

REVISED

P R O S P E C T U S

Lump Sum Sale

ASHLAND RESOURCE AREA
JACKSON MASTER UNIT

Medford Sale # ORM06-TS-2015.0016
September 17, 2015

#1. South Fork Little Butte, Jackson County, (O&C) (PD) BID DEPOSIT REQUIRED: \$ 134,900.00

All timber designated for cutting in S ½ NE ¼, NW ¼, N ½ SE ¼ Section 17, Lot 3, Lot 4, SE ¼ NE ¼, E ½ SW ¼, N ½ SE ¼, SW ¼ SE ¼ Section 18, Lot 1, Lot 2, Lot 3, E ½ NE ¼, SE ¼ NW ¼, NE ¼ SW ¼ Section 19, SE ¼ NE ¼, NE ¼ SE ¼ Section 20, S ½ SW ¼ Section 29, Lot 1, Lot 2, Lot 3, Lot 4, SE ¼ NW ¼, E ½ SW ¼ Section 30, Lot 1, Lot 2, N ½ NE ¼, SE ¼ NE ¼, SE ¼ NW ¼, E ½ SE ¼ Section 31, Lot 1, Lot 2, Lot 3, Lot 4 Section 32, T. 37 S., R. 3 E.; N ½ SW ¼, SE ¼ Section 13, E ½ SE ¼ Section 14, NE ¼, SE ¼ Section 17, W ½ SE ¼ Section 22, NE ¼, NW ¼, NW ¼ SW ¼ Section 23, NE ¼, SW ¼, E ½ SE ¼ Section 25, SW ¼, SE ¼ SE ¼ Section 35, T. 37 S., R. 2 E.; NW ¼, SW ¼, SE ¼ SE ¼ Section 1, NE ¼ NE ¼ Section 3, T. 38 S., R. 2 E.; 2 Unnamed Lots Section 5, Unnamed Lot, SE ¼ SW ¼ Section 6, NE ¼, E ½ NW ¼, N ½ SE ¼ Section 11, SE ¼ SE ¼ Section 19, W ½ SW ¼, SE ¼ SW ¼, SW ¼ SE ¼ Section 20, NW ¼, NE ¼ SW ¼ Section 21, SE ¼ Section 22, SW ¼ Section 23, S ½ NW ¼, N ½ SW ¼ Section 27, T. 38 S., R. 3 E.; Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Est. Volume CCF	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
37,831	6,554		Douglas Fir	7,988	\$155.60	\$1,242,932.80
10,615	1,448		White Fir	1,824	\$51.90	\$94,665.60
587	41		Ponderosa Pine	53	**\$32.40	\$1,717.20
940	52		Incense Cedar	70	\$136.10	\$9,527.00
49,973	8,095		Total	9,935		\$1,348,842.60

*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 Interagency Office.

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

TIMBER AUCTION LOCATION – The timber auction will be held at the Medford Interagency Office, located at 3040 Biddle Road, Medford, Oregon, at 9 a.m. on Thursday, September 17, 2015.

CRUISE INFORMATION – The timber volumes were based on a local volume table and 3-P sampling method to select sample trees. The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume. Approximately 1% of the total sale volume is salvage material. A map showing the location and description of these sample trees is available at the Medford Interagency Office.

With respect to merchantable trees of all conifer species: the average tree is 14.3 inches DBHOB; the average gross merchantable log contains 60 bd. ft.; the total gross volume is approximately 11,428 M bd. ft; and 87% recovery is expected. (Average DF is 14.6 inches DBHOB; average gross merchantable log DF contains 61 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.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS - 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.

CUTTING AREA – Seventy four (74) units containing 932 acres must be partial cut.

CUTTING TIME - Contract duration will be 36 months for cutting and removal of timber.

ACCESS – Access to the sale area is available via public roads through the contract area, existing BLM roads, USFS Roads, Right-of-Way and Road Use Agreements, and Easements as shown in Section 41 (C)(11) through (18). Among other conditions, these agreements require payment of road use fees and the completion of agreements between the Purchaser and Permittee's.

ROAD MAINTENANCE - The Purchaser will be required to maintain 0.12 miles of road he constructs plus 11.67 miles of existing road listed in Section 41(C)(4). BLM will maintain 53.59 miles of roads listed in Section 41(C)(3). The Purchaser will be required to pay a road maintenance obligation and rockwear fee of \$4.00 per MBF or a total of \$39,785.29 for the use of these roads.

ROAD CONSTRUCTION - The contract will require the Purchaser to construct 0.12 miles of permanent road and 2.11 miles of temporary road. Additional information is available in the timber sale prospectus.

SOIL DAMAGE PREVENTION - 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 is high as determined by the Authorized Officer. The Purchaser shall construct motor vehicle barricades on all primary skid roads which intersect any haul roads; water bar all skid trails; and mulch and seed fill slopes on the newly constructed landings.

EQUIPMENT REQUIREMENTS - LOGGING: A yarding tractor equipped with an integral arch and a winch for lining logs seventy-five (75) feet. A skyline yarder capable of one-end suspension with a minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul. A helicopter capable of yarding logs vertically to a height above the adjacent leave trees without horizontal movement. A drop line with a minimum length of one hundred fifty (150) feet is required.

SLASH DISPOSAL - Slash disposal will consist of Hand Piling.

CONTRACT TERMINATION - A Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to comply with the Endangered Species Act, or comply with a court order, or 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). This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

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

OTHER -

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
2. Winter hauling may be allowed. Refer to stipulations L-18 and E-1 in the contract for more information.
3. Harvester-forwarder or feller-buncher operations may be allowed. Refer to stipulation L-7MC in the contract for more information.
4. Tractor yarding, harvester-forwarder, or feller-buncher operations may be allowed in winter conditions. Refer to stipulation L-7MC in the contract for more information.
5. Reserve trees cut for operational purposes may be traded with trees designated to cut in some units. These units have treat and maintain prescriptions for spotted owl habitat and must maintain a specific canopy cover.
6. Restriction for Deer and Elk Winter Range shall not be waived.
7. **The BLM shall be contacted before using road 37-3E-21.02 on private land to access Units 17-1a, 17-1b, 17-1c, and 17-1d near Poole Hill.**
8. The Purchaser shall be required to construct and maintain a road approach off of Dead Indian Memorial Highway as required by the terms and conditions in the permit issued by Jackson County. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From White City, proceed approximately 12 miles East on highway OR-140/Fish Lake Hwy. Turn right onto Lake Creek Road and proceed approximately 6.5 miles and turn right onto Conde Creek Road. Proceed 1.0 mile on Conde Creek Road to the sale area.

ENVIRONMENTAL ASSESSMENT - An environmental assessment (DOI-BLM-OR-M060-2015-0001-EA) was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford Interagency Office.

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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 DISTRICT OFFICE.

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

- (A) AR-1 All timber on the Reserve Area(s) as shown on Exhibit A and all orange painted and/or posted trees which are on or mark the boundaries of the Reserve Area(s).
- (B) IR-1 Approximately eighteen thousand seven hundred four (18,704) trees marked with orange paint above and below stump height in units 17-1a, 17-1b, 17-2a, 18-3, 18-4a, 18-4b, 18-4c, 19-1a, 19-1b, 19-1c, 19-4, 20-4, 31-3, 13-1a, 13-1b, 13-1c, 13-2, 14-1, 17-3, 17-4, 17-5, 17-6, 23-2a, 23-2b, 23-2c, 23-2d, 23-3b, 23-4, 23-9, 23-10a, 23-10b, 25-3a, 25-3b, 25-3c, 25-3d, 25-5, 25-6, 35-1a, 35-1b, 35-7, 1-3, 1-5, 22-2, and 27-1as shown on Exhibit A.
- (C) IR-2 All timber except approximately fourteen thousand two hundred ninety four (14,294) trees marked for cutting heretofore by the Government with white paint above and below stump height in units 17-1c, 17-1d, 17-2b, 17-2c, 29-2, 30-2b, 30-2c, 30-3, 31-2a, 31-2b, 31-4, 31-5, 31-7, 22-4, 25-1a, 25-4, 30-2a, 35-5a, 35-5b, 1-1, 1-2, 1-6, 5-2a, 5-3, 6-1, 11-1a, 20-1, 21-1, 22-1, and 27-3 as shown on Exhibit A.
- (D) IR-5 All young growth less than seven (7) inches D.B.H.O.B. not damaged in the normal course of logging in all units as shown on Exhibit A, except when determined to be a safety hazard during operations and approved by the Authorized Officer.
- (E) IR-6 All snags, except in units designated as salvage units as shown on Exhibit A, and when determined to be a hazard during operations. Snags felled for safety will be retained on site as course woody material.
- (F) IR-6 All hardwoods, except when determined to be a hazard and approved for felling by the Authorized Officer. Hardwoods felled for safety will be retained on site as course woody material.
- (G) IR-10M Genetically superior trees marked with orange paint and seed trees tags in the contract area. These trees are selected, genetically superior trees and are specially valued as a component of the tree improvement program. Any damage to such reserve trees caused by Purchaser shall be charged for on the basis of the resulting total loss to the Government including any loss in value as a superior seed source.

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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 (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards or specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timbers regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles.

Substitution will be determined under the definition found in 43 CFR 5400.0-5(n).

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

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

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6. Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a "Certificate as to Nonsubstitution and the Domestic Processing of Timber." The original of such certificate shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

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

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

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

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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) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of seven (7) or more days.
- (2) L-7MC 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.

Tractor Units: 17-1b, 18-4b, 19-1a, 19-1c, 19-4, 20-4, 29- 2, 30-2a, 30-2c, 30-3, 31-2b, 31-3, 31-4, 31-5, 31-7, 13-1c, 13- 2, 17-3, 17-4, 17-5, 23-2c, 23-2d, 23-10a, 25-3a, 35-1b, 35-5a, 1-1, 1-2, 1-3, 1-6, 5- 2a, 6-1, 11-1a, 20-1, 21-1, 22-1, 22-2, 27- 1, 27-3	All ground-based yarding systems shall be approved by the Authorized Officer. Yarding tractors will operate only on tractor skid roads approved by the Authorized Officer. Skid road locations will be approved prior to felling of timber to be yarded over that skid trail and trees shall be felled to the lead. The location of the tractor skid roads must be clearly designated on the ground and spaced at approximately one hundred fifty (150) foot intervals where feasible. Existing skid roads will be utilized where possible. Ground based yarding systems shall be limited to slopes thirty-five (35) percent or less except as approved by the Authorized Officer. No yarding will be allowed up or down draw bottoms. Skid trails shall avoid areas with high water
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	<p>tables. Skid trail width shall average 12 feet.</p> <p>Yarding tractors will be equipped with integral arches and winch systems capable of lining logs at least seventy five (75) feet.</p> <p>Landing size shall not exceed one-quarter (¼) acre.</p> <p>No tractor yarding is permitted when soil moisture content at a depth of four to six (4-6) inches is greater than thirty (30) percent as determined by oven dry weight. Yarding will be limited in accordance with Section 26 if detrimental soil damage about to occur, as determined by the Authorized Officer.</p> <p>Mechanized equipment capable of creating and walking on slash (such as a cut-to-length system) may work off designated skid trails for one or two passes on at least 8 inches of slash and under dry soil conditions (less than 15% soil moisture content). Limit secondary trails to a minimum of 50-foot spacing off designated skid trails.</p> <p>Mechanized equipment (feller-buncher systems) may work off designated skid trails when soil moisture content is less than 15% for 1 or 2 passes only (one round-trip). These 1 to 2 pass secondary trails must be spaced a minimum of 50 feet apart off of designated skid trails.</p> <p>If indications of detrimental soil compaction are observed (loss of soil structure, platiness) off of designated skid trails, use of logging equipment off of designated skid trails shall be suspended until the soil strength is sufficient to resist detrimental compactive forces.</p> <p>Where skid trails encounter course woody debris (CWD) sixteen (16) inches and larger at the small end, a section of the CWD is to be bucked out for equipment access. The bucked out portion shall be as narrow as operationally feasible, (maximum of fourteen (14) feet). The remainder of the CWD shall be left in place and not disturbed.</p>
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	<p>Tractor yarding or other mechanized operations would be allowed over the snow when the snow depth is 18" or greater and negligible ground surface exposure would occur during operations. If snow depth is less than 18", yarding may be allowed on designated skid trails if soil moisture is less than 30%.</p> <p>Front end loaders shall not be used in units or on landings.</p>
<p>Skyline Units: 18-4a, 18-4c, 19-1b, 30-2b, 31-2a, 13-1a, 23-2a, 23-2b, 23-4, 25-1a, 25-3b, 25-4, 25-5, 35-1a</p>	<p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet.</p> <p>The carriage will be a minimum of fifteen (15) feet above the ground during lateral yarding.</p> <p>Yarding corridors will be perpendicular to the contours and landings shall be spaced at an average of one hundred fifty (150) foot intervals where feasible. The width of the skyline corridors shall be as narrow (maximum 15 feet) as operationally feasible.</p> <p>No yarding will be allowed up or down draw bottoms and no yarding corridors will be allowed in riparian reserves.</p> <p>Trees shall be felled to the lead in respect to the yarding corridor.</p> <p>Front end loaders shall not be used in units or on landings.</p> <p>All yarding corridors, guyline trees, tailholds and lift trees shall be designated on the ground by the Purchaser and approved by the Authorized Officer.</p> <p>Water Bars shall be constructed manually on steeper slopes and where gouging has occurred.</p>

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<p>Helicopter Units:</p> <p>17-1a, 17-1c, 17-1d, 17-2a, 17-2b, 17-2c, 18-3, 13-1b, 14-1, 17-6, 22-4, 23-9, 23-10b, 25-3c, 25- 3d, 35-7, 1-5</p>	<p>All yarding will be done with an aerial system.</p> <p>Landing size shall not exceed one (1) acre.</p> <p>Only landings previously approved as shown on Exhibit A shall be constructed and/or used.</p> <p>Log Landings, service pads and helispots can be constructed with prior approval of the Authorized Officer and shall not be larger than necessary.</p> <p>A dropline with a minimum length of one hundred fifty (150) feet is required.</p> <p>Logs to be yarded will be lifted vertically to a height above the adjacent leave trees without horizontal movement.</p> <p>All multiple log turns will be vertically lifted from a small enough radius to result in minimal damage to the residual forest stand as determined by the Authorized Officer.</p>
<p>Cable Units:</p> <p>23-3b, 25-6, 35-5b, 5-3</p>	<p>Yarding equipment shall be approved by the Authorized Officer.</p> <p>Yarding tractors shall operate only on existing improved roads.</p> <p>Yarding tractors shall be equipped with and winch systems capable of lining logs at least two hundred (200) feet.</p> <p>Landing size shall not exceed one-quarter (1/4) acre.</p> <p>No Yarding up or down draw bottoms as determined by the Authorized Officer.</p> <p>Front end loaders shall not be used in units or on landings.</p>

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- (3) L-9 No ground disturbing activities are permitted in or through the reserve area with the exception of two locations. Skidding through the reserved area to access a landing in Unit 5-2a along Conde Creek Road (38-3E-17) and yarding through the reserve area from the southern portion of unit 30-2b to access a landing along road 37-2E-31.1 shall be permitted as approved by the Authorized Officer.
- (4) L-11 No new construction of landings or expansion of old landings shall be located within the riparian reserve of any stream with the exception of one location to access a landing in Unit 5-2a along Conde Creek Road (38-3E-17) shall be permitted as approved by the Authorized Officer.
- (5) L-18 No ground-based operations shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. This restriction may be waived during dry soil conditions, 30% soil moisture or less measured using four water content samples using the oven dry method. Soil samples must be collected between depths of 4-6 inches, as approved by the Authorized Officer.
- (6) L-18 No road maintenance shall be permitted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive, except for spot rocking and road brushing by hand. Spot rocking during the restricted period shall not occur within 200 feet of any stream.
- (7) L-18 No road construction, road renovations, landing construction, or road decommissioning activities shall be permitted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Variations in these dates would be permitted dependent upon weather and soil moisture conditions and with a specific erosion control plan (e.g. rocking, waterbarring, seeding, mulching, barricading) as determined by the Authorized Officer in consultation with aquatic and/or soils scientists. All construction activities would be stopped during a rain event of 0.2 inches or more within a 24-hour period or if determined by the Authorized Officer that resource damage would occur if construction is not halted. If on-site information is inadequate, measurements from the nearest Remote Automated Weather Station would be used. Construction activities would not resume until determination is made by the Authorized Officer that resource damage would not occur.
- (8) L-18 No hauling shall be conducted on natural surface roads and roads 37-2E-23.04, 37-2E-24.01, 37-2E-36.00, 38-3E-11.06, 38-3E-21.00, 38-3E-21.02

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between October 15th of one calendar year and May 15th of the following calendar year. No hauling shall be conducted on these roads during precipitation events when rutting is about to occur or turbid runoff is likely to reach flowing streams or other surface water as determined by the Authorized Officer. Hauling restrictions may be waived during the shoulder season (October 15th to December 1st and April 1st to May 15th) during periods of prolonged dry conditions as approved by the Authorized Office.

- (9) L-18 Hauling would be allowed on rocked roads 37-2E-7.02, 37-2E-13.00A2-F1, 37-2E-13.00G-H, 37-2E-23.00, 37-2E-23.02, 37-2E-24.04A, 37-2E-24.05, 37-3E-18.01, 37-3E-18.03, 37-3E-18.04A, 37-3E-18.06, 37-3E-18.07, 37-3E-19.00, 37-3E-19.01, 37-3E-29.01, 37-3E-30.00, 37-3E-30.04, 37-3E-30.06, 37-3E-31.01, 37-3E-31.03, 37-3E-32.00, 37-3E-32.02, 38-2E-3.01, 38-2E-3.08, 38-2E-11.00, 38-3E-5.00, 38-3E-9.00, 38-3E-11.00, 38-3E-11.08, 38-3E-19.00C-D, 38-3E-29.00, 38-3E-29.03, 38-3E-33.00, 38-3E-33.01, USFS800 in accordance with the following. Haul would be stopped during a rain event of 0.2 inches or more within a 24-hour period or if determined by the administrative officer that resource damage would occur if haul is not halted. If on-site information is inadequate, measurements from the nearest Remote Automated Weather Station would be used. Hauling would not resume until determination is made by the Authorized Officer that resource damage would not occur. On active haul roads, during the wet season, use durable rock surfacing and sufficient surface depth to resist rutting or development of sediment on road surfaces that drain into flowing streams or other surface water. Maintain road surface by applying rock to protect road surfaces from rutting and erosion under active haul where runoff drains to flowing streams or other surface water. When rutting is about to occur or turbid runoff is likely to reach flowing streams or other surface water haul shall be suspended as determined by the Authorized Officer. Winter hauling on snow would be allowed on any road if at least 4 inches of packed snow is present on hauling roads. Snow plowing would maintain at least 4 inches of packed snow on hauling roads. Drainage through the snow bank at periodic intervals to allow for snow melt to drain off the road surface shall be provided. A snowplow permit shall be obtained by the Purchaser from the Authorized Officer before plowing begins.
- (10) L-18a No operations shall be conducted within the East portion of unit 22-1 between February 1st through August 15th of the same calendar year, both days inclusive. This restriction will not apply if no Bald Eagles are nesting within 0.50 miles of the East portion of unit 22-1 before or during operations.
- (11) L-18a No operations shall be conducted within units 23-2a, 23-2c, 13-2, 19-1b (East Portion), and 19-1c between March 1st through September 30th of the same

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calendar year, both days inclusive. This restriction will not apply if it can be shown from Northern Spotted owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Northern Spotted owl nesting and/or fledging activities are not occurring during the year or time of harvest.

- (12) L-18a No operations that produce loud noises above ambient levels shall be conducted within specified distances (Table 1) of any documented owl site during the critical early nesting period, between March 1 through June 30th of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from Northern Spotted owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Northern Spotted owl nesting and/or fledging activities are not occurring during the year or time of harvest.

Table 1. Mandatory Spotted Owl Restriction Distances

Activity	Zone of Restricted Operation
Heavy Equipment (including nonblasting quarry operations)	105 feet
Chain saws	195 feet
Impact pile driver, jackhammer, rock drill	195 feet
Small helicopter or plane	360 feet*
Type 1 or Type 2 helicopter	0.25 miles*
Blasting; 2 pounds of explosive or less	360 feet
Blasting; more than 2 pounds of explosives	1 mile
* If less than 1,500 feet above ground level.	

- (13) L-18a No operations shall be conducted on roads 37-2E-15.0, 37-3E-18.5, 37-3E-18.7 and units 17-4, 13-1a, 14-1, 17-1a, 17-1c, 17-1d, 17-2a, 17-2b, 17-2c, 18-3, 18-4a, 18-4b, between November 15th of one calendar year and April 1st of the following calendar year, both days inclusive, which are located within the deer and elk winter range management area.
- (14) L-18a No operations shall be conducted within 1.0 mile radius of active gray wolf dens and rendezvous sites between April 15th through August 31st of the same

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calendar year, both days inclusive. Prior to the spring, communication between U.S. Fish and Wildlife Service, Oregon Department of Fish and Wildlife, and the BLM will occur to determine if any wolf activity has expanded or moved into the Project Area.

- (15) L-21 The Purchaser shall provide sufficient warning signs to control traffic on all major haul roads and within the contract area wherever harvest operations are occurring. All haul roads intersecting with State and/or County roads shall be signed informing the general public of operations. Conduct the work as to assure the safety of the general public along roadways, and to assure the protection of persons and properties. Signs shall meet Manual on Uniform Traffic Control Devices (MUTCD) standards for traffic signs. Appropriate traffic control signs and devices shall be erected prior to use of the roadway or area and promptly removed when no longer required.
- (16) L-23 Prior to the commencement of operations, the Purchaser shall obtain from the Contracting Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract, which shall include measures needed to ensure protection of the environment and watershed. Any requested changes to the terms and conditions of this contract (such as a change in logging systems) must be authorized by the Contracting Officer through bilateral modification of the contract. A prework conference between the Purchasers authorized representative and the Authorized Officer must be held at a location designated by the Contracting Officer before the logging plan will be approved.
- (17) L-25 Before cutting and removing any trees necessary to facilitate logging in units 18-4a, 18-4b, 18-4c, 19-1a, 30-2a, 30-2b, 30-2c, 30-3, 31-2a, 31-2b, 13-1a, 14-1, 23-2a, 23-2b, 23-2c, 23-2d, 25-1a, 25-4, 25-5, 35-1a, 35-1b, 11-1a, and 22-1 as shown on Exhibit A, the Purchaser shall identify the location of the skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and hazard 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 and intermediate support 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 contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees; however,

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unless otherwise approved in writing by the Authorized Officer, the width of each skid road shall be limited to 12 feet and cable yarding roads shall be limited to 15 feet.

- (b) The Purchaser may immediately cut and remove additional timber to clear skid roads and cable yarding roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear 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.(d). 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

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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 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.
- (18) L-26 In all units shown on Exhibit A, all trees designated for cutting shall be felled away from unit boundaries, property lines, fences, cattle guards, watering troughs, streams, draw bottoms, irrigation ditches, seed trees, and reserve area. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (19) L-33 In accordance with the requirements of Section 8 of 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 units 17-1a, 17-1b, 17-1c, 17-1d, 17-2a, 17-2b, 17-2c, 18-3, 19-1b, 19-1c, 19-4, 20-4, 29-2, 31-3, 31-4, 31-5, 31-7, 13-1b, 13-1c, 13-2, 17-3, 17-4, 17-5, 17-6, 22-4, 23-3b 23-4, 23-9, 23-10a, 23-10b, 25-3a, 25-3b, 25-3c, 25-3d, 25-6, 35-5a, 35-5b, 35-7, 1-1, 1-2, 1-3, 1-5, 1-6, 5-2a, 5-3, 6-1, 20-1, 21-1, 22-2, 27-1, and 27-3 which is obstructing needed cable yarding roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees, obstructing ground based equipment skid roads, is severely damaged from the normal conduct of felling or yarding operations, or 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:

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- a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Section 40 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 yellow flagging so that that stump can be visually located from a distance of not less than 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 Section 3(b) or 3(d) of the contract as required by Section 8 of the contract.
- d) No timber may be cut or removed under the terms of this provision if all contract payments required by Section 3(b) or 3(d) of the contract have been made.
- e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
 - (1) failed to properly mark any stump with the "X" cut.
 - (2) failed to identify the location of any stump.
 - (3) cut any tree that was reserved for tree improvement and/or wildlife habitat.
 - (4) cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
 - (5) cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.
 - (6) failed to properly segregate any pulled over tree that was yarded to the landing.
 - (7) cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
 - (8) cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
 - (9) cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.

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

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

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

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

The purchaser shall be liable for damages in accordance with Section 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

(C) Road Construction - Maintenance - Use

1. RC-1a The Purchaser shall construct, improve and/or renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
2. RC-1b Prior to removal of any timber, except right-of-way timber, the Purchaser shall complete all construction, improvement, or renovation of structures and roads as specified in Exhibit C.

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3. RC-2 The Purchaser is authorized to use the roads listed below and shown on Exhibit C-2 which are under the jurisdiction of the Bureau of Land Management, AP Timber LLC, Murphy Timber Investments, Plum Creek Timberlands LP, and or Hancock Timberland X Inc., 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 obligations described in Section 41(C)(6). Any road listed below and requiring improvement or renovation in Exhibit C of this contract shall be maintained by the Purchaser until receiving written acceptance of the improvement or renovation from the Authorized Officer. The Purchaser shall pay current Bureau of Land Management maintenance fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
37-2E-7.02 A1-B	2.35	BLM	Aggregate
37-2E-13.00 A2-C	1.54	Private	Aggregate
37-2E-13.00 D1-D2	1.52	Private	Aggregate
37-2E-13.00 E	0.61	BLM	Aggregate
37-2E-13.00 F1	0.40	Private	Aggregate
37-2E-13.00 G	0.05	Private	Aggregate
37-2E-13.00 H	0.58	BLM	Aggregate
37-2E-23.00	1.34	BLM	Aggregate
37-2E-23.02	0.72	BLM	Aggregate
37-2E-23.04	0.49	BLM	Aggregate
37-2E-24.01	2.74	BLM	Aggregate
37-2E-24.04 A	0.12	Private	Aggregate
37-2E-24.05	0.95	BLM	Aggregate
37-3E-18.01	2.13	BLM	Aggregate
37-3E-18.03	0.60	BLM	Aggregate
37-3E-18.06	0.26	BLM	Aggregate
37-3E-18.07	0.17	BLM	Aggregate
37-3E-19.00	0.60	BLM	Aggregate
37-3E-19.01	2.09	BLM	Aggregate
37-3E-29.01 A	0.43	BLM	Aggregate
37-3E-29.01 B	0.28	Private	Aggregate
37-3E-30.00	0.36	BLM	Aggregate
37-3E-30.06	0.56	BLM	Aggregate
37-3E-31.01	1.28	BLM	Aggregate
37-3E-31.03	0.60	BLM	Aggregate
37-3E-32.00 A1	0.29	BLM	Aggregate

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Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
37-3E-32.00 B	0.55	BLM	Aggregate
37-3E-32.02	0.25	BLM	Aggregate
38-2E-3.01	1.02	BLM	Aggregate
38-2E-3.08 A	0.11	BLM	Aggregate
38-2E-3.08 B	0.20	Private	Aggregate
38-2E-3.08 C	0.71	BLM	Aggregate
38-2E-11.00	3.58	BLM	Aggregate
38-2E-27.00 A1-C2	5.73	BLM	Bituminous
38-3E-5.00	1.01	BLM	Aggregate
38-3E-9.00	1.29	BLM	Aggregate
38-3E-11.00	0.88	BLM	Aggregate
38-3E-11.06	0.59	BLM	Aggregate
38-3E-17.00	10.19	BLM	Bituminous
38-3E-19.00 A	0.89	BLM	Bituminous
38-3E-19.00 D	1.60	BLM	Aggregate
38-3E-21.00	0.67	BLM	Aggregate
38-3E-21.02	0.60	BLM	Aggregate
38-3E-29.00	0.68	BLM	Aggregate
Total	53.59		

4. RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit C-2 which are under the jurisdiction of the Bureau of Land Management, Willow Creek Aggregate Inc., Ronald Swisher, and or Hancock Timberland X Inc., 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 comply with the conditions set forth in Section 41(C)(10) and pay the required rockwear obligation described in Section 41(C)(9). The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

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Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
37-2-15.00 E	0.09	BLM	Natural
37-2-15.00 F	0.50	Private	Natural
37-2E-24.04 B	0.65	Private	Natural
37-2E-24.04 C	0.29	BLM	Natural
37-2E-25.03	0.23	BLM	Natural
37-2E-25.05	0.46	BLM	Natural
37-2E-36.00	0.60	BLM	Aggregate
37-3E-18.04A	0.58	BLM	Aggregate
37-3E-18.04B	0.02	Private	Natural
37-3E-18.05	0.10	BLM	Natural
37-3E-21.01	0.64	Private	Natural
37-3E-21.02	0.44	Private	Natural
37-3E-30.04	0.50	BLM	Aggregate
37-3E-32.05	0.93	BLM	Natural
38-2E-1.00	0.20	BLM	Natural
38-2E-1.04	0.32	BLM	Natural
38-2E-1.05	0.30	BLM	Natural
38-3E-11.07	0.14	BLM	Natural
38-3E-11.08	0.05	BLM	Aggregate
38-3E-20.00	0.80	BLM	Natural
38-3E-20.01	0.19	BLM	Natural
38-3E-22.00	0.40	BLM	Natural
38-3E-23.01	0.12	BLM	Natural
38-3E-23.03	0.32	BLM	Natural
38-3E-23.04	0.34	BLM	Natural
38-3E-27.00	0.63	BLM	Aggregate
38-3E-27.00	0.84	BLM	Natural
38-3E-27.02	0.35	BLM	Natural
38-3E-27.03	0.60	BLM	Aggregate
T38 R3E Spur 22-2	0.04	BLM	Aggregate
Total	11.67		

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5. RC-2b With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users on road included in Section 41(C)(4) 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. RC-2c The Purchaser shall pay the Government a road maintenance obligation in the amount of Thirty Nine Thousand Four Hundred Eighty Three and 74/100 dollars (\$39,483.74) for the transportation of timber included in the contract price and for the transportation of any mineral material required under the terms of the contract over road or roads listed in Section 41(C)(3).

The above road maintenance amount is for use of 53.59 miles of road or less. Unless the total maintenance amount is paid prior to commencement of operations on the contract area, payments shall be made in installments of not less than Five hundred dollars (\$500.00); payable in the same manner as and together with payments required in Sec. 3 of this contract. The total maintenance amount shall be paid prior to the removal of timber from the contract area.

7. RC-2d The Purchaser shall be authorized to use other roads not included in Section 41(C)(3) and/or Section 41(C)(4) provided, that in the use of such road(s), the Purchaser shall pay the Government current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) used.

For administrative purposes the total maintenance and rockwear obligation due shall be based upon the estimated volume set forth in Exhibit B of this contract and mileage of roads used as determined by the Authorized Officer.

In the event logs are hauled over more than one route, the estimated volume set forth in Exhibit B shall be proportioned on the basis of actual volume removed. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of the timber purchased under this contract, together with an estimate of the volume to be hauled over such roads.

Section 41(C)(6) and 41(C)(9) of this contract shall be amended to include adjustments of fee obligations.

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8. RC-2f The Authorized 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 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 to be transported over road or roads listed in Section 41(C)(4). The Purchaser shall pay the total maintenance amount for said road(s) within thirty (30) days following receipt of written notice; provided, however, that if the total amount exceeds five hundred and no/100 dollars (\$500.00), the Purchaser may elect to make payment in installments in the same manner as and together with payments required in Section 3 of this contract.
9. RC-2g The Purchaser shall also pay to the Government a road maintenance obligation for rockwear in the amount of Three Hundred One and 55/100 dollars (\$301.55) for the transportation of timber included in the contract price and for transportation of any mineral material required under terms of the contract over road or roads listed in Section 41(C)(4). The amount of the rockwear shown above shall be paid prior to removal of timber from the contract area.
10. RC-2h The Purchaser shall perform any required road repair and maintenance work on roads used by him, under the terms of Exhibit D, "Road Maintenance Specifications," of this contract, which is attached hereto and made a part hereof.
11. RC-3 In the use of road No. 37-2E-13.00 A2-C, 37-2E-24.04 A-B, and 37-3E-18.04 B the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660I dated October 5, 1962 between the United States of America and Hancock Timberland X Inc. These conditions include: Payment to Hancock Timberland X Inc., a road use obligation of One Thousand Ten and 91/100 dollars (\$1010.91) payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. 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.
12. RC-3 In the use of road No. 37-2E-13.00 D1-D2 the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660J dated October 5, 1962 between the United States of America and AP Timber LLC. These conditions include: Payment to AP Timber LLC, a road use obligation of

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One Hundred Ninety Nine and 61/100 dollars (\$199.61) payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

13. RC-3 In the use of road No. 37-2E-13.00 F1, 37-2E-13.00 G, and 38-2E-3.08 B the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660 dated October 5, 1962 between the United States of America and Murphy Timber Investments. These conditions include: Payment to Murphy Timber Investments, a road use obligation of One Hundred Sixty Two and 32/100 dollars (\$162.32) payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.
14. RC-3 In the use of road No. 37-3E-29.01 B the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000F dated May 26, 2000 between the United States of America and Plum Creek Timberlands LP. These conditions include: Payment to Plum Creek Timberlands LP, a road use obligation of Eight and 37/100 dollars (\$8.37) payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. 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.

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15. RC-3 In the use of road No. 37-3E-21.01 the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-5066 between the United States of America and Willow Creek Aggregate Inc. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. 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.
16. RC-3 In the use of road No. 37-2E-15.00 F the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660 dated October 5, 1962 between the United States of America and Ronald Swisher. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. 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.
17. RC-3 In the use of road No. 37-3E-21.02 the Purchaser shall comply with the conditions of Access Road Easement REM 1202 No. OR 068026 dated May 28, 2015 between the United States and Mark M. and Lymy Beth Toenies, Daniel A. Ryan, and Jim and Jennifer Egan. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504.
18. RC-3a In the use of road Nos. FS 800, 830, and 831, the Purchaser shall comply with the conditions of the Bureau of Land Management and Forest Service Interagency Right-of-Way and Road Use Agreement dated May 20, 1980. These conditions include: Payment to Forest Service, a road use obligation of Three Thousand Five Hundred Forty Three and 23/100 dollars (\$3543.23) payable at the time indicated in the license agreement. This document will be available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road(s), the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement.

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19. RC-3d 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, the 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.
20. RC-5 In the construction of Temp Road T37 R3E Temp 20-1 and Landing, as shown on Exhibit C, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement No. M-5066 between the United States of America and Willow Creek Aggregate Inc. This document is available for inspection at the Bureau of Land Management, Medford District Office, 3040 Biddle Road, Medford, Oregon 97504.
21. RC-8 The Purchaser shall be required to secure written approval to use vehicles or haul equipment over Government owned or controlled roads and/or structures when that vehicle or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

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 (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

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- (1) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall:
- (a) Construct, use, camouflage, and decommission temporary roads during the dry season of the same year of use or they shall be barricaded and winterized before the wet season and decommissioned following completion of activities.
 - (b) Temporary roads would be fully decommissioned by decompacting roads to a depth of twelve (12) to eighteen (18) inches, placing logs, slash, boulders, earthen berms, and other material at the entrance and throughout its length sufficient to preclude vehicle use as shown on Exhibit C-20. Water bars would be constructed as determined by the authorized officer, and seed and mulch per Section 42(D)(4) of this contract. Refer to Exhibit A map and Exhibit C-20 instructions.
 - (c) Abate dust created from hauling in accordance with Exhibit D.
 - (d) Construct earth and log motor vehicle barricades as shown on Exhibit C-11 on all major skid roads which intersect any haul road. Lop and scatter slash on skid roads in front of and behind barrier and along the length as needed (determined by the Authorized Officer) to camouflage and prevent OHV use.
 - (e) Fill slopes on all new roads and landings would be mulched and seeded with native or approved seed per Section 42(D)(4), except where rock occurs. Slash shall be windrowed when available at the base of newly constructed fill slopes to catch sediment.
 - (f) All helicopter landings and landings located along temporary roads or within Riparian Reserves would be treated as follows to reduce erosion and compacted area. Unless the landing is rocked or located within a quarry, the surface would be treated by lifting and fracturing the soil to a depth of 12-18 inches, or as determined by the Authorized Officer. Slash, boulders and other debris shall be placed as available to provide ground cover and discourage mechanized use. Blockage at the entrance would consist of placing logs, slash, boulders, berms, and other material.
 - (g) All pre-existing features designed to limit mechanized/vehicle access such as previously decommissioned roads, earthen berms, logs, boulders, and other utilized materials shall be returned to pre-operational condition following harvest operations, as directed by the Authorized Officer.
 - (h) Equipment refueling shall be conducted within a confined area outside Riparian Reserves. Equipment containing toxic fluids would not be stored in or near (within 300 feet) a stream channel at any time.

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (i) Road 39-3E-19.0 from the intersection of 38-3E-33.6 and Dead Indian Memorial Highway shall not be snowplowed to provide for Nordic trail use.
 - (j) During logging activities, operators shall keep all gates closed and all livestock containment systems functional to keep livestock in authorized areas.
 - (k) Blading and vegetation removal would be avoided unless necessary to remove drainage impediments when maintaining inboard ditches. Sediment control measures would be evaluated and implemented if necessary, where ditch line blading is required within 200 feet of streams.
 - (l) Waste stockpile and borrow sites would not be located within Riparian Reserves or areas of unstable soil.
- (2) E-1 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, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (3) E-1 In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures shall be implemented by the purchaser:
- (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging, construction, rock crushing, and transportation equipment prior to entry on BLM lands.
 - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.
 - (c) Only logging and construction equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of logging and construction equipment as described above shall be treated the same as the initial move-in.
 - (d) Prior to initial move-in of any logging or construction equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (e) Logging and construction equipment would be visually inspected by the Authorized officer to verify that the equipment has been reasonably cleaned.
- (4) E-1 Scarify and contour landings to provide for adequate drainage. Bare soil due to landing construction/renovation would be protected and stabilized prior to fall rains to reduce soil erosion and sediment potential. Straw mulch and seed exposed earth on temporary logging spurs and tractor landings with certified weed free straw and seed mixture as directed and approved by the Authorized Officer. Selected landings may be left "as is" where natural rock occurs or where vegetation/topography prevents movement of sediment, as determined by the Authorized Officer. The seed mix and straw shall be provided by the purchaser from an approved commercial source, or may be provided by the BLM if the purchaser is unable to locate and buy the certified seed and straw. The purchaser shall reimburse the government for the cost of seed and straw if provided by the government.

The Purchaser shall furnish and apply to acres designated for treatment as directed by the Authorized Officer, a mixture of grass seed and mulch material at the following rate of application:

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

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

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

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

The Purchaser shall mix grass seed in the following proportions:

Percent of

SOUTH FORK LITTLE BUTTE TIMBER SALE

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

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

- (5) E-2 The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on section C-11, which is attached hereto and made a part hereof.
- (6) E-4 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, 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;

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (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

SOUTH FORK LITTLE BUTTE TIMBER SALE

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.

In the event that operating time is lost as a result of the incorporation of additional contract requirements, or delays due to Endangered Species Act consultation with the U.S. Fish and Wildlife Service or U.S. National Marine Fisheries Service, or court-ordered injunctions, the Purchaser agrees that an extension of time, without reappraisal, will constitute a full and complete remedy for any claim that delays due to the suspension hindered performance of the contract or resulted in damages of any kind to the Purchaser.

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

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

SOUTH FORK LITTLE BUTTE TIMBER SALE

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.

- (7) E-5 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Authorized Officer that a spotted owl has been located in the sale area. Discontinued operations may be resumed upon receipt of written instructions and authorizations by the Authorized Officer.
- (8) E-6 The Purchaser shall notify the Authorized Officer in writing by February 1 of each calendar year in which operations are expected to take place within units 23-2a, 23-2c, 13-2, 19-1b (East Portion), and 19-1c between March 1 and September 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting owls may not be allowed during this time period.

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

(E) Miscellaneous

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by Eight thousand three hundred seventy seven 50/100 dollars (\$8,377.50). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of Eight thousand three hundred seventy seven 50/100 dollars (\$8,377.50) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.
 - (2) M-5 The Purchaser shall, without expense to the government, be responsible for obtaining any necessary licenses and permits and for complying with any and all Federal, State, County and municipal laws, codes, regulations, and administrative rules applicable to the performance of this contract. The Purchaser shall also be responsible for all damages to any persons or property that arise out of any operations under this contract and result from any breach of contract or wrongful or negligent act or omission of the Purchaser, its contractors, subcontractors, or employees of any of them.
- (F) Fire Prevention and Control
- (1) F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (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 Fire fighting 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 fire fighting 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 ($\frac{3}{4}$) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

- (2) F-2b A round pointed size "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.

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (4) F-2d 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) F-2g Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
- (6) 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.

(G) Slash Disposal and Site Preparation

- (1) SD-1 Fire Hazard Reduction. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measure(s) required by this contract:
 - (a) SD-1c HAND PILING Hand pile all slash in units in accordance with the following specifications:

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.

SOUTH FORK LITTLE BUTTE TIMBER SALE

Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.

Pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds two (2) feet in length. A six (6) foot by six (6) foot sheet of six (6) mil. black plastic or equivalent material shall be placed in each pile in a manner such that approximately one-third (a) 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 (½) 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 five (5) feet and no greater than eight (8) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located in any stream channel; on down logs or stumps, within twenty-five (25) feet of any other pile, unit boundary or the trunk of the nearest living tree. No portion of the pile will be under the crown of any living tree.

Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:

- (1) Piling shall be completed in each unit or portion thereof, within four (4) weeks after completion of yarding that unit, or portion thereof.
- (b) SD-1i LANDING PILES Pile all slash located within one hundred (100) feet on each side of log landing. Slash shall be piled by hand or machine. Finished piles shall be tight and free of earth.
 - (1) A ten (10) foot by ten (10) foot cover of six (6) mil. black plastic or equivalent material shall cap each landing pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Maximum pile size shall be twenty (20) feet in diameter by fifteen (15) feet in height.

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (2) SD-5 Perform logging residue reduction and site preparation work on approximately six hundred forty two (642) acres of harvest area located in harvest units 17-1b, 18-4a, 18-4b, 18-4c, 19-1a, 19-1b, 19-1c, 19-4, 29-2, 30-2a, 30-2b, 30-2c, 30-3, 31-2a, 31-2b, 31-3, 31-4, 31-5, 13-1a, 13-2, 23-2a, 23-2b, 23-2c, 23-2d, 23-4, 23-10a, 25-1a, 25-3a, 25-3b, 25-4, 35-1a, 35-1b, 1-3, 1-6, 5-2a, 5-3, 6-1, 11-1a, 20-1, 21-1, 22-1, 22-2, 27-1, and 27-3 as shown on Exhibit A.

- (a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Handpile and Cover	Cost/Acre
Handpile and Cover	\$514.76

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

Handpile and Cover Appraised Treatment	Acres	Cost/Acre	Total Cost per Treatment
Handpile and Cover	642	\$514.76	\$330,475.92
Total Appraised Cost	642		\$330,475.92

- (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)(1)(a) differs from \$330,475.92 as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 41(G)(1)(a). Actual acres treated may vary considerably from the estimated acres shown in Section 41(G)(1)(b). The area to be treated may vary from zero acres to all harvest units shown on the Exhibit A.

SOUTH FORK LITTLE BUTTE TIMBER SALE

- (d) There is significant uncertainty as to the appropriate slash disposal. The above slash disposal requirements have been appraised. This provision establishes a "menu" of available treatments (based on the above pre-sale determination) for the selection by the Authorized Officer upon post-harvest determination of need.

(H) Optional Contributions

- (1) C-1 The Purchaser shall furnish the assistance as required in Exhibit C3 Pages 1-3 for road decommissioning, camouflage, and earth/log barricade of roads 38-2E-1.01, T37R2E Spur 25-3, T37R3E Spur 30-3, T38R3E Spur 21-1, and T38R3E Spur 22-1. The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of Three Thousand Two Hundred Sixty and 30/100 dollars (\$3,260.30), and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this contribution upon execution of this contract. The optional contribution must be paid in installments of Five Hundred and 00/100 dollars (\$500.00) together with payments required by Section 3 of the contract.

(I) Equal Opportunity in Employment

Certification of Non-segregated Facilities attached hereto and made a part hereof.

Seasonal Restriction Matrix

South Fork Little Butte
ORM06-TS15-04

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

Sale Unit	Jan			Feb			Mar			Apr			May			June			July			Aug			Sept			Oct			Nov			Dec		
Activity	1	15		1	15		1	15		1	15		1	15		1	15		1	15		1	15		1	15		1	15		1	15		1	15	
17-1a	Felling and Bucking																																			
	Helicopter Operations																																			
	Hauling																																			
17-1b	Felling and Bucking																																			
	Tractor Operations																																			
	Hauling																																			
17-1c	Felling and Bucking																																			
	Helicopter Operations																																			
	Hauling																																			
17-1d	Felling and bucking																																			
	Helicopter Operations																																			
	Hauling																																			
17-2a	Felling and bucking																																			
	Helicopter Operations																																			
	Hauling																																			
17-2b	Felling and bucking																																			
	Helicopter Operations																																			
	Hauling																																			
17-2c	Felling and bucking																																			
	Helicopter Operations																																			
	Hauling																																			
18-3	Felling and bucking																																			
	Helicopter Operations																																			
	Hauling																																			
18-4a	Felling and bucking																																			
	Skyline Operations																																			
*	Hauling																																			
18-4b	Felling and bucking																																			
	Tractor Operations																																			
*	Hauling																																			
18-4c	Felling and bucking																																			
	Skyline Operations																																			
*	Hauling																																			
19-1a	Felling and bucking																																			
	Tractor Operations																																			
*	Hauling																																			

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

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

Seasonal Restriction Matrix

South Fork Little Butte

ORM06-TS15-04

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

Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
19-1b	Felling and bucking																								
	Yarder Operations																								
*	Hauling																								
19-1c	Felling and bucking																								
	Tractor Operations																								
	Hauling																								
19-4	Felling and bucking																								
	Tractor Operations																								
	Hauling																								
20-4	Felling and bucking																								
	Tractor Operations																								
	Hauling																								
29-2	Felling and bucking																								
	Tractor Operations																								
	Hauling																								
30-3	Felling and bucking																								
	Tractor Operations																								
	Hauling																								
30-2b	Felling and bucking																								
	Yarder Operations																								
*	Hauling																								
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31-2a	Felling and bucking																								
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Seasonal Restriction Matrix

South Fork Little Butte
ORM06-TS15-04

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

Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Felling and bucking																								
31-3	Tractor Operations																								
	Hauling																								
	Felling and Bucking																								
31-4	Tractor Operations																								
	Hauling																								
*	Felling and bucking																								
31-5	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
31-7	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
13-1a	Cable Operations																								
	Hauling																								
	Felling and bucking																								
13-1b	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
13-1c	Tractor Operations																								
	Hauling																								
*	Felling and bucking																								
13-2	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
14-1	Helicopter Operations																								
	Hauling																								

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

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

Seasonal Restriction Matrix

South Fork Little Butte

ORM06-TS15-04

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

Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Felling and bucking																								
17-3	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
17-4	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
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	Hauling																								
*	Felling and bucking																								
17-6	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
22-4	Helicopter Operations																								
	Hauling																								

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Seasonal Restriction Matrix

South Fork Little Butte

ORM06-TS15-04

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Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Felling and bucking																								
23-2a	Cable Operations																								
	Hauling																								
	Felling and Bucking																								
23-2b	Cable Operations																								
	Hauling																								
	Felling and bucking																								
23-2c	Tractor Operations																								
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	Felling and bucking																								
23-2d	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
23-3b	Cable Operations																								
	Hauling																								
	Felling and bucking																								
23-4	Cable Operations																								
	Hauling																								
*	Felling and bucking																								
23-9	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
23-10a	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
23-10b	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
25-1a	Cable Operations																								
	Hauling																								
	Felling and bucking																								
25-3a	Tractor Operations																								
	Hauling																								

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Seasonal Restriction Matrix

South Fork Little Butte
ORM06-TS15-04

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Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Felling and bucking																								
25-3b	Skyline Operations																								
	Hauling																								
	Felling and Bucking																								
25-3c	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
25-3d	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
25-4	Skyline Operations																								
	Hauling																								
	Felling and bucking																								
25-5	Skyline Operations																								
	Hauling																								
	Felling and bucking																								
25-6	Cable Operations																								
	Hauling																								
	Felling and bucking																								
30-2a	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
35-1a	Skyline Operations																								
	Hauling																								
	Felling and bucking																								
35-1b	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
35-5a	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
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	Hauling																								

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Seasonal Restriction Matrix

South Fork Little Butte

ORM06-TS15-04

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Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Felling and Bucking																								
35-7	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
1-1	Tractor Operations																								
	Hauling																								
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1-2	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
1-3	Tractor Operations																								
	Hauling																								
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1-5	Helicopter Operations																								
	Hauling																								
	Felling and bucking																								
1-6	Tractor Operations																								
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	Felling and bucking																								
5-2a	Tractor Operations																								
	Hauling																								
*	Felling and bucking																								
5-3	Cable Operations																								
	Hauling																								
	Felling and bucking																								
6-1	Tractor Operations																								
	Hauling																								
	Felling and bucking																								
11-1a	Tractor Operations																								
	Hauling																								
*	Felling and bucking																								
20-1	Tractor Operations																								
	Hauling																								

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

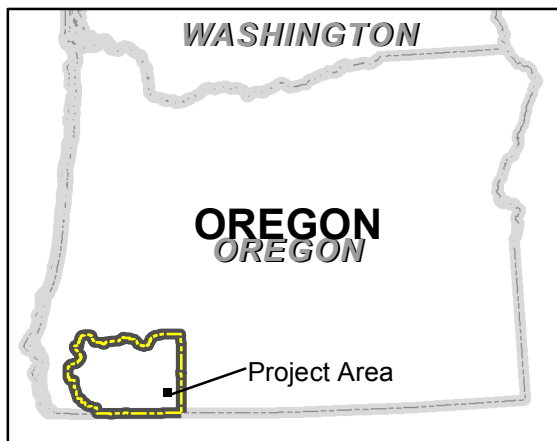
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Seasonal Restriction Matrix

South Fork Little Butte
ORM06-TS15-04



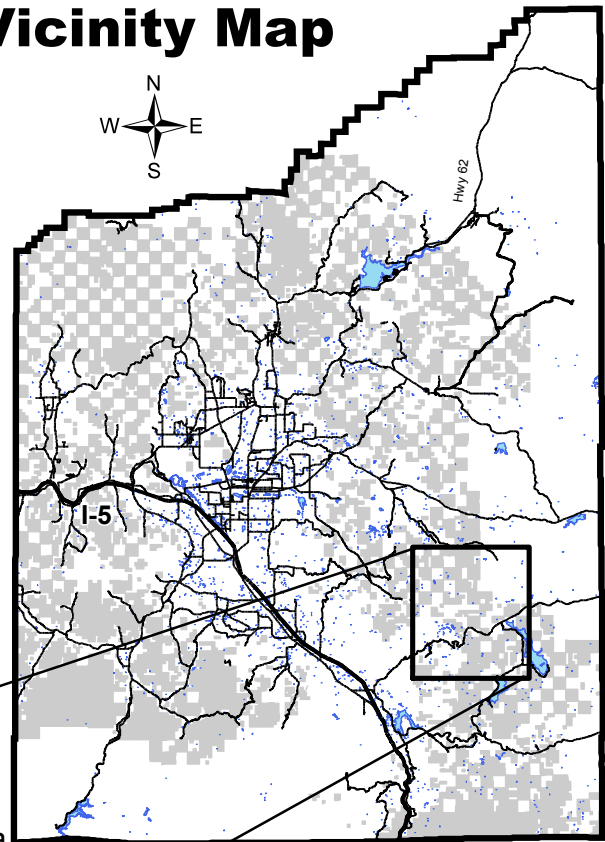
Sale Unit	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
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22-1*	Tractor Operations																								
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South Fork Little Butte Timber Sale Vicinity Map

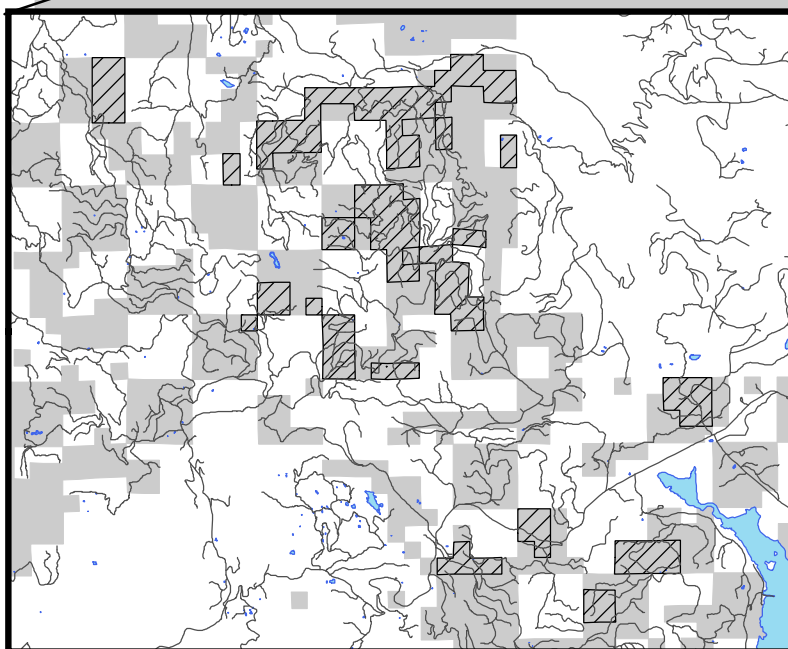


U.S. DEPARTMENT OF THE INTERIOR
Bureau of Land Management
Medford District
September 2015



Timber Sale Contract Area

Jackson County



■ BLM-administered Land
▨ Contract Area

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0 1.75 3.5 7 Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. TS15-16
T. 37S., R.3E., SECS. 17, 18, 19, 20, 29, 30, 31, 32, WILL. MER.
T. 37S., R.2E., SECS. 13, 14, 17, 22, 23, 25, 35, WILL. MER
T. 38S., R.2E., SECS. 1, 3, WILL. MER.
T. 38S., R.3E., SECS. 5, 6, 11, 19, 20, 21, 22, 23, 27, WILL. MER.
SOUTH FORK LITTLE BUTTE TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM06-TS15-16
EXHIBIT A
PAGE 01 OF 25

TRACTOR YARD HARVEST UNITS WHITE MARKED FOR CUTTING		
UNITS 29-2, 30-2C, 30-3, 31-2B, 31-4, 31-5, 31-7, 30-2A, 35-5A, 1-1, 1-2, 1-6, 5-2A, 6-1, 11-1A, 20-1, 21-1, 22-1, AND 27-3.....	376 ACRES	
SKYLINE YARD HARVEST UNITS WHITE MARKED FOR CUTTING		
UNITS 30-2B, 31-2A, 25-1A, AND 25-4.....	50 ACRES	
HELICOPTER YARD HARVEST UNITS WHITE MARKED FOR CUTTING		
UNITS 17-1C, 17-1D, 17-2B, 17-2C, AND 22-4.....	21 ACRES	
CABLE YARD HARVEST UNITS WHITE MARKED FOR CUTTING		
UNIT 35-5B AND 5-3.....	4 ACRES	
TRACTOR YARD HARVEST UNITS ORANGE MARKED FOR RESERVE		
UNITS 17-1B, 18-4B, 19-1A 19-1C, 19-4, 20-4, 31-3, 13-1C, 13-2, 17-3, 17-4, 17-5, 23-2C, 23-2D, 23-10A, 25-3A, 35-1B, 1-3, 22-2, AND 27-1.....	196 ACRES	
SKYLINE YARD HARVEST UNITS ORANGE MARKED FOR RESERVE		
UNITS 18-4A, 18-4C, 19-1B, 13-1A, 23-2A, 23-2B, 23-4, 25-3B, 25-5, AND 35-1A.....	146 ACRES	
HELICOPTER YARD HARVEST UNITS ORANGE MARKED FOR RESERVE		
UNITS 17-1A, 17-2A, 18-3, 13-1B, 14-1, 17-6, 23-9, 23-10B, 25-3C, 25-3D, 35-7, 1-5.....	135 ACRES	
CABLE YARD HARVEST UNITS ORANGE MARKED FOR RESERVE		
UNITS 23-3B, 25-6.....	4 ACRES	
TOTAL.....		932 ACRES
RESERVE AREA.....		4071.95 ACRES
TOTAL CONTRACT AREA.....		5003.95 ACRES

	EXISTING ROAD		FOUND CORNER
	OPERATOR SPUR, TEMPORARY		HELICOPTER LANDING
	CANAL		EXISTING GATE
	FENCES		LOG BARRICADE
	STREAM		GUARD RAIL
	BOUNDARY OF CUTTING AREA		GROUP SELECT
	RESERVE AREA		

DM-R-HE DENSITY MANAGEMENT, RESERVE TREE MARK (ORANGE PAINT), HELICOPTER YARD, UNITS 17-1A, 17-2A, 18-3, 13-1B, 14-1, 17-6, 23-9, 23-10B, 25-3C, 25-3D, AND 35-7.

