIMBER/VEGETATIVE RESOURCES Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.
- 4. *DISCLAIMER OF WARRANTY* Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.
- 5. *BIDS* Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued *Timber/Vegetative Resource Sale Notice*.
- (a) Sealed Bid Sales Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside Bid for Timber/Vegetative Resource, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.
- (b) Auction Sales Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.
- (c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.
- (d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.
- 6. *BID FORMS* All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.
- (a) Lump Sum Sales Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.
- (b) Timber Scale Sales Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut

- and removed prior to expiration of time for cutting and removal as specified in contract.*
- 7. BID DEPOSIT All bidders must make a deposit of not less than the amount specified in the *Timber/Vegetative Resource Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department*, or any approved guaranteed remittance approved by the Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government
- 8. AWARD OF CONTRACT Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.
- 9. TIMBER/VEGETATIVE RESOURCE SALE CONTRACT To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. PERFORMANCE BOND-

- (a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) any guaranteed remittance approved by the Authorized Officer.
- (b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.*
- 11. PAYMENT BOND If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.*
- 12. PAYMENT OF PURCHASE PRICE For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.
- 13. LIQUIDATED DAMAGES Within thirty (30) days from receipt of *Timber/Vegetative Resource Sale Contract*, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.
- 14. NINETY-DAY SALES If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

^{*}Applies to Timber Only

- 15. UNAUTHORIZED USE OF GOVERNMENT PROPERTY A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.
- 16. EQUAL OPPORTUNITY CLAUSE This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity Compliance Report Certification will be completed by prospective contractors. Certification may be obtained from District Manager.
- 17. LOG EXPORT All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western
- red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension 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.