GS-H-HE GROUP SELECT, HARVEST TREE MARK (WHITE PAINT), HELICOPTER YARD, UNIT 17-1C, 17-1D, 17-2B, AND 17-2C.

DM-R-CR-DR DENSITY MANAGEMENT, RESERVE TREE MARK (WHITE PAINT), TRACTOR LOG, DESIGNATED SKID ROADS, UNITS 17-1B, 18-4B, 19-1A, 19-1C, 19-4, 20-4, 13-1C, 13-2, 17-3, 17-4, 17-5, 23-2C, 23-2D, 23-10A, 25-3A, 35-1B, 1-3, AND 22-2.

DM-R-S DENSITY MANAGEMENT, RESERVE TREE MARK (ORANGE PAINT), SKYLINE YARD UNITS 18-4A, 18-4C, 19-1B, 13-1A, 23-2A, 23-2B, 23-4, 25-3B, 25-5, AND 35-1A.

GS-H-CR-DR GROUP SELECT, HARVEST TREE MARK (WHITE PAINT), TRACTOR LOG, DESIGNATED SKID ROADS, UNIT 29-2 AND 31-4.

DM-H-CR-DR DENSITY MANAGEMENT, HARVEST TREE MARK (WHITE PAINT), TRACTOR YARD, DESIGNATED SKID ROADS UNITS 30-2C, 30-3, 31-2B, 30-2A, 1-1, 6-1, 11-1A, 20-1, 21-1, 22-1, AND 27-3.

RH-R-CR-DR REGENERATION HARVEST, RESERVE TREE MARK (ORANGE PAINT), TRACTOR YARD, DESIGNATED SKID ROADS UNIT 31-3 AND 27-1.

DM-H-S DENSITY MANAGEMENT, HARVEST TREE MARK (WHITE PAINT), SKYLINE YARD, UNITS 30-2B, 31-2A, AND 25-1A.

S-H-CR-DR SALVAGE, HARVEST TREE MARK (WHITE PAINT), TRACTOR YARD, DESIGNATED SKID ROADS, UNITS 31-5, 31-7, 35-5A, 1-2, 1-6, AND 5-2A.

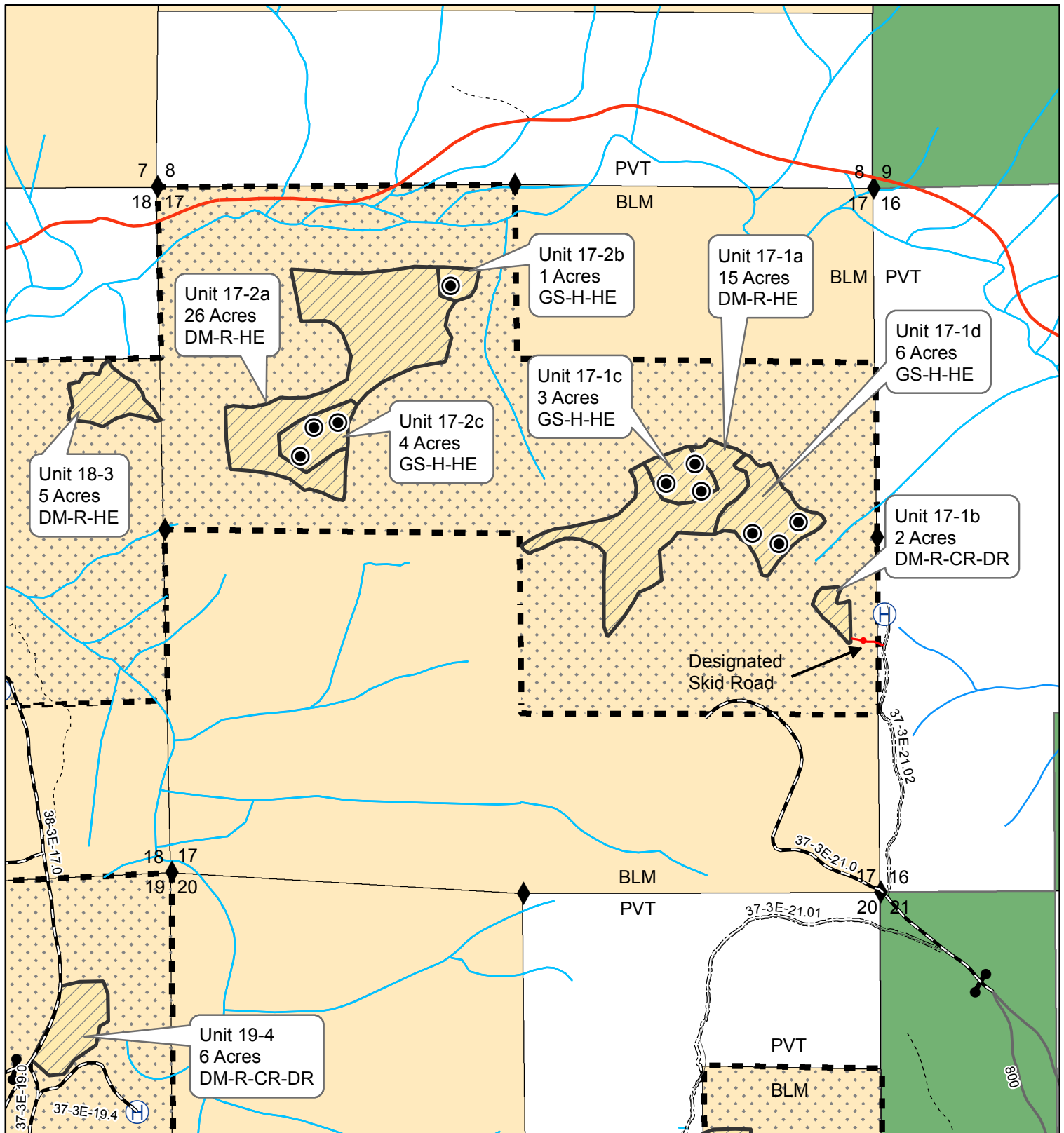
DM-H-HE DENSITY MANAGEMENT, HARVEST TREE MARK (WHITE PAINT), HELICOPTER YARD, UNIT 22-4.

DM-R-C DENSITY MANAGEMENT, RESERVE TREE MARK (ORANGE PAINT), CABLE YARD, UNITS 23-3B AND 25-6.

S-H-C SALVAGE, HARVEST TREE MARK (WHITE PAINT), CABLE YARD, UNIT 35-5B AND 5-3.

RH-R-HE REGENERATION HARVEST, RESERVE TREE MARK (ORANGE PAINT), HELICOPTER YARD, UNIT 1-5.

S-H-S SALVAGE, HARVEST TREE MARK (WHITE PAINT), SKYLINE YARD, UNIT 25-4.

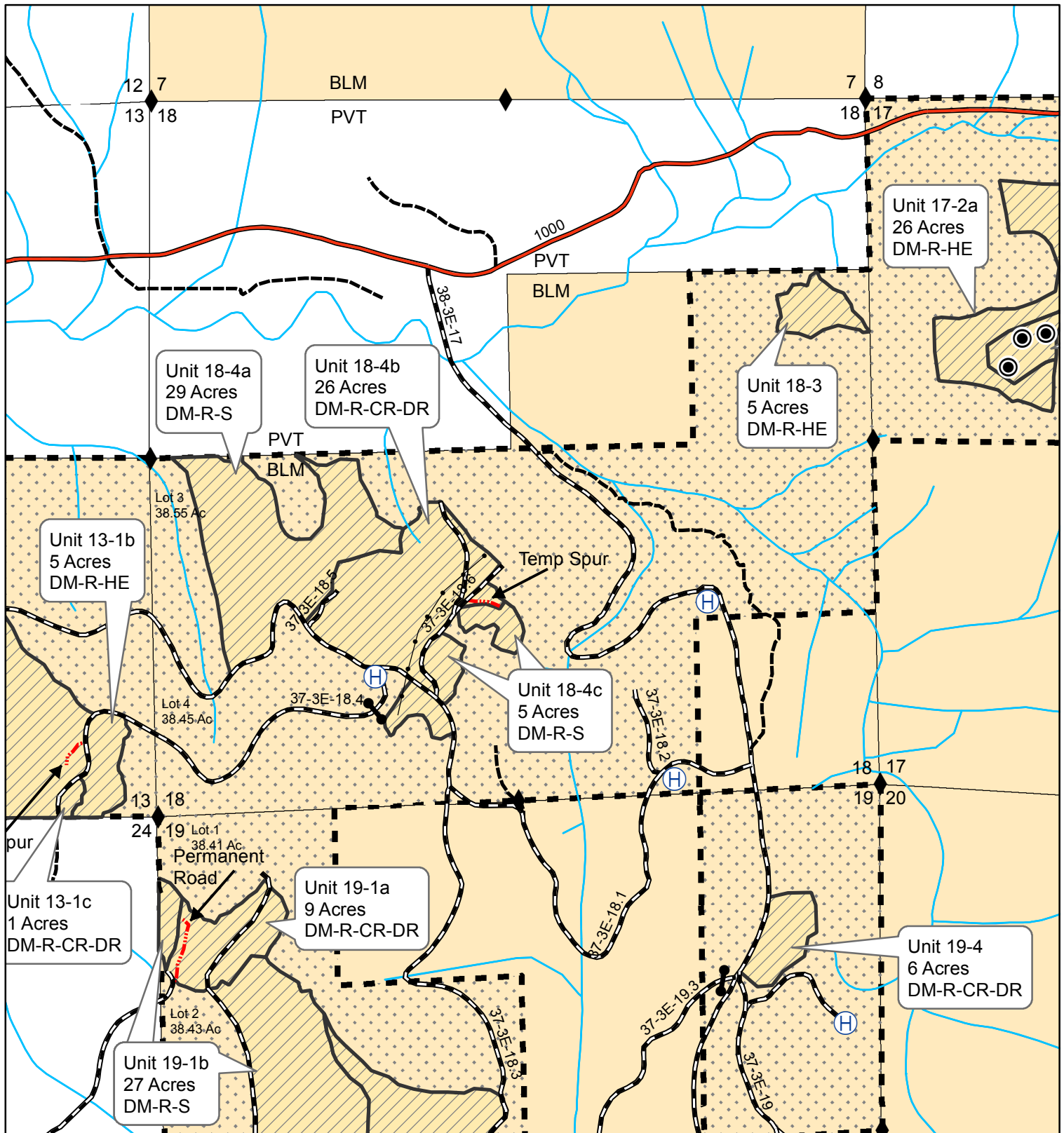


0 500 1,000 2,000 Feet

1 inch = 1,000 feet

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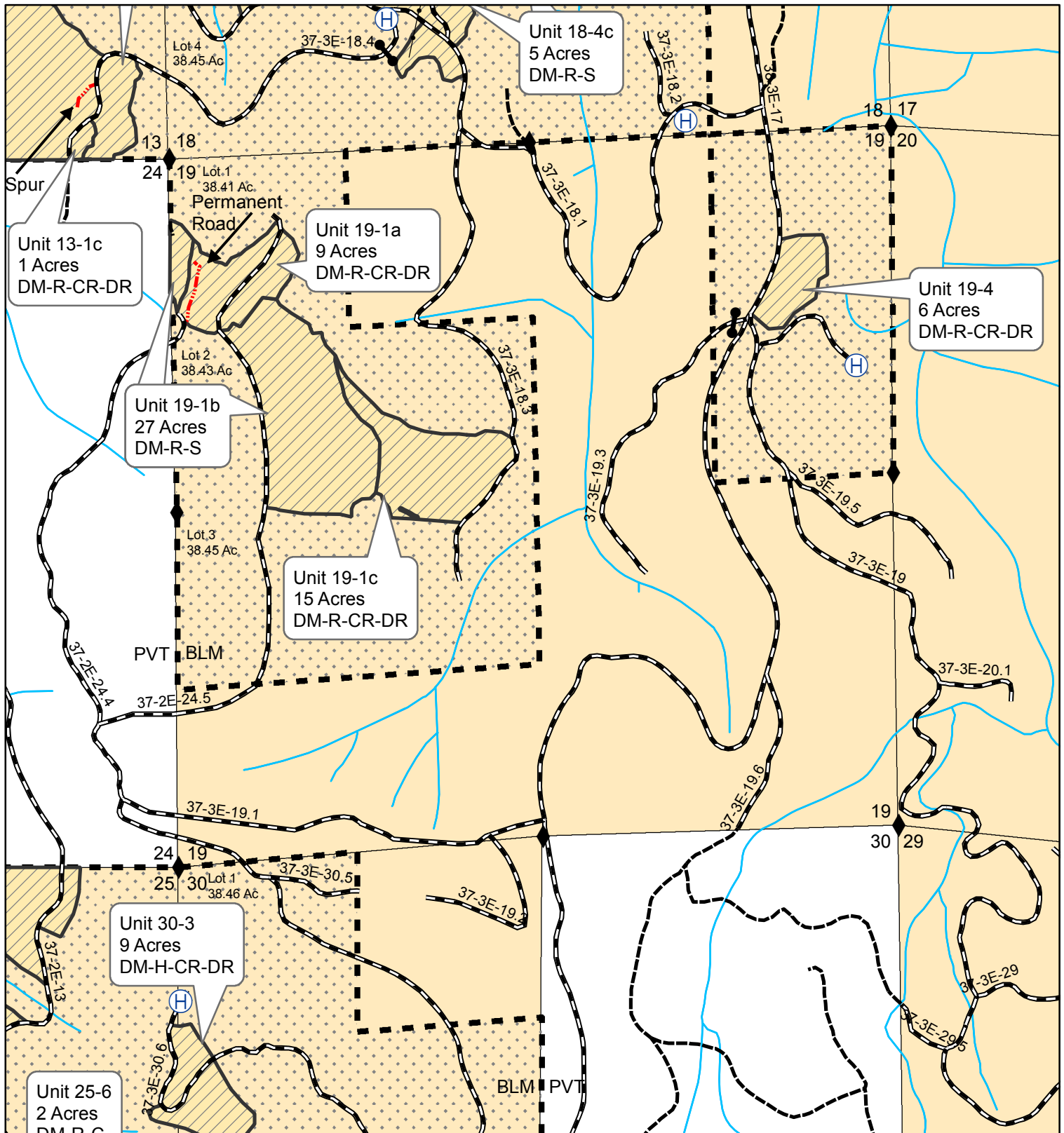


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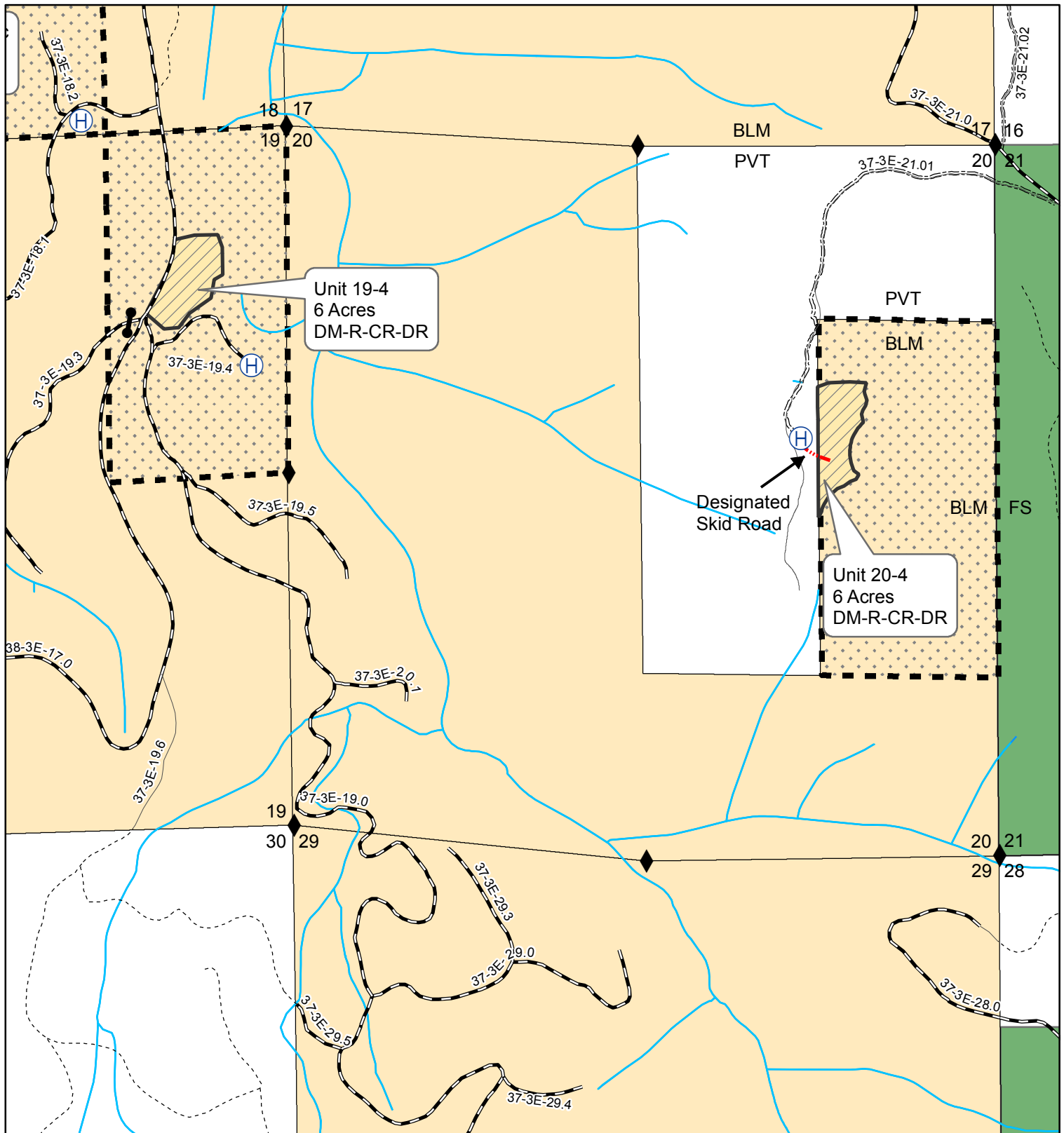


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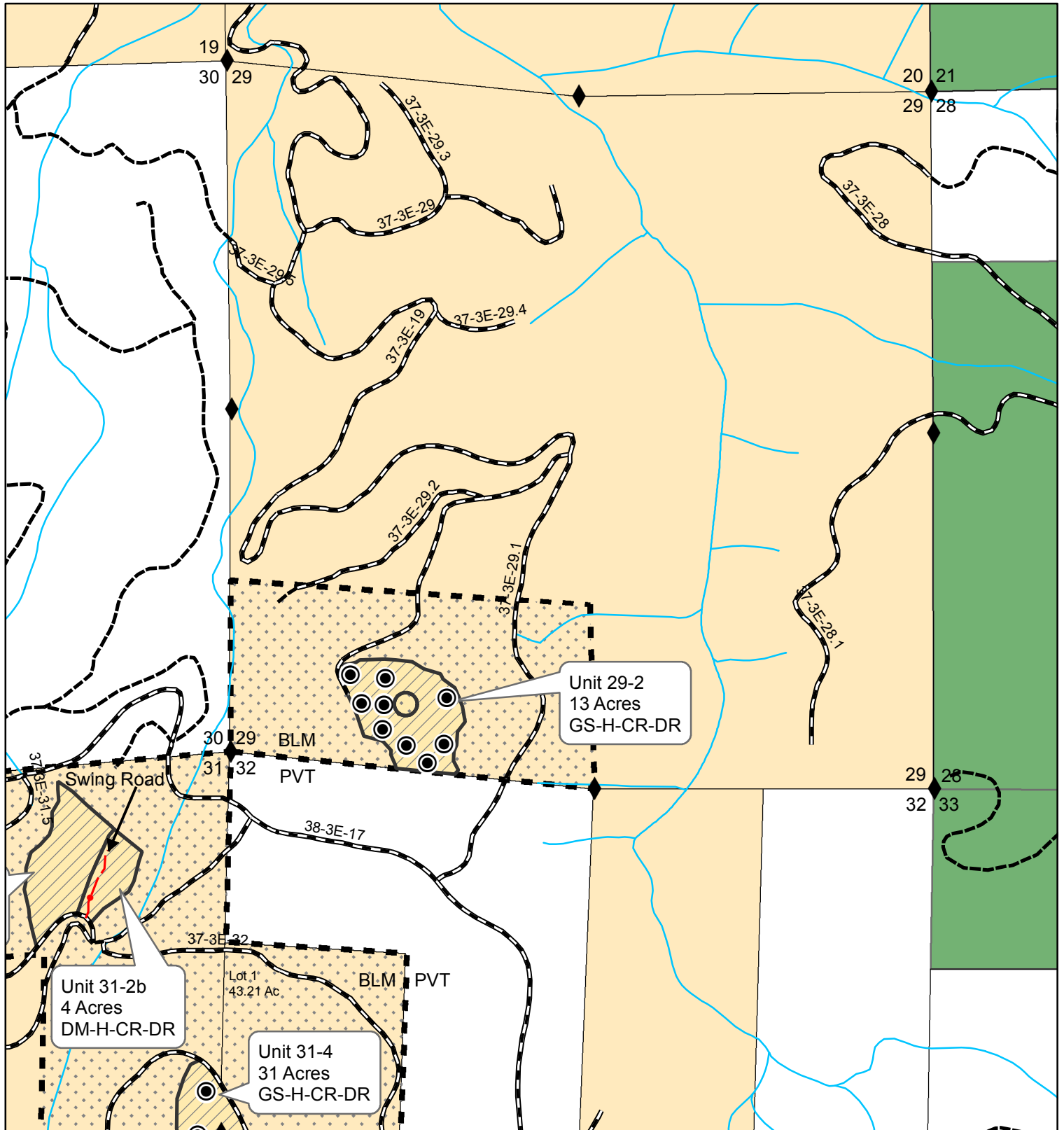


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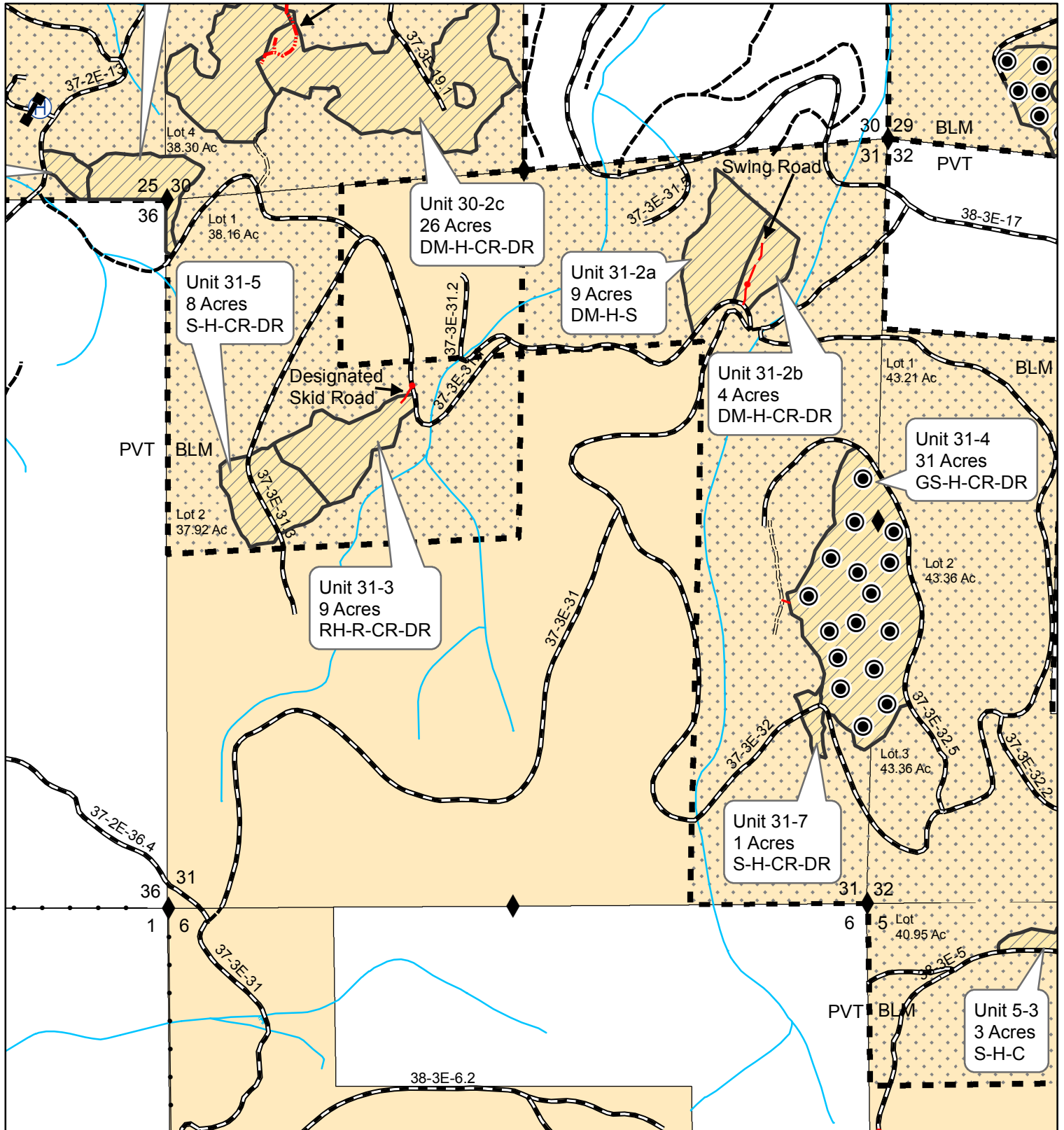




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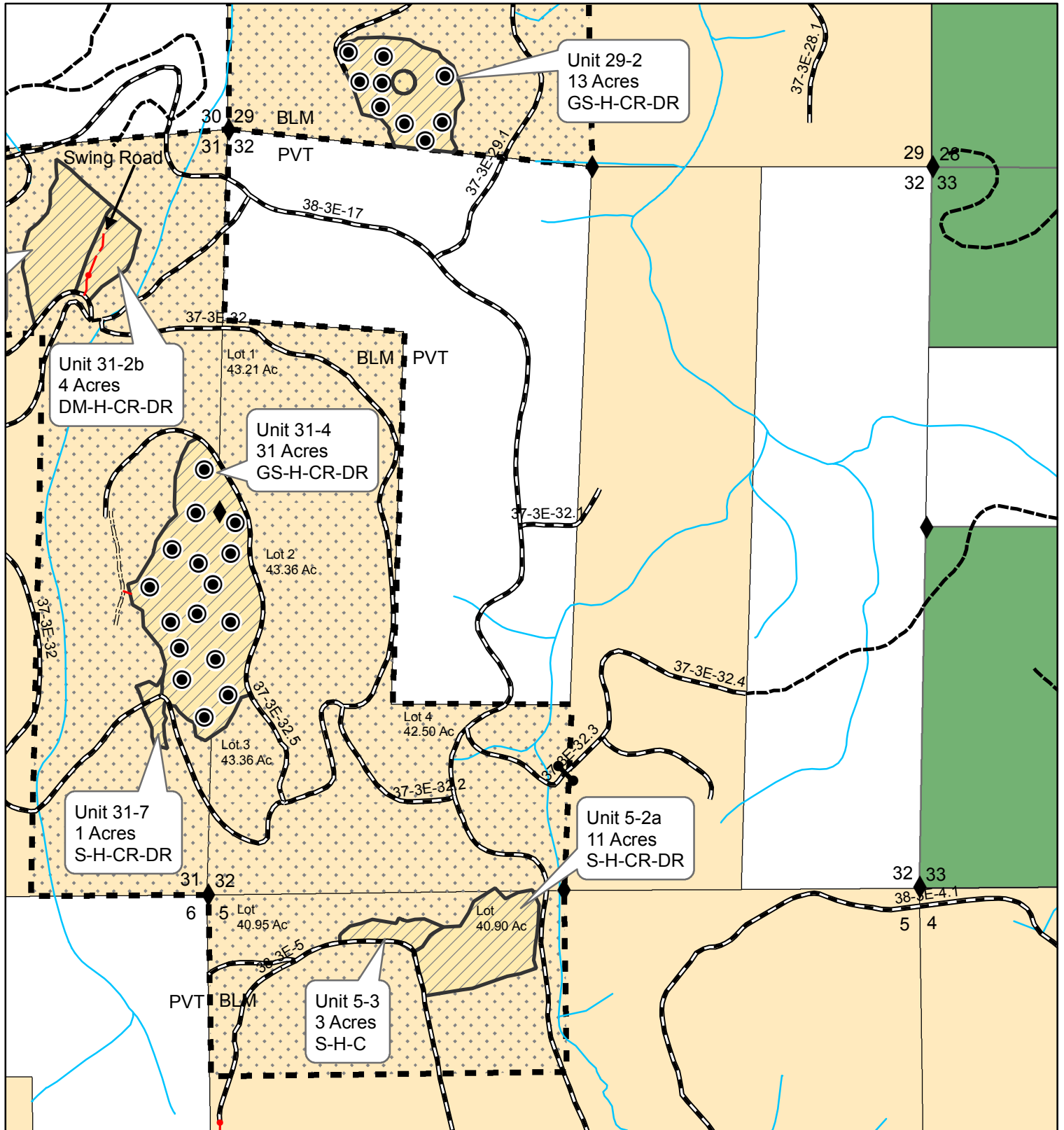


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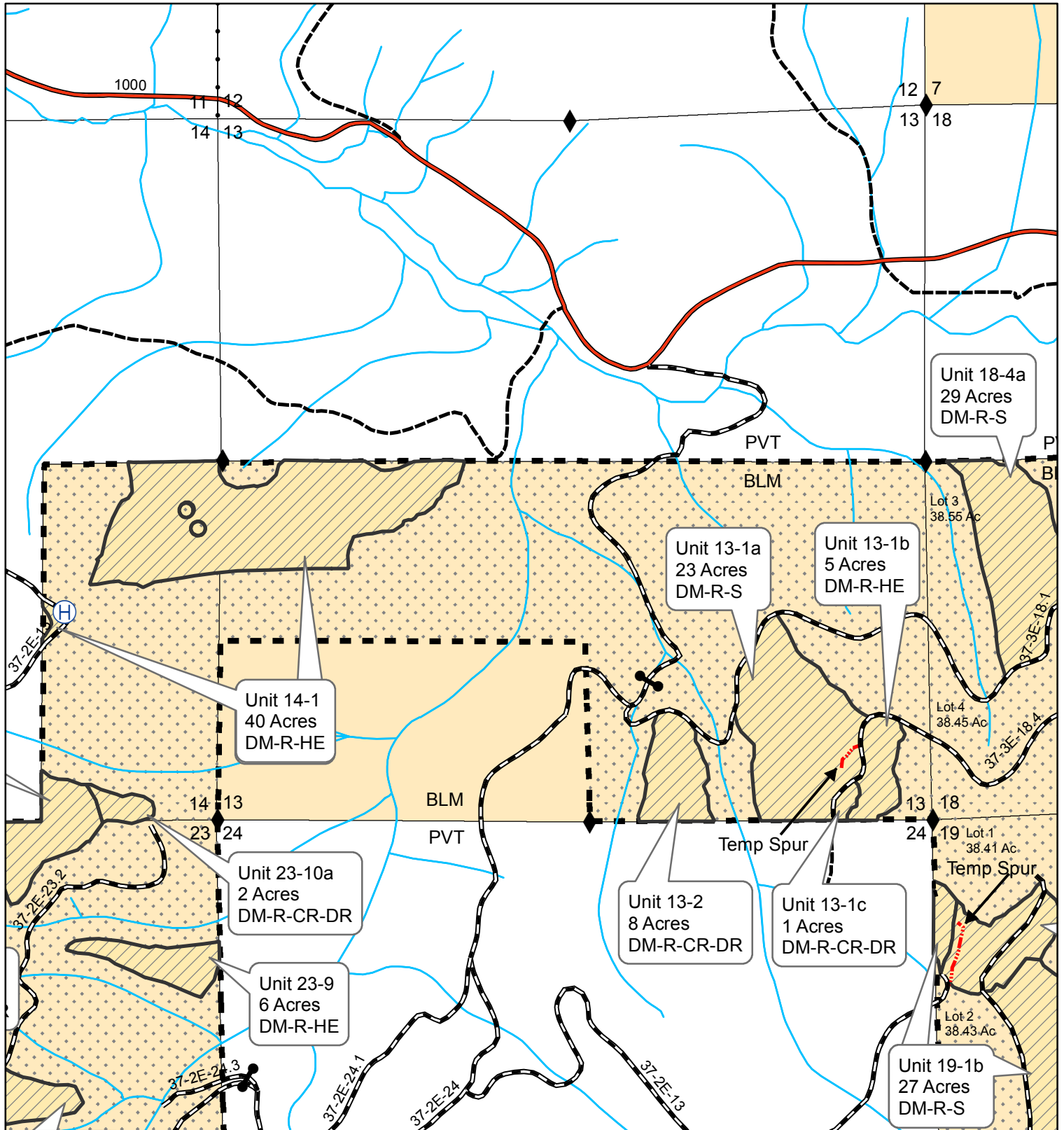


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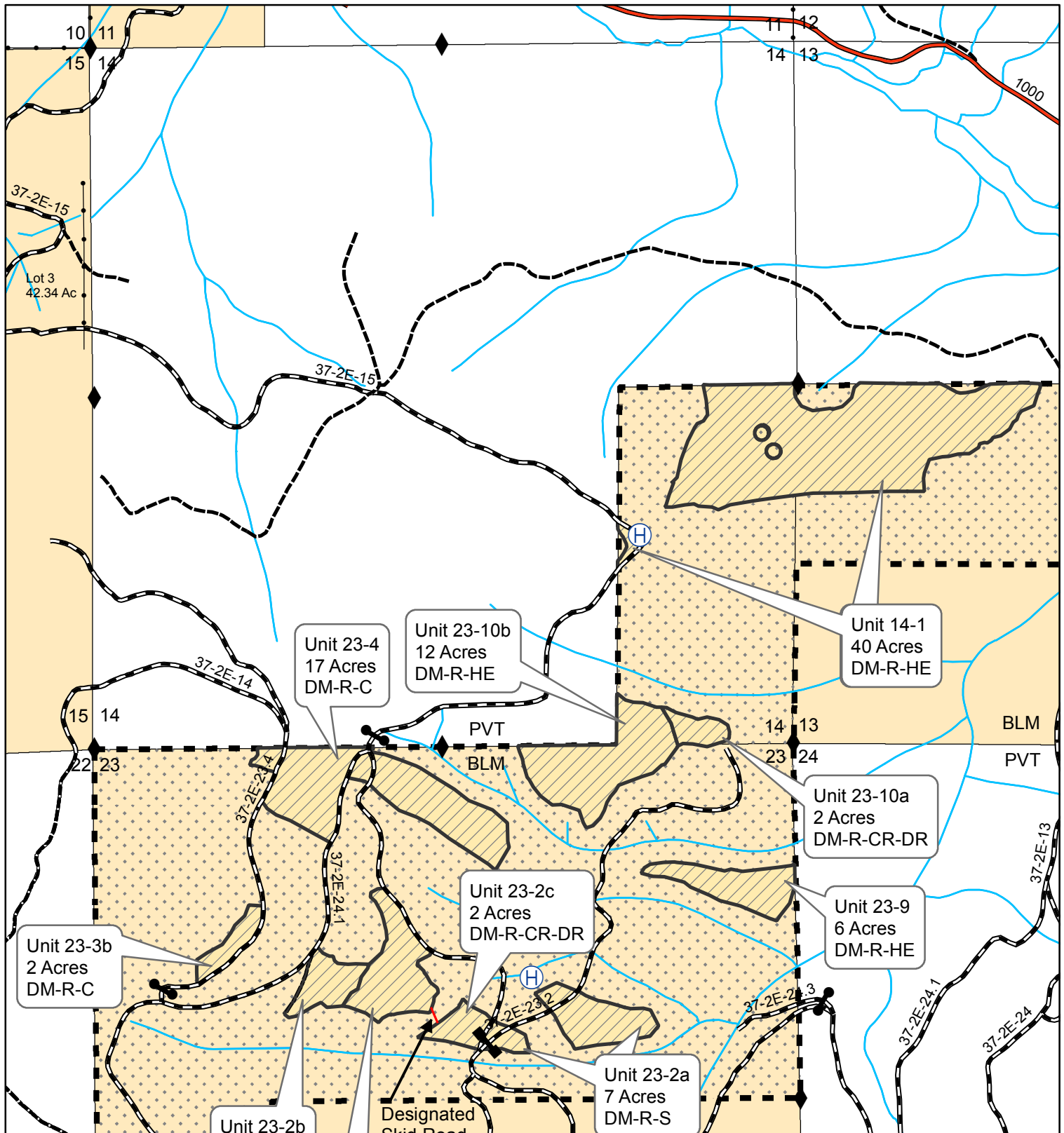
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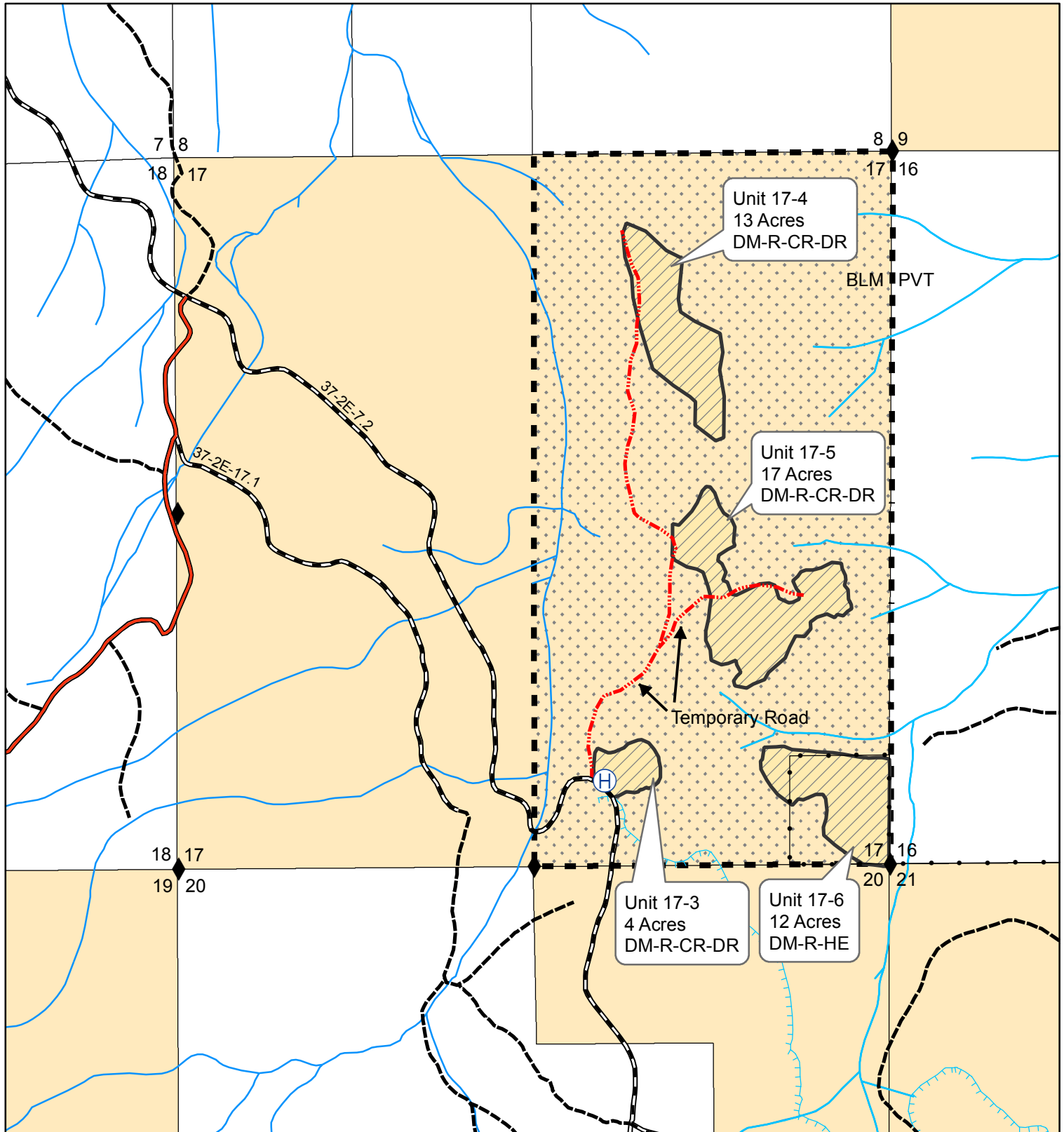


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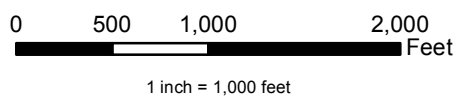
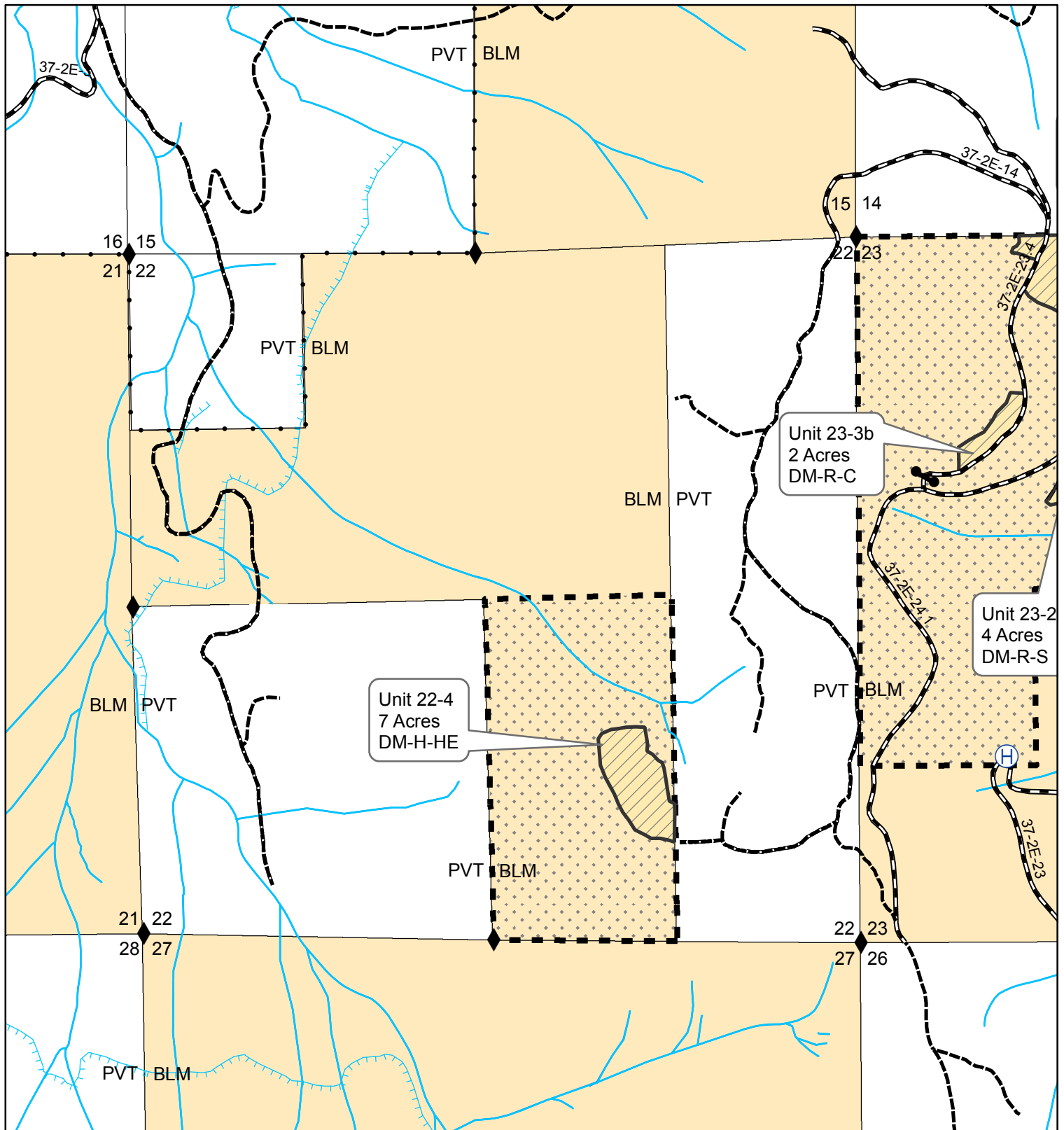


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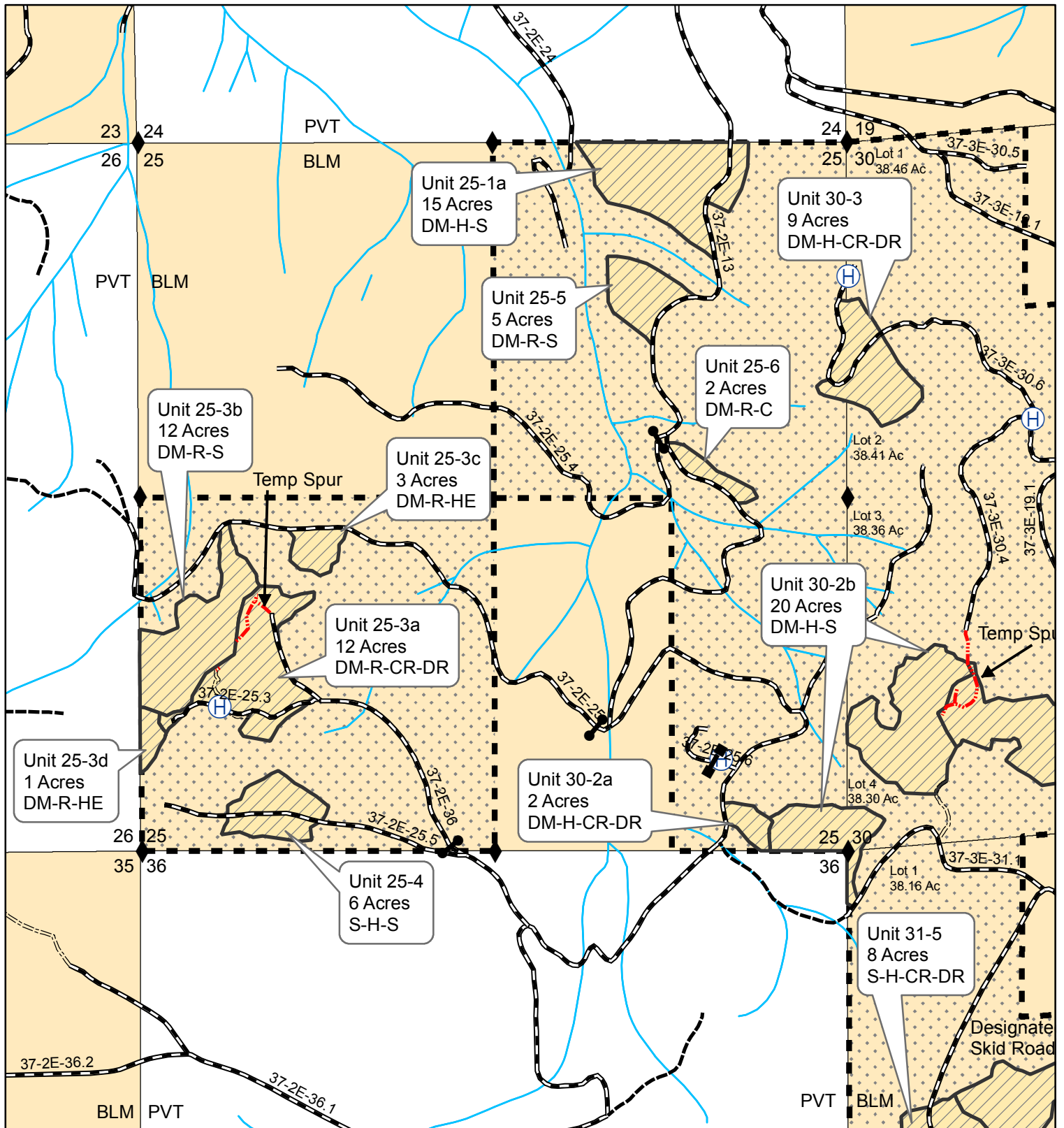




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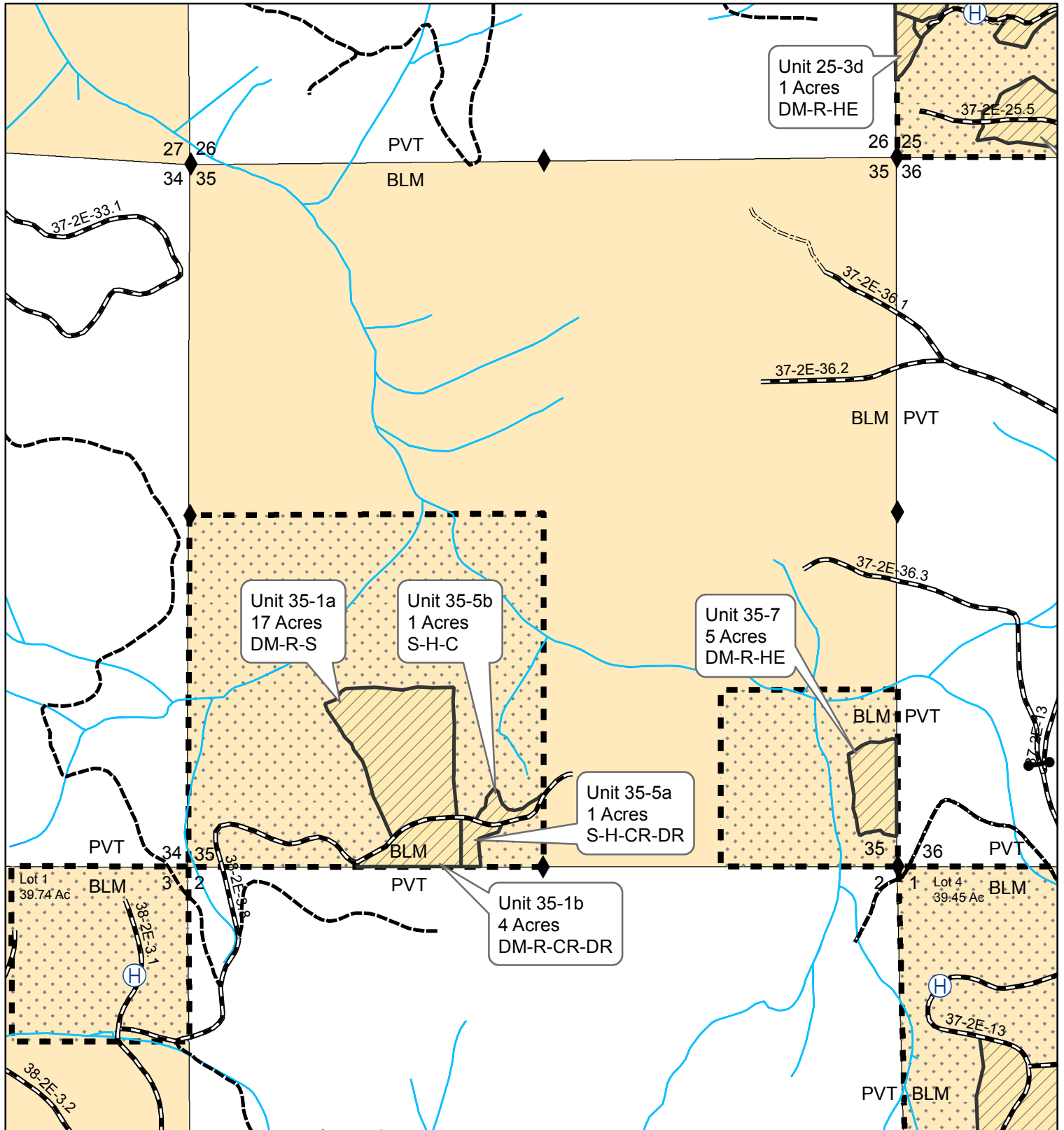


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Feet

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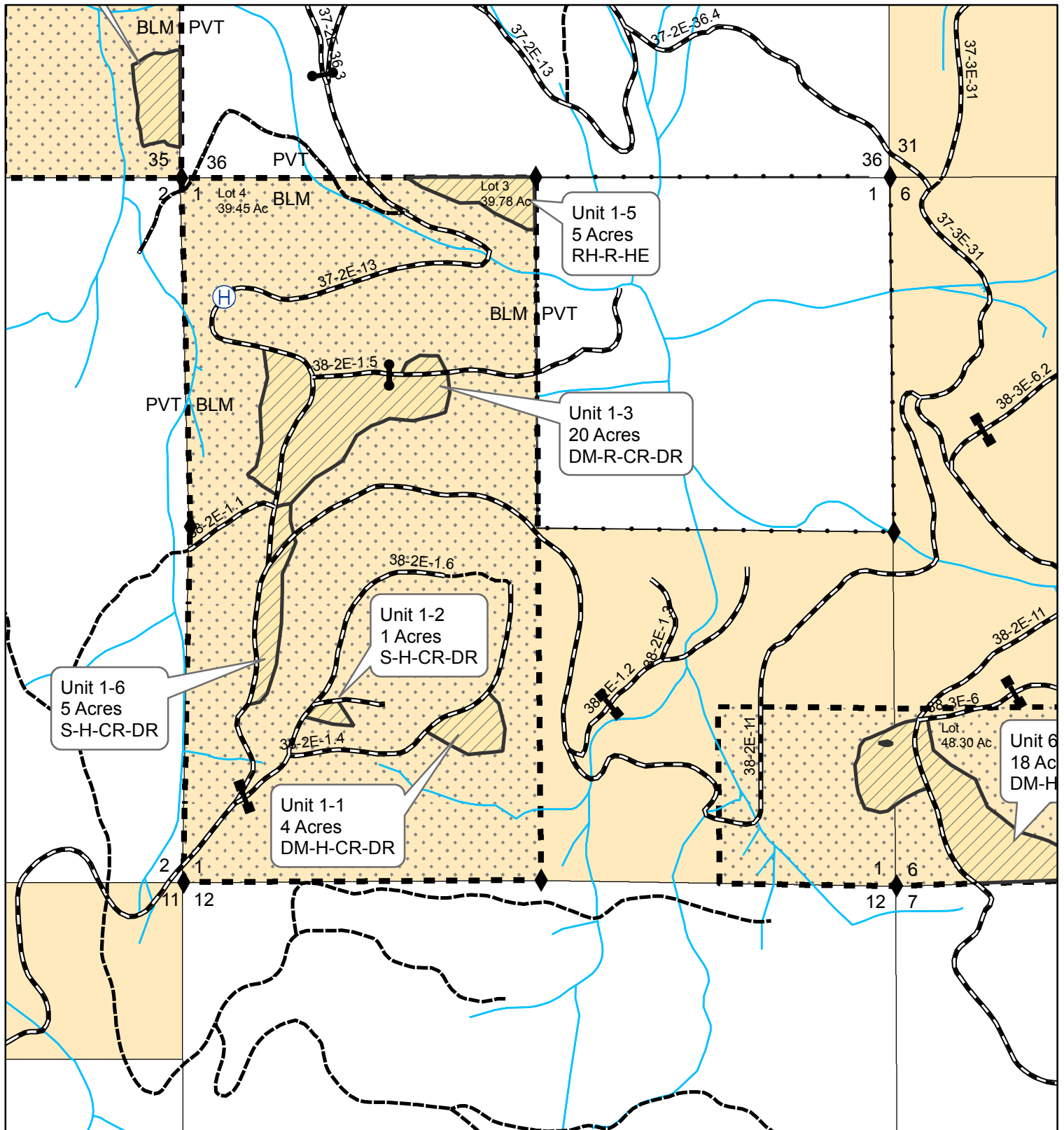


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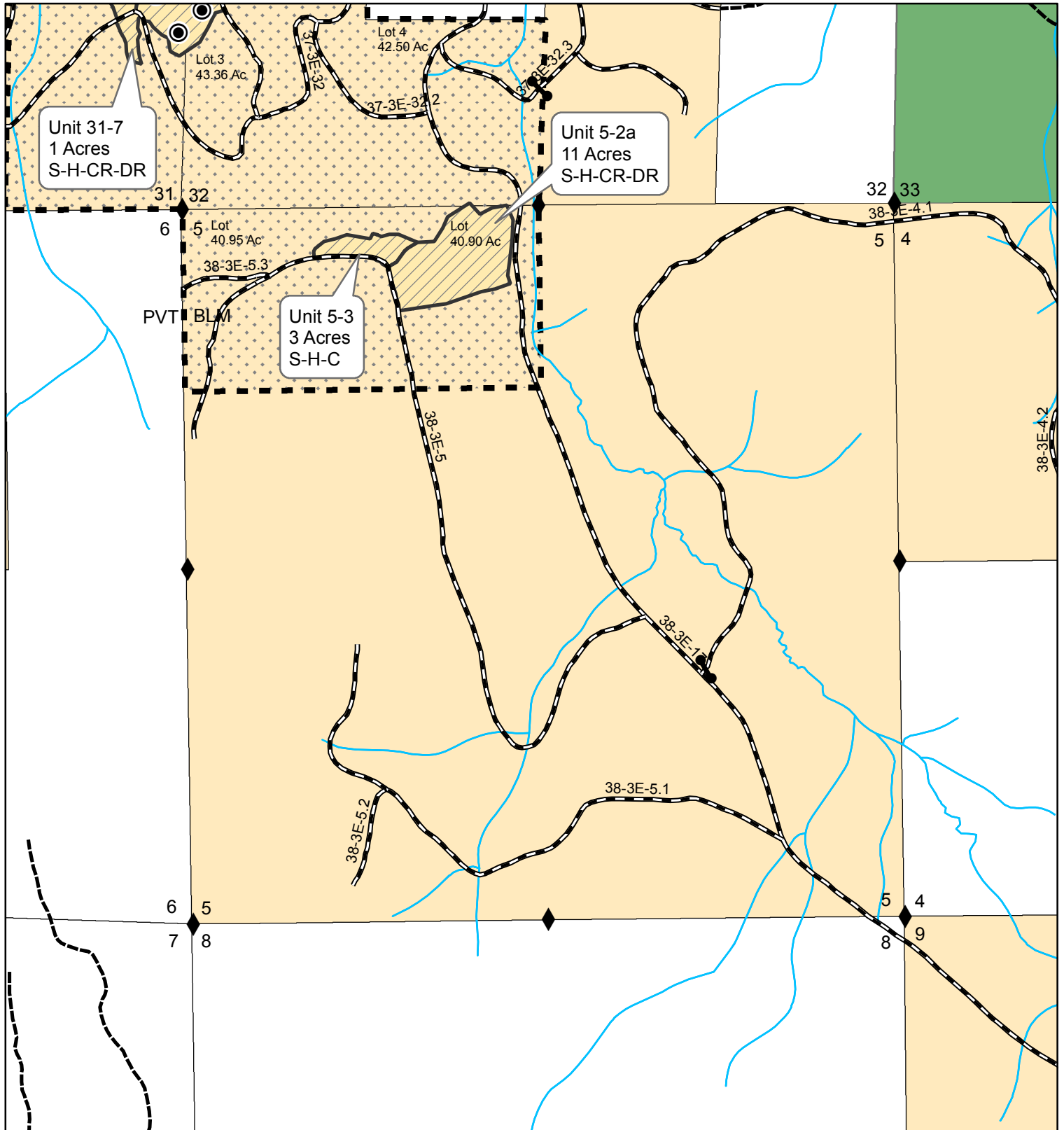
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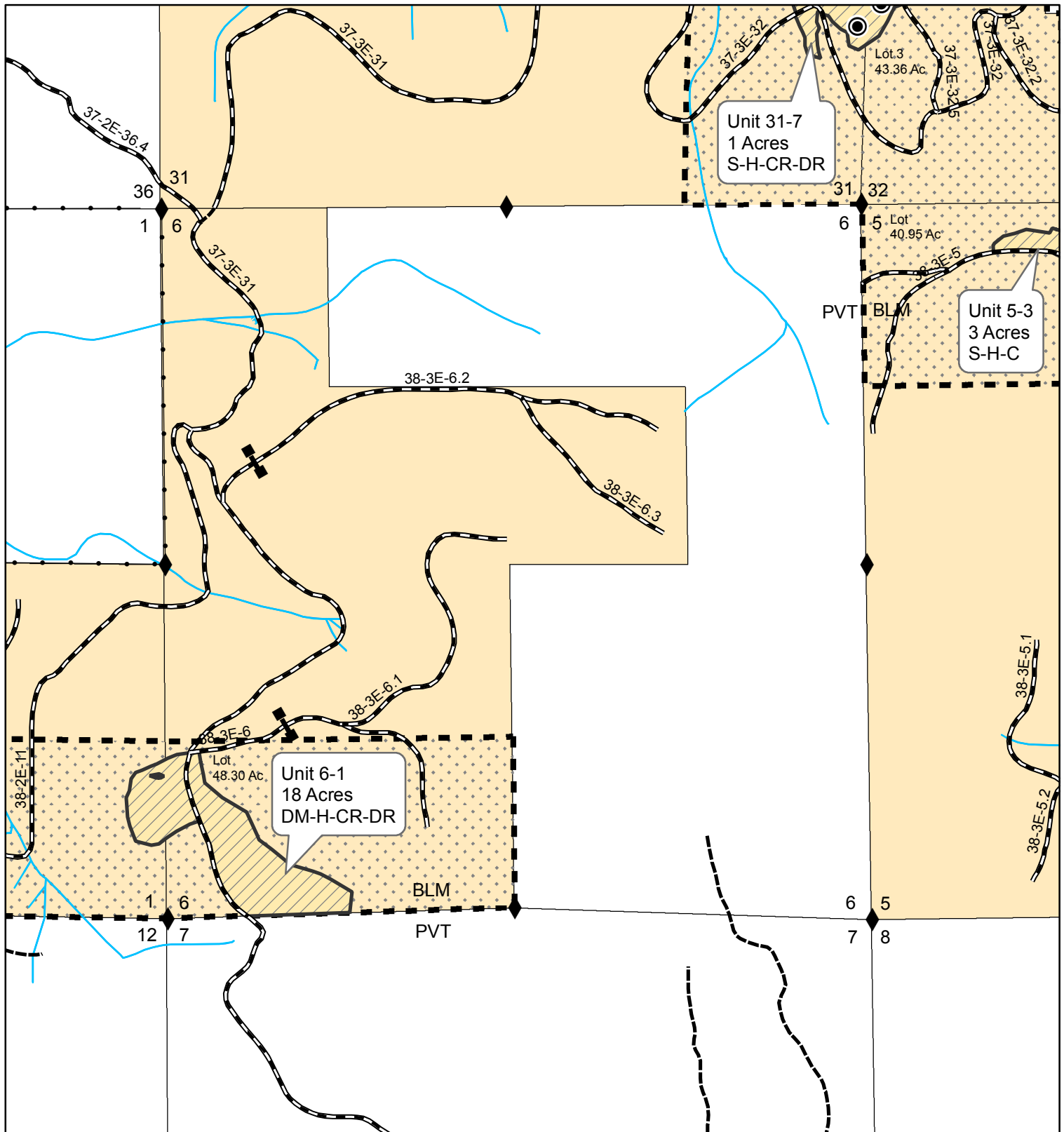


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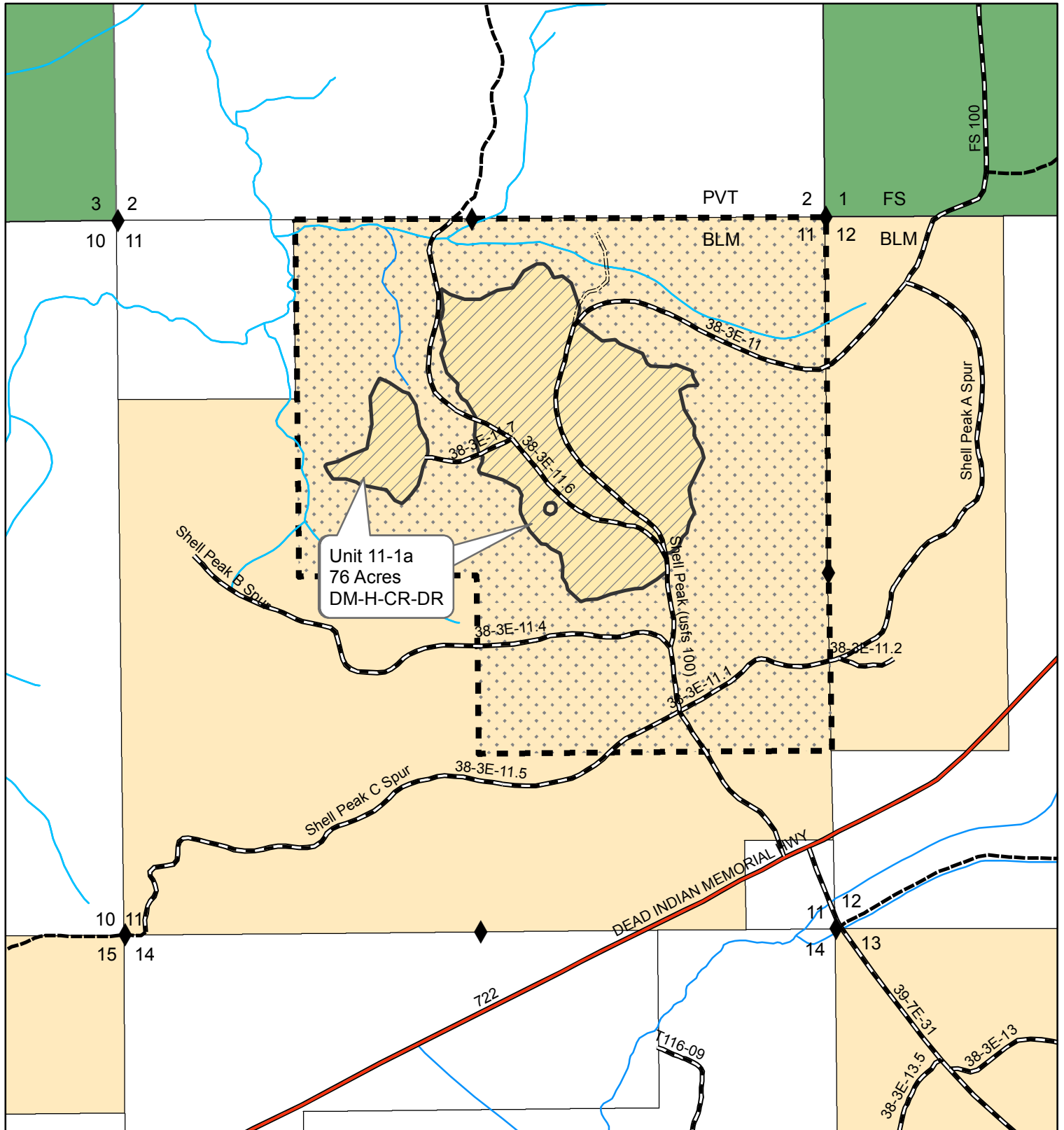


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1 inch = 1,000 feet

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



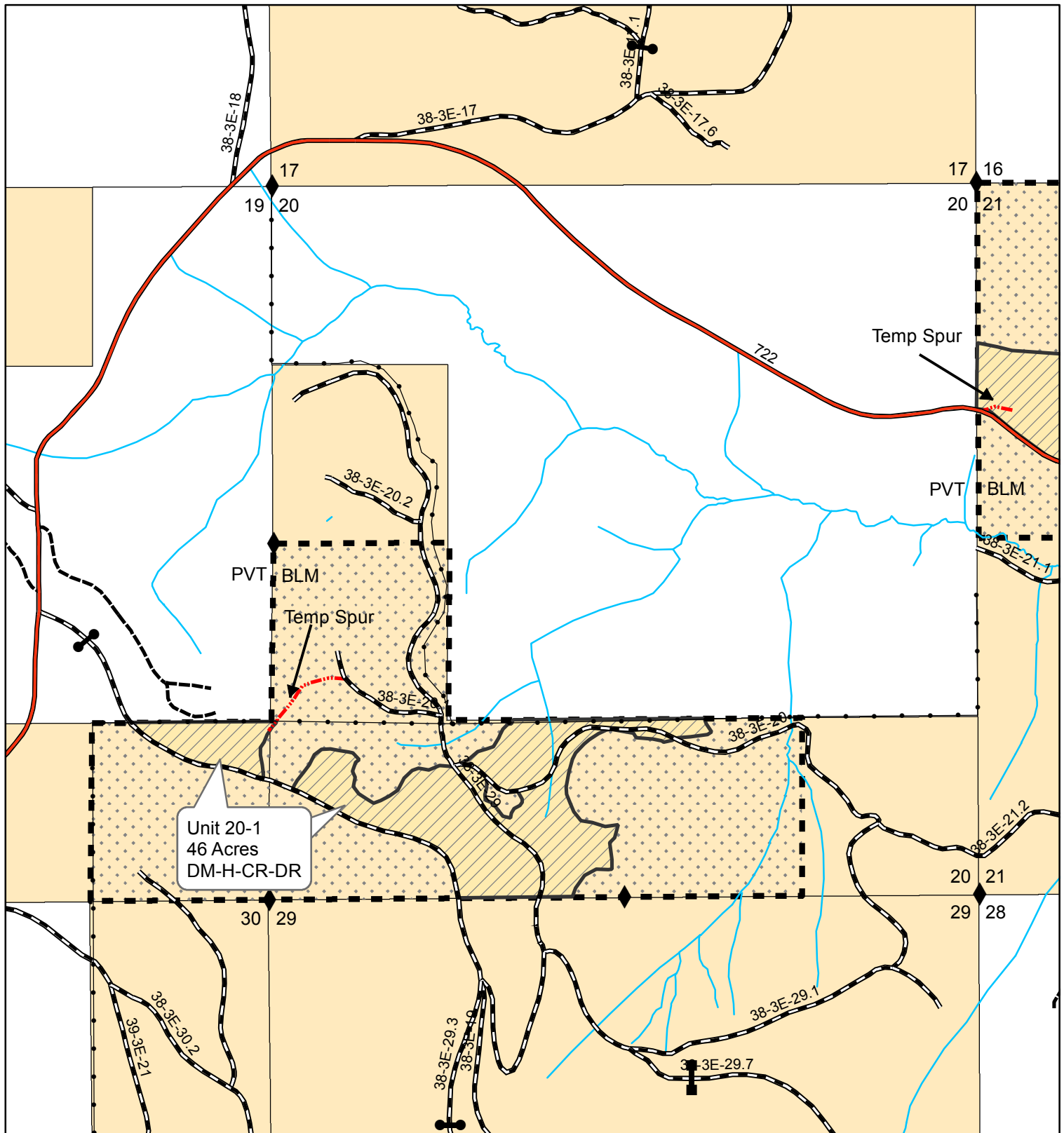


0 500 1,000 2,000 Feet

1 inch = 1,000 feet

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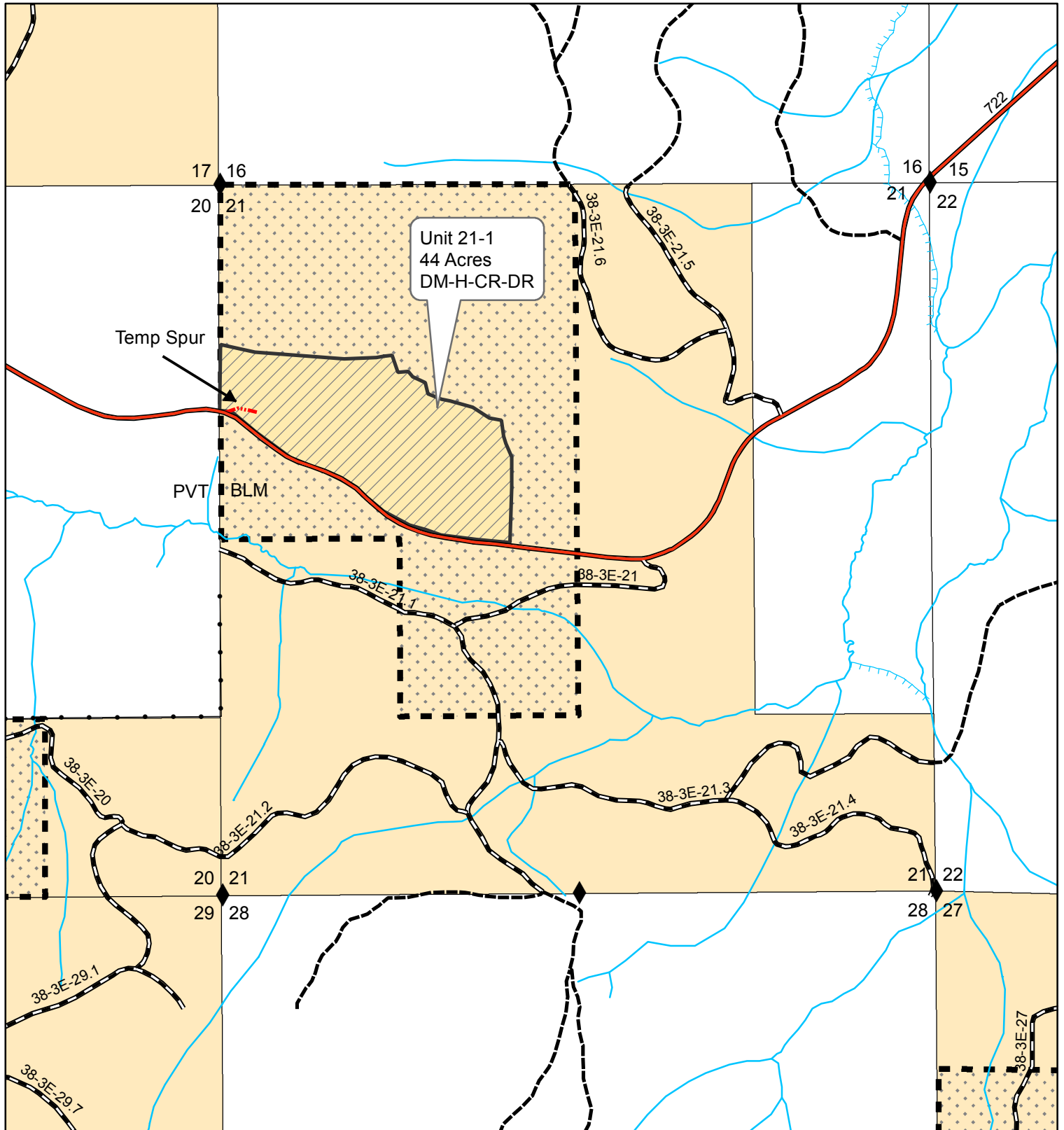


0 500 1,000 2,000
Feet

1 inch = 1,000 feet

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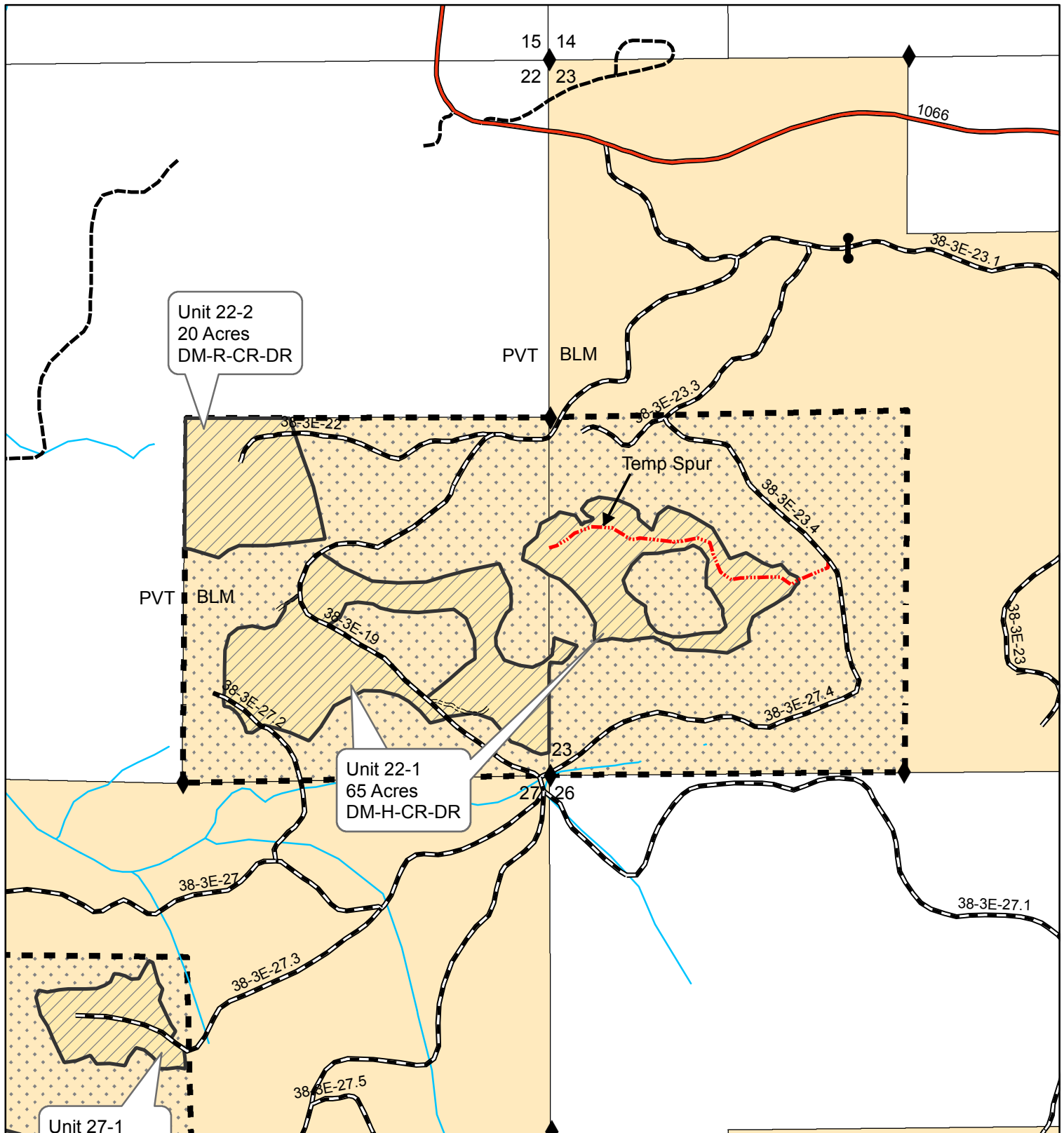


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Feet

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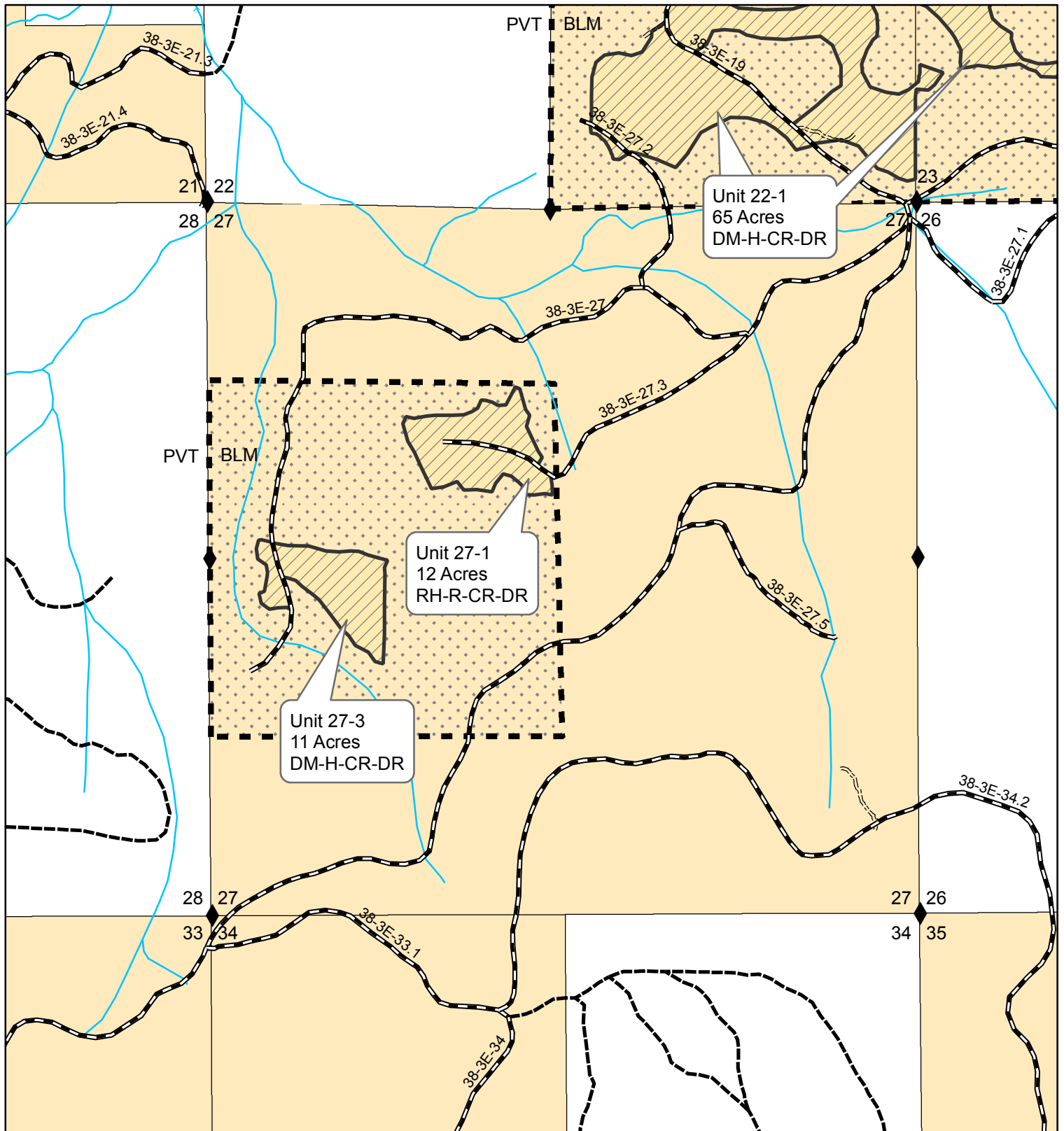
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United States of America
Department of the Interior
Bureau Of Land Management
Timber Sale Appraisal

District : Medford	Contract # : ORM06-TS15-16
Sale Name : South Fork Little Butte	Job File # : M111322
Sale Date : 09/17/2015	Master Unit : Jackson
Appraisal Method : 16' MBF	Planning Unit : Ashland

Contents

Exhibit B	2
-----------	---

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 6, 9, or 11; (2) When payments are due; and (3) Value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the authorized officer, which has been cut or removed or designated for taking.

Except provided in Section 2, Purchaser shall be liable for the total purchase price even though the quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on the Exhibit A.

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	7,988		
White Fir	1,824		
Incense-cedar	70		
Ponderosa Pine	53		
Sale Totals	9,935		

Unit Details (16' MB)

Unit 1-1 **4 Acres** **Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	3		
White Fir	20		
Unit Totals	23		

Unit 11-1A **76 Acres** **Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	196		
Incense-cedar			
Ponderosa Pine	1		
White Fir	334		
Unit Totals	531		

Unit 1-2 **1 Acres** **Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	2		
Unit Totals	2		

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Medford
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ORM06-TS15-16

Unit 1-3 20 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	155		
Incense-cedar	2		
White Fir	65		
Unit Totals	222		

Unit 13-1A 23 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	281		
White Fir			
Unit Totals	281		

Unit 13-1B 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	53		
Unit Totals	53		

Unit 13-1C 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	9		
Unit Totals	9		

Unit 13-2 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	72		
Ponderosa Pine			
White Fir			
Unit Totals	72		

Unit 14-1 40 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	493		
Incense-cedar			
Ponderosa Pine			
White Fir			
Unit Totals	493		

Medford
South Fork Little Butte
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Species	Net Volume	Bid Price	Species Value
Douglas-fir	59		
Incense-cedar			
Ponderosa Pine	1		
White Fir	20		
Unit Totals	80		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	5		
White Fir	1		
Unit Totals	6		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	307		
Incense-cedar	1		
Ponderosa Pine	3		
White Fir	2		
Unit Totals	313		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	26		
Incense-cedar			
Ponderosa Pine			
White Fir	7		
Unit Totals	33		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	19		
Unit Totals	19		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	23		
Unit Totals	23		

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Medford
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Unit 17-2A 26 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	513		
Incense-cedar	1		
Ponderosa Pine			
White Fir			
Unit Totals	514		

Unit 17-2B 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	6		
Unit Totals	6		

Unit 17-2C 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	22		
Unit Totals	22		

Unit 17-3 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	64		
Incense-cedar	1		
Ponderosa Pine	4		
Unit Totals	69		

Unit 17-4 13 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	128		
Incense-cedar	4		
Ponderosa Pine	10		
Unit Totals	142		

Unit 17-5 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	221		
Incense-cedar	5		
Ponderosa Pine	6		
White Fir			
Unit Totals	232		

**UNITED STATES
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BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Unit 17-6 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	178		
Incense-cedar	9		
Ponderosa Pine	5		
White Fir			
Unit Totals	192		

Unit 18-3 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	88		
Unit Totals	88		

Unit 18-4A 29 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	403		
Unit Totals	403		

Unit 18-4B 26 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	300		
Ponderosa Pine			
White Fir			
Unit Totals	300		

Unit 18-4C 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	64		
Ponderosa Pine			
Unit Totals	64		

Unit 19-1A 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	144		
Unit Totals	144		

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Unit 19-1B 27 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	376		
Unit Totals	376		

Unit 19-1C 15 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	225		
Incense-cedar			
Ponderosa Pine			
Unit Totals	225		

Unit 19-4 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	34		
Incense-cedar			
Ponderosa Pine	2		
Unit Totals	36		

Unit 20-1 46 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	7		
Incense-cedar	1		
White Fir	194		
Unit Totals	202		

Unit 20-4 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	92		
Incense-cedar	13		
Ponderosa Pine	17		
White Fir			
Unit Totals	122		

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Unit 21-1 44 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	2		
Ponderosa Pine			
White Fir	166		
Unit Totals	281		

Unit 22-1 65 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	269		
Incense-cedar	7		
Ponderosa Pine			
White Fir	338		
Unit Totals	614		

Unit 22-2 20 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	28		
Incense-cedar	4		
White Fir	125		
Unit Totals	157		

Unit 22-4 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
White Fir	3		
Unit Totals	51		

Unit 23-10A 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	21		
Unit Totals	21		

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Medford
South Fork Little Butte
ORM06-TS15-16

Unit 23-10B 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	202		
Incense-cedar	1		
Ponderosa Pine	3		
Unit Totals	206		

Unit 23-2A 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	136		
Incense-cedar			
Unit Totals	136		

Unit 23-2B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	98		
White Fir			
Unit Totals	98		

Unit 23-2C 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	52		
Incense-cedar	1		
Ponderosa Pine			
Unit Totals	53		

Unit 23-2D 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	116		
Incense-cedar			
Unit Totals	116		

Unit 23-3B 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar			
Ponderosa Pine			
White Fir			
Unit Totals	39		

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Medford
South Fork Little Butte
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Unit 23-4 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	314		
Incense-cedar	3		
Ponderosa Pine	1		
White Fir			
Unit Totals	318		

Unit 23-9 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	109		
Incense-cedar			
Ponderosa Pine			
Unit Totals	109		

Unit 25-1A 15 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	85		
Incense-cedar			
White Fir	2		
Unit Totals	87		

Unit 25-3A 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	99		
Incense-cedar	5		
White Fir	91		
Unit Totals	195		

Unit 25-3B 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	186		
Incense-cedar	3		
White Fir	43		
Unit Totals	232		

**UNITED STATES
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Medford
South Fork Little Butte
ORM06-TS15-16

Unit 25-3C 3 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	11		
White Fir	13		
Unit Totals	24		

Unit 25-3D 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	60		
White Fir	12		
Unit Totals	72		

Unit 25-4 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	43		
Unit Totals	43		

Unit 25-5 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	81		
Ponderosa Pine			
White Fir			
Unit Totals	81		

Unit 25-6 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	26		
Ponderosa Pine			
White Fir	1		
Unit Totals	27		

Unit 27-1 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	7		
White Fir	54		
Unit Totals	61		

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Medford
South Fork Little Butte
ORM06-TS15-16

Unit 27-3 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	13		
White Fir	61		
Unit Totals	74		

Unit 29-2 13 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	59		
White Fir	1		
Unit Totals	60		

Unit 30-2A 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	11		
White Fir	5		
Unit Totals	16		

Unit 30-2B 20 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	111		
Incense-cedar	1		
White Fir	42		
Unit Totals	154		

Unit 30-2C 26 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	123		
White Fir	19		
Unit Totals	142		

Unit 30-3 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	71		
Unit Totals	71		

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Medford
South Fork Little Butte
ORM06-TS15-16

Unit 31-2A 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	92		
White Fir	13		
Unit Totals	105		

Unit 31-2B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	42		
White Fir	6		
Unit Totals	48		

Unit 31-3 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	88		
Incense-cedar	1		
Ponderosa Pine			
White Fir	44		
Unit Totals	133		

Unit 31-4 31 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
White Fir	3		
Unit Totals	78		

Unit 31-5 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	29		
White Fir	1		
Unit Totals	30		

Unit 31-7 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	5		
Unit Totals	5		

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BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Unit 35-1A 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	316		
White Fir	24		
Unit Totals	340		

Unit 35-1B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	69		
Incense-cedar			
White Fir	11		
Unit Totals	80		

Unit 35-5A 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	24		
White Fir	4		
Unit Totals	28		

Unit 35-5B 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	41		
White Fir	2		
Unit Totals	43		

Unit 35-7 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	24		
White Fir	26		
Unit Totals	50		

Unit 5-2A 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	52		
White Fir	3		
Unit Totals	55		

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Medford
South Fork Little Butte
ORM06-TS15-16

Unit 5-3 3 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	13		
Unit Totals	13		

Unit 6-1 18 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	19		
Incense-cedar	5		
White Fir	68		
Unit Totals	92		



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT ASHLAND RESOURCE AREA

EXHIBIT C-1
SHEET 1 OF 1

SOUTH FORK BUTTE TIMBER SALE
TRACT NO. 15-16

PROJECT LOCATION

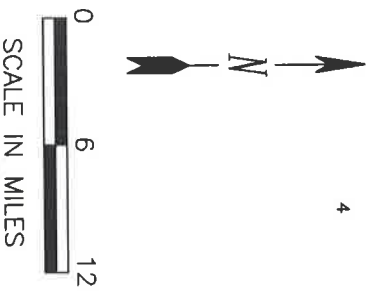
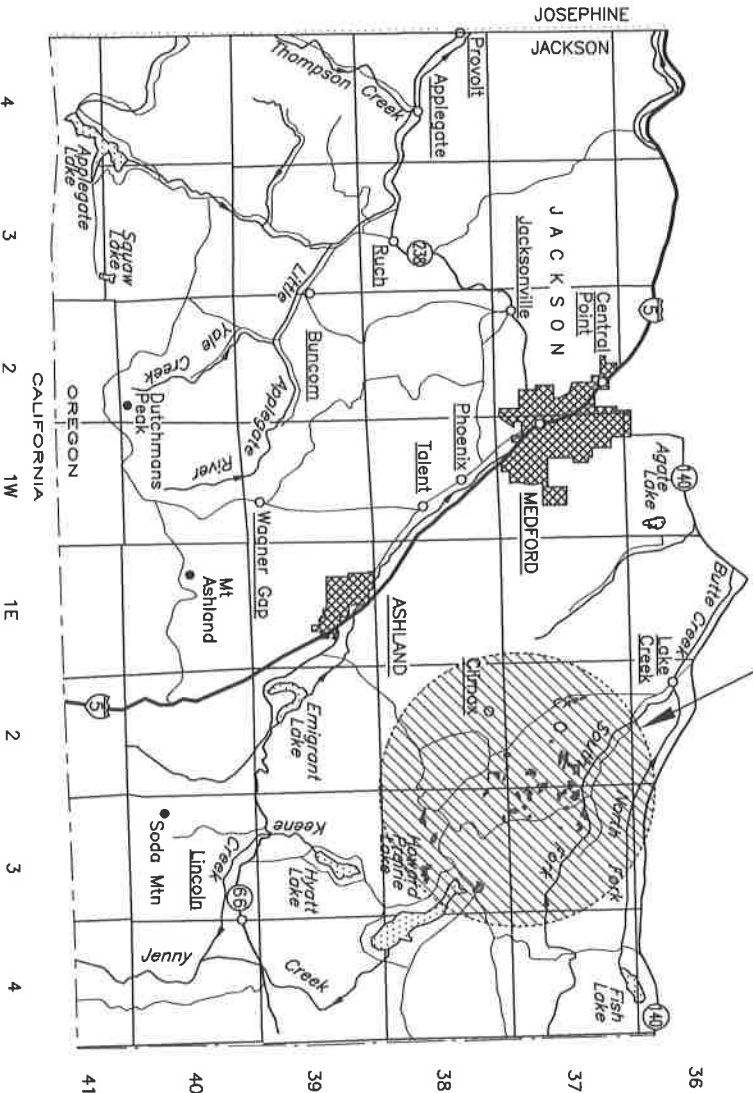


Exhibit No.	Description
C 1	TITLE SHEET
C 2	ROAD LOCATION MAP
C 3	ESTIMATE OF QUANTITIES
C 4	SPECIFICATION SHEET
C 5	CULVERT LIST
C 6	CULVERT INSTALLATION DETAILS
C 7	CULVERT BAND DETAIL
C 8	TYPICAL ROAD SURFACING SECTIONS
C 9	ROADSIDE BRUSHING DETAIL
C 10	TYPICAL ARMORED WATER DIP CONSTRUCTION
C 11	DRAINAGE AND EROSION CONTROL
C 12	PLAN AND PROFILE SHEET
C 13	TYPICAL SLOPE STAKING
C 14	ROAD RENOVATION WORKLIST
C 15	CONSTRUCTION SPECIFICATIONS
C 16	SHALE DIVIDE QUARRY DEVELOPMENT PLAN
C 17	SODA CANYON QUARRY DEVELOPMENT PLAN
C 18	BUCK PRAIRIE QUARRY DEVELOPMENT PLAN
C 19	TYPICAL ROAD CAMOUFLAGE
C 20	TYPICAL FULL DECOMMISSION
C 21	TYPICAL FILTER FABRIC INSTALLATION
D 1	ROAD MAINTENANCE SPECIFICATIONS
D 2	ROAD MAINTENANCE MAP

REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
MEDFORD OREGON			
DESIGNED <i>John W. Johnson</i>			
REVIEWED <i>John W. Johnson</i>			
APPROVED <i>Frank J. Moore</i>			
DRAWN: JWR		SCALE: AS SHOWN	
DATE: June 2015		SHEET 1 OF 1	
DRAWING NO. OR 117-TS15-16-C1			

SOUTH FORK LITTLE BUTTE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT C-2, PAGE 1 OF 4

U.S.D.I. BLM MEDFORD DISTRICT

T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

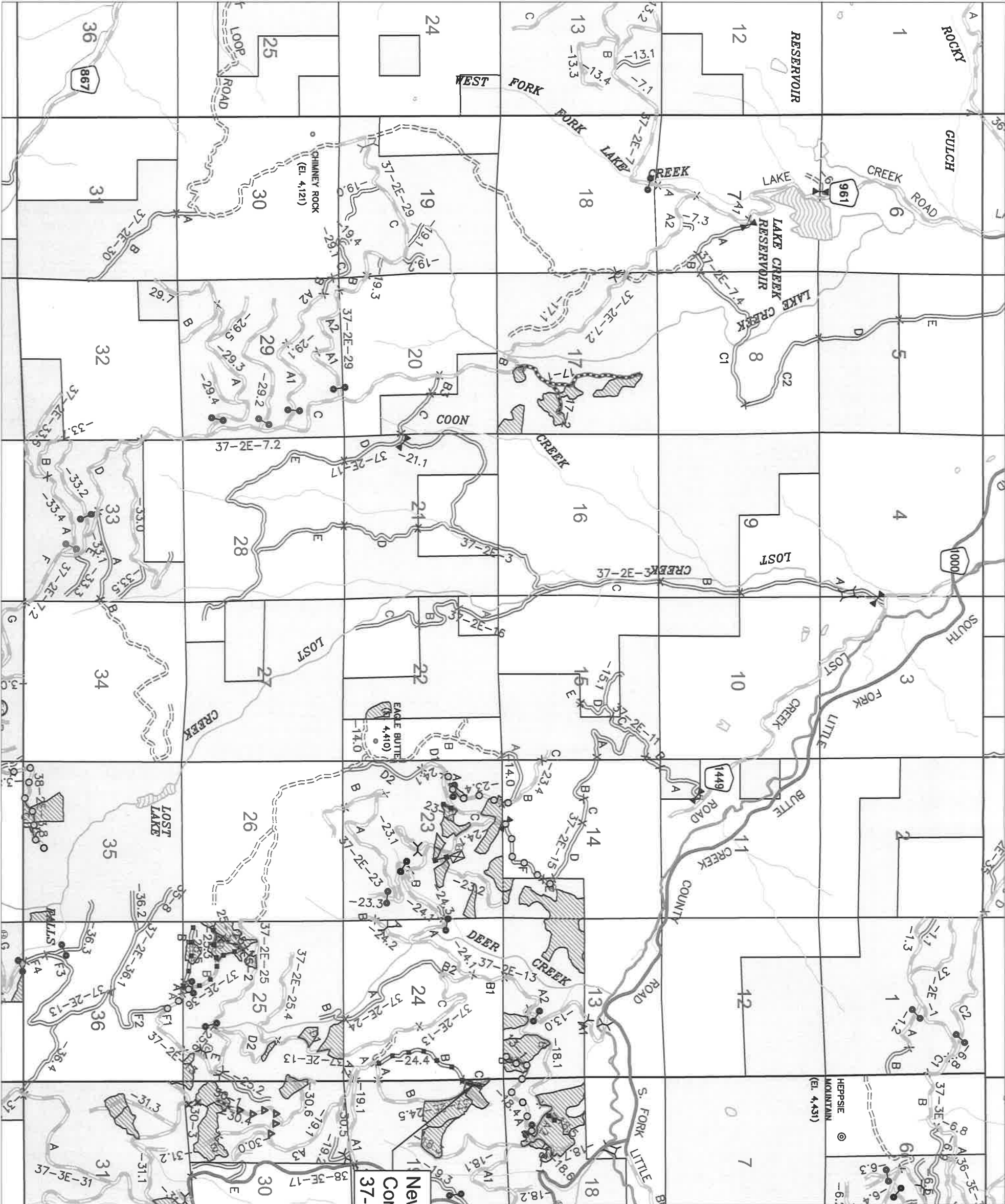
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- EXISTING BARRICADE
- PUMP CHANCE
- QUARRY
- STOCKPILE FOR SPOT ROCKING

ROAD PROJECTS

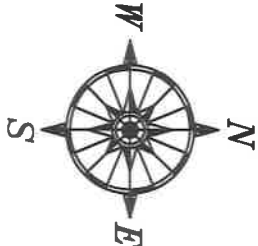
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- EXISTING PAVED ROAD
- EXISTING PRIMITIVE ROAD
- ROAD TO BE BRUSHED, BLADED, AND DRAINAGE IMPROVED
- ROAD TO BE BRUSHED ONLY
- ROAD TO BE BRUSHED, BLADED, AND SPOT ROCKED
- ROAD TO BE CONSTRUCTED
- ROAD TO BE BRUSHED, BLADED, AND CLOSED LONG TERM AFTER HAUL
- ROAD TO BE FULLY DECOMMISSIONED
- TEMPORARY SPUR TO BE CONSTRUCTED
- BLM LAND
- TS UNITS

T.37S.

New Road
Construction
37-2E-24.04C



R.2E.



ROAD LOCATION MAP
EXHIBIT C-2; PAGE 2 OF 4

U.S.D.I. BLM MEDFORD DISTRICT

T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

 EXISTING GATE

EXISTING BARRICADE

PUMP CHANCE

QUARRY

 STOCKPILE FOR SPOT ROCKING

ROAD PROJECTS

EXISTING ROAD

EXISTING PAVED ROAD

EXISTING PRIMITIVE ROAD

AND DRAINAGE IMPROVED

★ ROAD TO BE BRUSHED ONLY

ROAD TO BE BRUSHED,
BLADED AND SPRT PATCHED

 ROAD TO BE CONSTRUCTED

ROAD TO BE BRUSHED, BLADED,

HAUL

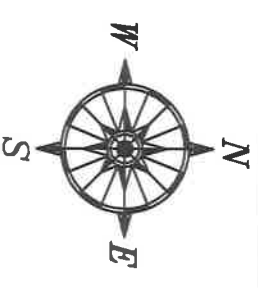
ROAD TO BE FULLY
RECOMMISSIONED

TEMPORARY COILS TO BE

CONSTRUCTED

PLATE 1

11



SOUTH FORK LITTLE BUTTE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT C-2; PAGE 3 OF 4

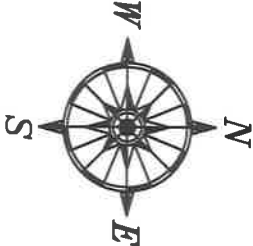
U.S.D.I. BLM MEDFORD DISTRICT

T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

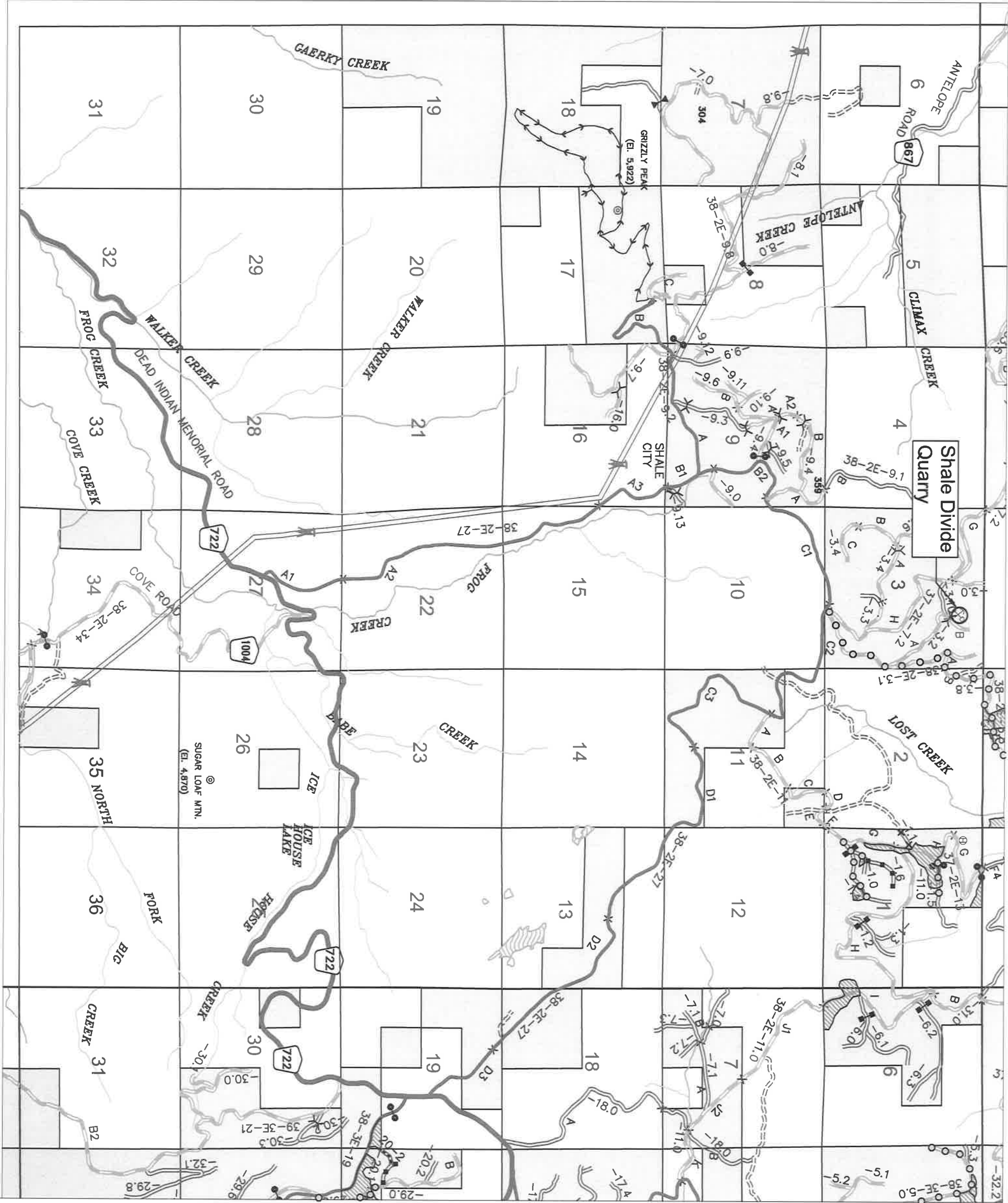
- EXISTING GATE
- EXISTING BARRICADE
- PUMP CHANCE
- QUARRY
- STOCKPILE FOR SPOT ROCKING

ROAD PROJECTS

- EXISTING ROAD
- EXISTING PAVED ROAD
- EXISTING PRIMITIVE ROAD
- ROAD TO BE BRUSHED, BLADED, AND DRAINAGE IMPROVED
- ROAD TO BE BRUSHED ONLY
- ROAD TO BE BRUSHED, BLADED, AND SPOT ROCKED
- ROAD TO BE CONSTRUCTED
- ROAD TO BE BRUSHED, BLADED, AND CLOSED LONG TERM AFTER HAUL
- ROAD TO BE FULLY DECOMMISSIONED
- TEMPORARY SPUR TO BE CONSTRUCTED
- BLM LAND
- TS UNITS



R.2E.



SOUTH FORK LITTLE BUTTE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT C-2; PAGE 4 OF 4

U.S.D.I. BLM MEDFORD DISTRICT

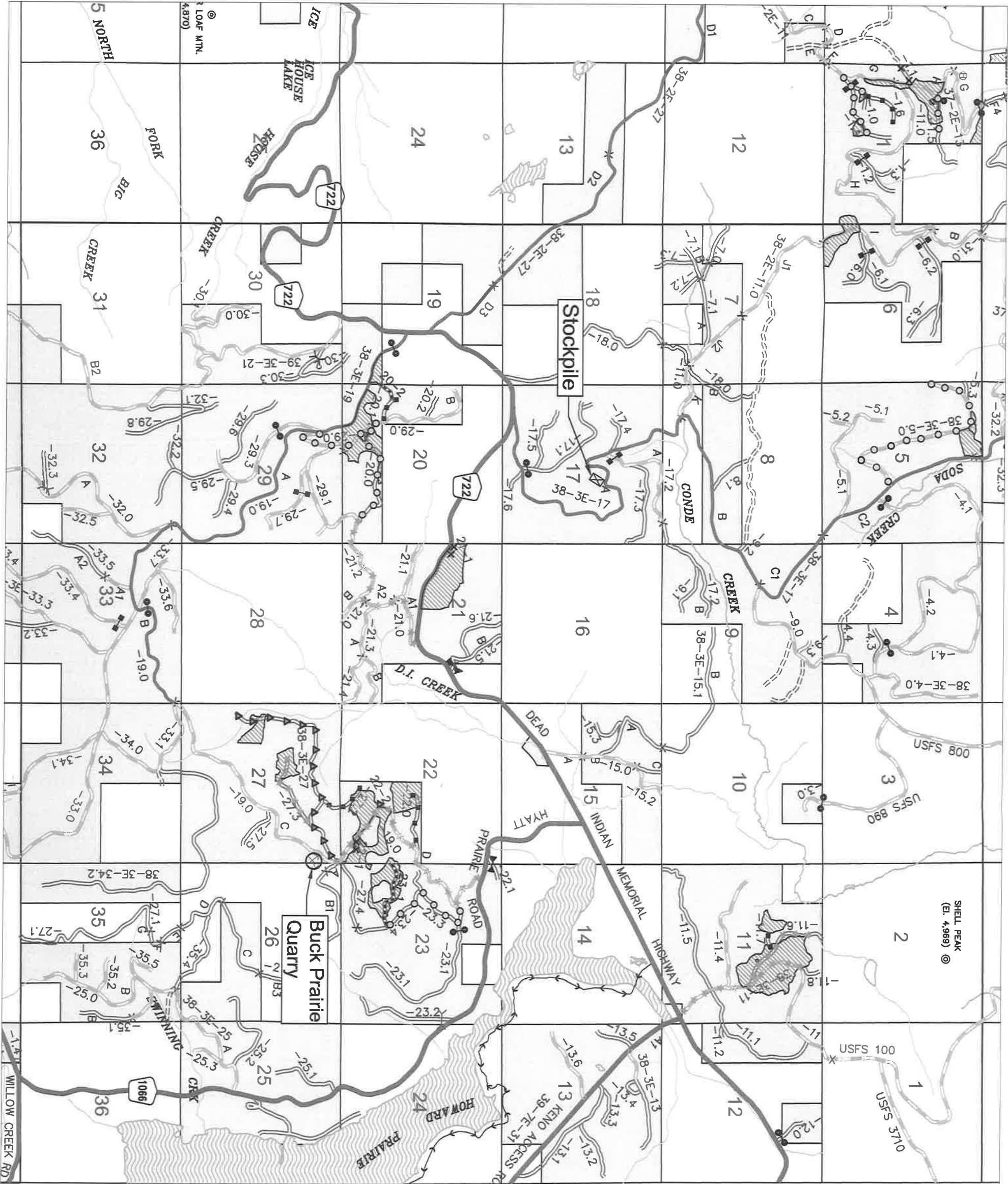
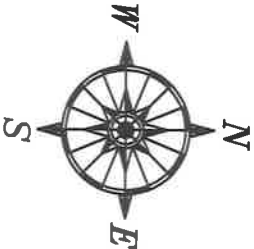
T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

- EXISTING GATE
- EXISTING BARRICADE
- PUMP CHANGE
- QUARRY
- STOCKPILE FOR SPOT ROCKING

ROAD PROJECTS

- EXISTING ROAD
- EXISTING PAVED ROAD
- EXISTING PRIMITIVE ROAD
- ROAD TO BE BRUSHED, BLADED, AND DRAINAGE IMPROVED
- ROAD TO BE BRUSHED ONLY
- ROAD TO BE BRUSHED, BLADED, AND SPOT ROCKED
- ROAD TO BE CONSTRUCTED
- ROAD TO BE BRUSHED, BLADED, AND CLOSED LONG TERM AFTER HAUL
- ROAD TO BE FULLY DECOMMISSIONED
- TEMPORARY SPUR TO BE CONSTRUCTED

- BLM LAND
- TS UNITS



R.3E.

T.38S.

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE				RENOVATION	ROAD REPAIR	AGGREGATE**					GEOTEXTILES	SOIL STABILIZATION	ROADSIDE BRUSHING	SLOPE STAKING	CONSTRUCT ARMORED WATERDIPS	EARTH / LOG BARRIER	INSTALL WATERBARS	CAMOUFLAGE ROAD ENTRANCE 100 FEET	ROAD DECOMMISSION	CONSTRUCT TEMPORARY SPUR	REMOVE GATE
					ROCK	COMMON	18"	TEMP 18"	24"	36"			PIT RUN ROCK	CRUSHED BASE	CRUSHED SURFACE	BLM QUARRY	STOCKPILE											
SPECIFICATION NO.				200	300	300	400	400	400	500		700	1000	1200	1200	C.Y.	1300	1800	2100	2300	EA	EA	EA	EA	MILE	EA	EA	
UNIT	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	MILE	EA	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	SGYD	ACRE	MILE	STA								
37-2E-15.00 E-F	0.00	0.59	0.59							0.59	1								0.59		6							
37-2E-23.04	0.00	0.49	0.49							0.49									0.49		1							
37-2E-24.04 B	0.12	0.82	0.70							0.70									0.70				1	18				
37-2E-24.04 C	0+00	6+30	6+30	0.36		165												0.10		6+30								
37-2E-25.03	0.00	0.23	0.23							0.23									0.23				1	6	1			
37-2E-25.05	0.00	0.46	0.46							0.46									0.46				1	12	1			
37-2E-36.00	0.00	0.60	0.60							0.60									0.60				1	16	1			
37-3E-18.04	0.00	0.71	0.71							0.16	1								0.71		1							
37-3E-18.05	0.00	0.07	0.07							0.07									0.07				1	2	1			
37-3E-19.00	0.00	3.60	3.60							0.60									3.60									
37-3E-21.01	0.00	0.64	0.64							0.64									0.64									
37-3E-21.02	0.00	0.44	0.44							0.44									0.44									
37-3E-30.04	0.00	0.50	0.50							0.50						70			0.50									
37-3E-32.05	0.00	0.93	0.93							0.93									0.93					25	1			
38-2E-1.00	0.00	0.20	0.20							0.20									0.20		3						1	
38-2E-1.01	0.00	0.14	0.14																			1			1	0.14		
38-2E-1.04	0.00	0.32	0.32							0.32									0.32		1							
38-2E-1.05	0.00	0.30	0.30							0.30									0.30									
38-2E-1.06	0.00	0.35	0.35																			1	9	1				
38-2E-3.01	0.00	1.02	1.02							1.02	1								1.02									
38-2E-3.08	0.00	1.00	1.00							1.00											3							
TOTAL Page 1				0.36		165				9.25	3					356	1245	0.10	12.80	6+30	15	8	88	7	0.14		2	

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



ESTIMATE OF QUANTITIES*

REV. NO.		APPROV.	
U. S. DEPARTMENT OF THE INTERIOR			
BUREAU OF LAND MANAGEMENT			
MEDFORD DISTRICT MEDFORD, OREGON			

DRAWN: JS	SCALE NONE
DATE: June 2015	SHEET 1 OF 3
DRAWING NO.	OR 117-TS16-16-C3

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE						RENOVATION	ROAD REPAIR	AGGREGATE**					GEOTEXTILES	SOIL STABILIZATION	ROADSIDE BRUSHING	SLOPE STAKING	CONSTRUCT ARMORED WATERDIPS	EARTH / LOG BARRIER	INSTALL WATERBARS	CAMOUFLAGE ROAD ENTRANCE 100 FEET	ROAD DECOMMISSION	CONSTRUCT TEMPORARY SPUR	REMOVE GATE
					ROCK	COMMON	18"	18" ^{TEMP}	24*	36*	500	EA			PIT RUN ROCK	CRUSHED BASE	CRUSHED SURFACE	BLM QUARRY	STOCKPILE											
SPECIFICATION NO.	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	MILE	EA	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	SOVD	ACRE	MILE	STA	EA	EA	EA	EA	MILE	EA	EA		
38-3E-5.00	0.00	1.46	1.46								1.46																			
38-3E-11.00	0.00	0.88	0.88																											
38-3E-11.06	0.00	0.59	0.59																											
38-3E-11.07	0.00	0.14	0.14								0.14																			
38-3E-19.00 D	0.00	1.60	1.60																											
38-3E-20.00	0.00	0.80	0.80								0.80	1																		
38-3E-20.01	0.00	0.19	0.19								0.19																			
38-3E-21.00	0.00	0.67	0.67																											
38-3E-21.02	0.00	0.60	0.60																											
38-3E-22.00	0.00	0.40	0.40								0.40																			
38-3E-23.01	0.00	0.12	0.12								0.12																			
38-3E-23.03	0.00	0.32	0.32								0.32																			
38-3E-23.04	0.00	0.34	0.34								0.34																			
38-3E-27.00	0.00	1.47	1.47								0.81					350														
38-3E-27.02	0.00	0.35	0.35								0.35																			
38-3E-27.03	0.00	0.60	0.60																											
38-3E-29.00	0.00	0.68	0.68								0.68																			
USFS 830	0.00	0.21	0.21								0.21	1																		
USFS 831	0.00	0.09	0.09								0.09																			
T37 R2E Spur 23-2	0.00	0.09	0.09								0.09																			
T37 R2E Spur 25-3	0.00	0.10	0.10								0.10																			
TOTAL Page 2											6.10	2				350	30													

ALWAYS
THINK
SAFETY

ESTIMATE OF QUANTITIES*

REV. NO.		APPROV.	
U. S. DEPARTMENT OF THE INTERIOR			
BUREAU OF LAND MANAGEMENT			
MEDFORD DISTRICT		MEDFORD, OREGON	

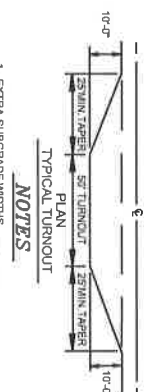
DRAWN: JS	SCALE NONE
DATE: June 2015	SHEET 2 OF 3
DRAWING NO.	OR 117-TS15-16-C3

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QUANTITIES SHOWN ARE NOT PAY ITEMS.

ALWAYS
THINK
SAFETY

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD, OREGON
MEDFORD DISTRICT

DRAWN: JS	SCALE NONE
DATE: June 2015	SHEET 3 OF 3
DRAWING NO.	OR 117-TS15-16-C3



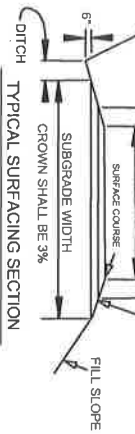
TYPE 3

NOTES

1. EXTRA SUBGRADE WIDTHS:
ADD TO EACH FILL SHOULDER 1 FT. FOR
FILLS OF 1-6 FT. & 2 FT. FOR FILLS OVER
6 FT. WIDEN THE INSIDE SHOULDER OF ALL
CURVES AS FOLLOWS:
WHEN THE DEGREE OF CURVE EQUALS

SEE SUBSECTION 2100

SAFETY



TYPE 6

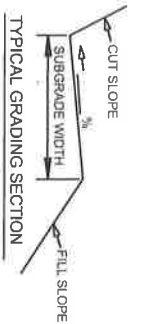
**ALWAYS
THINK
SAFETY**

SPECIFICATION SHEET

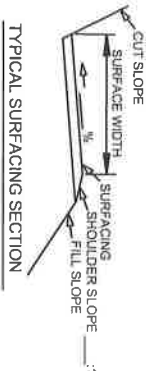
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT
MEDFORD, OREGON

DRAWN: JS	SCALE NONE
DATE: June 2015	SHEET 1 OF 3
DRAWING NO. OR 117-TS15-16-C4	

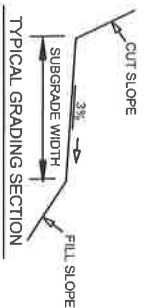
ROAD NUMBER	STATION OR MILE POST	TO STATION OR MILE POST	LENGTH MILE OR SECTION TYPE	ALIGNMENT		ROAD WIDTH (1-3)			GRADIENT		CLEARING WIDTH		SURFACING (4)								REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				TYPICAL SECTION TYPE	MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING ROAD(S)	BASE COURSE			SURFACE COURSE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
										TOP CUT	TOE FILL		L	R	MINIMUM WIDTH	COMP. DEPTH	TYPE (2)	GRADING WIDTH	MINIMUM WIDTH	COMP. DEPTH		TYPE (2)	GRADING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
38-3E-19.00 D	0.00	1.60	1.60	6		16	3				4	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														



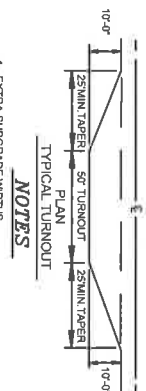
TYPE 1



TYPE 2

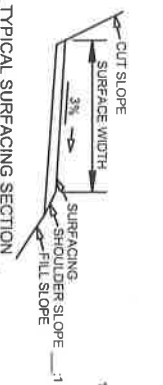


TYPE 3

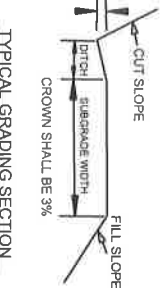


NOTES

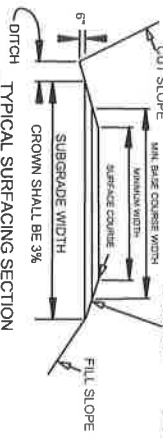
1. EXTRA SUBGRADE WIDTHS ADD TO EACH FILL SHOULDER 1' FOR FILLS OF 1'-8" FT. & 2' FOR FILLS OVER 8" FT. ADD TO EACH SHOULDER OF ALL CURVES AS FOLLOWS WHEN THE DEGREE OF CURVE EQUALS 7-21 ADD 1 FT. 22-35 ADD 2 FT. 36-44 ADD 3 FT. 45-54 ADD 4 FT. 55-66 ADD 5 FT.



TYPE 4



TYPE 5



TYPE 6

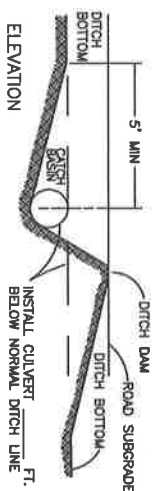
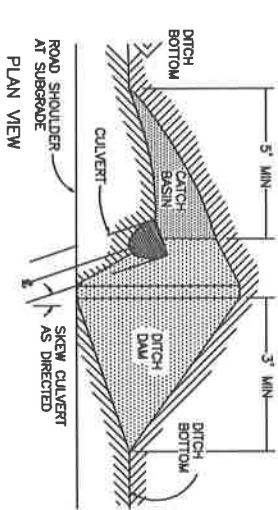
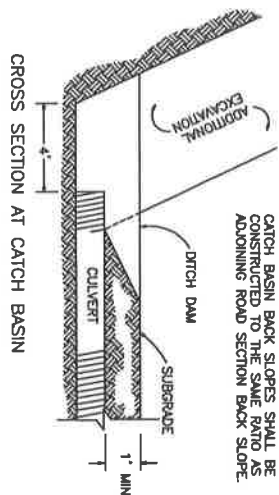
2. SURFACING TYPE
A. BIT RUN ROCK MATERIAL
B. GRID ROLLED ROCK MATERIAL
C. SCREENED ROCK MATERIAL
D. CRUSHED ROCK MATERIAL
3. TURNOUTS IN ADDITION TO SUBGRADE WIDTH OR AS SHOWN ON THE PLANS
B. LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS.
C. INTERVIEWABLE AND NOT MORE THAN 10' APART.
4. SURFACING CLEARING WIDENING AND ROAD APPROACH APRONS SHALL BE SURFACED SEE SUBSECTION 2100
5. CLEARING WIDTH

REV NO	DESCRIPTION	DATE	APPROVAL

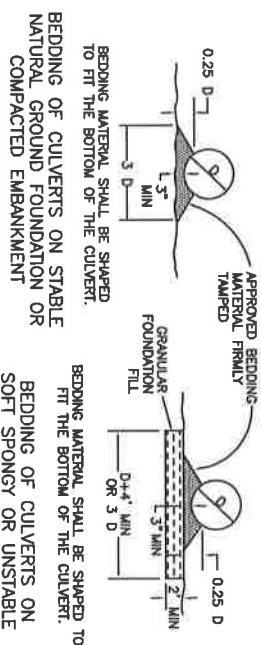
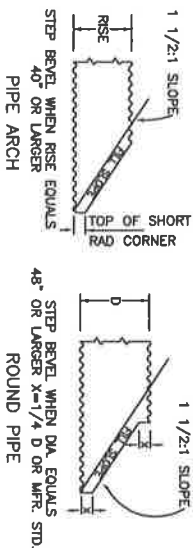
SPECIFICATION SHEET

DRAWN: JS	SCALE: NONE
DATE: JUN 2015	SHEET 2 OF 3
DRAWING NO.	OR 117-1515-16-C4

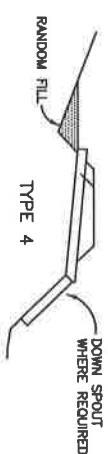
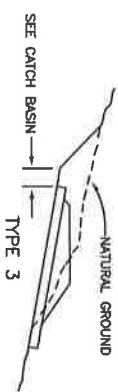
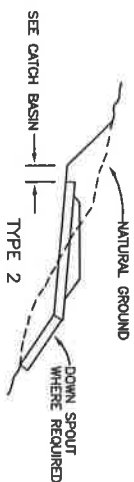
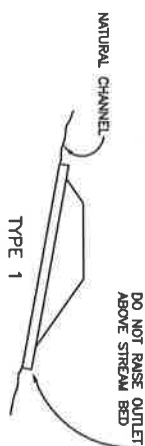
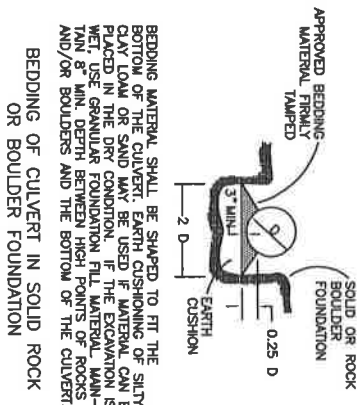
CATCH BASIN BACK SLOPES SHALL BE CONSTRUCTED TO THE SAME RATIO AS ADJOINING ROAD SECTION BACK SLOPE.



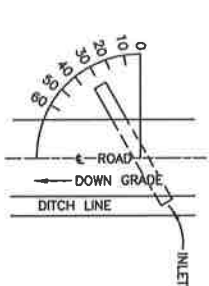
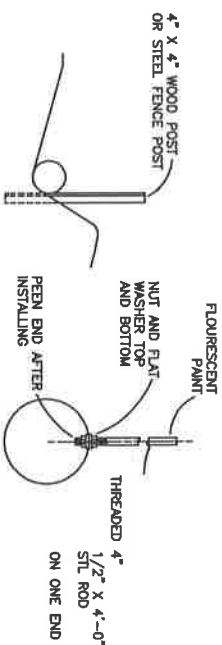
CATCH BASIN



BEDDING OF CULVERTS



CULVERT INSTALLATION TYPES



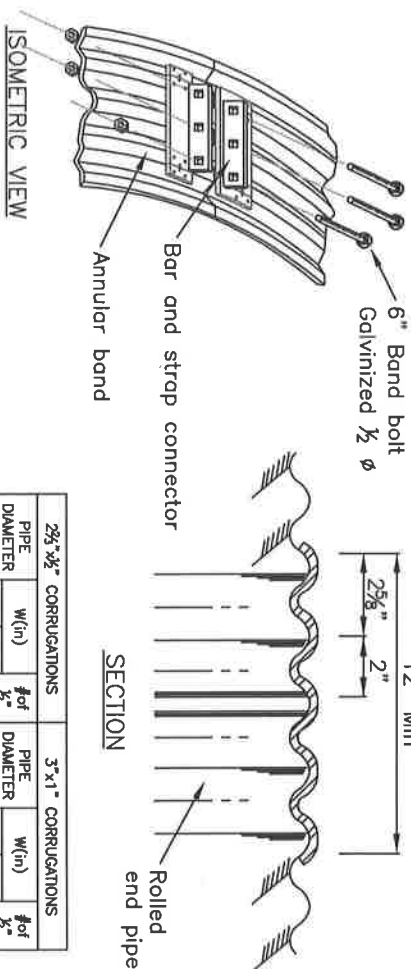
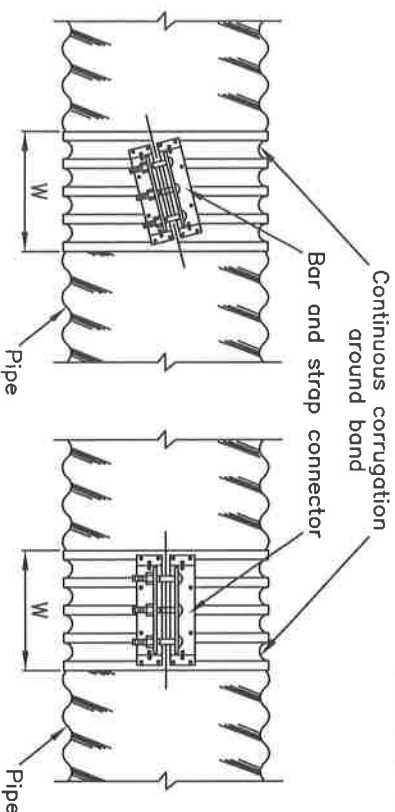
CULVERT MARKER INSTALLATION

CULVERT INSTALLATION DETAILS

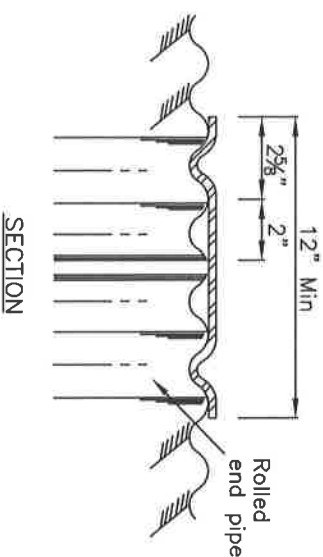
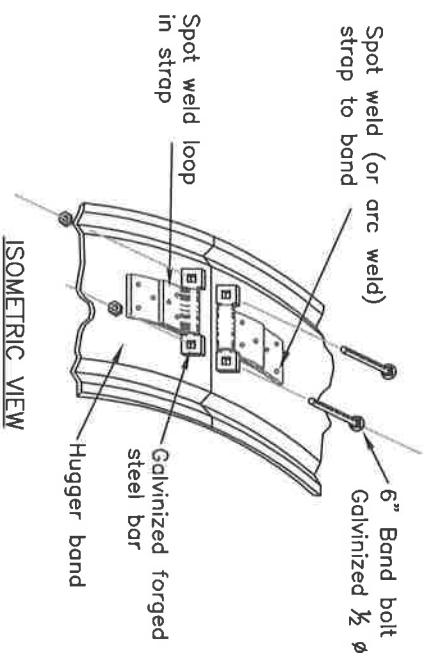
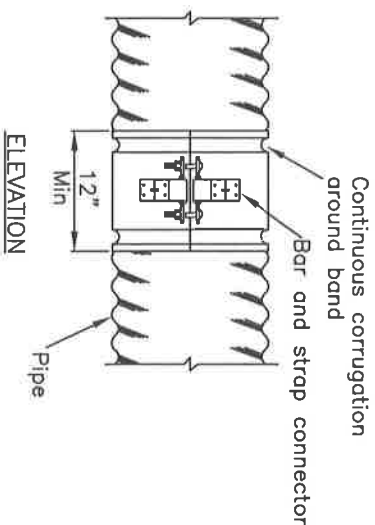
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
DRAWN	JMR	SCALE	NONE
DATE	June 2015	SHEET	1 OF 1
DRAWING NO.	OR 117-TS15-16-C6		

FULL CORRUGATED BAND

EXHIBIT C 7
SHEET 1 OF 1



"HUGGER" BAND



2 3/4" x 1/2" CORRUGATIONS				3" x 1" CORRUGATIONS			
PIPE DIAMETER (in)	W(in)	# of 1/2" Bolts	PIPE DIAMETER (in)	W(in)	# of 1/2" Bolts		
6-10	7	7	36-84	14	14	3	
12-15	7	12	36-120	26	26	5	
18-84	12	12					
24-84	24	24					

Standard construction is 1 piece 12" thru 48" and 2 piece 54" and above.

The hugger coupler band or an approved equivalent coupler band shall be made of the same material and finish as the pipes joined. The coupler bands shall have a minimum width of 12 inches and may be two numerical thicknesses lighter than the gage or thickness designated for the conduit joined. The band shall be designed to be drawn together with two 1/2 inch bolts through the use of a bar and strap inward from the end of each of the conduit sections joined.

Annular corrugated couplers for pipe shall cover at least two outside crest corrugations on each recorrugated end.

CULVERT BAND DETAIL

REV. NO.	DESCRIPTION	DATE	APPROV.
1	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
DRAWN	JWR	SCALE	NONE
DATE	June 2015	SHEET	1 OF 1
DRAWING NO.	OR 117-TS15-16-C7		

TYPICAL CROWNED SURFACE

EXISTING MIN. BASE COURSE WIDTH

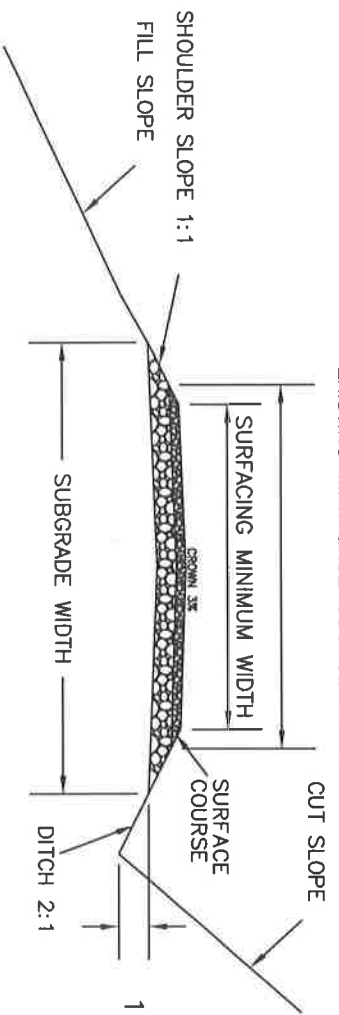
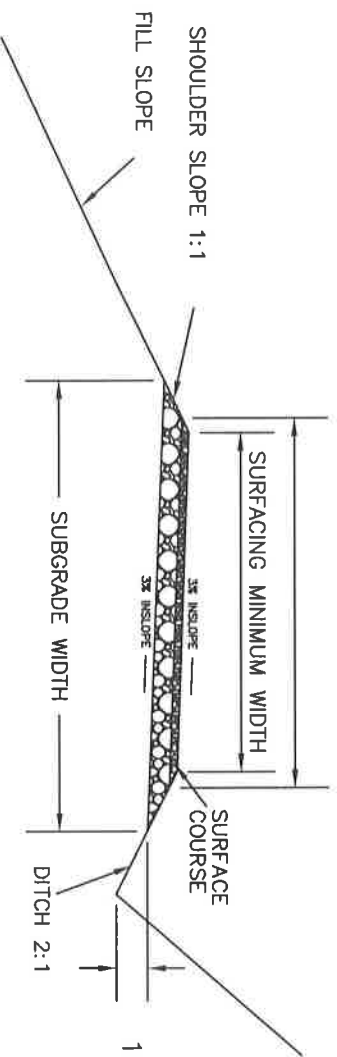


EXHIBIT C-8
SHEET 1 OF 1

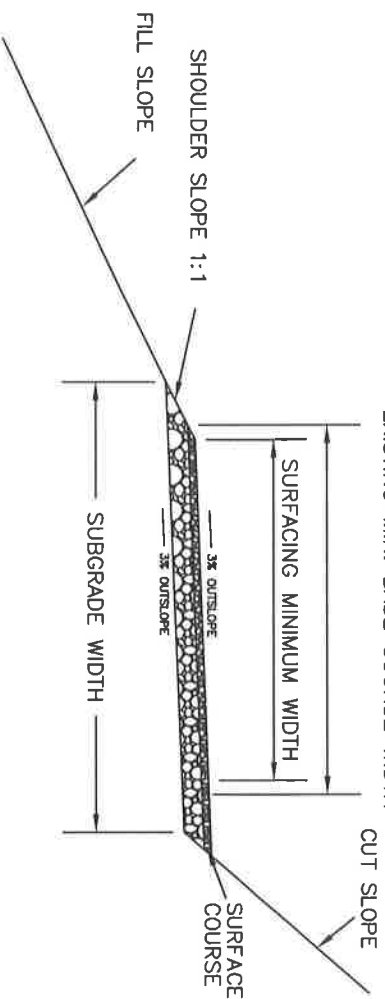
TYPICAL INSLOPED SURFACE

EXISTING MIN. BASE COURSE WIDTH



TYPICAL OUTSLOPED SURFACE

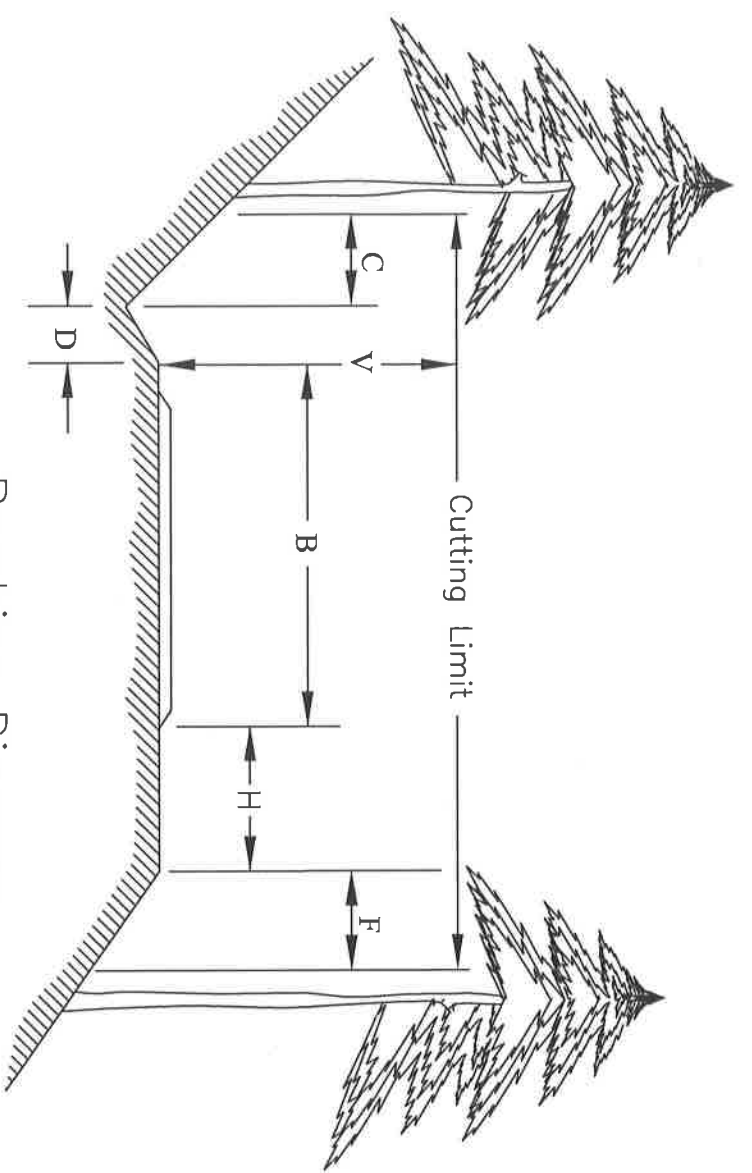
EXISTING MIN. BASE COURSE WIDTH



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

TYPICAL ROAD SURFACING SECTIONS

DRAWN: JMR	SCALE: AS SHOWN
DATE: JUNE 2015	SHEET 1 OF 1
DRAWING NO. OR 117-TS15-16-C8	



Brushing Diagram

Cutting Limit = $C + D + B + H + F$

B = Basic lane width (includes turnouts)
Width shall be determined by the PI

$C = \frac{4}{4}$ ft - Distance to be brushed on cut slope beyond centerline of ditch

D = Centerline of ditch to inside shoulder

H = Variable distance between edge of basic lane and outside shoulder (does not include turnout widths)

F = Distance to be brushed on fill slope beyond outside shoulder

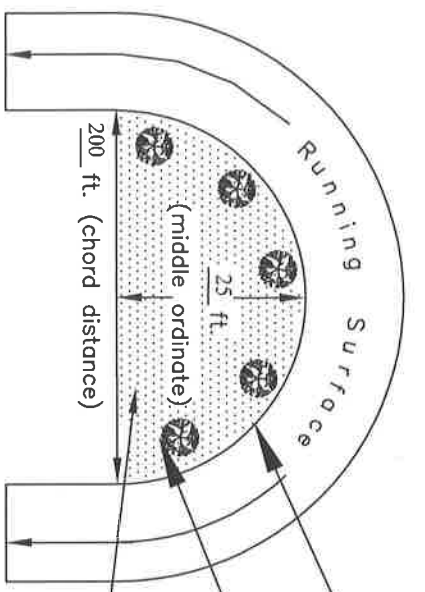
(F = $\frac{4}{4}$ when H is $\frac{4}{4}$ ft or less)

(F = $\frac{0}{0}$ when H is greater than $\frac{4}{4}$ ft)

V = $\frac{14}{14}$ ft - Height of vertical cutting limit

Typical Basic lane widths

- One lane low traffic volume 12 to 16 ft
- One lane medium traffic volume . . 16 to 20 ft
- Two lane high volume traffic 20 to 40 ft
- Turnouts 10 ft



Sight Distance Diagram

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

NOTES:

Cutting and Removal of vegetation from ditches and roadway is incidental to brushing within cutting limits.

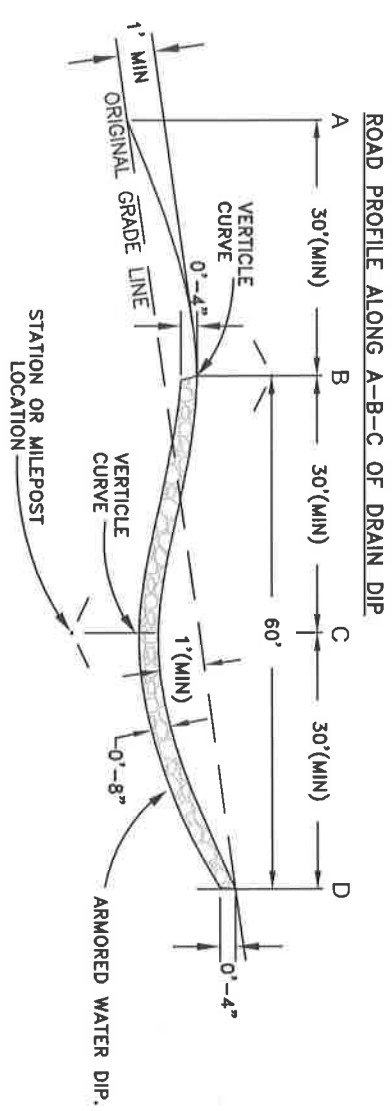
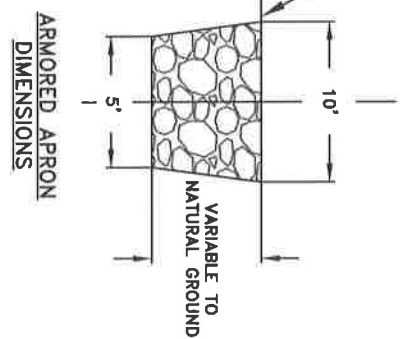
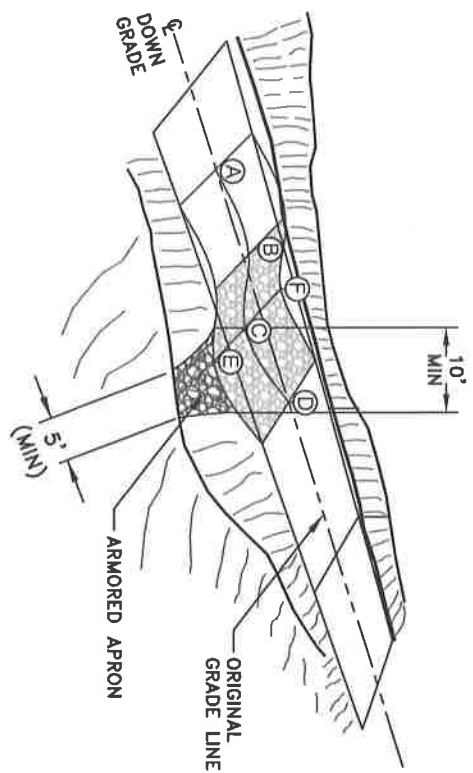
All distances shown are horizontal except for V

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
ROADSIDE BRUSHING			
DETAIL			
DRAWN	JWR	SCALE	NONE
DATE	June 2015	SHEET	1 OF 1
DRAWING NO.	OR 117-TS15-16-C9		

EXHIBIT C-10 SHEET 1 OF 1

NOTES

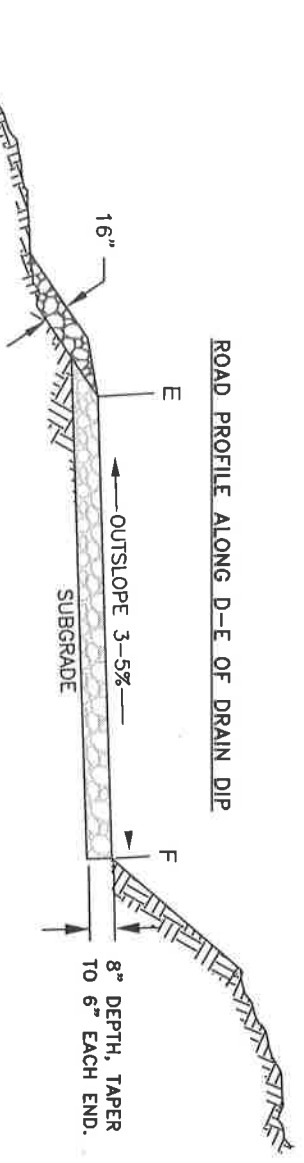
- 1) THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
- 2) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET.
- 3) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET.
- 4) SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE.
- 5) EXCAVATED SOIL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING OF VEGETATIVE MATTER IS PERMITTED.
- 6) PIT RUN MATERIAL SHALL BE PLACED ON FILL SLOPE AND SUBGRADE OF EACH ARMORED WATERDIP.
- 7) SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED.
- 8) EACH DIP SHALL BE REINFORCED WITH 30 CUBIC YARDS OF PIT RUN ROCK, ON ROADWAY AND OUTFALL.



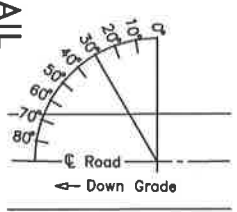
LEGEND

- CUT/FILL SLOPES
- SUBGRADE ARMOR MATERIAL (PIT RUN)
- FILL SLOPE ARMOR MATERIAL PIT RUN OR OTHER APPROVED MATERIAL.

ROAD PROFILE ALONG D-E OF DRAIN DIP



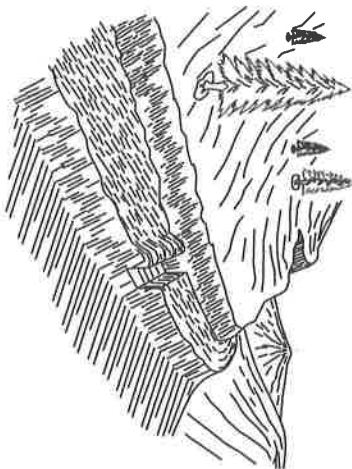
SKEW DIAGRAM



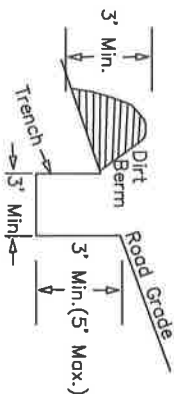
TYPICAL ARMORED WATER DIP CONSTRUCTION DETAIL

DRAWINGS NOT TO SCALE

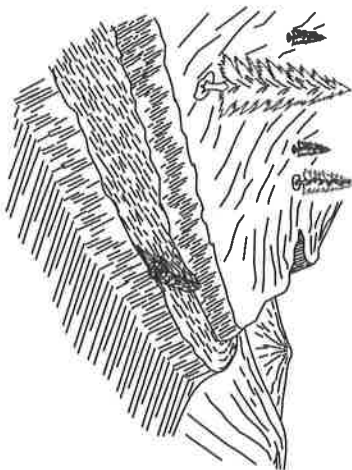
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT — MEDFORD, OREGON		
TYPICAL ARMORED WATER DIP CONSTRUCTION		
DRAWN BY JWR	SCALE NONE	
DATE June 2015	SHEET 1 OF 1	
DRAWING NO. OR 117-TS15-16-C10		



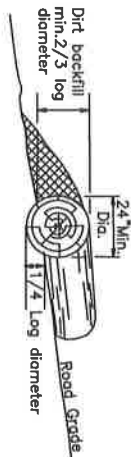
TRENCH BARRICADE



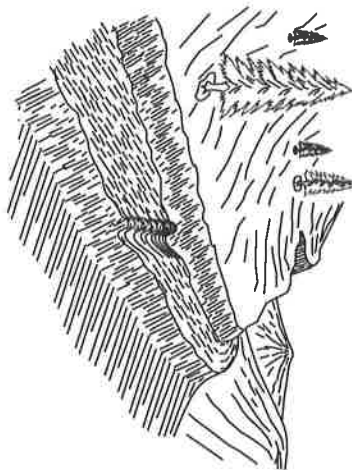
1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.



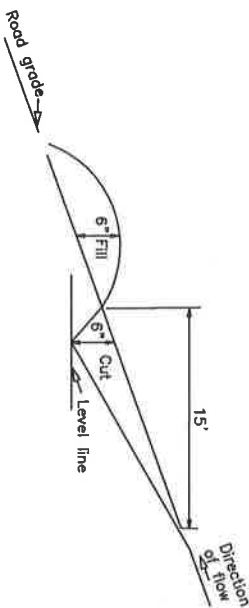
LOG BARRICADE



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

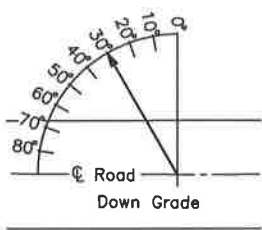


WATER BAR

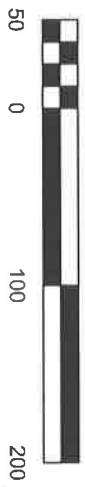


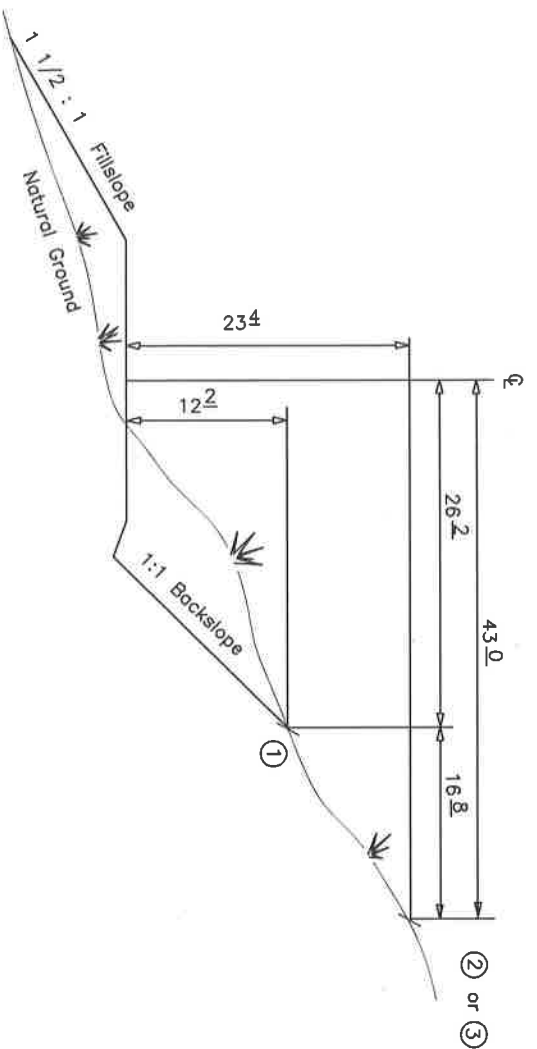
1. CROSS-DRAINS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL CROSS DRAINS SHALL BE SKEWED 30 DEGREES.
4. THE CROSS-DRAINS INVERT SHALL BE SMOOTH AND FREE DRAINING.

SKEW DIAGRAM

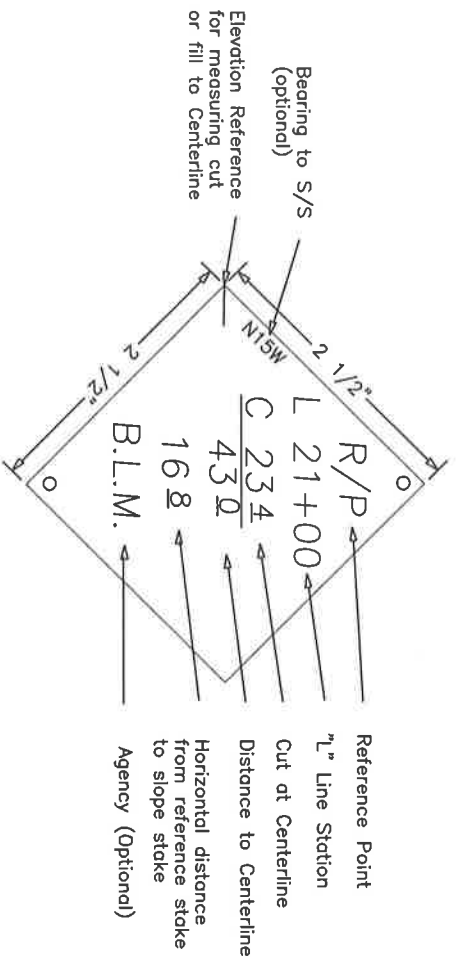


UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
DRAINAGE & EROSION CONTROL INSTALLATION			
DRAWN	DCM	SCALE	NONE
DATE	June 2015	SHEET	1 OF 1
DRAWING NO.	OR117-TS15-16-C11		

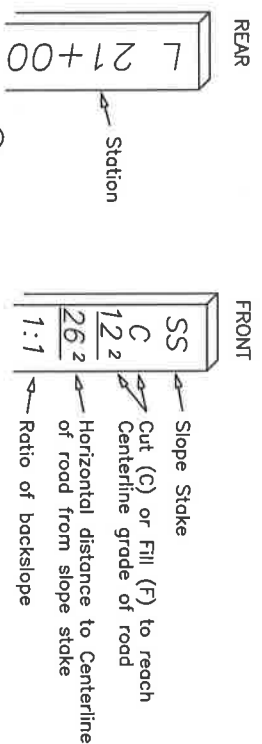




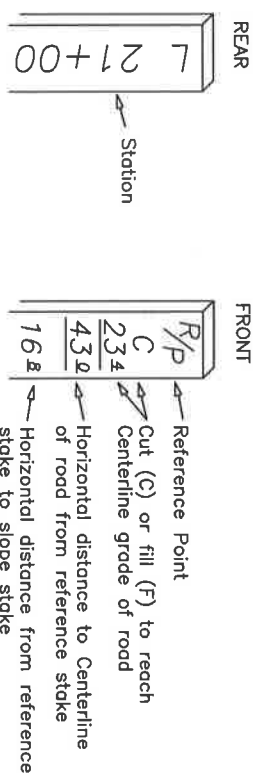
TYPICAL SLOPE STAKED
CROSS SECTION



TYPICAL REFERENCE TAG



TYPICAL SLOPE STAKE



TYPICAL REFERENCE STAKE

SOUTH FORK LITTLE BUTTE TIMBER SALE

Road Renovation Worklist

Renovation: This consists of road work to be performed on the road prior to its use. The work includes, but not limited to blading the road surface, brushing, cleaning catch basins, cleaning ditches, removing and installing culverts, reconstructing and constructing armored water dips, and placing crushed aggregate on approved road bed. Ditch cleaning shall only be done where ravel and other debris blocks the flow and causes erosion of the running surface.

Roads with camouflaged entrances shall consist of logs, slash, boulders and others debris placed along road entrances for a minimum of 100 feet or to the first curve or hillcrest to discourage vehicle use.

Temporary roads constructed shall be fully decommissioned at the completion of timber harvest activities. Full decommissioning shall include decompacting the surface to a depth of 12 to 18 inches, barricading the road, and camouflaging the entrance. Seeding with approved native seed species and mulching with weed-free straw or approved native materials.

Road barricades removed during timber operations shall be replaced immediately after use. For activities that are not finished in one dry season, barricades shall be re-installed before the wet season, October 15th.

Jct. – Junction

CY – Cubic Yards

CMP – Corrugated Metal Pipe

<u>Road 37-2E-15.00 E-F (Lost Deer Tie)</u>	
<u>Natural</u>	<u>14' Width</u>
<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-2E-24.01. Begin Brushing. Begin spot Blading.
0.03	Existing Steel Gate.
0.05	Jct. road to left.
0.13	Heavy Ruts
0.15	Construct Water Dip and Armor with 30 CY of 4" minus.
0.19	Construct Water Dip and Armor with 30 CY of 4" minus.
0.26	Construct Water Dip and Armor with 30 CY of 4" minus.
0.35	Construct Water Dip and Armor with 30 CY of 4" minus.
0.37	Construct Water Dip and Armor with 30 CY of 4" minus.
0.38	Existing Culvert
0.45	Jct. road to left.
0.46	Construct Water Dip and Armor with 30 CY of 4" minus.
0.55	Begin removing downed timber debris.
0.59	End Brushing. End Blading.

Road 37-2E-23.04 (Lazy Deer Spur)

Aggregate 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-2E-24.01. Begin Brushing. Begin Blading.
0.01	Existing Gate.
0.09	Existing Culvert clean catch basin.
0.25	Existing Culvert
0.37	Existing Culvert
0.40	Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.
0.49	Jct. 37-2E-14.00 to left. End Brushing. End Blading.

Road 37-2E-24.04

Aggregate/Natural 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-19.01.
0.07	Maintain Existing Water Dip
0.12	Jct. 37-2E-24.05 to right. End Aggregate surface. Begin Natural Surface. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet.
0.14	Remove existing barricade. Replace upon completion of log haul.
0.61	Existing Water Dip
0.69	Existing Water Dip
0.75	Existing Water Dip
0.80	Existing Water Dip
0.82	Begin Construction. End Brushing. End Blading.

Road 37-2E-25.03

Natural 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-2E-36.00. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.01	Remove existing barricade. Replace upon completion of log haul.
0.23	End Brushing. End Blading.

Road 37-2E-25.05 (Deer Cr. Spur)

Pit Run 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-2E-36.00. Begin Brushing. Begin light Blading.
0.05	Maintain Existing Water Dip
0.09	Remove existing barricade. Replace upon completion of log haul. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.17	Existing Water Bar
0.21	Existing Water Bar
0.24	Existing Water Bar

0.30 Begin removing downed timber debris.
0.46 End Brushing. End Blading.

Road 37-2E-36.00 (Lost Deer)
Pit Run 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-2E-13.00. Begin Brushing. Begin light Blading.
0.13	Jct. 37-2E-25.05 to left.
0.15	Existing Gate. Remove gate replace with earth berm barricade upon completion of log haul. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.22	Existing Culvert clean catch basin.
0.30	Maintain Existing Water Dip
0.35	Existing Culvert
0.47	Jct. 37-2E-25.03 to left.
0.60	End Brushing. End Blading.

Road 37-3E-18.04 (Soda Creek Spur)
Aggregate/Natural 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-3E-18.01. Begin Brushing.
0.01	Reconstruct Water Dip to drain and Armor with 30 CY of 4" minus.
0.06	Maintain Existing Water Dip
0.07	Existing Gate
0.12	Maintain Existing Water Dip
0.20	Maintain Existing Water Dip
0.46	Existing slide 3' depth 11' width. Relocate road 3 feet to left into cut bank. Utilize cut bank material as fill.
0.58	End Aggregate surface begin Natural surface. Begin Blading.
0.71	End Brushing. End Blading.

Road 37-3E-18.05 (Soda Creek Spur)
Natural 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-3E-18.01. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.01	Remove existing barricade. Replace upon completion of log haul.
0.07	End Brushing. End Blading.

<u>Road 37-3E-19.00 (W. Soda)</u>	
<u>MP</u>	<u>Aggregate 16' Width</u>
<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-17.00. Begin Brushing.
0.01	Existing Culvert
0.03	Jct. 37-3E-19.04 to left.
0.10	Existing Culvert
0.19	Existing Culvert
0.23	Jct. 37-3E-19.05 to left.
0.28	Existing Culvert
0.60	Existing Culvert
0.65	Jct. 37-3E-20.01 to left.
0.73	Existing Culvert
0.79	Existing Culvert
0.92	Existing Culvert
1.09	Existing Culvert
1.24	Existing Culvert
1.38	Existing Culvert
1.45	Existing Culvert
1.50	Jct. 37-3E-29.00 to left.
1.51	Existing Culvert
1.57	Existing Culvert
1.75	Existing Culvert
1.87	Existing Culvert
2.08	Existing Culvert
2.16	Existing Culvert
2.52	Existing Culvert
2.59	Existing Culvert
2.66	Existing Culvert
2.80	Existing Culvert
2.90	Existing Culvert
3.00	Jct. 37-3E-29.01 to left. Begin Light Blading.
3.13	Existing Culvert clean catch basin.
3.16	Jct. 37-3E-29.02 to right.
3.23	Existing Culvert clean catch basin.
3.29	Existing Culvert clean catch basin.
3.45	Existing Culvert clean catch basin.
3.49	Existing Culvert clean catch basin.
3.60	End Brushing. End Blading.

Road 37-3E-21.01 (Poole Hill Spur A)

Natural 14' Width

<u>MP</u>	<u>Remarks</u>
0.21/0.00	Jct. with USFS 830. Begin Brushing. Begin Blading.
0.05	Jct. road to left.
0.06	Jct. road to left.
0.34	End Blading. Begin placement of filter fabric on unprepared road surface and rock at 6" depth.
0.51	End placement of filter fabric and rock at 6" depth. Begin Blading.
0.64	End Brushing. End Blading.

Road 37-3E-21.02 (Poole Hill Spur B)

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with USFS 830. Begin Brushing. Begin Blading.
0.04	Existing Powder River gate
0.22	Large rocks in surface cover to haul.
0.44	End Brushing. End Blading.

Road 37-3E-30.04 (Soda Creek Spur)

Aggregate 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-19.01. Begin Brushing. Begin Blading. Begin placing 3/4" minus at 6" depth for 200 feet.
0.03	Maintain Existing Water Dip
0.08	Maintain Existing Water Dip
0.12	Jct. 37-3E-30.06 to right.
0.48	Maintain Existing Water Dip
0.50	End Brushing. End Blading.

Road 37-3E-32.05

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-3E-32.00. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.01	Remove existing barricade. Replace upon completion of log haul.
0.93	End Brushing. End Blading.

Road 38-2E-1.00

Natural 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-2E-11.00. Begin Brushing. Begin Blading.
0.02	Remove gate posts.
0.06	Construct Water Dip and Armor with 30 CY of 4" minus.

0.11	Jct. 38-2E-1.04 to right.
0.12	Construct Small Water Dip skew and drain to left Armor with 30 CY of 4" minus.
0.16	Reconstruct Water Dip to drain to right Armor with 30 CY of 4" minus.
0.20	Jct. with 38-2E-1.06. Construct Earth Berm Barricade to close 38-2E-1.06 road. End Brushing. End Blading.

Road 38-2E-1.01 9 Shale Conde Divide)**Natural****14' Width**

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-2E-11.00. Fully Decommission entire length of road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Camouflage road entrance with debris for 100 feet. Seed and mulch.
0.02	Construct Earth Berm Barricade
0.14	Property Line End Decommissioning.

Road 38-2E-1.04**Natural****14' Width**

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-2E-1.00. Begin Brushing. Begin Blading.
0.19	Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.
0.24	Remove downed timber debris. Utilize trees to help discourage vehicle traffic at beginning of 38-2E-1.06.
0.32	End Brushing. End Blading.

Road 38-2E-1.05**Natural****12' Width**

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-2E-13.00. Begin Brushing. Begin Light Blading.
0.01	Existing Gate
0.16	Existing Culvert
0.30	Existing turn around. End Brushing. End Blading

Road 38-2E-1.06**Natural****14' Width**

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-2E-1.00. Construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.01	Construct Earth Berm Barricade
0.35	End Road

Road 38-2E-3.01 (Shale Divide A Spur)

Aggregate 16' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-2E-7.02. Begin Brushing. Begin Light Blading.
0.11	Existing Culvert
0.23	Existing Culvert
0.50	Existing Culvert
0.56	Existing Culvert
0.59	Jct. 38-2E-3.02 to left.
0.61	Existing Culvert
0.72	Existing Culvert
0.90	Existing Culvert
1.00	Existing Culvert. Repair drainage damage place 1/2 CY of 4" minus for backfill.
1.02	Jct. 38-2E-3.08 to right. End Brushing. End Blading.

Road 38-2E-3.08 (Lost Deer)

Pit Run 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-2E-3.01. Begin Brushing. Begin Light Blading.
0.14	Jct. private road to left.
0.21	Jct. private road to left.
0.45	Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.
0.57	Reconstruct Water Dip to drain Armor with 30 CY of 4" minus..
0.62	Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.
1.00	End Brushing. End Blading.

Road 38-3E-5.00 (Conde Ck Exten Sp 2)

Aggregate 16' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-17.00. Begin Light Blading.
0.01	Existing Culvert clean catch basin.
0.08	Existing Culvert clean catch basin.
0.22	Maintain Existing Water Dip
0.28	Existing Culvert
0.38	Maintain Existing Water Dip
0.54	Maintain Existing Water Dip
0.62	Maintain Existing Water Dip
0.67	Maintain Existing Water Dip
0.78	Maintain Existing Water Dip
1.00	Begin Brushing.
1.19	Jct. 38-3E-5.03 to right.
1.46	End Brushing. End Blading.

Road 38-3E-11.00 (Shell Peak)

Pit Run 16' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with Dead Indian Memorial Highway. Begin Brushing.
0.03	Existing Cattle Guard
0.26	Jct. 38-3E-11.05 to left.
0.35	Jct. 38-3E-11.04 to left.
0.44	Jct. 38-3E-11.06 to left.
0.88	Jct. 38-3E-11.08 to left. End Brushing.

Road 38-3E-11.06

Grid Rolled 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-11.00. Begin Brushing.
0.47	Jct. 38-3E-11.07 to left.
0.59	Turn Around End Brushing.

Road 38-3E-11.07

Natural 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-11.06. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.01	Remove existing barricade. Replace upon completion of log haul.
0.14	End Brushing. End Blading.

Road 38-3E-19.00 D (Buck Prairie)

Aggregate 16' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with Hyatt Prairie Road. Begin Brushing.
0.01	Existing Culvert
0.15	Existing Culvert
0.28	Jct. 38-3E-23.01 to left.
0.54	Existing Culvert
0.69	Existing Culvert
0.77	Jct. 38-3E-22.00 to right.
1.14	Jct. 22-2 to right.
1.19	Existing Culvert
1.38	Jct. 22-1 to left.
1.57	Jct. 38-3E-23.04 to left.
1.58	Existing Culvert
1.59	Jct. 38-3E-27.01 to left.
1.60	Jct. 38-3E-27.00 to right. End Brushing.

Road 38-3E-20.00 (W Fork Dead Indian Sp II)

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-21.02. Begin Brushing. Begin Blading.
0.23	Existing Culvert
0.33	Heavy Rutted Area
0.39	Existing Culvert
0.63	Existing Culvert clean catch basin. Jack inlet open.
0.70	Existing Culvert
0.80	Jct. with 38-3E-29.00. End Brushing. End Blading.

Road 38-3E-20.01 (Buck Prairie Spur)

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-29.00. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.01	Remove existing barricade. Replace upon completion of log haul.
0.19	End Brushing. End Blading.

Road 38-3E-21.00 (Burnt Indian)

Aggregate 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with Dead Indian Memorial Highway. Begin Brushing.
0.06	Jct. Unknown road to left.
0.08	Existing Water Dip
0.12	Existing Water Dip
0.21	Existing Cattle Guard
0.29	Existing Culvert and Stream Crossing
0.32	Existing Cattle Guard
0.36	Jct. 38-3E-21.01 to right.
0.54	Existing Water Dip
0.56	Jct. 38-3E-21.03 to left.
0.58	Existing Water Dip
0.67	Jct. 38-3E-21.02 to right. End Brushing.

Road 38-3E-21.02

Aggregate 14' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-21.00. Begin Brushing.
0.27	Existing Water Dip
0.44	Existing Water Dip
0.60	Jct. 38-3E-20.00 to right. End Brushing.

Road 38-3E-22.00**Natural****14' Width****MP****Remarks**

0.00 Jct. with 38-3E-19.00. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.

0.01 Remove existing barricade. Replace upon completion of log haul.

0.40 End Brushing. End Blading.

Road 38-3E-23.01**Natural****14' Width****MP****Remarks**

0.00 Jct. with 38-3E-19.00. Begin Brushing. Begin Blading.

0.01 Existing Culvert

0.12 Jct. 38-3E-23.03 to right. End Brushing. End Blading.

Road 38-3E-23.03**Natural****12' Width****MP****Remarks**

0.00 Jct. with 38-3E-23.01. Begin Brushing. Begin Blading.

0.05 Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.

0.09 Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.

0.15 Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.

0.32 Jct. 38-3E-23.04 to left. End Brushing. End Blading.

Road 38-3E-23.04**Natural****14' Width****MP****Remarks**

0.00 Jct. with 38-3E-23.03. Begin Brushing. Begin Blading.

0.09 Construct Water Dip and Armor with 30 CY of 4" minus.

0.15 Construct Water Dip and Armor with 30 CY of 4" minus.

0.34 Jct. Temp Spur 23-1 to right. End Brushing. End Blading.

Road 38-3E-27.00**Aggregate/Natural****14' Width****MP****Remarks**

0.00 Jct. with 38-3E-19.00. Begin Brushing.

0.02 Existing Culvert

0.09 Existing Culvert

0.29 Existing Culvert

0.30 Jct. 38-3E-27.03 to left.

0.45 Existing Culvert clean catch basin and outlet.

0.49 Jct. 38-3E-27.02 to right.

0.63 End Aggregate surface. Begin Natural surface.

0.66 Existing Culvert. Begin spot blading.

0.82	Begin placing borrow rock entire width of road.
0.89	End placing borrow.
0.98	Begin placing borrow rock entire width of road for 30 feet.
0.99	Jct. road to right.
1.02	Begin placing borrow rock to level and smooth road grade.
1.12	End placing borrow.
1.14	Begin placing borrow rock entire width of road for 30 feet.
1.18	Begin placing borrow rock to level and smooth road grade.
1.27	End placing borrow. Jct. road to right.
1.29	Begin placing borrow rock entire width of road for 50 feet.
1.31	Begin placing borrow rock to level and smooth road grade.
1.34	End placing borrow.
1.46	Existing Culvert
1.47	End Brushing. End Blading.

Road 38-3E-27.02 (Dead Indian Crk Spur)**Natural****12' Width**

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-27.0. Begin Brushing. Begin Blading. Upon completion of log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.02	Upon completion of log haul install barricade.
0.35	End Brushing. End Blading.

Road 38-3E-27.03**Pit Run****12' Width**

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-27.0. Begin Brushing.
0.13	Begin removing downed timber debris.
0.33	Existing Culvert
0.60	End Brushing.

Road 38-3E-29.00**Pit Run****14' Width**

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-19.00. Begin Brushing. Begin light Blading.
0.18	Existing Culvert
0.31	Jct. 38-3E-29.01 to right.
0.38	Existing Culvert
0.36	Existing Culvert
0.61	Jct. 38-3E-20.00 to right.
0.67	Existing Gate
0.68	Jct. 38-3E-20.01 to left. End Brushing. End Blading.

Road USFS 830

Natural

14' Width

MP

Remarks

0.00 Jct. with USFS 800. Begin Brushing. Begin Blading.
0.01 Existing Steel Mega Gate
0.04 Maintain Existing Water Dip
0.09 Maintain Existing Water Dip
0.13 Jct. 37-3E-21.01 to left.
Existing Culvert
Fill large puddle and rock road with 30 Cy of crushed aggregate. Reconstruct
Catch Basin and Open ditchline along road to drain into existing culvert.
0.17 Reconstruct Water Dip to drain Armor with 30 CY of 4" minus.
0.21 Road changes to BLM 37-3E-21.01. End Brushing. End Blading.

Road USFS 831

Natural

14' Width

MP

Remarks

0.00 Jct. with USFS 830. Begin Brushing. Begin Blading.
0.02 Maintain Existing Water Dip
0.05 Maintain Existing Water Dip
0.09 Jct. 37-3E-21.02 to right. End Brushing. End Blading.

Road T37 R2E Spur 23-2

Natural

12' Width

MP

Remarks

0.00 Jct. with 37-2E-24.0. Begin Brushing. Begin Spot Blading. Upon completion of
log haul construct waterbars every 200 feet and camouflage entrance for 100 feet.
0.01 Remove existing barricade. Replace upon completion of log haul.
0.09 End Brushing. End Blading.

Road T37 R2E Spur 25-3

Natural

12' Width

MP

Remarks

0.00 Jct. with 37-2E-25.03. Begin Brushing. Begin Spot Blading. Upon completion of
log haul Fully Decommission entire length of road using mechanical treatment to
de-compact road surface to a depth 12 to 18 inches. Install Barricade and
Camouflage road entrance with debris for 100 feet. Seed and mulch.
0.10 End Brushing. End Blading.

Road T37 R3E Spur 30-3

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 37-3E-31.01. Begin Brushing. Begin Spot Blading. Upon completion of log haul Fully Decommission entire length of road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.
0.10	End Brushing. End Blading.

Road T38 R3E Spur 21-1

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with Dead Indian Memorial Highway. Construct approach off of Highway as per Jackson County Permit. Place 3/4" minus crushed aggregate surface for 100 feet. Install temporary 18" CMP as required in permit in existing ditch line along Dead Indian Memorial Highway. Upon completion of log haul remove all improvements and restore shoulder rock and ditch line. Fully Decommission entire length of road beyond ditch line using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.
0.10	End Brushing. End Blading.

Road T38 R3E Spur 22-1

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-19.0. Begin Brushing. Begin Spot Blading. Upon completion of log haul Fully Decommission entire length of road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.
0.09	End Brushing. End Blading.

Road T38 R3E Spur 22-2

Natural 12' Width

<u>MP</u>	<u>Remarks</u>
0.00	Jct. with 38-3E-19.0. Begin Brushing. Begin Blading. Begin placing crushed aggregate surface at 6" depth.
0.04	End Brushing. End Blading. End aggregate placement.

Temporary Spur T37 R2E Temp 13-1**Natural****12' Width****MP****Remarks**

0.00

Jct. with 37-3E-18.04. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.05

End Construction. End Soil Stabilization.

Temporary Spur T37 R2E Temp 17-1**Natural****12' Width****MP****Remarks**

0.00

Jct. with 37-2E-7.02. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.86

End Construction. End Soil Stabilization.

Temporary Spur T37 R2E Temp 17-2**Natural****12' Width****MP****Remarks**

0.00

Jct. with Temp. Spur 17-1. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.24

End Construction. End Soil Stabilization.

Temporary Spur T37 R2E Temp 25-1**Natural****12' Width****MP****Remarks**

0.00

Jct. with 37-2E-36.0. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.07

End Construction. End Soil Stabilization.

Temporary Spur T37 R2E Temp 25-2**Natural****12' Width****MP****Remarks**

0.00

Jct. with Temp. Spur 25-1. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.03

End Construction. End Soil Stabilization.

Temporary Spur T37 R2E Temp 25-3**Natural****12' Width****MP****Remarks**

0.00

Jct. with Road T37 R2E Spur 23-2. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.04

End Construction. End Soil Stabilization.

Temporary Spur T37 R3E Temp 18-1**Natural****12' Width****MP****Remarks**

0.00

Jct. with 37-3E-18.06. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.05

End Construction. End Soil Stabilization.

Temporary Spur T37 R3E Temp 20-1**Natural****12' Width****MP****Remarks**

0.00

Jct. with 37-3E-21.01. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.05

End Construction. End Soil Stabilization.

Temporary Spur T37 R3E Temp 30-1**Natural****12' Width****MP****Remarks**

0.00

Jct. with 37-3E-30.04. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.12

End Construction. End Soil Stabilization.

Temporary Spur T38 R3E Temp 20-2**Natural****12' Width****MP****Remarks**

0.00

Jct. with 38-3E-20.01. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.14

End Construction. End Soil Stabilization.

Temporary Spur T38 R3E Temp 23-1**Natural****12' Width****MP****Remarks**

0.00

Jct. with 38-3E-23.04. Begin Construction. Begin Soil Stabilization of fill slope. Upon completion of log haul Fully Decommission entire length of temporary road using mechanical treatment to de-compact road surface to a depth 12 to 18 inches. Install Barricade and Camouflage road entrance with debris for 100 feet. Seed and mulch.

0.46

End Construction. End Soil Stabilization.

SPECIAL PROVISIONS

1. Before beginning road construction operations for the first time or after a shutdown of seven or more days, the Purchaser shall notify the Authorized Officer of the date he plans to begin operations. The Purchaser shall also notify the Authorized Officer if he intends to cease operations for any period of 30 or more days.
2. Winterized - All road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway by water barring, maintaining drainage, barricades, and any additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer.
3. The P-line as staked in the field and as shown on Exhibit C, are intended to be used as a control, and should be considered as being in the area of the finished grade.
4. Proposed rock sources: Shale Divide BLM Quarry - 4" Minus for Armored Waterdips
Soda Canyon BLM Quarry - 4" Minus for Armored Waterdips
Buck Prairie BLM Quarry – Borrow Material for 38-3E-27.00
BLM Stockpiles – Soda Canyon Quarry and Conde Creek Quarry
Commercial Source
5. Seed mix and Straw sources: At agency discretion

A) Provided from BLM: based on availability
OR
B) Purchased from approved Commercial source:
6. The application of dust abatement materials such as Lignin or approved petroleum based dust abatement products shall be restricted from application just after wet weather or at stream crossings or other locations that could result in direct delivery to a water body.
7. Water sources/ Pump chances – Listed are approved water sources. Other water sources shall be approved by the Authorized Officer prior to use. The Purchaser is responsible for all permits and fees from water sources on private or commercial sources.

Location:		
<u>ROAD # and NAME</u>		<u>MP</u>
39-7E-31.00	Skinny Dip Quarry	0.64
38-2E-27.00	Sharon Lakes Quarry	0.53
38-3E-17.00	Conde Creek Road	2.52

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD SPECIFICATIONS

Jackson County, Oregon

INDEX

SPECIAL PROVISIONS

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GENERAL – 100

101 - Prewrite Conference(s):

A prework conference will be held prior to the start of new construction, improvements, reconstruction, quarry development, surfacing, and soil stabilization. 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 representatives, subcontractors and/or his or their representatives and the Authorized Officer and/or his representatives.

The purpose will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractors. A Prewrite conference shall be scheduled at the work site for quarry development.

102 - Definitions:

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

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

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

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

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

Road Centerline - Longitudinal center of roadbed.

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

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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 maximum density of soil.
Method A - 4" mold, soil passing a No. 4 Sieve.
25 blows/layer & 3 layers.
Method D - 6" mold, soil passing a 19.00mm 3/4
inches sieve. 56 blows/layer & 5
layers.

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.

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 210 Durability of aggregates based on resistance to produce fines.

AASHTO T 224 Correction for coarse particles in the soil.

AASHTO T 238 Determination of density of soil and soil aggregates in place by nuclear methods.

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

DES. E-12 Determination of relative density of cohesionless soils.

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

103 - Compaction equipment shall meet the following requirements:

103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM),

corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

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

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

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

CLEARING AND GRUBBING - 200

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

202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend (3) feet back of the top of the cut slope and (2) feet out from the toe of the fill slope.

202b - Where clearing limits for borrow pits, quarries, and stockpile sites have not been staked or shown on the plans, the limits shall extend (5) feet back of the top of the cut slope and (5) feet outside of the outside slope lines.

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

203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing, unless otherwise authorized.

204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground, and protruding obstacles remaining as a result of the clearing operation between the top of the cut slope and the toe of the fill slope.

- *205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- *210 - Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- 302 - Excavation shall 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 or metal tags.
- 303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 304 - Borrow shall consist of suitable material required for the construction of embankments or for other portions of the work; such material shall be obtained from sources shown on the plans and as shown in these specifications.
- 305 - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans, and as marked on the ground with stakes or metal tags.
- 305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material and other deleterious materials and shall be placed and compacted as specified.

- 305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding (8) inches in depth.
- 305c - Embankments formed of material containing less than (25) percent rock not larger than (8) inches in the greatest dimension shall be placed in (12)-inch layers. Material containing more than (25) percent rock not larger than (12) inches in the greatest dimension shall be placed in successive layers not exceeding (2) feet in thickness. Individual rocks and boulders greater than (12) inches in diameter may be used to construct (2) foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- 306 - Layers of selected borrow and selected roadway excavation material as specified under Subsections 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f, 103g, and 103h.
- 306a - Minimum compaction for each layer of embankment and selected roadway excavation material placed shall be 1 hour of continuous compacting for each 150 cubic yards.
- 306e - The final subgrade including landings shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f, 103g, and 103h. Minimum compaction shall be 1 hour of continuous compacting for each (6) stations of road or a fraction of as measured along the centerline of the constructed road. Landings and shall be compacted by routing construction equipment over full width.
- 306f - Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures.
- 308 - In the case of rock fills, placement of material in layers is not required and such material may be placed by end-dumping or other methods approved by the Authorized Officer provided that the rock be reasonably prevented from escaping beyond the embankment toe.
- 312 - 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.

- 313 - In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of (6) inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306a.
- 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 306a. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- 321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321b.
- 321b - Excess construction material as specified under Subsection 321 shall be loaded, hauled and disposed of at a disposal site as approved by the Authorized Officer.
- 323 - In the construction of channel changes and stream crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.
- *324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of (2) feet on the uphill side.

PIPE CULVERTS - 400

- 401 - This work shall consist of furnishing and installing pipe culverts 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.

- 403 - Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade. Grade culverts shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- 404 - Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated and aluminum-rich paint on aluminum or aluminum-coated pipe.
- *405a - Corrugated-aluminized steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274, or AASHTO M 289 as specified on the plans.
- *406 - 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.
- 406a - "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.
- 407 - 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.
- 408 - 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 types 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.
- *412 - 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 compactible soil material.

- 413 - Pipe culverts shall be bedded on a selected granular, crushed rock material in accordance with Section 1200 gradation (E-1), or fine readily compactable soil material having a depth of not less than 6 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- 416 - Side-fill material for pipe culverts 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 from stockpiles shown on the plans, 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.
- 417 - For pipe culverts, 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.
- 419 - 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.
- 423 - Construction of catch basins and ditch dams conforming to lines, grades, dimensions and typical diagrams shown on Exhibit C, included in the plans, shall be required for all culverts.
- 427 - The Purchaser shall record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.
- 428 - 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.
- 429 - Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site. 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 OF EXISTING ROADS - 500

- 501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, 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.
- 501a - This work shall include the removal and disposal of slides in accordance with these specifications.
- 502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes at the following locations:

Road No.	From	To
37-2E-15.00 E-F	0.00	0.59
37-2E-23.04	0.00	0.49
37-2E-24.04 B	0.12	0.82
37-2E-25.03	0.00	0.23
37-2E-25.05	0.00	0.46
37-2E-36.00	0.00	0.60
37-3E-18.04	0.58	0.71
37-3E-18.05	0.00	0.07
37-3E-19.00	3.00	3.60
37-3E-21.01	0.00	0.64
37-3E-21.02	0.00	0.44
37-3E-30.04	0.00	0.50
37-3E-32.05	0.00	0.93
38-2E-1.00	0.00	0.20
38-2E-1.04	0.00	0.32
38-2E-1.05	0.00	0.30
38-2E-3.01	0.00	1.02
38-2E-3.08	0.00	1.00
38-3E-5.00	0.00	1.46
38-3E-11.07	0.00	0.14
38-3E-20.00	0.00	0.80
38-3E-20.01	0.00	0.19
38-3E-22.00	0.00	0.40

Road No.	From	To
38-3E-23.01	0.00	0.12
38-3E-23.03	0.00	0.32
38-3E-23.04	0.00	0.34
38-3E-27.00	0.66	1.47
38-3E-27.02	0.00	0.35
38-3E-29.00	0.00	0.68
USFS 830	0.00	0.21
USFS 831	0.00	0.09
T37 R2E Spur 23-2	0.00	0.09
T37 R2E Spur 25-3	0.00	0.10
T37 R3E Spur 30-3	0.00	0.10
T38 R3E Spur 21-1	0.00	0.10
T38 R3E Spur 22-1	0.00	0.09
T38 R3E Spur 22-2	0.00	0.04

- 502a - Rocks larger than (4) inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 506 - The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of all pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- 507 - The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 5 days notice prior to final inspection of the grading operations.

WATERING - 600

- 601 - This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds laying dust, or for other uses in accordance with these specifications.
- 602 - Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods.
- 603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the roadbed.
- 605 - 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 SURFACE COURSE - 1200
CRUSHED ROCK MATERIAL

- *1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock materials on the approved roadbeds in accordance with these specifications and conforming to the lines, grades, 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.
- *1202 - Crushed rock materials used in this work shall consist of quarry rock, stone, gravel, or other approved materials obtained from source(s) shown on the plans.
- 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 these specifications.
- *1203 - 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 face(s). If necessary to meet the above requirements, or to eliminate an excess of filler, the gravel shall be screened before crushing.

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

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

Sieve Designation	GRADATION					
	C	C-1	(D)	D-1	E	E-1
1-1/2 inch	100	100	-	-	-	-
1 inch	-	-	100	100	-	-
3/4 inch	50-90	60-90	-	70-94	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	-	20-47	-	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	2-12	2-15	3-15

- *1205 - 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 T 210.
- *1207 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limits of not more than (35), and a plasticity index of not less than (4) and not more than (12) as determined by AASHTO T 89 and AASHTO T 90.
- 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:

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

- 1208 - If additional binder or filler material is necessary to meet the grading or plasticity requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- *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.
- *1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. 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.
- 1211 - Crushed rock material shall be compacted by routing construction and hauling equipment over the full width of each layer placed.
- 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 1 hour of continuous compacting for each 150 cubic yards or fraction thereof, of crushed rock material placed per layer.
- 1215 - The Purchaser is authorized to remove Gradation D crushed rock material, stockpile measure, from BLM stockpiles, for placement on the roads, in accordance with the requirements and details shown on the plans, and as follows:

<u>Stockpile</u>	<u>Willamette Meridian</u>			<u>Approximate Cubic Yards</u>	<u>Grad.</u>	<u>Road Number</u>
	<u>Section</u>	<u>T.</u>	<u>R.</u>			
<u>Conde Creek</u>	<u>17</u>	<u>38</u>	<u>3E</u>	<u>230 cy</u>	<u>D</u>	38-3E-17.00
<u>Soda Canyon</u>	<u>29</u>	<u>37</u>	<u>37</u>	<u>350 cy</u>	<u>D</u>	37-3E-29.01
<u>Lower Conde</u>	<u>19</u>	<u>37</u>	<u>37</u>	<u>50 cy</u>	<u>D</u>	38-3E-17.00

The Purchaser shall maintain records of material removed from each of the stockpile sites designated above. These records shall be submitted to the Authorized Officer upon completion of the surfacing operation.

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

GEOTEXTILES - 1300

- 1301 - This work shall consist of furnishing, hauling, and installing geotextile material at the locations and in accordance with these specifications and the lines, grades, dimensions, and typical cross sections shown on the plans.
- 1302 - Fibers used in the manufacture of geotextile material shall consist of long-chain synthetic polymers composed of at least 95 percent by mass of polyolefins or polyesters, to manufactured geotextile or the threads used to sew geotextile.
- 1303 - The Purchaser shall furnish a commercial certification including the name of the manufacturer, product name, style number, chemical composition of the filaments or yarns, and other pertinent information to fully describe the geotextile. A sample of 5 square yards of the geotextile material shall be furnished to the Authorized Officer from each shipment for verification testing.
- 1303a - Each roll of geotextile material shall be labeled to provide for identification of the material. The geotextile material shall be wrapped in a heavy duty protective covering and shall be protected from mud, dirt, dust, debris, and direct sunlight.
- 1303b - Geotextile materials subject to deterioration by ultraviolet rays shall be protected from direct sunlight during transport and storage. For those geotextile materials subject to damage by sunlight, the information on the package label shall warn against exposing the geotextile material to sunlight. Geotextile material deemed to have been overexposed to sunlight by the Authorized Officer shall be rejected.
- 1308 - The geotextile material shall be installed directly on the **Un-prepared surface**. Longitudinal and transverse joints shall be overlapped a minimum of 5 feet. Pins may be used to hold the geotextile sheets in place. Space pins along the overlaps at approximately 3-foot centers.

- 1309 - Borrow or base course material shall be placed to the designated thickness in one lift and spread in the direction of the geotextile material overlap. Borrow or base course material shall be spread in a manner to fill soft or weak bearing areas. Hauling equipment shall not be operated on the geotextile until the total thickness of borrow or base course is placed.
- 1310 - Torn, punctured, or separated sections of the geotextile material shall be repaired by installing a geotextile material patch over the damaged area prior to placing the borrow or base course material. The patch shall be at least 3 feet larger in horizontal dimensions than the hole to be repaired.
- 1311 - Geotextile material used for material separation shall be constructed of non-woven polypropylene or polyester filament fibers such as US 315 or GEO 315W or comparable product that meets the following requirements:

Geotextile Property	Test Method	Units	Specifications ⁽¹⁾	
			Type III-A	
Grab Strength	(ASTM D 4632)	lbs	320/200	
Elongation @ Break	(ASTM D 4632)	%	15%	
Sewn Seam Strength	(ASTM D 4632)	lbs	290/180	
Tear Strength	(ASTM D 4533)	lbs	120 ⁽³⁾ /75	
Puncture Strength	(ASTM D 4833)	lbs	120/75	
Burst Strength	(ASTM D 3786)	psi	600/245	
Permittivity	(ASTM D 4491)	s ⁻¹	0.05	
Apparent Opening Size	(ASTM D 4751)	US Sieve	40 ⁽²⁾	
Ultraviolet Stability	(ASTM D 4355)	%	70% @ 500 hours of Exposure	

- (1) The first values in a column apply to geotextiles that break at < 50 percent elongation (ASTM D 4632). The second values in a column apply to geotextiles that break at ≥ 50 percent elongation (ASTM 4632).
- (2) Maximum average roll value.
- (3) The minimum average tear strength for woven monofilament geotextile is 55lbs.

QUARRY AND BORROW PIT DEVELOPMENT - 1600

- 1601 - This work shall consist of quarry and borrow pit development and rehabilitation in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 1602 - The designated rock quarry sites is located at the following location:

	<u>Subdivision</u>	<u>Section</u>	<u>T.</u>	<u>R.</u>
<u>Shale Divide Quarry</u>	NW¼ NE¼	<u>3</u>	<u>38</u>	<u>2E</u>
<u>Soda Canyon Quarry</u>	SE ¼ SW¼	<u>29</u>	<u>37</u>	<u>3E</u>
<u>Buck Prairie Quarry</u>	NE ¼ NE¼	<u>27</u>	<u>38</u>	<u>3E</u>

Development and reclamation work at these sites shall be in strict accordance with these specifications and the mining and reclamation plan, as shown on the plans.

- 1603a- If the Purchaser elects to use a rock source other than the designated source, the rock material produced shall comply with applicable sections of these specifications. If the alternate source is located on BLM ownership and a current BLM plan is not available, a development, mining, and reclamation plan shall be prepared by the Purchaser, and submitted for approval by the Authorized Officer. Development, mining and reclamation work shall be in accordance with the approved plan and 1600 specifications.
- 1604 - If the designated source proves insufficient as to quantity and quality of the required rock material, the Purchaser shall, when ordered in writing by the Authorized Officer, move his operation to an alternate materials source as shown on the plans and as selected by the Authorized Officer. Development, extraction, and reclamation work on the alternate source shall be in accordance with the mining and reclamation plans prepared by the BLM. An equitable adjustment will be made in the contract price.
- 1605c- The operation of equipment related to the production of rock aggregate and quarry operations shall be confined to the quarry operations area and to the designated tractor trails as shown on the plans.
- 1609 - Overburden, trees, stumps, logs, and loose rock shall be removed back from the edge of working quarry faces for a distance of 10 feet.
- 1609a- Overburden and reject material shall be placed at the disposal site shown on the plans as directed by the Authorized Officer.
- 1611 - The Purchaser shall notify the Authorized Officer at least 5 days prior to commencing quarry operations.
- 1612 - The Purchaser shall notify MSHA (Mining Safety and Health Administration) by standard form or telephone, and in accordance with part 56, Chapter 1 of Title 30 Code of Federal Regulations (CFR) of what date he intends to commence, terminate, and/or temporarily close down operations of the quarry. Notice shall be submitted a minimum of 10 days prior to the proposed date of the action to be taken. Notification shall be submitted to:

Mining Safety and Health Admin.

Attn: Supervisor

P.O. Box 70

Albany, Oregon 97321

Commercial Phone No. 541-967-5825

Mining Safety and Health Admin.
117 107th Ave. NE
Bellevue, Washington 98004
Commercial Phone No. 206-442-7037

The Purchaser shall also prepare and submit to MSHA at the above address the quarterly Employment Report and Injury and Illness Report for the mining operation.

- 1613 - The Purchaser shall comply with local and State Safety Codes covering quarrying operations, warning signs and traffic control.
- 1615 - Operations on the quarry site shall be so conducted that, both during and after completion of work, erosion will be minimized and sediment will not enter streams or other bodies of water. Waste or disposal areas and quarry access roads shall be located, constructed, and maintained in a manner that will prevent sediment from entering live streams or other bodies of water. Noncombustible debris and silt-laden water material resulting from the quarry operation shall be placed in such waste or disposal areas as shown on the plans and as directed by the Authorized Officer.
- 1616 - Upon completion of quarrying operations, overburden and waste materials shall be disposed of in accordance with requirements of the approved reclamation plan or in a manner approved in writing by the Authorized Officer.
- 1617 - Upon completion of quarrying operations, required site reclamation measures shall be performed to the satisfaction of the Authorized Officer, including but not limited to the following:
 - (a) Permanently seal or fill unused drill holes as directed by the Authorized Officer.
 - (b) Construct water bars and take other erosion control measures as directed by the Authorized Officer.
 - (c) Remove blockages from drainage systems, streams, and waterways, and restore streams and waterways to their original courses.
 - (d) Erect barricades on quarry access roads as directed by the Authorized Officer.
 - (e) Complete required site reclamation measures within 14 days after final cessation of quarrying operations.
 - (f) Clear quarry benches and scale wall of loose or dislodged shot material and move to a designated location within the quarry.

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 and as shown on the plans.
- 1802a- Soil stabilization work consisting of seeding and mulching shall be performed on all disturbed portions of roads shown in Section 2601, landings, and all disturbed areas in accordance with these specifications and as shown on the plans.
- 1803 - Soil stabilization work as specified under Subsection(s) 1802a shall be performed during the following seasonal periods:

From: August 1 to: October 31

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

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

The grass seed furnished shall meet the minimum requirement for Blue Tag Seed as set forth in the latest edition of Oregon Certification Standards published by Oregon State University. Seed source shall be approved by the Authorized Officer and shall be from general region where the project occurs.

The Purchaser shall furnish the Authorized Officer a Seed Test Result from a certified seed testing lab (Oregon State University), which shall include: date of test; lot number of each kind of seed; seed source; and results of tests as to name, percentages of purity and of germination, weed species and percentage of weed content, for each kind of seed furnished and, in case of mixture, the proportions of each kind of seed. The seed must have been tested within the last year to be accepted for use on this contract.

Genetically appropriate native plant species (seed or other native plant materials) shall be selected as a first choice for project work. If native grass/forb seed or (other plant materials) is not available, non-native species to be used shall be approved by the appropriate resources specialist (botanist, native plant coordinator, etc.) and authorized officer prior to application on the ground.

- 1805 - The Purchaser shall mix grass seed specified under Subsection 1804 in the following proportions: Seed Mixture "A":

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

- 1809d - Straw mulch shall be from native grass or other approved grain crops which are certified weed free, and free from noxious weeds, mold, or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing in a uniform manner. Straw mulch shall be applied evenly in treatment areas to a depth of 2 inches (approximately 1000 lbs/ac), or as directed by the Authorized Officer.
- 1810 - 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 it is maintained in a dry state and has the approval of the Authorized Officer.
- 1811 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding and plastic twine will not be permitted.
- 1812 - The Purchaser shall furnish and apply to acres designated for treatment as shown on the plans, a mixture of grass seed and mulch material at the following rate of application:
- | | |
|------------|----------------|
| Grass seed | 20 lbs./acre |
| Mulch | 1000 lbs./acre |
- 1816b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipacker seeders, or other approved mechanical seeding equipment may be used when seed is to be applied in dry form.
- 1820 - The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date he intends to commence the specified soil stabilization work.
- 1822 - Mulch that collects at the ends of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer's Rep.
- 1823 - No material 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.

- 1826 - 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 or manually with hand tools, including chain saws.
- 2103 - Vegetation cut manually and or mechanically less than 6 inches in diameter when measured at DBH shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill sloped and all limbs will be severed from the trunk.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. All limbs will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- 2104 - Trees in excess of 6 inches in diameter at DBH 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 inch of the trunk to produce a smooth vertical face.
- 2106 - Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- 2107 - Inside curves shall be brushed out for a sight distance of 200 feet chord distance and a middle ordinate distance of 25 feet. 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 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 Authorized Officer.
- 2113 - Roadside brushing shall be accomplished as specified on the plans on the roads listed below:

Road No.	From	To
37-2E-15.00 E-F	0.00	0.59
37-2E-23.04	0.00	0.49
37-2E-24.04 B	0.12	0.82
37-2E-25.03	0.00	0.23
37-2E-25.05	0.00	0.46
37-2E-36.00	0.00	0.60
37-3E-18.04	0.00	0.71
37-3E-18.05	0.00	0.07
37-3E-19.00	0.00	3.60
37-3E-21.01	0.00	0.64
37-3E-21.02	0.00	0.44
37-3E-30.04	0.00	0.50
37-3E-32.05	0.00	0.93
38-2E-1.00	0.00	0.20
38-2E-1.04	0.00	0.32
38-2E-1.05	0.00	0.30
38-2E-3.01	0.00	1.02
38-2E-3.08	0.00	1.00
38-3E-5.00	1.00	1.46
38-3E-11.00	0.00	0.88
38-3E-11.06	0.00	0.59
38-3E-11.07	0.00	0.14
38-3E-19.00D	0.00	1.60
38-3E-20.00	0.00	0.80
38-3E-20.01	0.00	0.19
38-3E-21.00	0.00	0.67
38-3E-21.02	0.00	0.60

Road No.	From	To
38-3E-22.00	0.00	0.40
38-3E-23.01	0.00	0.12
38-3E-23.03	0.00	0.32
38-3E-23.04	0.00	0.34
38-3E-27.00	0.00	1.47
38-3E-27.02	0.00	0.35
38-3E-27.03	0.00	0.60
38-3E-29.00	0.00	0.68
USFS 830	0.00	0.21
USFS 831	0.00	0.09
T37 R2E Spur 23-2	0.00	0.09
T37 R2E Spur 25-3	0.00	0.10
T37 R3E Spur 30-3	0.00	0.10
T38 R3E Spur 21-1	0.00	0.10
T38 R3E Spur 22-1	0.00	0.09
T38 R3E Spur 22-2	0.00	0.04

- 2116 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within (400) feet of the immediate operating area.
- 2117 - 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.

SLOPE STAKING - 2300

- 2301 - This work shall consist of slope staking road locations from notes furnished by the BLM in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 2302 - Slope stakes shall consist of 1-3/4 inch x 1/4 inch smooth-finished wood slats of good quality, approximately 18 inches in length and tipped with red luminous paint.
- 2303 - Slope stakes shall be set as follows:
- (a) A slope stake shall be set at the top of the cut slope for cut and fill and full bench sections as shown on the typical road sections sheet included in the plans.

- (b) The slope stake shall be left in the slope stake location at time of staking. The Purchaser shall reset the slope stakes after completion of clearing and grubbing operations, where needed.
- (c) For fill sections, only the uphill side shall be staked, unless otherwise specified.

- 2305 - Slope stakes and reference stakes shall be marked as shown on the plans.
- 2306 - Locations in which the stakes are placed in heavy brush and are difficult to see shall have the brush flagged with red plastic ribbon in such a manner as to facilitate relocation of the stakes.
- 2309 - Stationing used is "L" or final location stationing.
- 2310 - Stakes shall be marked with black lumber crayon or with a permanent waterproof felt-tip marker.
- 2311 - Slope and reference stakes shall be set to the following standards of accuracy:
 - maximum allowable horizontal error +/- 2 feet
 - maximum allowable vertical error +/- 1 foot
- 2312 - The Purchaser shall complete the required slope staking a minimum of 3 days in advance of construction unless otherwise agreed. Staking and slope staking notes shall be approved in writing by the Authorized Officer prior to right-of-way clearing, timber falling, and construction.
- 2313 - The Purchaser will slope stake and furnish the BLM the resulting notes in advance of construction on the road shown below:

Road No.	Approximate Sta./Mi.
37-2E-24.04 C	6+30

POST HARVEST ROAD WORK - 2600

2601 – Fully Decommission roads after use during same operating season:

Road # and Name	From	To
38-2E-1.01	0.00	0.14
T37 R2E Spur 25-3	0.00	0.10
T37 R3E Spur 30-3	0.00	0.10
T38 R3E Spur 21-1	0.00	0.10
T38 R3E Spur 22-1	0.00	0.09
T37 R2E Temp 13-1	0.00	0.05
T37 R2E Temp 17-1	0.00	0.86
T37 R2E Temp 17-2	0.00	0.24
T37 R2E Temp 25-1	0.00	0.07
T37 R2E Temp 25-2	0.00	0.03
T37 R2E Temp 25-3	0.00	0.04
T37 R3E Temp 18-1	0.00	0.05
T37 R3E Temp 20-1	0.00	0.05
T37 R3E Temp 30-1	0.00	0.12
T38 R3E Temp 20-2	0.00	0.14
T38 R3E Temp 23-1	0.00	0.46
TOTAL MILES		2.64

2601a - Fully Decommission road work shall consist of the following treatments:

- a. Fully Decommissioned roads shall consist of loosening compacted layers of road surface along the entire road width and length at a depth of 12-18 inches. Compacted layers of road surface shall be loosened mechanically with a machine equipped with a bucket with teeth and thumb suitable for breaking up soil and scattering debris. The purchaser shall use soil, boulders, brush, dead material, stumps, and other debris to disguise the entire length of the road prism to the extent possible.

- b. All culverts shall be removed from the entire road length. Excavate to remove culvert and construct slopes to 1½:1. Excavation shall be left open to drain. Excavation spoils shall be placed on roadway in a manner to minimize erosion and sedimentation. Where draw culverts are removed, the grade of the channel shall be restored to match existing stream. Culverts not designated as salvage for the Government shall become the property of the Purchaser. The Purchaser shall be responsible for legally disposing of material.
- c. The Purchaser shall Camouflaged the road entrance for a minimum of 100 feet or to the first curve or hillcrest. Camouflaged roads shall consist of using boulders, brush, dead material, stumps, and other debris to disguise the entire length of the road prism to the extent possible. No live trees should be used without approval by the Authorized Officer.
- d. An earth berm or equivalent barricade shall be constructed near the beginning of road. The final locations will be staked by the Authorized Officer's Rep.
- e. The entire length of road shall be seeded and mulched in accordance with the 1800 specifications.

2602 - Close roads Long Term after use during same operating season:

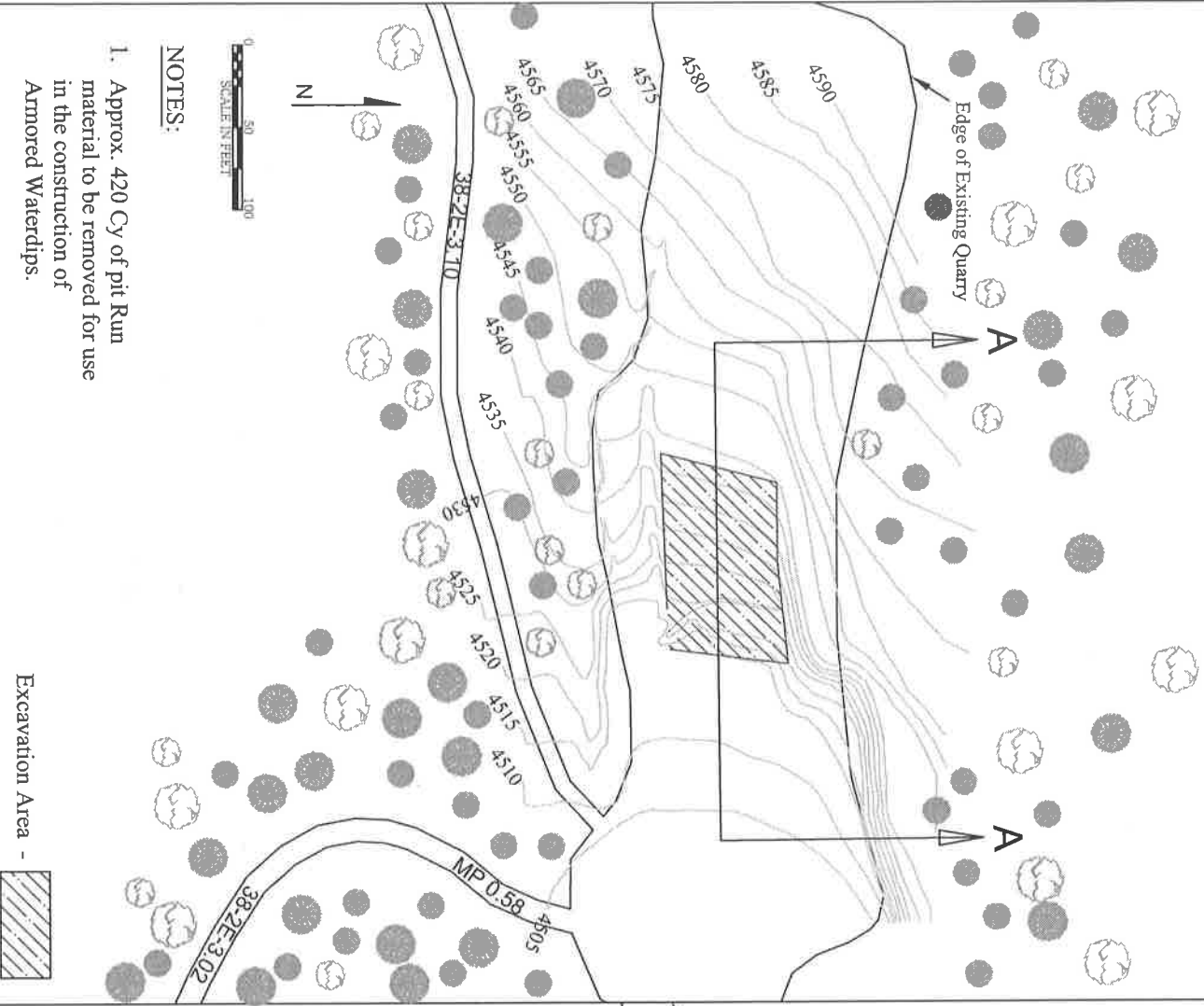
Road # and Name	From	To
37-2E-24.04 B	0.12	0.82
37-2E-25.03	0.00	0.23
37-2E-25.05	0.00	0.46
37-2E-36.00	0.00	0.60
37-3E-18.05	0.00	0.07
37-3E-32.05	0.00	0.93
38-2E-1.06	0.00	0.35
38-3E-11.07	0.00	0.14
38-3E-20.01	0.00	0.19
38-3E-22.00	0.00	0.40
38-3E-27.02	0.00	0.35
T37 R2E Spur 23-2	0.00	0.09
TOTAL STATIONS		4.63

2602a - Long Term Closure of roads shall consist of all or part of the following treatments:

- a. Construct cross-drains along entire length of road at 200' spacing, or as staked or directed by the Authorized Officer's Representative.
- b. The Purchaser shall Camouflaged the road entrance for a minimum of 100 feet or to the first curve or hillcrest. Camouflaged roads shall consist of using boulders, brush, dead material, stumps, and other debris to disguise the entire length of the road prism to the extent possible. No live trees should be used without approval by the Authorized Officer.
- c. An earth berm or equivalent barricade shall be constructed near the beginning of road. The final locations will be staked by the Authorized Officer's Rep.

PLAN VIEW

Shale Divide Quarry
T38S R2E Section 3
NW1/4 NE1/4
Road 38-2E-3.02 MP 0.58



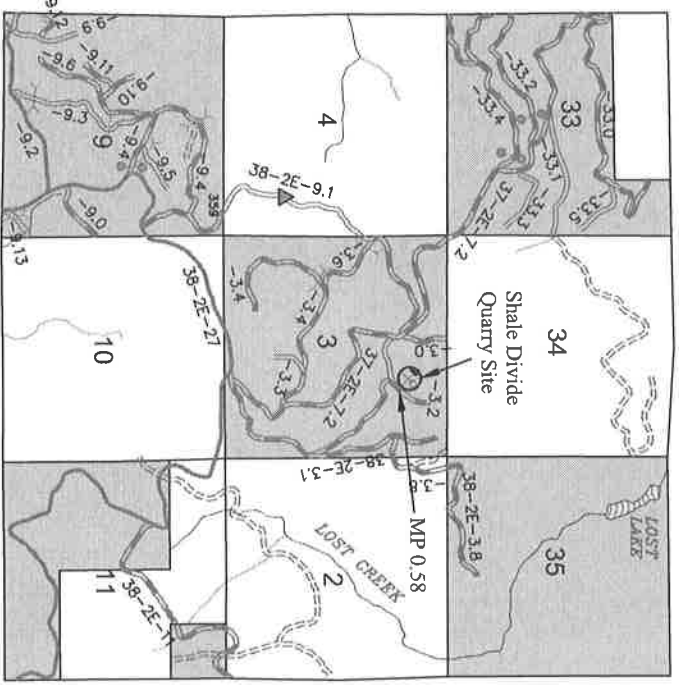
NOTES:

1. Approx. 420 Cy of pit Run material to be removed for use in the construction of Armored Waterdips.

Excavation Area -



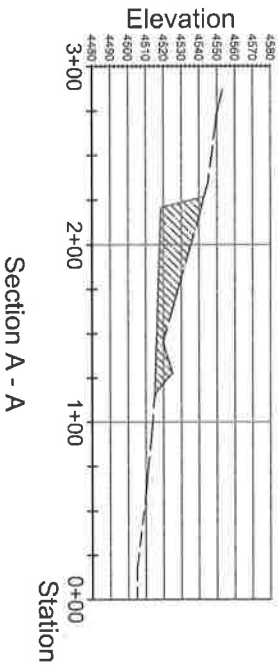
Exhibit C-16
SHEET 1 OF 1



QUARRY NOTES:

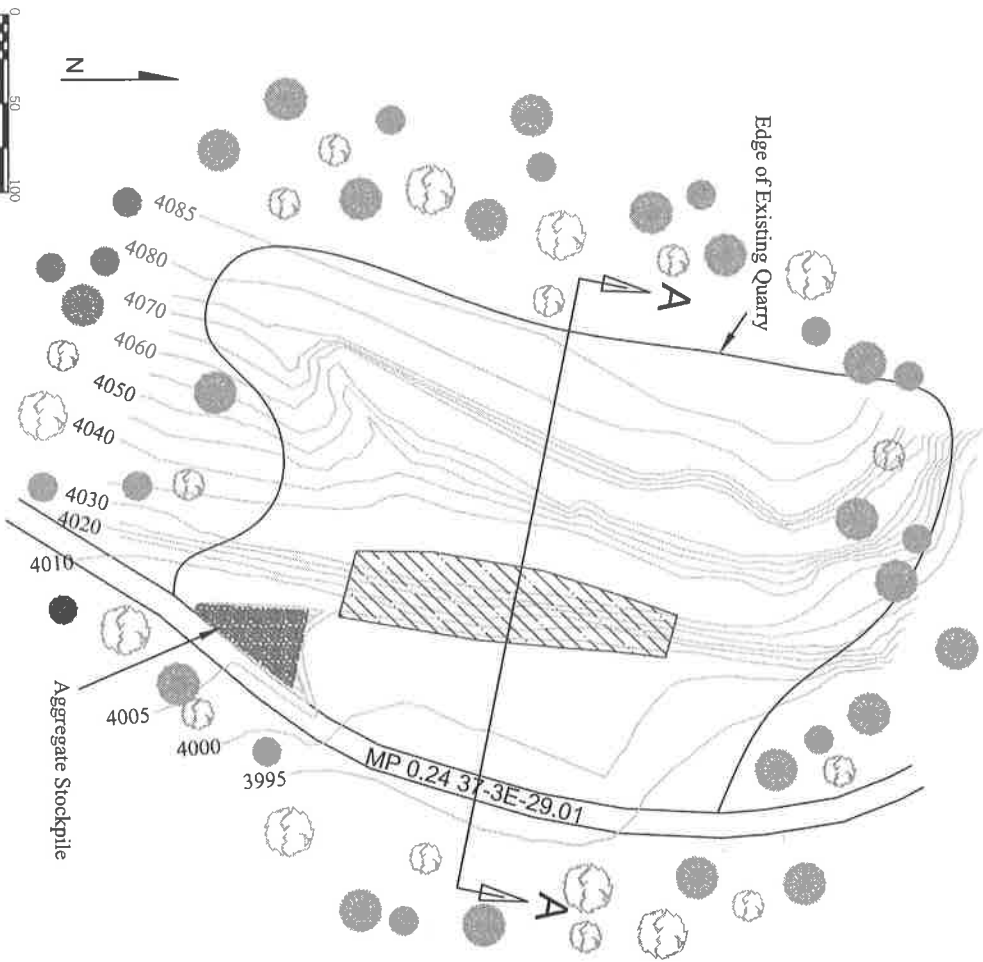
1. Clearing Limits 10' maximum beyond top of cut.
2. Stockpile to be staked by the Authorized Officer at the quarry site.

PROFILE VIEW



PLAN VIEW

Soda Canyon Quarry
T37S R3E Section 29
SE1/4 SW1/4
Road 37-3E-29.01 MP 0.24



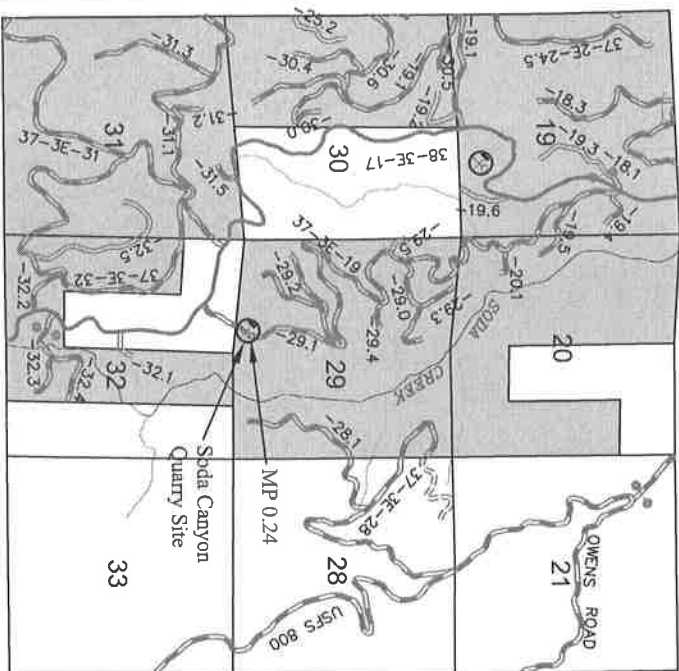
NOTES:

1. Approx. 300 Cy of pit Run material to be removed for use in the construction of Armored Waterdips.

Excavation Area -



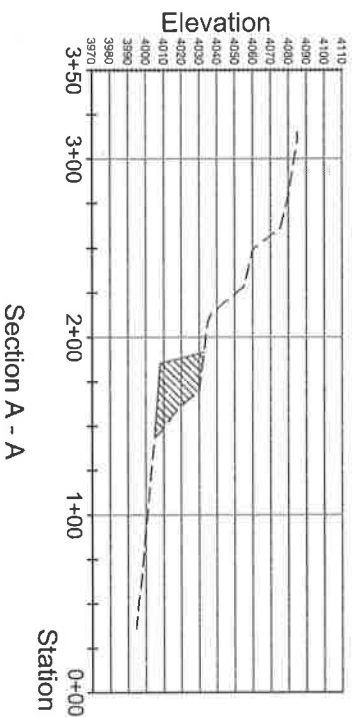
Exhibit C-17 SHEET 1 OF 1



QUARRY NOTES:

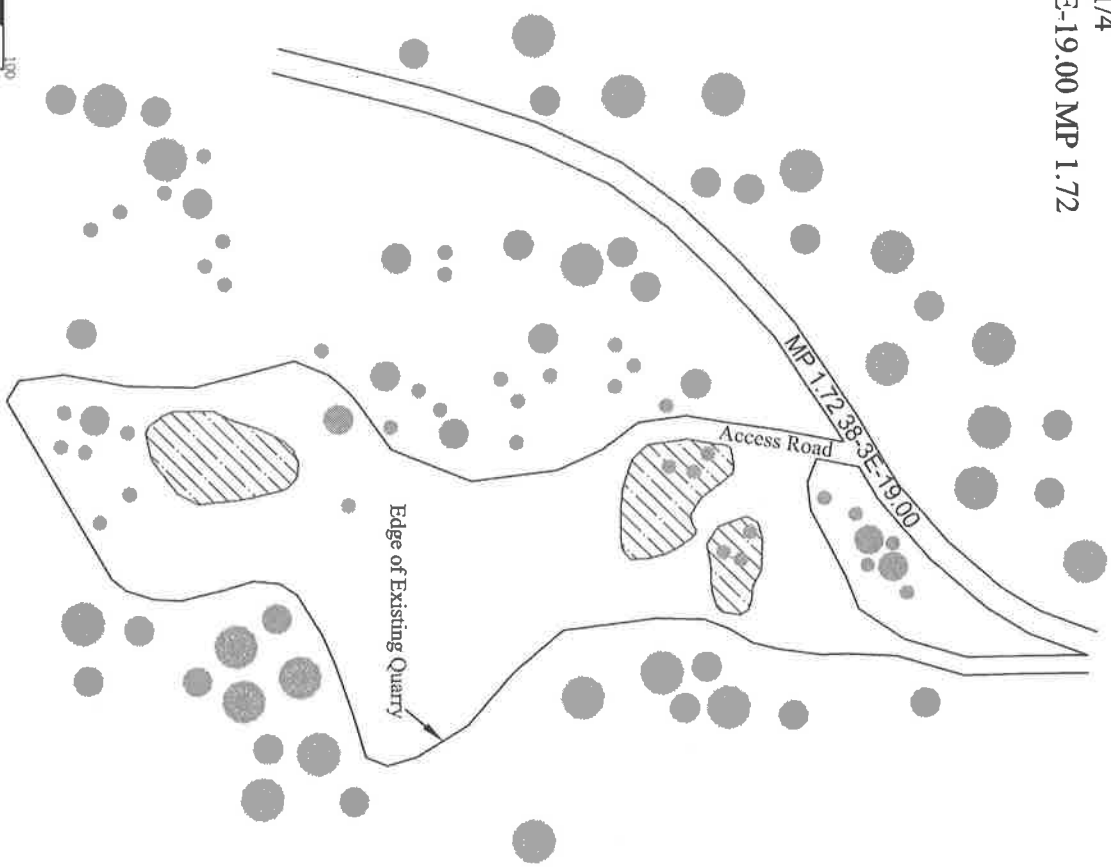
1. Clearing Limits 10' maximum beyond top of cut.
2. Stockpile to be staked by the Authorized Officer at the quarry site.

PROFILE VIEW



PLAN VIEW

Buck Prairie Quarry
T38S R3E Section 27
NE1/4 NE1/4
Road 38-3E-19.00 MP 1.72

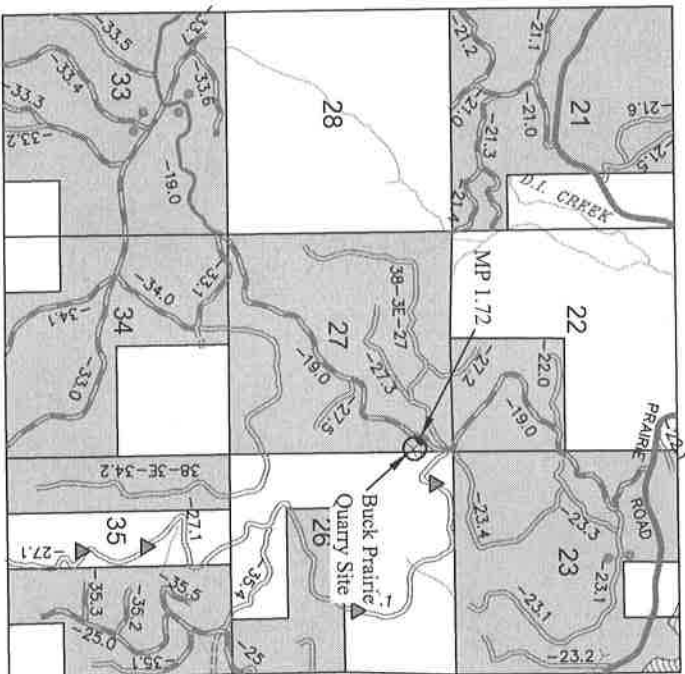


NOTES:

1. Approx. 350 Cy of borrow material to be removed for use on BLM road 38-3E-27.00.

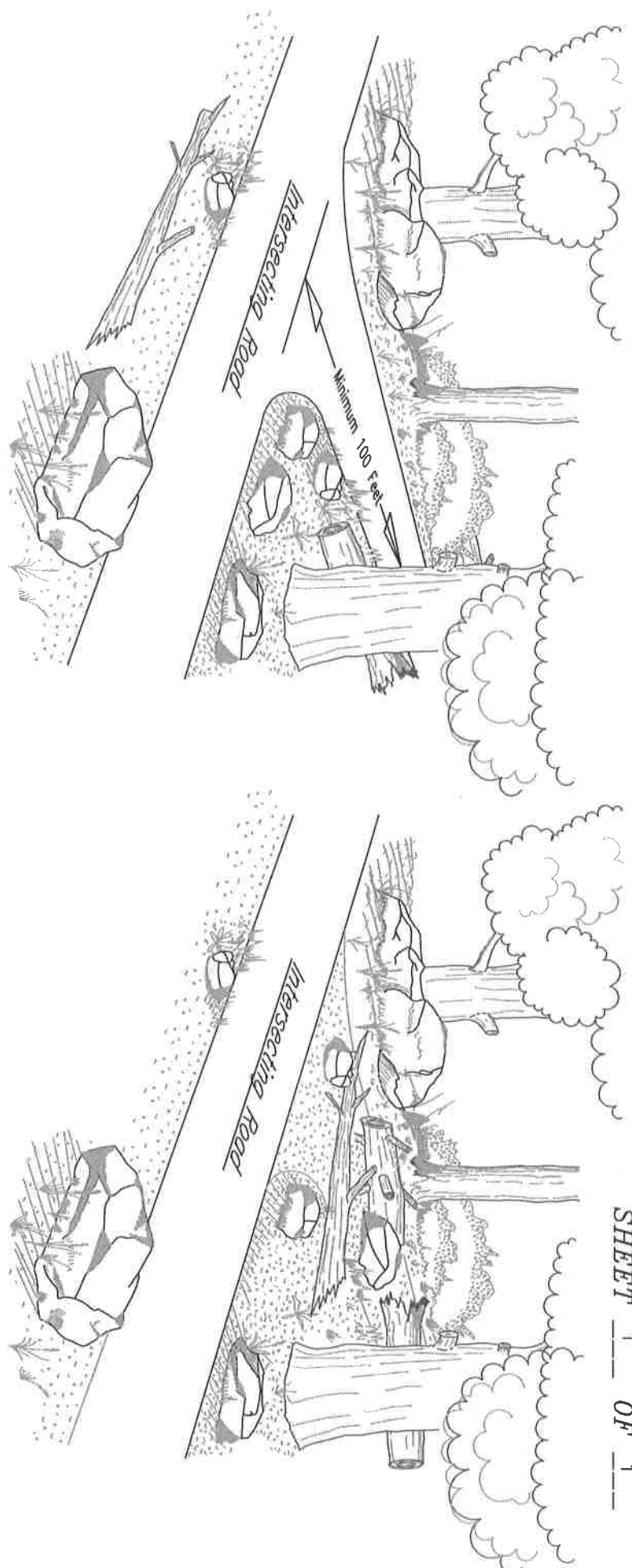
Excavation Area - 

Exhibit C-18
SHEET 1 OF 1



QUARRY NOTES:

1. Clearing Limits 10' maximum beyond top of cut.
2. Stockpile to be staked by the Authorized Officer at the quarry site.



Typical Entrance – Before

Typical Entrance – After

Notes:

1. The Purchaser shall barricade and Camouflage the road prism and disguise the roadbed so that the road entrance and roadway are indiscernible from the intersecting road. Camouflaged entrances shall consist of logs, slash, boulders and others debris placed along road entrances for a minimum of 100 feet or to the first curve or hillcrest to discourage vehicle use. An Earth Berm or equivalent barricade shall be constructed at road entrance as approved by the Authorized Officer..

2. Where multiple entrances exist, the work shall include obscuring all road entrances. Ditchlines at intersecting roads will be restored as indicated on plan view. The Purchaser shall use soil, boulders, brush, dead material, stumps, and other debris to disguise the road prism to the extent possible. No live trees should be used without approval of the Authorized Officer.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT – MEDFORD, OREGON			
Typical Road Camouflage			
DRAWN	JWR	SCALE	NONE
DATE	June 2015	SHEET	1 OF 1
DRAWING NO. OR 117-TS15-16-C19			

Notes:

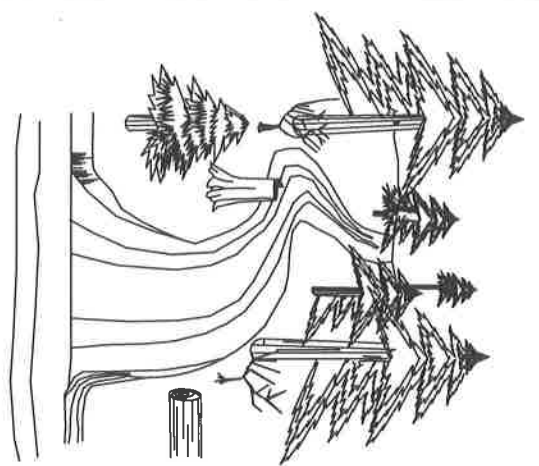
1. The Purchaser shall barricade, decompect the road prism and camouflage the roadbed so that the road entrance and roadway are indistinguishable from the intersecting road. Camouflaged entrances shall consist of logs, slash, boulders and others debris placed along road entrances for a minimum of 100 feet or to the first curve or hillcrest to discourage vehicle use. Barricades shall be constructed as shown for each road.

Where multiple entrances exist, the work shall include obscuring all road entrances. Ditchlines of intersecting roads will be restored as indicated on plan view. The Purchaser shall use soil, boulders, brush, dead material, stumps, and other debris to disguise the road prism to the extent possible. No live trees shall be used without approval of the Authorized Officer.

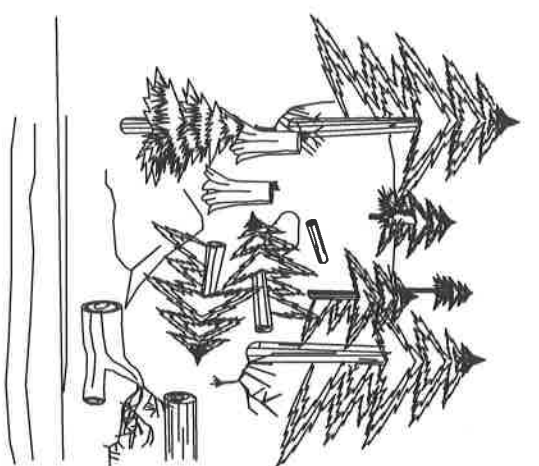
3. Road surface shall be decompacked for its entire length using mechanical equipment. Decompect road surface to a depth of 12 to 18 inches or to a point where 10 inch diameter stones are the dominant substrate (whichever is shallower). Where it is determined by the Authorized Officer that decompacktion may cause unacceptable damage to the root systems of residual trees along a majority of the road, decompacktion may be intermittent, or scarification may be used instead. Woody debris, brush, stumps, boulders, and other debris shall be placed along the roads entire length as determined by availability of materials to provide ground cover and discourage use. No live trees shall be cut or used without approval of the Authorized Officer.

4. All culverts shall be removed from road for its entire length. Excavated culverts shall be left open to drain and have slopes of 1½:1. Where draw culverts are removed the grade of the channel shall be restored to match existing stream. Culverts not designated as salvage for the Government shall become the property of the Contractor. The Contractor shall be responsible for legally disposing of material.

5. See Section 1800 for Seeding Specifications.

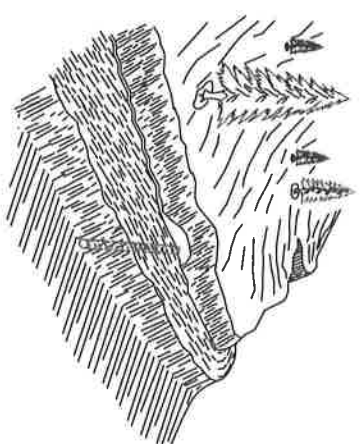


Typical Entrance - Before

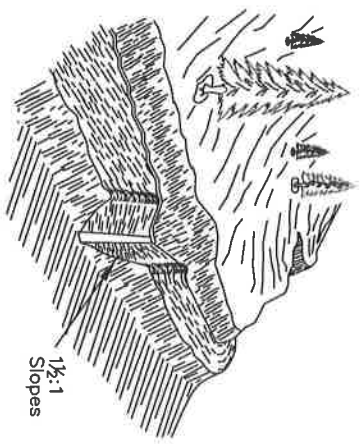


Typical Entrance - After

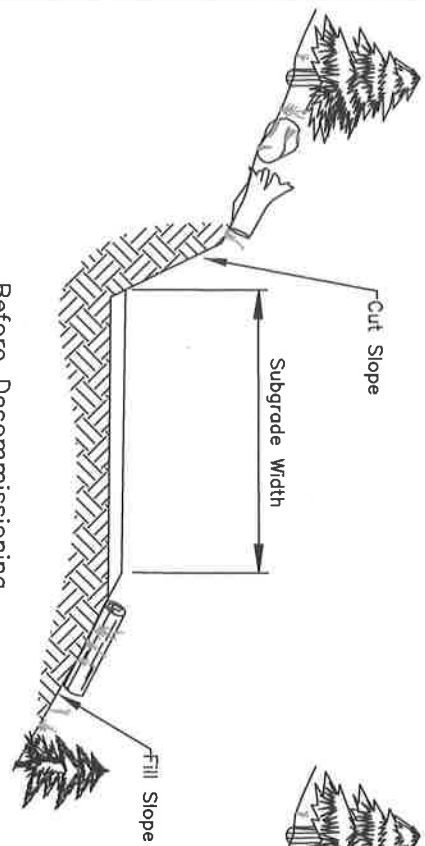
Typical Road Camouflaged Entrance
(See Exhibit C-20)



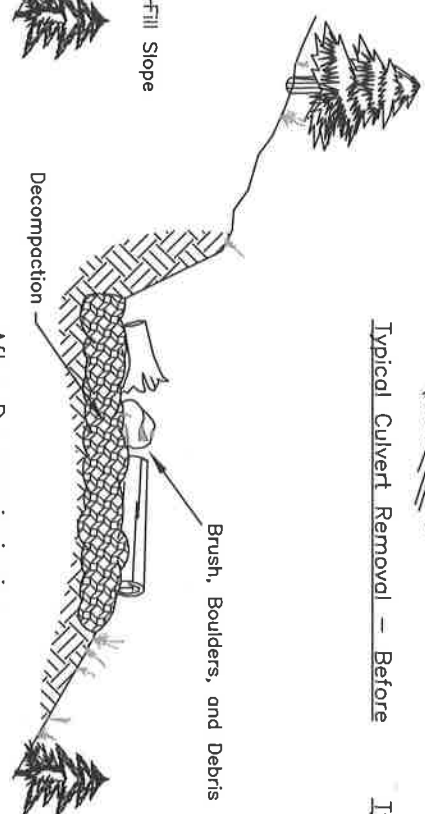
Typical Culvert Removal - Before



Typical Culvert Removal - After



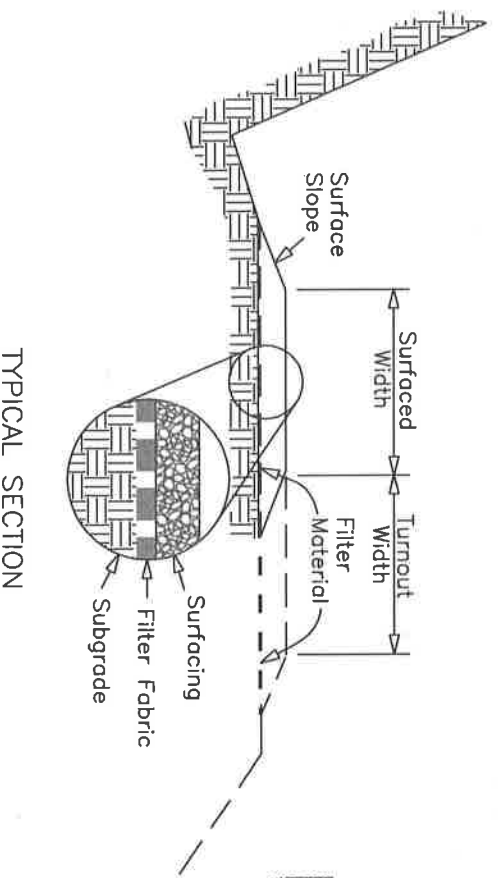
Before Decommissioning



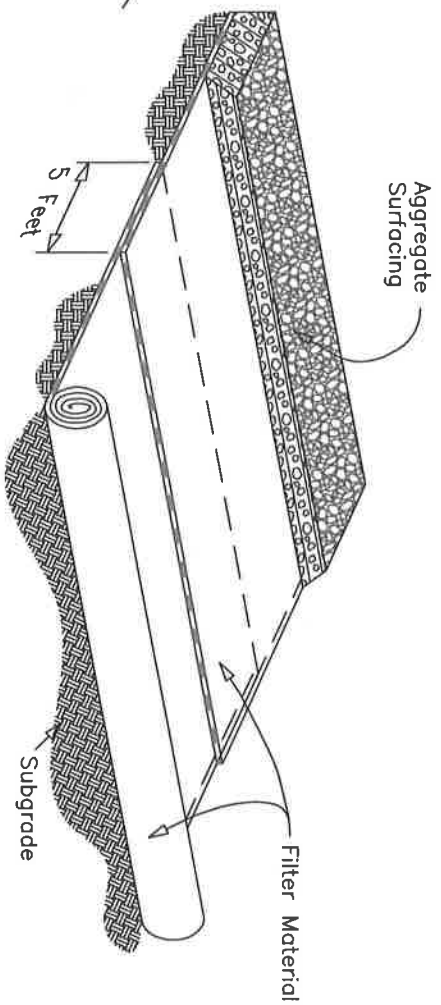
After Decommissioning

Typical Full Decommission

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
<i>Typical Full Decommission</i>			
DRAWN	JWR	SCALE	NONE
DATE	June 2015	SHEET	1 OF 1
DRAWING NO.	OR 117-TS15-16-C20		



TYPICAL SECTION



TYPICAL INSTALLATION

SUBGRADE BLANKET

GENERAL DESCRIPTION

The construction Fabric shall be a woven or nonwoven fabric consisting only of long chain polymeric filaments or yarns such as polypropylene, polyethylene, polyester, polyamide, or polyvinylidene-chloride formed into a stable network such that the filaments or yarns retain their relative position to each other. The Fabric shall be inert to commonly encountered chemicals and conform to the properties shown in the written specifications.

ALWAYS
THINK
SAFETY

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
TYPICAL FILTER FABRIC INSTALLATION			
DRAWN	JWR	SCALE	NONE
DATE	June 20105	SHEET	1 OF 1
DRAWING NO.	OR 117-TS15-16-C21		

**SPECIFICATION
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Section 3000	General	Sheet 2
Section 3100	Operational Maintenance	Sheet 2
Section 3200	Seasonal Maintenance	Sheet 4
Section 3300	Final Maintenance	Sheet 5
Section 3400	Other Maintenance	Sheet 5

GENERAL - 3000

- 3001 - The Purchaser shall be required to maintain all roads listed and/or referenced in Section 41(C)(2) Special Provisions 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.
- 3002 - The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards.
- 3003 - The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 - The Purchaser shall be responsible for providing timely maintenance and cleanup on any 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

- 3101 - The Purchaser shall blade and shape the road surface and shoulders with a motor patrol grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3103 - The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 - The Purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor patrol 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 suitable turnout or 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.
- 3104b - The Purchaser shall be responsible for removal of all slides or slough, up to fifteen (15) 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 (15) 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 work, based on current BLM Timber Appraisal Production Cost Schedules. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.
- 3105 - The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe and maintaining water dips and waterbars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- 3106 - The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen (15) station yards in quantity, at any one site. The 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 (15) 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 Timber Sale Appraisal Production Cost Schedules. Adjustments in purchase price for completed work shall be made as necessary, and no less than once per year when actual work is ongoing.
- 3107 - The Purchaser shall cut or trim trees and brush which obstructs vision or prevents the safe passage of traffic along the traveled way, when directed by the Authorized Officer.

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

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

3108a - The Purchaser shall perform logging operations on gravel bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. Repair of the road shall be as specified in Subsection 3401.

SEASONAL MAINTENANCE - 3200

3201 - The Purchaser shall perform preventive maintenance at the end of Purchaser's hauling each season and during nonhauling periods which occur between other operations on the contract area. This includes cross ditching, removing ruts or other surface irregularities, and all other requirements specified in Section 3100.

3202 - The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 1 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 preceding operating seasons.

3203 - The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any road(s) located in an area separate from the area where logging activities will resume.

3204 - The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

- 3301 - The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within 30 calendar days following the completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section. The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions (Sections 3000, 3100, 3200, and 3300 of the maintenance specifications) have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

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

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

OTHER MAINTENANCE - 3400

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

Upon receiving written authorization for ice and 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 yds² of rock hauled. Subsequent waterings 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 No.	From	To
37-2E-7.02	0.00	2.35
37-2E-13.00 A2-F1	0.00	4.07
37-2E-13.00 G-H	0.00	0.83
37-2E-15.00 E-F	0.00	0.59
37-2E-23.00	0.00	1.34
37-2E-23.02	0.00	0.72
37-2E-23.04	0.00	0.49
37-2E-24.01	0.00	2.74
37-2E-24.04 A	0.00	0.12
37-2E-24.04 B	0.00	0.82
37-2E-24.05	0.00	0.95
37-2E-25.03	0.00	0.25
37-2E-25.05	0.00	0.46
37-2E-36.00	0.00	0.60
37-3E-18.01	0.00	2.13
37-3E-18.03	0.00	0.60

Road No.	From	To
37-3E-18.04	0.00	0.60
37-3E-18.05	0.00	0.07
37-3E-18.06	0.00	0.26
37-3E-18.07	0.00	0.17
37-3E-19.00	0.00	0.60
37-3E-19.01	0.00	2.09
37-3E-21.01	0.00	0.64
37-3E-21.02	0.00	0.44
37-3E-29.01	0.00	0.71
37-3E-30.00	0.00	0.36
37-3E-30.04	0.00	0.50
37-3E-30.06	0.00	0.56
37-3E-31.01	0.00	1.28
37-3E-31.03	0.00	0.60
37-3E-32.00 A1	0.00	0.29
37-3E-32.00 B	0.00	0.55
37-3E-32.02	0.00	0.25
37-3E-32.05	0.00	0.93
38-2E-1.00	0.00	0.20
38-2E-1.04	0.00	0.32
38-2E-1.05	0.00	0.30
38-2E-3.01	0.00	1.02
38-2E-3.08	0.00	1.00

Road No.	From	To
38-2E-11.00	0.00	3.58
38-3E-5.00	0.00	1.01
38-3E-9.00	0.00	1.29
38-3E-11.00	0.00	0.88
38-3E-11.06	0.00	0.59
38-3E-11.07	0.00	0.14
38-3E-19.00 D	0.00	1.60
38-3E-20.00	0.00	0.80
38-3E-20.01	0.00	0.19
38-3E-21.00	0.00	0.67
38-3E-21.02	0.00	0.60
38-3E-22.00	0.00	0.40
38-3E-23.01	0.00	0.12
38-3E-23.03	0.00	0.32
38-3E-23.04	0.00	0.34
38-3E-27.00	0.00	1.47
38-3E-27.02	0.00	0.35
38-3E-27.03	0.00	0.60
38-3E-29.00	0.00	0.68
USFS 800	0.00	4.51
USFS 830	0.00	0.21
USFS 831	0.00	0.09
T37 R2E Spur 23-2	0.00	0.09

Road No.	From	To
T37 R2E Spur 25-3	0.00	0.10
T37 R3E Spur 30-3	0.00	0.10
T38 R3E Spur 21-1	0.00	0.10
T38 R3E Spur 22-1	0.00	0.09
T38 R3E Spur 22-2	0.00	0.04

During drought periods when the transportation of water from the source to the roads noted above exceeds 10 miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering, based on equipment rental rates from current BLM Timber Appraisal Production Cost Schedules.

3403a - During dry hauling conditions when the authorized officer determines watering is not required, the Purchaser shall reduce hauling speeds to 5 MPH and/or restrict the number of loads hauled to 2 per day on the following road:

Road No.	From	To
37-2E-7.02	0.00	2.35
37-2E-13.00 A2-F1	0.00	4.07
37-2E-13.00 G-H	0.00	0.83
37-2E-15.00 E-F	0.00	0.59
37-2E-23.00	0.00	1.34
37-2E-23.02	0.00	0.72
37-2E-23.04	0.00	0.49
37-2E-24.01	0.00	2.74
37-2E-24.04 A	0.00	0.12

Road No.	From	To
37-2E-24.04 B	0.00	0.82
37-2E-24.05	0.00	0.95
37-2E-25.03	0.00	0.25
37-2E-25.05	0.00	0.46
37-2E-36.00	0.00	0.60
37-3E-18.01	0.00	2.13
37-3E-18.03	0.00	0.60
37-3E-18.04	0.00	0.60
37-3E-18.05	0.00	0.07
37-3E-18.06	0.00	0.26
37-3E-18.07	0.00	0.17
37-3E-19.00	0.00	0.60
37-3E-19.01	0.00	2.09
37-3E-21.01	0.00	0.64
37-3E-21.02	0.00	0.44
37-3E-29.01	0.00	0.71
37-3E-30.00	0.00	0.36
37-3E-30.04	0.00	0.50
37-3E-30.06	0.00	0.56
37-3E-31.01	0.00	1.28
37-3E-31.03	0.00	0.60
37-3E-32.00 A1	0.00	0.29
37-3E-32.00 B	0.00	0.55

Road No.	From	To
37-3E-32.02	0.00	0.25
37-3E-32.05	0.00	0.93
38-2E-1.00	0.00	0.20
38-2E-1.04	0.00	0.32
38-2E-1.05	0.00	0.30
38-2E-3.01	0.00	1.02
38-2E-3.08	0.00	1.00
38-2E-11.00	0.00	3.58
38-3E-5.00	0.00	1.01
38-3E-9.00	0.00	1.29
38-3E-11.00	0.00	0.88
38-3E-11.06	0.00	0.59
38-3E-11.07	0.00	0.14
38-3E-19.00 D	0.00	1.60
38-3E-20.00	0.00	0.80
38-3E-20.01	0.00	0.19
38-3E-21.00	0.00	0.67
38-3E-21.02	0.00	0.60
38-3E-22.00	0.00	0.40
38-3E-23.01	0.00	0.12
38-3E-23.03	0.00	0.32
38-3E-23.04	0.00	0.34
38-3E-27.00	0.00	1.47

Road No.	From	To
38-3E-27.02	0.00	0.35
38-3E-27.03	0.00	0.60
38-3E-29.00	0.00	0.68
USFS 800	0.00	4.51
USFS 830	0.00	0.21
USFS 831	0.00	0.09
T37 R2E Spur 23-2	0.00	0.09
T37 R2E Spur 25-3	0.00	0.10
T37 R3E Spur 30-3	0.00	0.10
T38 R3E Spur 21-1	0.00	0.10
T38 R3E Spur 22-1	0.00	0.09
T38 R3E Spur 22-2	0.00	0.04

Adjustments to the above schedules may be made by the Authorized Officer at his option as hauling conditions improve. The Purchaser, at his option and expense, may elect to substitute watering or other dust palliatives in lieu of the above hauling requirements provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application and the product to be used.

- 3404 - The Purchaser may at his option and expense, substitute lignin sulfonate, or bituminous dust palliatives 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 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.

SOUTH FORK LITTLE BUTTE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT D-2; PAGE 1 OF 4

U.S.D.I. BLM MEDFORD DISTRICT

T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

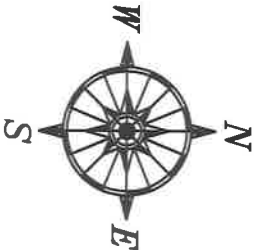
- EXISTING GATE
- EXISTING BARRICADE
- PUMP CHANCE
- QUARRY
- STOCKPILE FOR SPOT ROCKING

ROAD PROJECTS

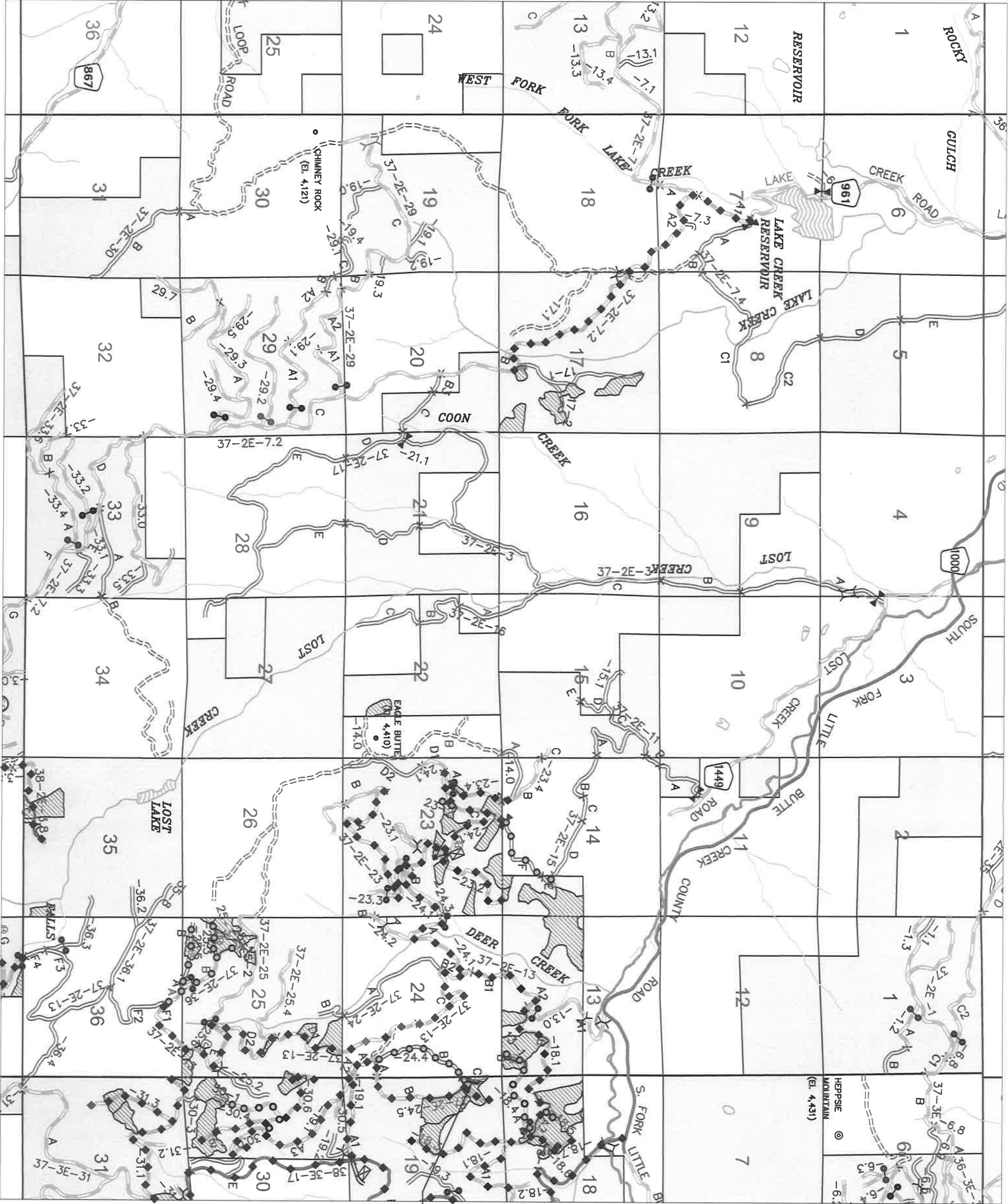
- EXISTING ROAD
- EXISTING PAVED ROAD
- EXISTING PRIMITIVE ROAD
- OPERATOR MAINTENANCE
- BLM MAINTENANCE

New Road
Construction
37-2E-24.04C

- BLM LAND
- TS UNITS













R.2E.



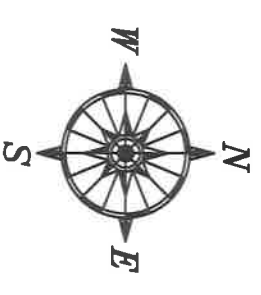
**SOUTH FORK LITTLE BUTTE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT D-2; PAGE 2 OF 4**

U.S.D.I. BLM MEDFORD DISTRICT

T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

- | | |
|---|----------------------------|
|  | EXISTING GATE |
|  | EXISTING BARRICADE |
|  | PUMP CHANGE |
|  | QUARRY |
|  | STOCKPILE FOR SPOT ROCKING |
| <u>ROAD PROJECTS</u> | |
|  | EXISTING ROAD |
|  | EXISTING PAVED ROAD |
|  | EXISTING PRIMITIVE ROAD |
|  | OPERATOR MAINTENANCE |
|  | BLM MAINTENANCE |

- BLM LAND
TS UNITS



T.37S.

R.3E.

SOUTH FORK LITTLE BUTTE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT D-2, PAGE 3 OF 4

U.S.D.I. BLM MEDFORD DISTRICT

T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

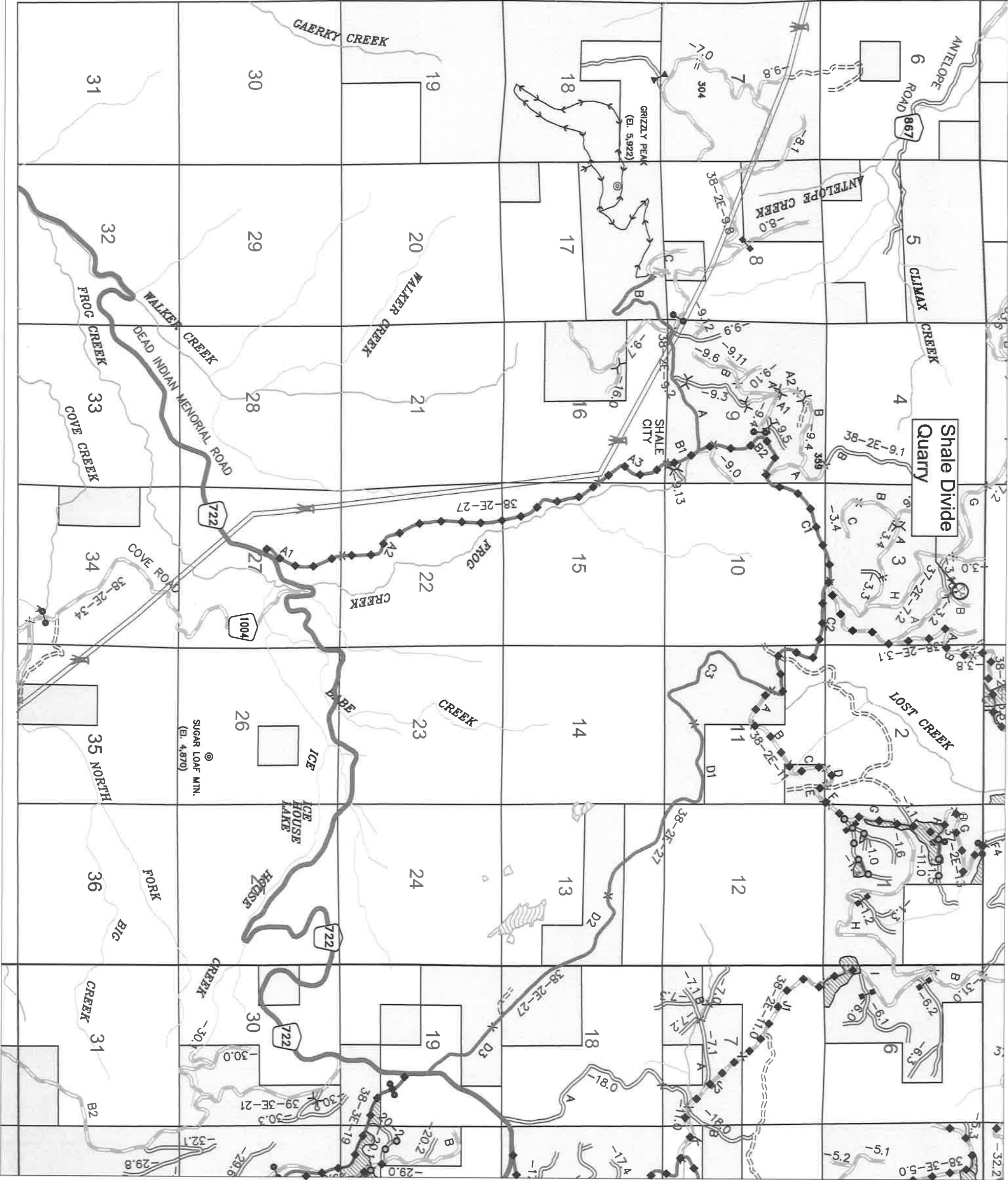
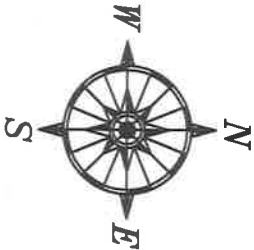
- EXISTING GATE
- EXISTING BARRICADE
- PUMP CHANGE
- QUARRY
- STOCKPILE FOR SPOT ROCKING

ROAD PROJECTS

- EXISTING ROAD
- EXISTING PAVED ROAD
- EXISTING PRIMITIVE ROAD
- OPERATOR MAINTENANCE
- BLM MAINTENANCE

- BLM LAND
- TS UNITS

T.38S.



R.2E.

SOUTH FORK LITTLE BUTTE TIMBER SALE
ROAD LOCATION MAP
EXHIBIT D-2; PAGE 4 OF 4

U.S.D.I. BLM MEDFORD DISTRICT

T.37S., R.2E. WILL. MER.
T.37S., R.3E. WILL. MER.
T.38S., R.2E. WILL. MER.
T.38S., R.3E. WILL. MER.

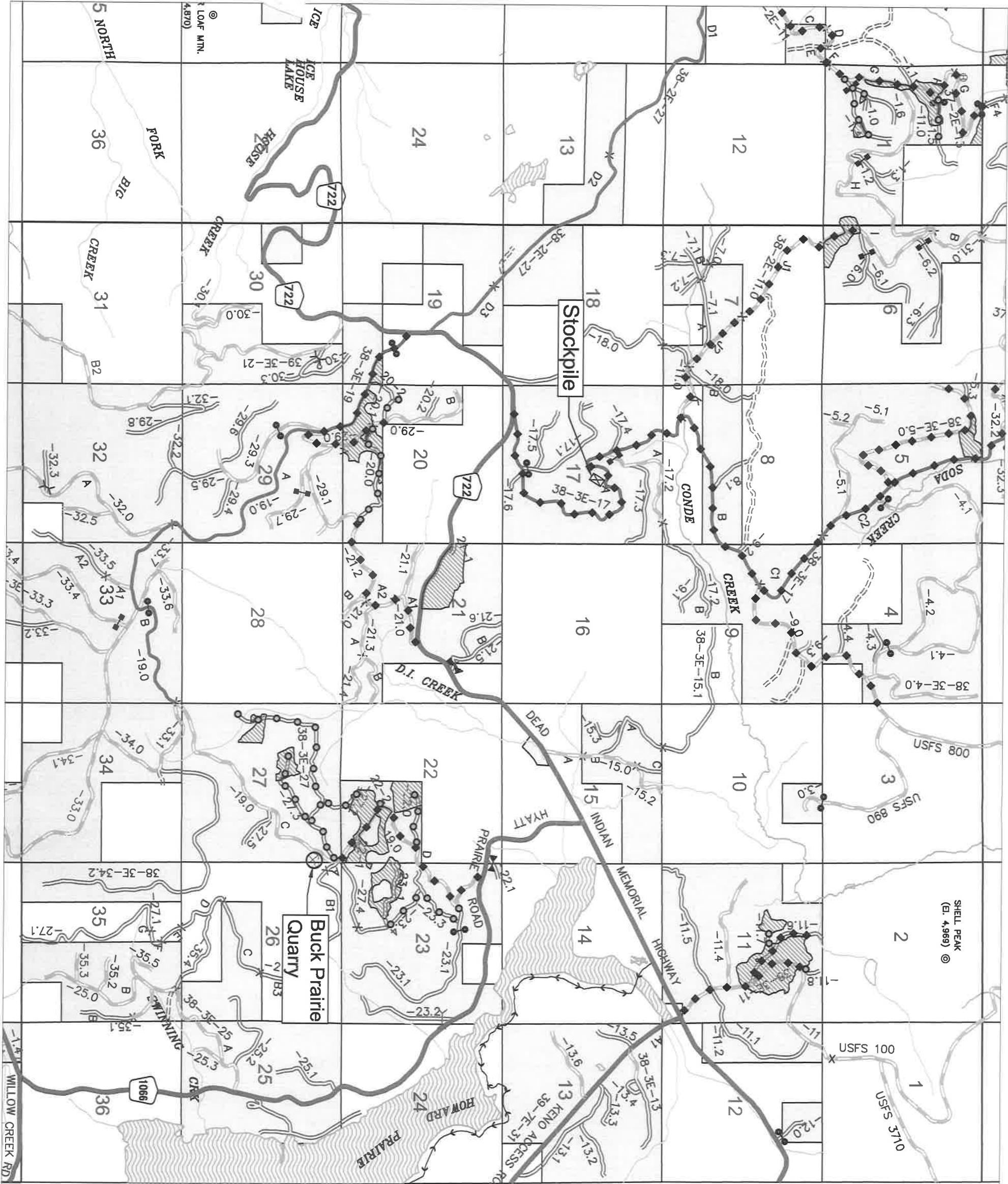
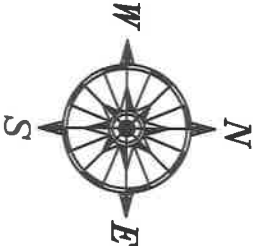
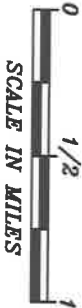
- EXISTING GATE
- EXISTING BARRICADE
- PUMP CHANCE
- QUARRY
- STOCKPILE FOR SPOT ROCKING

ROAD PROJECTS

- EXISTING ROAD
- EXISTING PAVED ROAD
- EXISTING PRIMITIVE ROAD
- OPERATOR MAINTENANCE
- BLM MAINTENANCE

- BLM LAND
- TS UNITS

T.38S.



R.3E.



United States of America
Department of the Interior
Bureau Of Land Management
Timber Sale Appraisal

District : Medford	Contract # : ORM06-TS15-16
Sale Name : South Fork Little Butte	Job File # : M111322
Sale Date : 09/17/2015	Master Unit : Jackson
Appraisal Method : 16' MBF	Planning Unit : Ashland

Contents

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Stumpage Summary	6
Prospectus	7
Exhibit B	10
Volume Summary	24
Stump to Truck Costs	38
Other Allowances Costs	39
Consolidated Comments	40

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Timber - Sale - Summary**

Medford
South Fork Little Butte
ORM06-TS15-16

Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	37S	3E	17	S1/2 NE1/4, NW1/4, N1/2SE1/4
O&C	37S	3E	18	Lot 3, Lot 4, SE1/4NE1/4, E1/2SW1/4, N1/2SE1/4, SW1/4SE1/4
O&C	37S	3E	19	Lot 1, Lot 2, Lot 3, E1/2NE1/4, SE1/4NW1/4, NE1/4SW1/4
O&C	37S	3E	20	SE ¼ NE ¼, NE ¼ SE ¼
O&C	37S	3E	29	S1/2SW1/4
O&C	37S	3E	30	Lot 1, Lot 2, Lot 3, Lot 4, SE ¼ NW ¼, E ½ SW ¼
O&C	37S	3E	31	Lot 1, Lot 2, N ½ NE ¼, SE ¼ NE ¼, SE ¼ NW ¼, E ½ SE ¼
O&C	37S	3E	32	Lot 1, Lot 2, Lot 3, Lot 4
O&C	37S	2E	13	N ½ SW ¼, SE ¼
PD	37S	2E	14	E1/2SE1/4
O&C	37S	2E	17	NE1/4, SE1/4
O&C	37S	2E	22	W1/2SE1/4
O&C	37S	2E	23	NE ¼, NW ¼, NW ¼ SW ¼
O&C	37S	2E	35	SW1/4, SE1/4SE1/4
O&C	38S	2E	1	NW1/4, SW1/4, SE1/4SE1/4
O&C	38S	2E	3	NE1/4NE1/4
O&C	38S	3E	5	2 Unnamed Lots
O&C	38S	3E	6	Unnamed Lot, SE1/4SW1/4
O&C	38S	3E	11	NE1/4, E1/2NW1/4, N1/2SE1/4
O&C	38S	3E	19	SE1/4SE1/4
O&C	38S	3E	20	E1/2SW1/4, SE1/4SW1/4, SW1/4SE1/4
O&C	38S	3E	21	NW1/4, NE1/4SW1/4
PD	38S	3E	22	SE1/4
O&C	38S	3E	23	SW1/4
O&C	38S	3E	27	S1/2NW1/4, N1/2SW1/4

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Cutting Volume (16' MBF)

Unit	DF	WF	IC	PP					Total	Regen	Partial	ROW
1-1	3	20							23	0	4	0
1-2	2								2	0	1	0
1-3	155	65	2						222	0	20	0
1-5	59	20	0	1					80	0	5	0
1-6	5	1							6	0	5	0
11-1A	196	334	0	1					531	0	76	0
13-1A	281	0							281	0	23	0
13-1B	53								53	0	5	0
13-1C	9								9	0	1	0
13-2	72	0		0					72	0	8	0
14-1	493	0	0	0					493	0	40	0
17-1A	307	2	1	3					313	0	15	0
17-1B	26	7	0	0					33	0	2	0
17-1C	19								19	0	3	0
17-1D	23								23	0	6	0
17-2A	513	0	1	0					514	0	26	0
17-2B	6								6	0	1	0
17-2C	22								22	0	4	0
17-3	64		1	4					69	0	4	0
17-4	128		4	10					142	0	13	0
17-5	221	0	5	6					232	0	17	0
17-6	178	0	9	5					192	0	12	0
18-3	88								88	0	5	0
18-4A	403								403	0	29	0
18-4B	300	0		0					300	0	26	0
18-4C	64			0					64	0	5	0
19-1A	144								144	0	9	0
19-1B	376								376	0	27	0
19-1C	225		0	0					225	0	15	0
19-4	34		0	2					36	0	6	0
20-1	7	194	1						202	0	46	0
20-4	92	0	13	17					122	0	6	0
21-1	113	166	2	0					281	0	44	0
22-1	269	338	7	0					614	0	65	0
22-2	28	125	4						157	0	20	0
22-4	48	3							51	0	7	0
23-10A	21								21	0	2	0
23-10B	202		1	3					206	0	12	0
23-2A	136		0						136	0	7	0
23-2B	98	0							98	0	4	0
23-2C	52		1	0					53	0	2	0
23-2D	116		0						116	0	8	0
23-3B	39	0	0	0					39	0	2	0
23-4	314	0	3	1					318	0	17	0
23-9	109		0	0					109	0	6	0
25-1A	85	2	0						87	0	15	0

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

25-3A	99	91	5						195	0	12	0
25-3B	186	43	3						232	0	12	0
25-3C	11	13							24	0	3	0
25-3D	60	12							72	0	1	0
25-4	43								43	0	6	0
25-5	81	0		0					81	0	5	0
25-6	26	1		0					27	0	2	0
27-1	7	54							61	0	12	0
27-3	13	61							74	0	11	0
29-2	59	1							60	0	13	0
30-2A	11	5							16	0	2	0
30-2B	111	42	1						154	0	20	0
30-2C	123	19							142	0	26	0
30-3	71								71	0	9	0
31-2A	92	13							105	0	9	0
31-2B	42	6							48	0	4	0
31-3	88	44	1	0					133	0	9	0
31-4	75	3							78	0	31	0
31-5	29	1							30	0	8	0
31-7	5								5	0	1	0
35-1A	316	24							340	0	17	0
35-1B	69	11	0						80	0	4	0
35-5A	24	4							28	0	1	0
35-5B	41	2							43	0	1	0
35-7	24	26							50	0	5	0
5-2A	52	3							55	0	11	0
5-3	13								13	0	3	0
6-1	19	68	5						92	0	18	0
Totals	7,988	1,824	70	53					9,935	0	932	0

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Logging Costs per 16' MBF

Stump to Truck	\$	197.67
Transportation	\$	50.84
Road Construction	\$	9.19
Road Amortization	\$	0.00
Road Maintenance	\$	6.70

Other Allowances :

Fuels Treatment	\$ 33.26
Misc	\$ 0.23
Other Costs	\$ 6.56
Total Other Allowances :	\$ 40.06

Total Logging Costs per 16' MBF

\$ 304.47

Utilization Centers

Center #1 : White City, OR 38 Miles
Center #2 0 Miles
Weighted distance to Utilization Centers 38

Length of Contract

Cutting and Removal Time 36 Months
Personal Property Removal Time 3 Months

Profit & Risk

Total Profit & Risk 11 %
Basic Profit & Risk 11 % + Additional Risk 0 %
Back Off 0 %

Tract Features

Avg Log Douglas-fir : 61 bf All : 60 bf
Recovery Douglas-fir : 87 % All : 87 %
Salvage Douglas-fir : 2 % All : 0 %
Avg Volume (16' MBF per Acre) 11
Avg Yarding Slope 40 %
Avg Yarding Distance (feet) 500
Avg Age 80
Volume Cable 26 %
Volume Ground 55 %
Volume Aerial 19 %
Road Construction Stations 0.00
Road Improvement Stations 0.00
Road Renovation Stations 0.00
Road Decommission Stations 0.00

Cruise

Cruised By Worman, Seimer
Date 04/01/2015
Type of Cruise 3-P, LVT
County, State Jackson, OR

Net Volume

Green (16' MBF) 9,935
Salvage (16' MBF) 0
Douglas-fir Peeler 159
Export Volume 0
Scaling Allowance (\$0.75 per 16' MBF) \$7,451.25

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Medford
South Fork Little Butte
ORM06-TS15-16

Stumpage Summary

Stumpage Computation (16' MBF)

Species	Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Cost	(+) Marginal Log Value	(-) Back Off	Appraised Price	Appraised Value
DF	37,831	7,988	\$ 515.71	\$ 56.73	\$ 304.47	\$ 1.11		\$ 155.60	\$ 1,242,932.80
WF	10,615	1,824	\$ 400.43	\$ 44.05	\$ 304.47			\$ 51.90	\$ 94,665.60
IC	940	70	\$ 495.07	\$ 54.46	\$ 304.47			\$ 136.10	\$ 9,527.00
PP	587	53	\$ 324.41	\$ 35.69	\$ 304.47			\$ 32.40	\$ 1,717.20
Totals	49,973	9,935							\$ 1,348,842.60

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
White Fir			1.0	52.0	38.0	9.0
Douglas-fir			2.0	52.0	41.0	5.0
Incense-cedar				32.0	52.0	14.0
Ponderosa Pine				23.0	59.0	18.0

Marginal Log Volume

Species	Grade #7	Grade #8
White Fir	2	5
Douglas-fir	126	59
Incense-cedar		
Ponderosa Pine		

Appraised By : Worman, Aaron

Date : 07/27/2015

Area Approval By : Worman, Aaron

Date : 07/30/2015

District Approval By :

Date :

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Prospectus

Appraisal Method : (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	37,831	7,988	6,554	
White Fir	10,615	1,824	1,448	
Incense-cedar	940	70	52	
Ponderosa Pine	587	53	41	
Total	49,973	9,935	8,095	

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
11,428	49,973	228	14.0	11,170	186,710	60

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
186,710	5,851	192,561	3.9	9,935	11,428	87 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
9,219	37,831	243	14.6	9,049	147,154	61

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
147,154	4,110	151,264	4.0	7,988	9,219	87 %

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Cutting Areas

Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres
1-1		4		4
1-2		1		1
1-3		20		20
1-5		5		5
1-6		5		5
11-1A		76		76
13-1A		23		23
13-1B		5		5
13-1C		1		1
13-2		8		8
14-1		40		40
17-1A		15		15
17-1B		2		2
17-1C		3		3
17-1D		6		6
17-2A		26		26
17-2B		1		1
17-2C		4		4
17-3		4		4
17-4		13		13
17-5		17		17
17-6		12		12
18-3		5		5
18-4A		29		29
18-4B		26		26
18-4C		5		5
19-1A		9		9
19-1B		27		27
19-1C		15		15
19-4		6		6
20-1		46		46
20-4		6		6
21-1		44		44
22-1		65		65
22-2		20		20
22-4		7		7
23-10A		2		2
23-10B		12		12
23-2A		7		7
23-2B		4		4
23-2C		2		2
23-2D		8		8
23-3B		2		2
23-4		17		17
23-9		6		6
25-1A		15		15
25-3A		12		12
25-3B		12		12
25-3C		3		3

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25-3D		1		1
25-4		6		6
25-5		5		5
25-6		2		2
27-1		12		12
27-3		11		11
29-2		13		13
30-2A		2		2
30-2B		20		20
30-2C		26		26
30-3		9		9
31-2A		9		9
31-2B		4		4
31-3		9		9
31-4		31		31
31-5		8		8
31-7		1		1
35-1A		17		17
35-1B		4		4
35-5A		1		1
35-5B		1		1
35-7		5		5
5-2A		11		11
5-3		3		3
6-1		18		18
Totals :		932		932

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Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 6, 9, or 11; (2) When payments are due; and (3) Value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the authorized officer, which has been cut or removed or designated for taking.

Except provided in Section 2, Purchaser shall be liable for the total purchase price even though the quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on the Exhibit A.

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	7,988		
White Fir	1,824		
Incense-cedar	70		
Ponderosa Pine	53		
Sale Totals	9,935		

Unit Details (16' MB)

Unit 1-1 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	3		
White Fir	20		
Unit Totals	23		

Unit 11-1A 76 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	196		
Incense-cedar			
Ponderosa Pine	1		
White Fir	334		
Unit Totals	531		

Unit 1-2 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	2		
Unit Totals	2		

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Unit 1-3 20 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	155		
Incense-cedar	2		
White Fir	65		
Unit Totals	222		

Unit 13-1A 23 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	281		
White Fir			
Unit Totals	281		

Unit 13-1B 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	53		
Unit Totals	53		

Unit 13-1C 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	9		
Unit Totals	9		

Unit 13-2 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	72		
Ponderosa Pine			
White Fir			
Unit Totals	72		

Unit 14-1 40 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	493		
Incense-cedar			
Ponderosa Pine			
White Fir			
Unit Totals	493		

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Species	Net Volume	Bid Price	Species Value
Douglas-fir	59		
Incense-cedar			
Ponderosa Pine	1		
White Fir	20		
Unit Totals	80		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	5		
White Fir	1		
Unit Totals	6		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	307		
Incense-cedar	1		
Ponderosa Pine	3		
White Fir	2		
Unit Totals	313		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	26		
Incense-cedar			
Ponderosa Pine			
White Fir	7		
Unit Totals	33		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	19		
Unit Totals	19		

Species	Net Volume	Bid Price	Species Value
Douglas-fir	23		
Unit Totals	23		

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Unit 17-2A 26 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	513		
Incense-cedar	1		
Ponderosa Pine			
White Fir			
Unit Totals	514		

Unit 17-2B 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	6		
Unit Totals	6		

Unit 17-2C 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	22		
Unit Totals	22		

Unit 17-3 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	64		
Incense-cedar	1		
Ponderosa Pine	4		
Unit Totals	69		

Unit 17-4 13 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	128		
Incense-cedar	4		
Ponderosa Pine	10		
Unit Totals	142		

Unit 17-5 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	221		
Incense-cedar	5		
Ponderosa Pine	6		
White Fir			
Unit Totals	232		

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Unit 17-6 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	178		
Incense-cedar	9		
Ponderosa Pine	5		
White Fir			
Unit Totals	192		

Unit 18-3 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	88		
Unit Totals	88		

Unit 18-4A 29 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	403		
Unit Totals	403		

Unit 18-4B 26 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	300		
Ponderosa Pine			
White Fir			
Unit Totals	300		

Unit 18-4C 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	64		
Ponderosa Pine			
Unit Totals	64		

Unit 19-1A 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	144		
Unit Totals	144		

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Unit 19-1B 27 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	376		
Unit Totals	376		

Unit 19-1C 15 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	225		
Incense-cedar			
Ponderosa Pine			
Unit Totals	225		

Unit 19-4 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	34		
Incense-cedar			
Ponderosa Pine	2		
Unit Totals	36		

Unit 20-1 46 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	7		
Incense-cedar	1		
White Fir	194		
Unit Totals	202		

Unit 20-4 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	92		
Incense-cedar	13		
Ponderosa Pine	17		
White Fir			
Unit Totals	122		

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Unit 21-1 44 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	2		
Ponderosa Pine			
White Fir	166		
Unit Totals	281		

Unit 22-1 65 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	269		
Incense-cedar	7		
Ponderosa Pine			
White Fir	338		
Unit Totals	614		

Unit 22-2 20 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	28		
Incense-cedar	4		
White Fir	125		
Unit Totals	157		

Unit 22-4 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
White Fir	3		
Unit Totals	51		

Unit 23-10A 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	21		
Unit Totals	21		

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Unit 23-10B 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	202		
Incense-cedar	1		
Ponderosa Pine	3		
Unit Totals	206		

Unit 23-2A 7 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	136		
Incense-cedar			
Unit Totals	136		

Unit 23-2B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	98		
White Fir			
Unit Totals	98		

Unit 23-2C 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	52		
Incense-cedar	1		
Ponderosa Pine			
Unit Totals	53		

Unit 23-2D 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	116		
Incense-cedar			
Unit Totals	116		

Unit 23-3B 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	39		
Incense-cedar			
Ponderosa Pine			
White Fir			
Unit Totals	39		

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Unit 23-4 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	314		
Incense-cedar	3		
Ponderosa Pine	1		
White Fir			
Unit Totals	318		

Unit 23-9 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	109		
Incense-cedar			
Ponderosa Pine			
Unit Totals	109		

Unit 25-1A 15 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	85		
Incense-cedar			
White Fir	2		
Unit Totals	87		

Unit 25-3A 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	99		
Incense-cedar	5		
White Fir	91		
Unit Totals	195		

Unit 25-3B 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	186		
Incense-cedar	3		
White Fir	43		
Unit Totals	232		

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Unit 25-3C 3 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	11		
White Fir	13		
Unit Totals	24		

Unit 25-3D 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	60		
White Fir	12		
Unit Totals	72		

Unit 25-4 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	43		
Unit Totals	43		

Unit 25-5 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	81		
Ponderosa Pine			
White Fir			
Unit Totals	81		

Unit 25-6 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	26		
Ponderosa Pine			
White Fir	1		
Unit Totals	27		

Unit 27-1 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	7		
White Fir	54		
Unit Totals	61		

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Unit 27-3 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	13		
White Fir	61		
Unit Totals	74		

Unit 29-2 13 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	59		
White Fir	1		
Unit Totals	60		

Unit 30-2A 2 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	11		
White Fir	5		
Unit Totals	16		

Unit 30-2B 20 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	111		
Incense-cedar	1		
White Fir	42		
Unit Totals	154		

Unit 30-2C 26 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	123		
White Fir	19		
Unit Totals	142		

Unit 30-3 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	71		
Unit Totals	71		

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Unit 31-2A 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	92		
White Fir	13		
Unit Totals	105		

Unit 31-2B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	42		
White Fir	6		
Unit Totals	48		

Unit 31-3 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	88		
Incense-cedar	1		
Ponderosa Pine			
White Fir	44		
Unit Totals	133		

Unit 31-4 31 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
White Fir	3		
Unit Totals	78		

Unit 31-5 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	29		
White Fir	1		
Unit Totals	30		

Unit 31-7 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	5		
Unit Totals	5		

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Unit 35-1A 17 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	316		
White Fir	24		
Unit Totals	340		

Unit 35-1B 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	69		
Incense-cedar			
White Fir	11		
Unit Totals	80		

Unit 35-5A 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	24		
White Fir	4		
Unit Totals	28		

Unit 35-5B 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	41		
White Fir	2		
Unit Totals	43		

Unit 35-7 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	24		
White Fir	26		
Unit Totals	50		

Unit 5-2A 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	52		
White Fir	3		
Unit Totals	55		

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Unit 5-3 3 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	13		
Unit Totals	13		

Unit 6-1 18 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	19		
Incense-cedar	5		
White Fir	68		
Unit Totals	92		

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Volume Summary**

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Sale Volume Totals

932 Acres 0 Regen 932 Partial 0 R/W 74 Units

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Net	16' MBF GM	16' MBF Gross	32' MBF Net	32' MBF GM	32' MBF Gross	CCF Net	CCF GM	CCF Gross
Douglas-fir	37,831	147,154	4,110	7,988	9,049	9,219	6,554	7,444	7,582	0	0	0
White Fir	10,615	35,991	1,687	1,824	1,985	2,070	1,448	1,577	1,648	0	0	0
Incense-cedar	940	2,048	5	70	76	77	52	57	57	0	0	0
Ponderosa Pine	587	1,517	49	53	60	62	41	48	49	0	0	0
Totals	49,973	186,710	5,851	9,935	11,170	11,428	8,095	9,126	9,336	0	0	0

Unit Totals

Unit : 1-1 4 Acres 0 Regen 4 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	171	508	29	23	21	20
Douglas-fir	25	81	2	3	3	3
Unit Totals	196	589	31	26	24	23

Unit : 1-2 1 Acres 0 Regen 1 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	4	38	1	3	2	2
Unit Totals	4	38	1	3	2	2

Unit : 1-3 20 Acres 0 Regen 20 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	308	2,653	160	196	187	155
White Fir	374	1,373	13	71	71	65
Incense-cedar	20	47		2	2	2
Unit Totals	702	4,073	173	269	260	222

Unit : 1-5 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	290	1,100	28	68	67	59
White Fir	154	425	4	22	22	20
Ponderosa Pine	5	17	1	1	1	1
Incense-cedar	1	2				

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Unit Totals	450	1,544	33	91	90	80
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Unit : 1-6 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	3	86	2	5	5	5
White Fir	2	13		1	1	1
Unit Totals	5	99	2	6	6	6

Unit : 11-1A 76 Acres 0 Regen 76 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	1,404	4,961	409	392	367	334
Douglas-fir	660	2,677	136	225	219	196
Ponderosa Pine	6	18		1	1	1
Incense-cedar	1	4				
Unit Totals	2,071	7,660	545	618	587	531

Unit : 13-1A 23 Acres 0 Regen 23 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,161	5,353	108	322	317	281
White Fir	1	3				
Unit Totals	1,162	5,356	108	322	317	281

Unit : 13-1B 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	233	997	22	60	59	53
Unit Totals	233	997	22	60	59	53

Unit : 13-1C 1 Acres 0 Regen 1 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	36	167	3	10	10	9
Unit Totals	36	167	3	10	10	9

Unit : 13-2 8 Acres 0 Regen 8 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	442	1,369	28	82	81	72
Ponderosa Pine	1	3				
White Fir	1	3				

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Unit Totals	444	1,375	28	82	81	72
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Unit : 14-1 40 Acres 0 Regen 40 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,565	9,342	205	567	558	493
Incense-cedar	7	11				
Ponderosa Pine	1	1				
White Fir	3	5				
Unit Totals	2,576	9,359	205	567	558	493

Unit : 17-1A 15 Acres 0 Regen 15 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,570	5,787	124	352	346	307
Ponderosa Pine	15	73	2	3	3	3
White Fir	12	32		2	2	2
Incense-cedar	5	17		1	1	1
Unit Totals	1,602	5,909	126	358	352	313

Unit : 17-1B 2 Acres 0 Regen 2 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	123	495	10	30	29	26
White Fir	26	145	1	7	7	7
Ponderosa Pine	1	7				
Incense-cedar	3	4				
Unit Totals	153	651	11	37	36	33

Unit : 17-1C 3 Acres 0 Regen 3 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	139	479	22	21	20	19
Unit Totals	139	479	22	21	20	19

Unit : 17-1D 6 Acres 0 Regen 6 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	157	550	27	25	25	23
Unit Totals	157	550	27	25	25	23

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Unit : 17-2A 26 Acres 0 Regen 26 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,666	9,713	218	591	582	513
Incense-cedar	8	19		1	1	1
Ponderosa Pine	1	4				
White Fir	1	1				
Unit Totals	2,676	9,737	218	592	583	514

Unit : 17-2B 1 Acres 0 Regen 1 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	26	105	5	7	6	6
Unit Totals	26	105	5	7	6	6

Unit : 17-2C 4 Acres 0 Regen 4 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	94	371	20	24	24	22
Unit Totals	94	371	20	24	24	22

Unit : 17-3 4 Acres 0 Regen 4 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	479	1,216	25	73	72	64
Ponderosa Pine	56	118	4	5	5	4
Incense-cedar	14	26		1	1	1
Unit Totals	549	1,360	29	79	78	69

Unit : 17-4 13 Acres 0 Regen 13 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,024	2,437	49	146	144	128
Ponderosa Pine	152	281	10	12	11	10
Incense-cedar	71	99		4	4	4
Unit Totals	1,247	2,817	59	162	159	142

Unit : 17-5 17 Acres 0 Regen 17 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,658	4,203	85	252	249	221
Incense-cedar	89	135		6	6	5
Ponderosa Pine	74	157	5	7	6	6

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White Fir	4	8				
Unit Totals	1,825	4,503	90	265	261	232

Unit : 17-6 12 Acres 0 Regen 12 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,274	3,391	69	204	201	178
Incense-cedar	148	263		11	11	9
Ponderosa Pine	71	153	5	6	6	5
White Fir	1	1				
Unit Totals	1,494	3,808	74	221	218	192

Unit : 18-3 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	528	1,674	34	101	99	88
Unit Totals	528	1,674	34	101	99	88

Unit : 18-4A 29 Acres 0 Regen 29 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,037	7,439	235	476	464	403
Unit Totals	2,037	7,439	235	476	464	403

Unit : 18-4B 26 Acres 0 Regen 26 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,862	5,713	118	344	337	300
Ponderosa Pine	3	5				
White Fir	2	9				
Unit Totals	1,867	5,727	118	344	337	300

Unit : 18-4C 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	445	1,211	24	73	72	64
Ponderosa Pine	1	3				
Unit Totals	446	1,214	24	73	72	64

Unit : 19-1A 9 Acres 0 Regen 9 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,059	2,649	85	170	166	144

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Unit Totals	1,059	2,649	85	170	166	144
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Unit : 19-1B 27 Acres 0 Regen 27 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,316	7,000	200	440	431	376
Unit Totals	1,316	7,000	200	440	431	376

Unit : 19-1C 15 Acres 0 Regen 15 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,167	4,227	106	261	256	225
Ponderosa Pine	3	13		1	1	
Incense-cedar	5	5				
Unit Totals	1,175	4,245	106	262	257	225

Unit : 19-4 6 Acres 0 Regen 6 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	237	630	21	41	40	34
Ponderosa Pine	16	48	2	2	2	2
Incense-cedar	3	4				
Unit Totals	256	682	23	43	42	36

Unit : 20-1 46 Acres 0 Regen 46 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	1,184	3,844	242	226	212	194
Douglas-fir	43	152	6	8	7	7
Incense-cedar	14	38		1	1	1
Unit Totals	1,241	4,034	248	235	220	202

Unit : 20-4 6 Acres 0 Regen 6 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	387	1,740	41	106	105	92
Ponderosa Pine	117	466	16	19	19	17
Incense-cedar	118	354		14	14	13
White Fir	2	3				
Unit Totals	624	2,563	57	139	138	122

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Unit : 21-1 44 Acres 0 Regen 44 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	862	2,929	217	192	179	166
Douglas-fir	426	1,725	94	127	126	113
Incense-cedar	24	65		2	2	2
Ponderosa Pine	4	12				
Unit Totals	1,316	4,731	311	321	307	281

Unit : 22-1 65 Acres 0 Regen 65 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	2,369	7,314	457	389	368	338
Douglas-fir	1,131	4,433	221	301	297	269
Incense-cedar	111	264	3	8	8	7
Ponderosa Pine	5	15		1	1	
Unit Totals	3,616	12,026	681	699	674	614

Unit : 22-2 20 Acres 0 Regen 20 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	857	2,639	25	136	136	125
Douglas-fir	149	526	11	32	31	28
Incense-cedar	46	94		4	4	4
Unit Totals	1,052	3,259	36	172	171	157

Unit : 22-4 7 Acres 0 Regen 7 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	212	817	41	55	54	48
White Fir	25	75	4	3	3	3
Unit Totals	237	892	45	58	57	51

Unit : 23-10A 2 Acres 0 Regen 2 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	89	375	17	26	25	21
Unit Totals	89	375	17	26	25	21

Unit : 23-10B 12 Acres 0 Regen 12 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,072	3,847	79	231	228	202

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Ponderosa Pine	32	75	3	3	3	3
Incense-cedar	14	24		1	1	1
Unit Totals	1,118	3,946	82	235	232	206

Unit : 23-2A 7 Acres 0 Regen 7 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	598	2,594	52	156	154	136
Incense-cedar	1	2				
Unit Totals	599	2,596	52	156	154	136

Unit : 23-2B 4 Acres 0 Regen 4 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	505	1,865	38	112	110	98
White Fir	1	1				
Unit Totals	506	1,866	38	112	110	98

Unit : 23-2C 2 Acres 0 Regen 2 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	339	998	20	60	59	52
Incense-cedar	10	23		1	1	1
Ponderosa Pine	4	9				
Unit Totals	353	1,030	20	61	60	53

Unit : 23-2D 8 Acres 0 Regen 8 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	443	2,218	45	133	131	116
Incense-cedar	3	5				
Unit Totals	446	2,223	45	133	131	116

Unit : 23-3B 2 Acres 0 Regen 2 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	273	735	15	44	44	39
Incense-cedar	1	1				
Ponderosa Pine	2	4				
White Fir	2	3				
Unit Totals	278	743	15	44	44	39

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Unit : 23-4 17 Acres 0 Regen 17 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,852	5,986	124	360	355	314
Incense-cedar	47	76		3	3	3
Ponderosa Pine	7	16	1	1	1	1
White Fir	1	1				
Unit Totals	1,907	6,079	125	364	359	318

Unit : 23-9 6 Acres 0 Regen 6 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	812	2,081	44	126	124	109
Incense-cedar	5	6				
Ponderosa Pine	4	7				
Unit Totals	821	2,094	44	126	124	109

Unit : 25-1A 15 Acres 0 Regen 15 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	714	2,356	96	94	92	85
White Fir	13	41	2	2	2	2
Incense-cedar	1	4				
Unit Totals	728	2,401	98	96	94	87

Unit : 25-3A 12 Acres 0 Regen 12 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	234	1,879	42	114	112	99
White Fir	371	1,917	19	99	99	91
Incense-cedar	54	138		6	6	5
Unit Totals	659	3,934	61	219	217	195

Unit : 25-3B 12 Acres 0 Regen 12 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	407	3,510	86	216	212	186
White Fir	240	908	9	47	47	43
Incense-cedar	17	73		3	3	3
Unit Totals	664	4,491	95	266	262	232

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Unit : 25-3C 3 Acres 0 Regen 3 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	77	271	3	14	14	13
Douglas-fir	25	204	6	13	13	11
Unit Totals	102	475	9	27	27	24

Unit : 25-3D 1 Acres 0 Regen 1 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	94	1,020	65	76	73	60
White Fir	87	243	2	13	13	12
Unit Totals	181	1,263	67	89	86	72

Unit : 25-4 6 Acres 0 Regen 6 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	70	722	51	56	53	43
Unit Totals	70	722	51	56	53	43

Unit : 25-5 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	400	1,553	31	93	92	81
Ponderosa Pine	2	4				
White Fir	5	9				
Unit Totals	407	1,566	31	93	92	81

Unit : 25-6 2 Acres 0 Regen 2 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	164	487	10	29	29	26
White Fir	7	16		1	1	1
Ponderosa Pine	3	4				
Unit Totals	174	507	10	30	30	27

Unit : 27-1 12 Acres 0 Regen 12 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	245	1,138	11	59	59	54
Douglas-fir	26	130	3	8	8	7
Unit Totals	271	1,268	14	67	67	61

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Unit : 27-3 11 Acres 0 Regen 11 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	361	1,172	80	70	66	61
Douglas-fir	28	132	9	15	15	13
Unit Totals	389	1,304	89	85	81	74

Unit : 29-2 13 Acres 0 Regen 13 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	97	508	28	68	66	59
White Fir	7	24	2	1	1	1
Unit Totals	104	532	30	69	67	60

Unit : 30-2A 2 Acres 0 Regen 2 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	47	206	4	12	12	11
White Fir	27	98	1	5	5	5
Unit Totals	74	304	5	17	17	16

Unit : 30-2B 20 Acres 0 Regen 20 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	480	2,121	43	127	126	111
White Fir	271	895	9	46	46	42
Incense-cedar	2	23		1	1	1
Unit Totals	753	3,039	52	174	173	154

Unit : 30-2C 26 Acres 0 Regen 26 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	496	1,961	100	138	135	123
White Fir	75	270	21	21	20	19
Unit Totals	571	2,231	121	159	155	142

Unit : 30-3 9 Acres 0 Regen 9 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	346	1,289	64	80	78	71
Unit Totals	346	1,289	64	80	78	71

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Unit : 31-2A 9 Acres 0 Regen 9 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	379	1,757	35	106	104	92
White Fir	94	275	3	14	14	13
Unit Totals	473	2,032	38	120	118	105

Unit : 31-2B 4 Acres 0 Regen 4 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	171	796	16	48	47	42
White Fir	42	118	1	6	6	6
Unit Totals	213	914	17	54	53	48

Unit : 31-3 9 Acres 0 Regen 9 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	209	1,668	34	100	99	88
White Fir	204	923	9	48	48	44
Incense-cedar	12	30		1	1	1
Ponderosa Pine	1	4				
Unit Totals	426	2,625	43	149	148	133

Unit : 31-4 31 Acres 0 Regen 31 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	120	647	41	85	84	75
White Fir	5	24	3	3	3	3
Unit Totals	125	671	44	88	87	78

Unit : 31-5 8 Acres 0 Regen 8 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	57	495	27	36	34	29
White Fir	2	13		1	1	1
Unit Totals	59	508	27	37	35	30

Unit : 31-7 1 Acres 0 Regen 1 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	9	87	2	5	5	5
Unit Totals	9	87	2	5	5	5

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Unit : 35-1A 17 Acres 0 Regen 17 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	799	5,967	137	364	358	316
White Fir	129	515	5	27	27	24
Unit Totals	928	6,482	142	391	385	340

Unit : 35-1B 4 Acres 0 Regen 4 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	198	1,321	27	79	78	69
White Fir	97	239	2	12	12	11
Incense-cedar	3	4				
Unit Totals	298	1,564	29	91	90	80

Unit : 35-5A 1 Acres 0 Regen 1 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	39	434	16	28	28	24
White Fir	18	74	1	4	4	4
Unit Totals	57	508	17	32	32	28

Unit : 35-5B 1 Acres 0 Regen 1 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	45	725	37	51	49	41
White Fir	18	52		3	3	2
Unit Totals	63	777	37	54	52	43

Unit : 35-7 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	76	405	25	30	29	24
White Fir	122	538	5	28	28	26
Unit Totals	198	943	30	58	57	50

Unit : 5-2A 11 Acres 0 Regen 11 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	76	1,000	20	60	59	52
White Fir	8	60	1	3	3	3
Unit Totals	84	1,060	21	63	62	55

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Unit : 5-3 3 Acres 0 Regen 3 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	16	196	19	17	16	13
Unit Totals	16	196	19	17	16	13

Unit : 6-1 18 Acres 0 Regen 18 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	631	1,862	97	79	74	68
Douglas-fir	90	333	16	22	22	19
Incense-cedar	82	188	2	6	5	5
Unit Totals	803	2,383	115	107	101	92

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Stump to Truck Costs

Total (16' MBF)

Total Stump to Truck Costs	Net Volume	Cost / Net Volume
\$ 1,963,894.44	9,935	\$ 197.67

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Med Twr=40-70	MBF	2,893	\$ 193.96	\$ 561,126.28
Helicopter	MBF	2,104	\$ 378.98	\$ 797,373.92
Wheel Skidder	MBF	6,173	\$ 94.88	\$ 585,694.24
Subtotal				\$ 1,944,194.44

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Directional Felling	MBF	500	\$ 15.00	\$ 7,500.00
Subtotal				\$ 7,500.00

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Yarder / Loader	10	\$ 600.00	\$ 6,000.00
Delimber	5	\$ 440.00	\$ 2,200.00
Skidder	5	\$ 400.00	\$ 2,000.00
Dozer	5	\$ 400.00	\$ 2,000.00
Subtotal			\$ 12,200.00

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Medford
South Fork Little Butte
ORM06-TS15-16

Other Allowances Costs

Total (16' MBF)

Total Other Allowances Costs	Net Volume	Cost / Net Volume *	Total Buy Out Cost
\$397,999.28	9,935	\$40.06	\$0.00

Fuels Treatment

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Hand Pile, Cvr - Level 3	\$ 330,475.92	\$ 33.26	N	\$ 0.00
Subtotal	\$ 330,475.92	\$ 33.26		\$ 0.00

Misc

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Blocked Skid Roads	\$ 2,325.00	\$ 0.23		\$ 0.00
Subtotal	\$ 2,325.00	\$ 0.23		\$ 0.00

Other Costs

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Skid Location	\$ 583.36	\$ 0.06	N	\$ 0.00
Ripping	\$ 24,070.00	\$ 2.42	N	\$ 0.00
Lift Tree	\$ 2,250.00	\$ 0.23	N	\$ 0.00
Hand Seeding @ 17 lb seed per hour	\$ 5,720.00	\$ 0.58	N	\$ 0.00
Mulching (2 hours/5 bales)	\$ 15,600.00	\$ 1.57	N	\$ 0.00
Waterbar Skids	\$ 6,675.00	\$ 0.67	N	\$ 0.00
Equipment Washing	\$ 1,110.00	\$ 0.11	N	\$ 0.00
Equipment Washing	\$ 750.00	\$ 0.08	N	\$ 0.00
Landing Construction	\$ 5,850.00	\$ 0.59	N	\$ 0.00
Landing Clean up	\$ 1,950.00	\$ 0.20	N	\$ 0.00
Flaggers (2)	\$ 640.00	\$ 0.06	N	\$ 0.00
Subtotal	\$ 65,198.36	\$ 6.56		\$ 0.00

* Cost / Net Volume has been rounded to the nearest \$0.01 Subtotals may not tie to Sale Total Cost / Net Volume.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Consolidated Comments**

Medford
South Fork Little Butte
ORM06-TS15-16

General

Yarding & Loading

Yarding-

Three different types of yarding. Most of the ground is ground based Tractor logging with either Feller buncher or Hand falling. Aerial logging will occur over 149 acres in areas with limited access and steep slopes. Cable logging will make up the remainder.

Move Ins-

SFLB sale covers a large area and additional move ins were allowed due to the distances between cutting areas and landings, including paved roads and highways. Helicopter move in was included in Overall helicopter costs.

Road Costs

(see Engineering Appraisal for details).

Transportation

Logs will be taken out in two different directions, Deer Creek Units and Lake Creek units will be hauled to Hwy 140. 60% of volume will go to Hwy 140 and then to White City. The remainder of the volume will be hauled to Dead Indian Memorial Hwy. volume and distance are weighted to average 38 miles one way to White City, OR.

(see Transportation appendix for details).

Other Allowances

Fuels-

642 Acres of handpile and cover at level 3.

Skid Loaction- \$18.23/hr and 32 hours for locating skids.

Skid Ripping- Figured at 10% of external acres of tractor ground logging. 579 acres = 58 acres of skids to rip. and \$415/hr for ripping with D6 or bigger dozer.

Landing Construction- 26 total acres of landing in sale, 3 hours figured per acre to construct. 78 hours at \$75/hr. some landings already exist but still need improvement.

Landing Cleanup- 26 Acres and 1 hour per landing to cleanup. \$75/hr.

Mulching and seeding- All landings must be mulched and seeded. \$220/acre for seed. and \$600/acre for hand mulch. 26 acres total.

Water bar skids- 89 Hours total for equipment to water bar skids. \$75/hour for equipment costs.

Flaggers- One unit is adjacent to Dead Indian Memorial Hwy. and should have flaggers along road while trucks are loaded and logs are processed. 2 days figured with 2 flaggers. \$40/hr used for flagging operations.

Blocked Skid Roads- 31 hours allowed for blocked skids. \$75/hr for equipment to close and block skids.

Lift Trees- 15 total lift trees at \$150 per tree to rig and take down.

Prospectus

Salvage DF volume in Strata 2.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 5.2.0.9
Updated: 6/30/2014

Summary of All Roads and Projects

T.S. Contract Name: S Fork Little Butte Tract No: 15-16 Sale Date: Sept. 2015

Prepared by: Josh R Ph: 2258 Print Date: 7/27/2015 3:39:23 PM

Construction: 6.30 sta

Improve: 2.11 sta Renov: 1069.21 sta Decom: 275.08 sta Temp: 111.41 sta

200 Clearing and Grubbing: 0.4 acres	\$1,673.71
300 Excavation: 165 cy	\$789.44
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$11,690.79
Blading 15.68 mi	
700-1200 Surfacing:	\$17,228.99
Quarry Name: Buck Prairie 350 LCY	
Quarry Name: Soda Canyon 270 LCY	
Quarry Name: Shale Divide 360 LCY	
Quarry Name: Conde Crk Stockpile 230 LCY	
Quarry Name: SodaCanyon Stockpile 291 LCY	
1300 Geotextiles:	\$2,116.50
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.2 acres	\$700.56
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 23.4 acres	\$8,277.09
2300 Engineering: 6.30 sta.	\$937.69
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$42,713.08
Mobilization: Const. \$3,380.00 Surf. \$1,782.00.....	\$5,162.00
Quarry Development:	\$0.00
Total: 9,935 mbf @ \$9.189/mbf =	\$91,289.85

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-2E-15.00EF Road Name: Lost Deer Tie

Road Renovation: 0.59 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$590.63
Blading 0.59 mi	
700-1200 Surfacing:	\$2,859.66
Quarry Name: Soda Canyon 180 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$172.98
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,050.00
Mobilization: Const. \$183.40 Surf. \$213.70.....	\$397.10
Quarry Development:	\$0.00
Total:	\$5,070.37

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-2E-15.00EF Road Name: Lost Deer Tie

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.59 mi = \$263.57

Repair Drainage Damage

Tractor: D7 with rippers 2 hr x \$163.53/hr = \$327.06

Subtotal: \$590.63

Section 700-1200 Surfacing:

Pitrun Quarry Name: Soda Canyon

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									180 LCY

Rock Volume = 180 LCY

Ripping: 100% x \$0.92/LCY x 180 LCY = \$165.60

Processing: \$0.90/LCY x 180 LCY = \$162.00

Compaction: \$1.34/LCY x 180 LCY = \$241.20

Stockpiling & Loading: \$2.12/LCY x 180 LCY = \$381.60

Basic Rock Haul cost: \$0.74/LCY x 180 LCY = \$133.20

Rock Haul -15% grades: \$1.10/LCY-mi x 180 LCY x 8.97 mi= \$1,776.06

Subtotal: \$2,859.66

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.60 acres = \$172.98

Subtotal: \$172.98

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Construct Water Dip 6 EA x \$175.00/EA = \$1,050.00

Road Number: 37-2E-15.00EF Lost Deer Tie Continued

Subtotal: \$1,050.00

Mobilization:

Construction - 5.43% of total Costs = \$183.40

Surfacing - 11.99% by rock volume = \$213.70

Subtotal: \$397.10

Quarry Development:

Based on 11.99% of total rock volume

Subtotal: \$0.00

Total: \$5,070.37

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-2E-23.04 Road Name: Lazy Deer Spur

Road Renovation: 0.49 mi 14 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$382.64
Blading 0.49 mi	
700-1200 Surfacing:	\$492.45
Quarry Name: Soda Canyon 30 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.5 acres	\$144.15
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$175.00
Mobilization: Const. \$46.87 Surf. \$35.62.....	\$82.48
Quarry Development:	\$0.00

Total: \$1,276.72

Notes:

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

Road Construction Worksheet

Road Number: 37-2E-23.04 Road Name: Lazy Deer Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.49 mi = \$218.90

Clean Culverts: \$334.17/mi x 0.49 mi = \$163.74

Subtotal: \$382.64

Section 700-1200 Surfacing:

Pitrun Quarry Name: Soda Canyon

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									30 LCY

Rock Volume = 30 LCY

Ripping: 100% x \$0.92/LCY x 30 LCY = \$27.60

Processing: \$0.90/LCY x 30 LCY = \$27.00

Compaction: \$1.34/LCY x 30 LCY = \$40.20

Stockpiling & Loading: \$2.12/LCY x 30 LCY = \$63.60

Basic Rock Haul cost: \$0.74/LCY x 30 LCY = \$22.20

Rock Haul -15% grades: \$1.10/LCY-mi x 30 LCY x 9.45 mi= \$311.85

Subtotal: \$492.45

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.50 acres = \$144.15

Subtotal: \$144.15

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Construct Water Dip 1 EA x \$175.00/EA = \$175.00

Subtotal: \$175.00

Road Number: 37-2E-23.04 Lazy Deer Spur Continued

Mobilization:

Construction - 1.39% of total Costs = \$46.87

Surfacing - 2.00% by rock volume = \$35.62

Subtotal: \$82.48

Quarry Development:

Based on 2.00% of total rock volume

Subtotal: \$0.00

Total: \$1,276.72

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-2E-24.04B Road Name:

Road Decommission: 0.82 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$312.71
Blading 0.70 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.7 acres	\$201.81
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,150.00
Mobilization: Const. \$65.32 Surf. \$0.00.....	\$65.32
Quarry Development:	\$0.00
Total:	\$1,729.84

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-2E-24.04B Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$446.73/\text{mi} \times 0.70 \text{ mi} = \312.71

Subtotal: \$312.71

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: $\$288.30/\text{acre} \times 0.70 \text{ acres} = \201.81

Subtotal: \$201.81

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x $\$250.00/\text{EA} = \250.00

Construct Waterbar 18 EA x $\$50.00/\text{EA} = \900.00

Subtotal: \$1,150.00

Mobilization:

Construction - 1.93% of total Costs = \$65.32

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$65.32

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,729.84

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-2E-24.04C Road Name:

Road Construction: 0.12 mi 15 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: 0.4 acres	\$1,673.71
300 Excavation: 165 cy	\$789.44
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$60.92
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 6.30 sta.	\$937.69
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$135.85 Surf. \$0.00.....	\$135.85
Quarry Development:	\$0.00
Total:	\$3,597.61

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-2E-24.04C Road Name:

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

16-30% (Avg Side Slopes): Adjustment Factor (0.1)

Scatter (Slash): Adjustment Factor (0.94)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1)

Total Adjustment Factor: $2.54 + 0.1 + 0.94 + 0.1 = 3.68$

Base Cost/Acre: \$1,263.37 x Adjustment Factor: 3.68 x Total Acres: 0.36 = \$1,673.71
Subtotal: \$1,673.71

Section 300 Excavation:

Excavation - Common: $\$1.93/\text{cy} \times 165 \text{ cy} = \318.45

Subgrade Compaction: 4 Sta/hr $\$33.62/\text{sta.} \times 6.3 \text{ sta} = \211.81

Slope Rounding: $\$0.29/\text{lf} \times 630 \text{ lf} = \182.70

Blading without ditch: $\$12.14/\text{station} \times 6.30 \text{ stations} = \76.48

Subtotal: \$789.44

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing: Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $\$609.18/\text{acre} \times 0.10 \text{ acres} = \60.92

Includes Small Quantity Factor of 1.60

Subtotal: \$60.92

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Both Sides Normal: $\$148.84/\text{sta} \times 6.30 \text{ sta} = \937.69

Subtotal: \$937.69

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Road Number: 37-2E-24.04C Continued

Construction - 4.02% of total Costs = \$135.85

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$135.85

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,597.61

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-2E-25.03 Road Name:

Road Decommission: 0.25 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$102.75
Blading 0.23 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.2 acres	\$230.64
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$625.00
Mobilization: Const. \$37.61 Surf. \$0.00.....	\$37.61
Quarry Development:	\$0.00
Total:	\$996.00

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-2E-25.03 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.23 mi = \$102.75

Subtotal: \$102.75

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: \$1153.20/acre x 0.20 acres = \$230.64

Subtotal: \$230.64

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Construct Waterbar 6 EA x \$50.00/EA = \$300.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Subtotal: \$625.00

Mobilization:

Construction - 1.11% of total Costs = \$37.61

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$37.61

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 37-2E-25.03 Continued

Total: \$996.00

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-2E-25.05 Road Name: Deer Crk Spur

Road Decommission: 0.46 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$205.50
Blading 0.46 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.4 acres	\$230.64
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$925.00
Mobilization: Const. \$53.42 Surf. \$0.00.....	\$53.42
Quarry Development:	\$0.00
Total:	\$1,414.55

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-2E-25.05 Road Name: Deer Crk Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.46 mi = \$205.50

Subtotal: \$205.50

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Medium: \$576.60/acre x 0.40 acres = \$230.64

Subtotal: \$230.64

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Construct Waterbar 12 EA x \$50.00/EA = \$600.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Subtotal: \$925.00

Mobilization:

Construction - 1.58% of total Costs = \$53.42

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$53.42

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 37-2E-25.05 Deer Crk Spur Continued

Total: \$1,414.55

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-2E-36.00 Road Name: Lost Deer

Road Decommission: 0.60 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$368.29
Blading 0.60 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$172.98
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,201.21
Mobilization: Const. \$68.38 Surf. \$0.00.....	\$68.38
Quarry Development:	\$0.00
Total:	\$1,810.86

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-2E-36.00 Road Name: Lost Deer

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.60 mi = \$268.04

Clean Culverts: \$334.17/mi x 0.30 mi = \$100.25

Subtotal: \$368.29

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.60 acres = \$172.98

Subtotal: \$172.98

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Construct Waterbar 16 EA x \$50.00/EA = \$800.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Remove Gate

Backhoe 1 hr x \$76.21/hr = \$76.21

Subtotal: \$1,201.21

Mobilization:

Construction - 2.02% of total Costs = \$68.38

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$68.38

Road Number: 37-2E-36.00 Lost Deer Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,810.86

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-3E-18.04 Road Name: Soda Crk Spur

Road Renovation: 0.71 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$497.24
Blading 0.16 mi	
700-1200 Surfacing:	\$346.59
Quarry Name: Soda Canyon 30 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.7 acres	\$204.69
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$175.00
Mobilization: Const. \$48.02 Surf. \$35.62.....	\$83.63
Quarry Development:	\$0.00

Total: \$1,307.15

Notes:

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

Road Construction Worksheet

Road Number: 37-3E-18.04 Road Name: Soda Crk Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.16 mi = \$71.48

Road Relocation

Excavator -Small (1.5 CY) 3 hr x \$97.09/hr = \$291.27

Vibratory roller, Steel Drum 1 hr x \$134.49/hr = \$134.49

Subtotal: \$497.24

Section 700-1200 Surfacing:

Pitrun Quarry Name: Soda Canyon

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#Tos</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									30 LCY

Rock Volume = 30 LCY

Ripping: 100% x \$0.92/LCY x 30 LCY = \$27.60

Processing: \$0.90/LCY x 30 LCY = \$27.00

Compaction: \$1.34/LCY x 30 LCY = \$40.20

Stockpiling & Loading: \$2.12/LCY x 30 LCY = \$63.60

Basic Rock Haul cost: \$0.74/LCY x 30 LCY = \$22.20

Rock Haul -15% grades: \$1.10/LCY-mi x 30 LCY x 5.03 mi= \$165.99

Subtotal: \$346.59

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.71 acres = \$204.69

Subtotal: \$204.69

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Road Number: 37-3E-18.04 Soda Crk Spur Continued

Construct Water Dip 1 EA x \$175.00/EA = \$175.00

Subtotal: \$175.00

Mobilization:

Construction - 1.42% of total Costs = \$48.02

Surfacing - 2.00% by rock volume = \$35.62

Subtotal: \$83.63

Quarry Development:

Based on 2.00% of total rock volume

Subtotal: \$0.00

Total: \$1,307.15

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-3E-18.05 Road Name: Soda Crk Spur

Road Decommission: 0.10 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$31.27
Blading 0.07 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$115.32
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$425.00
Mobilization: Const. \$22.43 Surf. \$0.00.....	\$22.43
Quarry Development:	\$0.00
Total:	\$594.02

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-3E-18.05 Road Name: Soda Crk Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$446.73/\text{mi} \times 0.07 \text{ mi} = \31.27

Subtotal: \$31.27

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: $\$1153.20/\text{acre} \times 0.10 \text{ acres} = \115.32

Subtotal: \$115.32

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x $\$250.00/\text{EA} = \250.00

Construct Waterbar 2 EA x $\$50.00/\text{EA} = \100.00

Camouflage Entrance 1 EA x $\$75.00/\text{EA} = \75.00

Subtotal: \$425.00

Mobilization:

Construction - 0.66% of total Costs = \$22.43

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$22.43

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 37-3E-18.05 Soda Crk Spur Continued

Total: \$594.02

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-3E-19.00 Road Name: West Soda

Road Renovation: 3.60 mi 16 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,471.05
Blading 0.60 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 3.5 acres	\$1,009.05
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$97.33 Surf. \$0.00.....	\$97.33
Quarry Development:	\$0.00
Total:	\$2,577.43

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-3E-19.00 Road Name: West Soda

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.60 mi = \$268.04

Clean Culverts: \$334.17/mi x 3.60 mi = \$1,203.01

Subtotal: \$1,471.05

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 3.50 acres = \$1,009.05

Subtotal: \$1,009.05

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.88% of total Costs = \$97.33

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$97.33

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$2,577.43

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-3E-21.01 Road Name: Poole Hill Spur A

Road Renovation: 0.64 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$285.91
Blading 0.64 mi	
700-1200 Surfacing:	\$4,418.24
Quarry Name: Conde Crk Stockpile 95 LCY	
Quarry Name: SodaCanyon Stockpile 191 LCY	
1300 Geotextiles:	\$2,116.50
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$172.98
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$274.46 Surf. \$339.54.....	\$614.00
Quarry Development:	\$0.00

Total: \$7,607.62

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-3E-21.01 Road Name: Poole Hill Spur A

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.64 mi = \$285.91

Subtotal: \$285.91

Section 700-1200 Surfacing:

BLM Stockpile Quarry Name: Conde Crk Stockpile

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									95 LCY

Rock Volume = 95 LCY

Processing: \$0.90/LCY x 95 LCY = \$85.50

Compaction: \$1.34/LCY x 95 LCY = \$127.30

Stockpiling & Loading: \$2.12/LCY x 95 LCY = \$201.40

Basic Rock Haul cost: \$0.74/LCY x 95 LCY = \$70.30

Rock Haul -15% grades: \$1.10/LCY-mi x 95 LCY x 8.86 mi= \$925.87

BLM Stockpile Quarry Name: SodaCanyon Stockpile

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									191 LCY

Rock Volume = 191 LCY

Processing: \$0.90/LCY x 191 LCY = \$171.90

Compaction: \$1.34/LCY x 191 LCY = \$255.94

Stockpiling & Loading: \$2.12/LCY x 191 LCY = \$404.92

Basic Rock Haul cost: \$0.74/LCY x 191 LCY = \$141.34

Rock Haul -15% grades: \$1.10/LCY-mi x 191 LCY x 9.68 mi= \$2,033.77

Subtotal: \$4,418.24

Section 1300 Geotextiles:

Install Geotextile Fabric

Medium strength, Non-Woven 1245 sy x \$1.70/sy = \$2,116.50

Subtotal: \$2,116.50

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.60 acres = \$172.98

Subtotal: \$172.98

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Road Number: 37-3E-21.01 Poole Hill Spur A Continued

	Subtotal:	\$0.00
Section 2500 Gabions:		
	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
	Subtotal:	\$0.00
Mobilization:		
Construction - 8.12% of total Costs = \$274.46		
Surfacing - 19.05% by rock volume = \$339.54		
	Subtotal:	\$614.00
Quarry Development:		
Based on 19.05% of total rock volume		
	Subtotal:	\$0.00
	Total:	\$7,607.62

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-3E-21.02 Road Name: Poole Hill Spur B

Road Renovation: 0.44 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$196.56
Blading 0.44 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.4 acres	\$115.32
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$12.24 Surf. \$0.00.....	\$12.24
Quarry Development:	\$0.00
Total:	\$324.12

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-3E-21.02 Road Name: Poole Hill Spur B

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.44 mi = \$196.56

Subtotal: \$196.56

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.40 acres = \$115.32

Subtotal: \$115.32

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.36% of total Costs = \$12.24

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$12.24

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$324.12

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-3E-30.04 Road Name: Soda Crk Spur

Road Renovation: 0.50 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$223.37
Blading 0.50 mi	
700-1200 Surfacing:	\$653.45
Quarry Name: SodaCanyon Stockpile 70 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.5 acres	\$144.15
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$40.07 Surf. \$83.10.....	\$123.17
Quarry Development:	\$0.00

Total: \$1,144.14

Notes:

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

Road Construction Worksheet

Road Number: 37-3E-30.04 Road Name: Soda Crk Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.50 mi = \$223.37

Subtotal: \$223.37

Section 700-1200 Surfacing:

BLM Stockpile Quarry Name: SodaCanyon Stockpile

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									70 LCY

Rock Volume = 70 LCY

Processing: \$0.90/LCY x 70 LCY = \$63.00

Compaction: \$1.34/LCY x 70 LCY = \$93.80

Stockpiling & Loading: \$2.12/LCY x 70 LCY = \$148.40

Basic Rock Haul cost: \$0.74/LCY x 70 LCY = \$51.80

Rock Haul -15% grades: \$1.10/LCY-mi x 70 LCY x 3.85 mi= \$296.45

Subtotal: \$653.45

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.50 acres = \$144.15

Subtotal: \$144.15

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.19% of total Costs = \$40.07

Surfacing - 4.66% by rock volume = \$83.10

Road Number: 37-3E-30.04 Soda Crk Spur Continued

Subtotal: \$123.17

Quarry Development:

Based on 4.66% of total rock volume

Subtotal: \$0.00

Total: \$1,144.14

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 37-3E-32.05 Road Name:

Road Decommission: 0.93 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$415.46
Blading 0.93 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.9 acres	\$259.47
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,575.00
Mobilization: Const. \$88.30 Surf. \$0.00.....	\$88.30
Quarry Development:	\$0.00
Total:	\$2,338.23

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 37-3E-32.05 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$446.73/\text{mi} \times 0.93 \text{ mi} = \415.46

Subtotal: \$415.46

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: $\$288.30/\text{acre} \times 0.90 \text{ acres} = \259.47

Subtotal: \$259.47

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x $\$250.00/\text{EA} = \250.00

Construct Waterbar 25 EA x $\$50.00/\text{EA} = \$1,250.00$

Camouflage Entrance 1 EA x $\$75.00/\text{EA} = \75.00

Subtotal: \$1,575.00

Mobilization:

Construction - 2.61% of total Costs = \$88.30

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$88.30

Quarry Development:

Based on 0.00% of total rock volume

Road Number: 37-3E-32.05 Continued

Subtotal: \$0.00

Total: \$2,338.23

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-2E-01.00 Road Name:

Road Renovation: 0.20 mi 14 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$89.35
Blading 0.20 mi	
700-1200 Surfacing:	\$907.11
Quarry Name: Shale Divide 90 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.2 acres	\$57.66
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$601.21
Mobilization: Const. \$64.96 Surf. \$106.85.....	\$171.81
Quarry Development:	\$0.00

Total: \$1,827.14

Notes:

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

Road Construction Worksheet

Road Number: 38-2E-01.00 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.20 mi = \$89.35

Subtotal: \$89.35

Section 700-1200 Surfacing:

Pitrun Quarry Name: Shale Divide

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									90 LCY

Rock Volume = 90 LCY

Ripping: 100% x \$0.92/LCY x 90 LCY = \$82.80

Processing: \$0.90/LCY x 90 LCY = \$81.00

Compaction: \$1.34/LCY x 90 LCY = \$120.60

Stockpiling & Loading: \$2.12/LCY x 90 LCY = \$190.80

Basic Rock Haul cost: \$0.74/LCY x 90 LCY = \$66.60

Rock Haul -15% grades: \$1.10/LCY-mi x 90 LCY x 3.69 mi= \$365.31

Subtotal: \$907.11

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.20 acres = \$57.66

Subtotal: \$57.66

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Remove Gate Posts

Backhoe 1 hr x \$76.21/hr = \$76.21

Armored Waterdip

Construct Water Dip 3 EA x \$175.00/EA = \$525.00

Subtotal: \$601.21

Mobilization:

Construction - 1.92% of total Costs = \$64.96

Surfacing - 6.00% by rock volume = \$106.85

Subtotal: \$171.81

Quarry Development:

Based on 6.00% of total rock volume

Subtotal: \$0.00

Total: \$1,827.14

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-2E-01.01 Road Name: Shale Conde Divide

Road Decommission: 0.14 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$652.06
Mobilization: Const. \$25.59 Surf. \$0.00.....	\$25.59
Quarry Development:	\$0.00
Total:	\$677.65

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-2E-01.01 Road Name: Shale Conde Divide

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Decompact Road Surface 2 hr x \$163.53/hr = \$327.06

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Subtotal: \$652.06

Mobilization:

Construction - 0.76% of total Costs = \$25.59

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$25.59

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$677.65

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-2E-01.04 Road Name:

Road Renovation: 0.32 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$142.95
Blading 0.32 mi	
700-1200 Surfacing:	\$307.32
Quarry Name: Shale Divide 30 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.3 acres	\$86.49
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$175.00
Mobilization: Const. \$27.93 Surf. \$35.62.....	\$63.55
Quarry Development:	\$0.00
Total:	\$775.31

Notes:

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

Road Construction Worksheet

Road Number: 38-2E-01.04 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.32 mi = \$142.95

Subtotal: \$142.95

Section 700-1200 Surfacing:

Pitrun Quarry Name: Shale Divide

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									30 LCY

Rock Volume = 30 LCY

Ripping: 100% x \$0.92/LCY x 30 LCY = \$27.60

Processing: \$0.90/LCY x 30 LCY = \$27.00

Compaction: \$1.34/LCY x 30 LCY = \$40.20

Stockpiling & Loading: \$2.12/LCY x 30 LCY = \$63.60

Basic Rock Haul cost: \$0.74/LCY x 30 LCY = \$22.20

Rock Haul -15% grades: \$1.10/LCY-mi x 30 LCY x 3.84 mi= \$126.72

Subtotal: \$307.32

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.30 acres = \$86.49

Subtotal: \$86.49

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Construct Water Dip 1 EA x \$175.00/EA = \$175.00

Subtotal: \$175.00

Road Number: 38-2E-01.04 Continued

Mobilization:

Construction - 0.83% of total Costs = \$27.93

Surfacing - 2.00% by rock volume = \$35.62

Subtotal: \$63.55

Quarry Development:

Based on 2.00% of total rock volume

Subtotal: \$0.00

Total: \$775.31

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-2E-01.05 Road Name:

Road Renovation: 0.30 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$134.02
Blading 0.30 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.3 acres	\$86.49
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$8.65 Surf. \$0.00.....	\$8.65
Quarry Development:	\$0.00
Total:	\$229.16

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-2E-01.05 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.30 mi = \$134.02

Subtotal: \$134.02

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.30 acres = \$86.49

Subtotal: \$86.49

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.26% of total Costs = \$8.65

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$8.65

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$229.16

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-2E-01.06 Road Name:

Road Decommission: 0.35 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$775.00
Mobilization: Const. \$30.41 Surf. \$0.00.....	\$30.41
Quarry Development:	\$0.00
Total:	\$805.41

Notes:

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

Road Construction Worksheet

Road Number: 38-2E-01.06 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure

Construct Waterbar 9 EA x \$50.00/EA = \$450.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Subtotal: \$775.00

Mobilization:

Construction - 0.90% of total Costs = \$30.41

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$30.41

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$805.41

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-2E-03.01 Road Name: Shale Divide A Spur

Road Renovation: 1.02 mi 16 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$982.53
Blading 1.02 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.0 acres	\$288.30
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$49.87 Surf. \$0.00.....	\$49.87
Quarry Development:	\$0.00
Total:	\$1,320.70

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-2E-03.01 Road Name: Shale Divide A Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 1.02 mi = \$455.66

Clean Culverts: \$334.17/mi x 1.02 mi = \$340.85

Repair Drainage Damage

Dump Truck 12 cy 1 hr x \$93.87/hr = \$93.87

Front End Loader 924H (2.2CY) 1 hr x \$92.14/hr = \$92.14

Subtotal: \$982.53

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 1.00 acres = \$288.30

Subtotal: \$288.30

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.48% of total Costs = \$49.87

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$49.87

Quarry Development:

Based on 0.00% of total rock volume

Road Number: 38-2E-03.01 Shale Divide A Spur Continued

Subtotal: \$0.00

Total: \$1,320.70

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-2E-03.08 Road Name: Lost Deer

Road Renovation: 1.00 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$446.73
Blading 1.00 mi	
700-1200 Surfacing:	\$708.12
Quarry Name: Shale Divide 90 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.0 acres	\$288.30
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$525.00
Mobilization: Const. \$77.24 Surf. \$106.85.....	\$184.09
Quarry Development:	\$0.00

Total: \$2,152.24

Notes:

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

Road Construction Worksheet

Road Number: 38-2E-03.08 Road Name: Lost Deer

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 1.00 mi = \$446.73

Subtotal: \$446.73

Section 700-1200 Surfacing:

Pitrun Quarry Name: Shale Divide

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									90 LCY

Rock Volume = 90 LCY

Ripping: 100% x \$0.92/LCY x 90 LCY = \$82.80

Processing: \$0.90/LCY x 90 LCY = \$81.00

Compaction: \$1.34/LCY x 90 LCY = \$120.60

Stockpiling & Loading: \$2.12/LCY x 90 LCY = \$190.80

Basic Rock Haul cost: \$0.74/LCY x 90 LCY = \$66.60

Rock Haul -15% grades: \$1.10/LCY-mi x 90 LCY x 1.68 mi= \$166.32

Subtotal: \$708.12

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 1.00 acres = \$288.30

Subtotal: \$288.30

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Construct Water Dip 3 EA x \$175.00/EA = \$525.00

Subtotal: \$525.00

Road Number: 38-2E-03.08 Lost Deer Continued

Mobilization:

Construction - 2.29% of total Costs = \$77.24

Surfacing - 6.00% by rock volume = \$106.85

Subtotal: \$184.09

Quarry Development:

Based on 6.00% of total rock volume

Subtotal: \$0.00

Total: \$2,152.24

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-05.00 Road Name: Conde Crk Extend Sp2

Road Renovation: 1.46 mi 16 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,140.11
Blading 1.46 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.5 acres	\$144.15
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$50.40 Surf. \$0.00.....	\$50.40
Quarry Development:	\$0.00
Total:	\$1,334.66

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-05.00 Road Name: Conde Crk Extend Sp2

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 1.46 mi = \$652.23

Clean Culverts: \$334.17/mi x 1.46 mi = \$487.89

Subtotal: \$1,140.11

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.50 acres = \$144.15

Subtotal: \$144.15

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.49% of total Costs = \$50.40

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$50.40

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,334.66

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-11.00 Road Name: Shell Peak

Road Renovation: 0.88 mi 16 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.9 acres	\$259.47
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$10.18 Surf. \$0.00.....	\$10.18
Quarry Development:	\$0.00
Total:	\$269.65

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-11.00 Road Name: Shell Peak

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.90 acres = \$259.47

Subtotal: \$259.47

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.30% of total Costs = \$10.18

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$10.18

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$269.65

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-11.06 Road Name:

Road Renovation: 0.59 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$172.98
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$6.79 Surf. \$0.00.....	\$6.79
Quarry Development:	\$0.00
Total:	\$179.77

Notes:

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

Road Construction Worksheet

Road Number: 38-3E-11.06 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.60 acres = \$172.98

Subtotal: \$172.98

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.20% of total Costs = \$6.79

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$6.79

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$179.77

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-11.07 Road Name:

Road Decommission: 0.14 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$62.54
Blading 0.14 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$115.32
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$525.00
Mobilization: Const. \$27.58 Surf. \$0.00.....	\$27.58
Quarry Development:	\$0.00
Total:	\$730.45

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-11.07 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$446.73/\text{mi} \times 0.14 \text{ mi} = \62.54

Subtotal: \$62.54

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: $\$1153.20/\text{acre} \times 0.10 \text{ acres} = \115.32

Subtotal: \$115.32

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x $\$250.00/\text{EA} = \250.00

Construct Waterbar 4 EA x $\$50.00/\text{EA} = \200.00

Camouflage Entrance 1 EA x $\$75.00/\text{EA} = \75.00

Subtotal: \$525.00

Mobilization:

Construction - 0.82% of total Costs = \$27.58

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$27.58

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 38-3E-11.07 Continued

Total: \$730.45

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-19.00D Road Name: Buck Prairie

Road Renovation: 1.60 mi 16 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.6 acres	\$461.28
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$18.10 Surf. \$0.00.....	\$18.10
Quarry Development:	\$0.00
Total:	\$479.38

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-19.00D Road Name: Buck Prairie

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 1.60 acres = \$461.28

Subtotal: \$461.28

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.54% of total Costs = \$18.10

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$18.10

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$479.38

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-20.00 Road Name: W Fork Dead Indian

Road Renovation: 0.80 mi 12 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,278.84
Blading 0.80 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.8 acres	\$230.64
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$59.24 Surf. \$0.00.....	\$59.24
Quarry Development:	\$0.00
Total:	\$1,568.72

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-20.00 Road Name: W Fork Dead Indian

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$446.73/\text{mi} \times 0.80 \text{ mi} = \357.38

Clean Culverts: $\$334.17/\text{mi} \times 0.80 \text{ mi} = \267.34

Repair Drainage Damage

Tractor: D7 with rippers 4 hr x $\$163.53/\text{hr} = \654.12

Subtotal: \$1,278.84

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: $\$288.30/\text{acre} \times 0.80 \text{ acres} = \230.64

Subtotal: \$230.64

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.75% of total Costs = \$59.24

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$59.24

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 38-3E-20.00 W Fork Dead Indian Continued

Total: \$1,568.72

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-20.01 Road Name: Buck Prairie Spur

Road Decommission: 0.19 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$84.88
Blading 0.19 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.2 acres	\$230.64
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$575.00
Mobilization: Const. \$34.95 Surf. \$0.00.....	\$34.95
Quarry Development:	\$0.00
Total:	\$925.47

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-20.01 Road Name: Buck Prairie Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.19 mi = \$84.88

Subtotal: \$84.88

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: \$1153.20/acre x 0.20 acres = \$230.64

Subtotal: \$230.64

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Construct Waterbar 5 EA x \$50.00/EA = \$250.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Subtotal: \$575.00

Mobilization:

Construction - 1.03% of total Costs = \$34.95

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$34.95

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 38-3E-20.01 Buck Prairie Spur Continued

Total: \$925.47

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-21.00 Road Name: Burnt Indian

Road Renovation: 0.67 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$172.98
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$6.79 Surf. \$0.00.....	\$6.79
Quarry Development:	\$0.00
Total:	\$179.77

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-21.00 Road Name: Burnt Indian

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.60 acres = \$172.98

Subtotal: \$172.98

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.20% of total Costs = \$6.79

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$6.79

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$179.77

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-21.02 Road Name:

Road Renovation: 0.60 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$172.98
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$6.79 Surf. \$0.00.....	\$6.79
Quarry Development:	\$0.00
Total:	\$179.77

Notes:

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

Road Construction Worksheet

Road Number: 38-3E-21.02 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.60 acres = \$172.98

Subtotal: \$172.98

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.20% of total Costs = \$6.79

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$6.79

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$179.77

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-22.00 Road Name:

Road Decommission: 0.40 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$178.69
Blading 0.40 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.4 acres	\$461.28
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$875.00
Mobilization: Const. \$59.45 Surf. \$0.00.....	\$59.45
Quarry Development:	\$0.00
Total:	\$1,574.43

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-22.00 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.40 mi = \$178.69

Subtotal: \$178.69

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: \$1153.20/acre x 0.40 acres = \$461.28

Subtotal: \$461.28

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Construct Waterbar 11 EA x \$50.00/EA = \$550.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Subtotal: \$875.00

Mobilization:

Construction - 1.76% of total Costs = \$59.45

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$59.45

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 38-3E-22.00 Continued

Total: \$1,574.43

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-23.01 Road Name:

Road Renovation: 0.12 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$53.61
Blading 0.12 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$28.83
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$3.24 Surf. \$0.00.....	\$3.24
Quarry Development:	\$0.00
Total:	\$85.67

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-23.01 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.12 mi = \$53.61

Subtotal: \$53.61

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.10 acres = \$28.83

Subtotal: \$28.83

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.10% of total Costs = \$3.24

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$3.24

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$85.67

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-23.03 Road Name:

Road Renovation: 0.32 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$142.95
Blading 0.32 mi	
700-1200 Surfacing:	\$1,459.47
Quarry Name: Shale Divide 90 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.3 acres	\$86.49
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$525.00
Mobilization: Const. \$86.88 Surf. \$106.85.....	\$193.73
Quarry Development:	\$0.00

Total: \$2,407.64

Notes:

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

Road Construction Worksheet

Road Number: 38-3E-23.03 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.32 mi = \$142.95

Subtotal: \$142.95

Section 700-1200 Surfacing:

Pitrun Quarry Name: Shale Divide

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									90 LCY

Rock Volume = 90 LCY

Ripping: 100% x \$0.92/LCY x 90 LCY = \$82.80

Processing: \$0.90/LCY x 90 LCY = \$81.00

Compaction: \$1.34/LCY x 90 LCY = \$120.60

Stockpiling & Loading: \$2.12/LCY x 90 LCY = \$190.80

Basic Rock Haul cost: \$0.74/LCY x 90 LCY = \$66.60

Rock Haul -15% grades: \$1.10/LCY-mi x 90 LCY x 7.10 mi= \$702.90

Rock Haul St& Co Roads: \$0.49/LCY-mi x 90 LCY x 4.87 mi= \$214.77

Subtotal: \$1,459.47

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.30 acres = \$86.49

Subtotal: \$86.49

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Construct Water Dip 3 EA x \$175.00/EA = \$525.00

Subtotal: \$525.00

Mobilization:

Construction - 2.57% of total Costs = \$86.88

Surfacing - 6.00% by rock volume = \$106.85

Subtotal: \$193.73

Quarry Development:

Based on 6.00% of total rock volume

Subtotal: \$0.00

Total: \$2,407.64

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-23.04 Road Name:

Road Renovation: 0.34 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$151.89
Blading 0.34 mi	
700-1200 Surfacing:	\$996.08
Quarry Name: Shale Divide 60 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.3 acres	\$86.49
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$350.00
Mobilization: Const. \$62.18 Surf. \$71.23.....	\$133.41
Quarry Development:	\$0.00

Total: \$1,717.87

Notes:

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

Road Construction Worksheet

Road Number: 38-3E-23.04 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.34 mi = \$151.89

Subtotal: \$151.89

Section 700-1200 Surfacing:

Pitrun Quarry Name: Shale Divide

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									60 LCY

Rock Volume = 60 LCY

Ripping: 100% x \$0.92/LCY x 60 LCY = \$55.20

Processing: \$0.90/LCY x 60 LCY = \$54.00

Compaction: \$1.34/LCY x 60 LCY = \$80.40

Stockpiling & Loading: \$2.12/LCY x 60 LCY = \$127.20

Basic Rock Haul cost: \$0.74/LCY x 60 LCY = \$44.40

Rock Haul -15% grades: \$1.10/LCY-mi x 60 LCY x 7.45 mi= \$491.70

Rock Haul St& Co Roads: \$0.49/LCY-mi x 60 LCY x 4.87 mi= \$143.18

Subtotal: \$996.08

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.30 acres = \$86.49

Subtotal: \$86.49

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Construct Water Dip 2 EA x \$175.00/EA = \$350.00

Subtotal: \$350.00

Mobilization:

Construction - 1.84% of total Costs = \$62.18

Surfacing - 4.00% by rock volume = \$71.23

Subtotal: \$133.41

Quarry Development:

Based on 4.00% of total rock volume

Subtotal: \$0.00

Total: \$1,717.87

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-27.00 Road Name:

Road Renovation: 1.47 mi 14 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$512.23
Blading 0.81 mi	
700-1200 Surfacing:	\$1,942.50
Quarry Name: Buck Prairie 350 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.4 acres	\$403.62
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$112.17 Surf. \$415.52.....	\$527.70
Quarry Development:	\$0.00

Total: \$3,386.04

Notes:

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

Road Construction Worksheet

Road Number: 38-3E-27.00 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.81 mi = \$361.85

Clean Culverts: \$334.17/mi x 0.45 mi = \$150.38

Subtotal: \$512.23

Section 700-1200 Surfacing:

Borrow Quarry Name: Buck Prairie

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									350 LCY

Rock Volume = 350 LCY

Ripping: 100% x \$0.92/LCY x 350 LCY = \$322.00

Processing: \$0.90/LCY x 350 LCY = \$315.00

Compaction: \$1.34/LCY x 350 LCY = \$469.00

Basic Rock Haul cost: \$0.74/LCY x 350 LCY = \$259.00

Rock Haul -15% grades: \$1.10/LCY-mi x 350 LCY x 1.50 mi= \$577.50

Subtotal: \$1,942.50

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 1.40 acres = \$403.62

Subtotal: \$403.62

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 3.32% of total Costs = \$112.17

Road Number: 38-3E-27.00 Continued

Surfacing - 23.32% by rock volume = \$415.52

Subtotal: \$527.70

Quarry Development:

Based on 23.32% of total rock volume

Subtotal: \$0.00

Total: \$3,386.04

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-27.02 Road Name: Dead Indian Crk Spur

Road Decommission: 0.35 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$156.36
Blading 0.35 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.3 acres	\$86.49
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$775.00
Mobilization: Const. \$39.94 Surf. \$0.00.....	\$39.94
Quarry Development:	\$0.00
Total:	\$1,057.79

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-27.02 Road Name: Dead Indian Crk Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.35 mi = \$156.36

Subtotal: \$156.36

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.30 acres = \$86.49

Subtotal: \$86.49

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Construct Waterbar 9 EA x \$50.00/EA = \$450.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Subtotal: \$775.00

Mobilization:

Construction - 1.18% of total Costs = \$39.94

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$39.94

Quarry Development:

Based on 0.00% of total rock volume

Road Number: 38-3E-27.02 Dead Indian Crk Spur Continued

Subtotal: \$0.00

Total: \$1,057.79

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-27.03 Road Name:

Road Renovation: 0.60 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$345.96
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$13.58 Surf. \$0.00.....	\$13.58
Quarry Development:	\$0.00
Total:	\$359.54

Notes:

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

Road Construction Worksheet

Road Number: 38-3E-27.03 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Medium: \$576.60/acre x 0.60 acres = \$345.96

Subtotal: \$345.96

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.40% of total Costs = \$13.58

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$13.58

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$359.54

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 38-3E-29.00 Road Name:

Road Renovation: 0.68 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$531.01
Blading 0.68 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.7 acres	\$201.81
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$28.76 Surf. \$0.00.....	\$28.76
Quarry Development:	\$0.00
Total:	\$761.58

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 38-3E-29.00 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.68 mi = \$303.78

Clean Culverts: \$334.17/mi x 0.68 mi = \$227.24

Subtotal: \$531.01

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.70 acres = \$201.81

Subtotal: \$201.81

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.85% of total Costs = \$28.76

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$28.76

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$761.58

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 830 USFS Road Name:

Road Renovation: 0.22 mi 14 ft Subgrade 3 ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$246.23
Blading 0.21 mi	
700-1200 Surfacing:	\$940.80
Quarry Name: Soda Canyon 30 LCY	
Quarry Name: SodaCanyon Stockpile 30 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.2 acres	\$57.66
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$175.00
Mobilization: Const. \$55.71 Surf. \$71.23.....	\$126.95
Quarry Development:	\$0.00

Total: \$1,546.64

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 830 USFS Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.21 mi = \$93.81

Repair Drainage Damage

Backhoe 2 hr x \$76.21/hr = \$152.42

Subtotal: \$246.23

Section 700-1200 Surfacing:

Pitrun Quarry Name: Soda Canyon

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									30 LCY

Rock Volume = 30 LCY

Ripping: 100% x \$0.92/LCY x 30 LCY = \$27.60

Processing: \$0.90/LCY x 30 LCY = \$27.00

Compaction: \$1.34/LCY x 30 LCY = \$40.20

Stockpiling & Loading: \$2.12/LCY x 30 LCY = \$63.60

Basic Rock Haul cost: \$0.74/LCY x 30 LCY = \$22.20

Rock Haul -15% grades: \$1.10/LCY-mi x 30 LCY x 9.20 mi= \$303.60

BLM Stockpile Quarry Name: SodaCanyon Stockpile

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									30 LCY

Rock Volume = 30 LCY

Processing: \$0.90/LCY x 30 LCY = \$27.00

Compaction: \$1.34/LCY x 30 LCY = \$40.20

Stockpiling & Loading: \$2.12/LCY x 30 LCY = \$63.60

Basic Rock Haul cost: \$0.74/LCY x 30 LCY = \$22.20

Rock Haul -15% grades: \$1.10/LCY-mi x 30 LCY x 9.20 mi= \$303.60

Subtotal: \$940.80

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.20 acres = \$57.66

Subtotal: \$57.66

Section 2300 Engineering:

Subtotal: \$0.00

Road Number: 830 USFS Continued

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Armored Waterdip

Construct Water Dip 1 EA x \$175.00/EA = \$175.00

Subtotal: \$175.00

Mobilization:

Construction - 1.65% of total Costs = \$55.71

Surfacing - 4.00% by rock volume = \$71.23

Subtotal: \$126.95

Quarry Development:

Based on 4.00% of total rock volume

Subtotal: \$0.00

Total: \$1,546.64

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: 831 USFS Road Name:

Road Renovation: 0.09 mi 14 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$40.21
Blading 0.09 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$28.83
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$2.71 Surf. \$0.00.....	\$2.71
Quarry Development:	\$0.00
Total:	\$71.74

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 831 USFS Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.09 mi = \$40.21

Subtotal: \$40.21

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.10 acres = \$28.83

Subtotal: \$28.83

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.08% of total Costs = \$2.71

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$2.71

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$71.74

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: T37 R2E Sp 23-2 Road Name:

Road Decommission: 0.09 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$40.21
Blading 0.09 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$115.32
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$425.00
Mobilization: Const. \$22.78 Surf. \$0.00.....	\$22.78
Quarry Development:	\$0.00
Total:	\$603.31

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: T37 R2E Sp 23-2 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.09 mi = \$40.21

Subtotal: \$40.21

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: \$1153.20/acre x 0.10 acres = \$115.32

Subtotal: \$115.32

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Closure After Haul

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Construct Waterbar 2 EA x \$50.00/EA = \$100.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Subtotal: \$425.00

Mobilization:

Construction - 0.67% of total Costs = \$22.78

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$22.78

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: T37 R2E Sp 23-2 Continued

Total: \$603.31

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: T37 R2E Sp 25-3 Road Name:

Road Decommission: 0.10 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$44.67
Blading 0.10 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$115.32
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$652.06
Mobilization: Const. \$31.87 Surf. \$0.00.....	\$31.87
Quarry Development:	\$0.00
Total:	\$843.92

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: T37 R2E Sp 25-3 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.10 mi = \$44.67

Subtotal: \$44.67

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: \$1153.20/acre x 0.10 acres = \$115.32

Subtotal: \$115.32

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Full Decommission

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Decompact Road Surface 2 hr x \$163.53/hr = \$327.06

Subtotal: \$652.06

Mobilization:

Construction - 0.94% of total Costs = \$31.87

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$31.87

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: T37 R2E Sp 25-3 Continued

Total: \$843.92

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: T37 R3E Sp 30-3 Road Name:

Road Decommission: 0.10 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$44.67
Blading 0.10 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$115.32
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$652.06
Mobilization: Const. \$31.87 Surf. \$0.00.....	\$31.87
Quarry Development:	\$0.00
Total:	\$843.92

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: T37 R3E Sp 30-3 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.10 mi = \$44.67

Subtotal: \$44.67

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: \$1153.20/acre x 0.10 acres = \$115.32

Subtotal: \$115.32

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Full Decommission

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Decompact Road Surface 2 hr x \$163.53/hr = \$327.06

Subtotal: \$652.06

Mobilization:

Construction - 0.94% of total Costs = \$31.87

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$31.87

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: T37 R3E Sp 30-3 Continued

Total: \$843.92

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: T38 R3E Sp 21-1 Road Name:

Road Decommission: 0.10 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$44.67
Blading 0.10 mi	
700-1200 Surfacing:	\$437.70
Quarry Name: Conde Crk Stockpile 60 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$115.32
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$2,152.06
Mobilization: Const. \$107.91 Surf. \$71.23.....	\$179.14
Quarry Development:	\$0.00
Total:	\$2,928.90

Notes:

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

Road Construction Worksheet

Road Number: T38 R3E Sp 21-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.10 mi = \$44.67

Subtotal: \$44.67

Section 700-1200 Surfacing:

BLM Stockpile Quarry Name: Conde Crk Stockpile

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									60 LCY

Rock Volume = 60 LCY

Processing: \$0.90/LCY x 60 LCY = \$54.00

Compaction: \$1.34/LCY x 60 LCY = \$80.40

Stockpiling & Loading: \$2.12/LCY x 60 LCY = \$127.20

Basic Rock Haul cost: \$0.74/LCY x 60 LCY = \$44.40

Rock Haul -15% grades: \$1.10/LCY-mi x 60 LCY x 1.55 mi= \$102.30

Rock Haul St& Co Roads: \$0.49/LCY-mi x 60 LCY x 1.00 mi= \$29.40

Subtotal: \$437.70

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Heavy: \$1153.20/acre x 0.10 acres = \$115.32

Subtotal: \$115.32

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Install/Remove Temporary CMP

Temporary Culvert 1 EA x \$1,500.00/EA = \$1,500.00

Full Decommission

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Road Number: T38 R3E Sp 21-1 Continued

Decompact Road Surface 2 hr x \$163.53/hr = \$327.06

Subtotal: \$2,152.06

Mobilization:

Construction - 3.19% of total Costs = \$107.91

Surfacing - 4.00% by rock volume = \$71.23

Subtotal: \$179.14

Quarry Development:

Based on 4.00% of total rock volume

Subtotal: \$0.00

Total: \$2,928.90

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: T38 R3E Sp 22-1 Road Name:

Road Decommission: 0.09 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$40.21
Blading 0.09 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$57.66
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$652.06
Mobilization: Const. \$29.43 Surf. \$0.00.....	\$29.43
Quarry Development:	\$0.00
Total:	\$779.36

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: T38 R3E Sp 22-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$446.73/\text{mi} \times 0.09 \text{ mi} = \40.21

Subtotal: \$40.21

Section 700-1200 Surfacing:
Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

RoadSide Brushing Medium: $\$576.60/\text{acre} \times 0.10 \text{ acres} = \57.66

Subtotal: \$57.66

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Full Decommission

Install Earth Berm Barricade 1 EA x $\$250.00/\text{EA} = \250.00

Camouflage Entrance 1 EA x $\$75.00/\text{EA} = \75.00

Decompact Road Surface 2 hr x $\$163.53/\text{hr} = \327.06

Subtotal: \$652.06

Mobilization:

Construction - 0.87% of total Costs = \$29.43

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$29.43

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: T38 R3E Sp 22-1 Continued

Total: \$779.36

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: T38 R3E Sp 22-2 Road Name:

Road Improvement: 0.04 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$17.87
Blading 0.04 mi	
700-1200 Surfacing:	\$759.50
Quarry Name: Conde Crk Stockpile 75 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$28.83
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$31.64 Surf. \$89.04.....	\$120.68
Quarry Development:	\$0.00
Total:	\$926.88

Notes:

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

Road Construction Worksheet

Road Number: T38 R3E Sp 22-2 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$446.73/mi x 0.04 mi = \$17.87

Subtotal: \$17.87

Section 700-1200 Surfacing:

BLM Stockpile Quarry Name: Conde Crk Stockpile

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									75 LCY

Rock Volume = 75 LCY

Processing: \$0.90/LCY x 75 LCY = \$67.50

Compaction: \$1.34/LCY x 75 LCY = \$100.50

Stockpiling & Loading: \$2.12/LCY x 75 LCY = \$159.00

Basic Rock Haul cost: \$0.74/LCY x 75 LCY = \$55.50

Rock Haul -15% grades: \$1.10/LCY-mi x 75 LCY x 2.73 mi= \$225.23

Rock Haul St& Co Roads: \$0.49/LCY-mi x 75 LCY x 4.13 mi= \$151.78

Subtotal: \$759.50

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$288.30/acre x 0.10 acres = \$28.83

Subtotal: \$28.83

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.94% of total Costs = \$31.64

Road Number: T38 R3E Sp 22-2 Continued

Surfacing - 5.00% by rock volume = \$89.04

Subtotal: \$120.68

Quarry Development:

Based on 5.00% of total rock volume

Subtotal: \$0.00

Total: \$926.88

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 13-1 Road Name:

Temporary Road: 0.05 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,116.77
Mobilization: Const. \$45.02 Surf. \$0.00.....	\$45.02
Quarry Development:	\$0.00
Total:	\$1,192.25

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 13-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.05 Mi x \$12,564.74/Mi = \$628.24

Full Decommission

Decompact Road Surface 1 hr x \$163.53/hr = \$163.53

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Subtotal: \$1,116.77

Mobilization:

Construction - 1.33% of total Costs = \$45.02

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$45.02

Quarry Development:

Road Number: Temp 13-1 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,192.25

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 17-1 Road Name:

Temporary Road: 0.86 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.4 acres	\$243.67
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$2,941.48
Mobilization: Const. \$125.00 Surf. \$0.00.....	\$125.00
Quarry Development:	\$0.00
Total:	\$3,310.15

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 17-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.40 acres = \$243.67

Includes Small Quantity Factor of 1.60

Subtotal: \$243.67

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Tractor: D7 with rippers 8 hr x \$163.53/hr = \$1,308.24

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 8 hr x \$163.53/hr = \$1,308.24

Subtotal: \$2,941.48

Mobilization:

Construction - 3.70% of total Costs = \$125.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$125.00

Quarry Development:

Road Number: Temp 17-1 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,310.15

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 17-2 Road Name:

Temporary Road: 0.24 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$3,667.60
Mobilization: Const. \$145.13 Surf. \$0.00.....	\$145.13
Quarry Development:	\$0.00
Total:	\$3,843.18

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 17-2 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.24 Mi x \$12,564.74/Mi = \$3,015.54

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 2 hr x \$163.53/hr = \$327.06

Subtotal: \$3,667.60

Mobilization:

Construction - 4.29% of total Costs = \$145.13

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$145.13

Quarry Development:

Road Number: Temp 17-2 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,843.18

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 18-1 Road Name:

Temporary Road: 0.05 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,116.77
Mobilization: Const. \$45.02 Surf. \$0.00.....	\$45.02
Quarry Development:	\$0.00
Total:	\$1,192.25

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 18-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.05 Mi x \$12,564.74/Mi = \$628.24

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 1 hr x \$163.53/hr = \$163.53

Subtotal: \$1,116.77

Mobilization:

Construction - 1.33% of total Costs = \$45.02

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$45.02

Quarry Development:

Road Number: Temp 18-1 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,192.25

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 20-1 Road Name:

Temporary Road: 0.05 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,116.77
Mobilization: Const. \$45.02 Surf. \$0.00.....	\$45.02
Quarry Development:	\$0.00
Total:	\$1,192.25

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 20-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.05 Mi x \$12,564.74/Mi = \$628.24

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 1 hr x \$163.53/hr = \$163.53

Subtotal: \$1,116.77

Mobilization:

Construction - 1.33% of total Costs = \$45.02

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$45.02

Quarry Development:

Road Number: Temp 20-1 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,192.25

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 20-2 Road Name:

Temporary Road: 0.14 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$2,329.36
Mobilization: Const. \$92.61 Surf. \$0.00.....	\$92.61
Quarry Development:	\$0.00
Total:	\$2,452.43

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 20-2 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.14 Mi x \$12,564.74/Mi = \$1,759.06

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 1.5 hr x \$163.53/hr = \$245.30

Subtotal: \$2,329.36

Mobilization:

Construction - 2.74% of total Costs = \$92.61

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$92.61

Quarry Development:

Road Number: Temp 20-2 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$2,452.43

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 23-1 Road Name:

Temporary Road: 0.46 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.2 acres	\$121.84
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$6,758.90
Mobilization: Const. \$270.03 Surf. \$0.00.....	\$270.03
Quarry Development:	\$0.00
Total:	\$7,150.76

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 23-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.20 acres = \$121.84

Includes Small Quantity Factor of 1.60

Subtotal: \$121.84

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.46 Mi x \$12,564.74/Mi = \$5,779.78

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 4 hr x \$163.53/hr = \$654.12

Subtotal: \$6,758.90

Mobilization:

Construction - 7.99% of total Costs = \$270.03

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$270.03

Quarry Development:

Road Number: Temp 23-1 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$7,150.76

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 25-1 Road Name:

Temporary Road: 0.07 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,368.06
Mobilization: Const. \$54.88 Surf. \$0.00.....	\$54.88
Quarry Development:	\$0.00
Total:	\$1,453.40

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 25-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.07 Mi x \$12,564.74/Mi = \$879.53

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 1 hr x \$163.53/hr = \$163.53

Subtotal: \$1,368.06

Mobilization:

Construction - 1.62% of total Costs = \$54.88

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$54.88

Quarry Development:

Road Number: Temp 25-1 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,453.40

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 25-2 Road Name:

Temporary Road: 0.03 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$865.47
Mobilization: Const. \$35.16 Surf. \$0.00.....	\$35.16
Quarry Development:	\$0.00
Total:	\$931.09

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 25-2 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.03 Mi x \$12,564.74/Mi = \$376.94

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 1 hr x \$163.53/hr = \$163.53

Subtotal: \$865.47

Mobilization:

Construction - 1.04% of total Costs = \$35.16

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$35.16

Quarry Development:

Road Number: Temp 25-2 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$931.09

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 25-3 Road Name:

Temporary Road: 0.04 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$991.12
Mobilization: Const. \$40.09 Surf. \$0.00.....	\$40.09
Quarry Development:	\$0.00
Total:	\$1,061.67

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 25-3 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.04 Mi x \$12,564.74/Mi = \$502.59

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 1 hr x \$163.53/hr = \$163.53

Subtotal: \$991.12

Mobilization:

Construction - 1.19% of total Costs = \$40.09

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$40.09

Quarry Development:

Road Number: Temp 25-3 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,061.67

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: S Fork Little Butte Sale Date: Sept. 2015

Road Number: Temp 30-1 Road Name:

Temporary Road: 0.12 mi 12 ft Subgrade ft ditch 6/30/2014

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$30.46
Includes Small Quantity Factor of 1.60	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$2,078.06
Mobilization: Const. \$82.75 Surf. \$0.00.....	\$82.75
Quarry Development:	\$0.00
Total:	\$2,191.27

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Temp 30-1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$609.18/acre x 0.05 acres = \$30.46

Includes Small Quantity Factor of 1.60

Subtotal: \$30.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Temporary Spur Construction

Temporary Spur Construction 0.12 Mi x \$12,564.74/Mi = \$1,507.77

Full Decommission

Camouflage Entrance 1 EA x \$75.00/EA = \$75.00

Install Earth Berm Barricade 1 EA x \$250.00/EA = \$250.00

Decompact Road Surface 1.5 hr x \$163.53/hr = \$245.30

Subtotal: \$2,078.06

Mobilization:

Construction - 2.45% of total Costs = \$82.75

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$82.75

Quarry Development:

Road Number: Temp 30-1 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$2,191.27

Sale: S Fork Little Butte
Sale Date: Sept. 2015
Prep. By : Josh R
Tract No: 15-16

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1) Road Use - Amortization: (1) \$0.00/9935 MBF = \$0.00/MBF ^{1/}
(R-3b) (Tot Sale Vol)

2) Road Maintenance Obligation:

$$\frac{\$30338.20}{(2.1)} + \frac{\$9145.54}{(2.2)} + \frac{\$0.00}{(3.1)} + \frac{\$1381.19}{(3.2)} + \frac{\$301.55}{(5.1)} = \frac{\$41166.48}{(R-2)}$$

3) Other Maintenance Payments:

$$\frac{\$3543.24}{(4.1)}$$

4). Purchaser Maintenance Allowances:

(5.2A) Move In	\$912.05
(5.2B) Culverts, Catch Basins, Downspouts	\$795.32
(5.2C) Grading, Ditching	\$5681.75
(5.2D) Slide Removal and Slump Repair	\$0.00
(5.2E) Dust Palliative (Water)	\$14510.34
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00

Total (5.2) =
$$\frac{\$21899.47}{(Ex. D)}$$

2)+3)+4) Total = \$66,609.19/9935 MBF =
$$\frac{\$6.70}{MBF}$$
 ^{1/}
(Total Sale Vol)

Costs are estimates only and do not include Profit and Risk.

1) Road Use Fees - Amortization

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

(1.1) Subtotal \$0.00

2) BLM Maintenance - Timber Haul

Road Number and Segment	A Surf N Type	MAINTENANCE (2.1)				ROCKWEAR (2.2)			
		Mi	x Fee x	Vol MBF =	Maint	Fee x	MBF =	Rkwear	
37-2E-07.02	A ASC	2.35	0.76	635	\$1134.11	0.49	635	\$731.20	
37-2E-13.00A2B1N	ASC	0.49	0.97	2418	\$1149.28	0.00	2418	\$0.00	
37-2E-13.00B2	N ASC	0.20	0.97	777	\$150.74	0.00	777	\$0.00	
37-2E-13.00C	N ASC	0.85	0.97	777	\$640.64	0.00	777	\$0.00	
37-2E-13.00D1	N ASC	0.85	0.97	777	\$640.64	0.49	777	\$323.62	
37-2E-13.00D2	N ASC	0.67	0.97	608	\$395.14	0.00	608	\$0.00	
37-2E-13.00E	N ASC	0.61	0.97	581	\$343.78	0.49	581	\$173.66	
37-2E-13.00G	A ASC	0.05	0.76	129	\$4.90	0.00	129	\$0.00	
37-2E-13.00H	A ASC	0.50	0.76	129	\$49.02	0.49	129	\$31.61	
37-2E-23.00	N ASC	1.34	0.97	51	\$66.29	0.49	51	\$33.49	
37-2E-23.02	N ASC	0.72	0.97	21	\$14.67	0.49	21	\$7.41	
37-2E-23.02	N ASC	0.16	0.97	102	\$15.83	0.49	102	\$8.00	
37-2E-23.04	N ASC	0.49	0.97	159	\$75.57	0.49	159	\$38.18	
37-2E-23.04	N ASC	0.15	0.97	39	\$5.67	0.49	39	\$2.87	
37-2E-24.01	N ASC	2.74	0.97	198	\$526.24	0.49	198	\$265.83	
37-2E-24.01	N ASC	2.50	0.97	98	\$237.65	0.49	98	\$120.05	
37-2E-24.01	N ASC	2.18	0.97	858	\$1814.33	0.49	858	\$916.52	
37-2E-24.01	N ASC	1.85	0.97	117	\$209.96	0.49	117	\$106.06	
37-2E-24.01	N ASC	1.70	0.97	110	\$181.39	0.49	110	\$91.63	
37-2E-24.01	N ASC	1.60	0.97	211	\$327.47	0.49	211	\$165.42	
37-2E-24.01	N ASC	1.32	0.97	51	\$65.30	0.49	51	\$32.99	
37-2E-24.04A	N ASC	0.12	0.97	520	\$60.53	0.00	520	\$0.00	
37-2E-24.05	N ASC	0.95	0.97	446	\$410.99	0.49	446	\$207.61	
37-3E-18.01	A ASC	2.13	0.76	2418	\$3914.26	0.49	2418	\$2523.67	
37-3E-18.01	A ASC	2.04	0.76	72	\$111.63	0.49	72	\$71.97	
37-3E-18.01	A ASC	1.19	0.76	403	\$364.47	0.49	403	\$234.99	
37-3E-18.01	A ASC	1.14	0.76	60	\$51.98	0.49	60	\$33.52	
37-3E-18.01	A ASC	1.02	0.76	342	\$265.12	0.49	342	\$170.93	
37-3E-18.01	A ASC	0.93	0.76	304	\$214.87	0.49	304	\$138.53	
37-3E-18.01	A ASC	0.79	0.76	225	\$135.09	0.49	225	\$87.10	
37-3E-18.03	A ASC	0.60	0.76	225	\$102.60	0.49	225	\$66.15	
37-3E-18.06	A ASC	0.26	0.76	62	\$12.25	0.49	62	\$7.90	
37-3E-18.06	A ASC	0.14	0.76	120	\$12.77	0.49	120	\$8.23	
37-3E-18.06	A ASC	0.09	0.76	122	\$8.34	0.49	122	\$5.38	
37-3E-18.07	A ASC	0.17	0.76	120	\$15.50	0.49	120	\$10.00	
37-3E-19.00	A ASC	0.60	0.76	61	\$27.82	0.49	61	\$17.93	
37-3E-19.01	N ASC	1.50	0.97	71	\$103.31	0.49	71	\$52.19	
37-3E-19.01	N ASC	0.93	0.97	147	\$132.61	0.49	147	\$66.99	
37-3E-19.01	N ASC	0.87	0.97	57	\$48.10	0.49	57	\$24.30	
37-3E-19.01	N ASC	0.03	0.97	520	\$15.13	0.49	520	\$7.64	
37-3E-19.01	A ASC	0.59	0.76	794	\$356.03	0.49	794	\$229.55	
37-3E-29.01A	A ASC	0.43	0.76	61	\$19.93	0.49	61	\$12.85	
37-3E-29.01B	N ASC	0.28	0.97	61	\$16.57	0.00	61	\$0.00	
37-3E-30.00	N ASC	0.36	0.97	57	\$19.90	0.49	57	\$10.05	
37-3E-30.06	N ASC	0.41	0.97	71	\$28.24	0.49	71	\$14.26	
37-3E-31.01	A ASC	1.28	0.76	46	\$44.75	0.49	46	\$28.85	
37-3E-31.01	A ASC	1.07	0.76	46	\$37.41	0.49	46	\$24.12	
37-3E-31.01	A ASC	0.88	0.76	29	\$19.40	0.49	29	\$12.50	
37-3E-31.01	A ASC	0.63	0.76	133	\$63.68	0.49	133	\$41.06	
37-3E-31.01	A ASC	0.05	0.76	153	\$5.81	0.49	153	\$3.75	
37-3E-31.03	A ASC	0.42	0.76	29	\$9.26	0.49	29	\$5.97	

37-3E-32.00A1	A	ASC	0.29	0.76	407	\$89.70	0.49	407	\$57.83
37-3E-32.00B	A	ASC	0.22	0.76	70	\$11.70	0.49	70	\$7.55
37-3E-32.00B	A	ASC	0.55	0.76	12	\$5.02	0.49	12	\$3.23
37-3E-32.02	A	ASC	0.25	0.76	82	\$15.58	0.49	82	\$10.05
38-2E-03.01	N	ASC	1.02	0.97	492	\$486.78	0.49	492	\$245.90
38-2E-03.08A	N	ASC	0.11	0.97	492	\$52.50	0.49	492	\$26.52
38-2E-03.08B	N	ASC	0.20	0.97	492	\$95.45	0.00	492	\$0.00
38-2E-11.00A	A	ASC	0.25	0.76	380	\$72.20	0.49	380	\$46.55
38-2E-11.00B-FN	ASC		0.97	0.97	380	\$357.54	0.49	380	\$180.61
38-2E-11.00G	A	ASC	0.48	0.76	356	\$129.87	0.49	356	\$83.73
38-2E-11.00G	A	ASC	0.13	0.76	25	\$2.47	0.49	25	\$1.59
38-2E-11.00I	A	ASC	0.30	0.76	93	\$21.20	0.49	93	\$13.67
38-2E-11.00J1	N	ASC	0.23	0.97	93	\$20.75	0.49	93	\$10.48
38-2E-11.00J2-KA	ASC		1.35	0.76	93	\$95.42	0.49	93	\$61.52
38-2E-27.0A1-C1A	BST		4.59	0.71	823	\$2682.07	0.00	823	\$0.00
38-2E-27.00C2	A	BST	0.50	0.71	331	\$117.51	0.00	331	\$0.00
38-2E-27.00C2	N	BST	0.64	1.17	331	\$247.85	0.00	331	\$0.00
38-3E-05.00	A	ASC	1.01	0.76	24	\$18.42	0.49	24	\$11.88
38-3E-09.00	A	ASC	1.04	0.76	506	\$399.94	0.49	506	\$257.86
38-3E-09.00	N	ASC	0.25	0.97	506	\$122.71	0.49	506	\$61.99
38-3E-11.00	A	ASC	0.88	0.76	268	\$179.24	0.49	268	\$115.56
38-3E-11.00	A	ASC	0.44	0.76	535	\$178.90	0.49	535	\$115.35
38-3E-11.06	A	ASC	0.59	0.76	268	\$120.17	0.49	268	\$77.48
38-3E-17.00	A	BST	2.47	0.71	93	\$163.09	0.00	93	\$0.00
38-3E-17.00	A	BST	3.74	0.71	506	\$1343.63	0.00	506	\$0.00
38-3E-17.00	A	BST	6.49	0.71	24	\$110.59	0.00	24	\$0.00
38-3E-17.00	A	BST	5.93	0.71	44	\$185.25	0.00	44	\$0.00
38-3E-17.00	A	BST	5.66	0.71	82	\$329.53	0.00	82	\$0.00
38-3E-17.00	A	BST	4.75	0.71	61	\$205.72	0.00	61	\$0.00
38-3E-17.00	A	BST	4.47	0.71	407	\$1291.70	0.00	407	\$0.00
38-3E-17.00	A	BST	2.67	0.71	794	\$1505.19	0.00	794	\$0.00
38-3E-17.00	A	BST	1.43	0.71	36	\$36.55	0.00	36	\$0.00
38-3E-17.00	A	BST	1.20	0.71	3825	\$3258.90	0.00	3825	\$0.00
38-3E-17.00	A	BST	0.94	0.71	629	\$419.79	0.00	629	\$0.00
38-3E-19.00A	N	BST	0.21	1.17	142	\$34.89	0.00	142	\$0.00
38-3E-19.00A	A	BST	0.68	0.71	142	\$68.56	0.00	142	\$0.00
38-3E-19.00D	A	ASC	0.28	0.76	246	\$52.35	0.49	246	\$33.75
38-3E-19.00D	A	ASC	0.77	0.76	156	\$91.29	0.49	156	\$58.86
38-3E-19.00D	A	ASC	1.14	0.76	61	\$52.85	0.49	61	\$34.07
38-3E-19.00D	A	ASC	1.38	0.76	123	\$129.00	0.49	123	\$83.17
38-3E-19.00D	A	ASC	1.60	0.76	196	\$238.34	0.49	196	\$153.66
38-3E-21.00	A	ASC	0.67	0.76	61	\$31.06	0.49	61	\$20.03
38-3E-21.02	A	ASC	0.60	0.76	61	\$27.82	0.49	61	\$17.93
38-3E-29.00	A	ASC	0.68	0.76	40	\$20.67	0.49	40	\$13.33
38-3E-29.00	A	ASC	0.53	0.76	101	\$40.68	0.49	101	\$26.23
37-2E-13.00F1	N	ASC	0.40	0.97	566	\$219.61	0.00	566	\$0.00
37-2E-13.00H	A	ASC	0.28	0.76	222	\$47.24	0.49	222	\$30.46
38-2E-03.08C	N	ASC	0.47	0.97	421	\$191.93	0.49	421	\$96.96
38-2E-03.08C	N	ASC	0.61	0.97	71	\$42.01	0.49	71	\$21.22

(2.1) Subtotal \$30338.20

(2.2) Subtotal \$9145.54

3) Third Party Maintenance and Rockwear

Agrmnt Number	Road Number	MAINTENANCE (3.1)			ROCKWEAR (3.2)		
		Mi	x	Fee x MBF =	Maint	Fee x MBF =	Rkwear
M-2000F	37-3E-29.01B	0.28				0.49 61	\$8.37
M-5066	37-3E-21.01	0.64				0.00 122	\$0.00
M-660	37-2E-15.00F	0.50				0.00 699	\$0.00
M-660	37-2E-03.08B	0.20				0.49 492	\$48.22
M-660	37-2E-13.00G	0.05				0.49 129	\$3.16
M-660	37-2E-13.00F1	0.40				0.49 566	\$110.94
M-660I	37-3E-18.04B	0.02				0.00 37	\$0.00
M-660I	37-2E-24.04B	0.65				0.00 73	\$0.00
M-660I	37-2E-24.04A	0.12				0.49 520	\$30.58
M-660I	37-2E-13.00C	0.85				0.49 777	\$323.62

M-660I	37-2E-13.00B2	0.20	0.49	777	\$76.15
M-660I	37-2E-13.00B1	0.17	0.49	2418	\$201.42
M-660I	37-2E-13.00A2	0.32	0.49	2418	\$379.14
M-660J	37-2E-13.00D1	0.85	0.00	608	\$0.00
M-660J	37-2E-13.00D2	0.67	0.49	608	\$199.61

(3.1) Subtotal \$0.00

(3.2) Subtotal \$1381.19

4) Other Maintenance Payments - USFS or Others Perform Maintenance

Agency	Road Number	Fee MBF/Mi x Mi =	Fee /MBF x	Vol Hauled =	Maint Cost
USFS	800	0.40 4.51	0.400	506	\$912.82
USFS	830	0.40 0.13	0.400	506	\$26.31
USFS	830	0.40 0.08	0.400	122	\$3.90
USFS	831	0.40 0.09	0.400	384	\$13.82
USFS	800	4.51			\$2428.80
USFS	830	0.13			\$96.14
USFS	830	0.09			\$61.44

(4.1) Subtotal \$3543.24

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)^{1/2}

Road No and Segment	1/ A	N	RkWear Mi x Fee x	Vol MBF =	Total RkWear
37-2E-15.00F	N	0.50	0.00	699	\$0.00
37-2E-24.04B	N	0.65	0.00	73	\$0.00
37-2E-24.04C	N	0.29	0.00	73	\$0.00
37-2E-25.03	N	0.23	0.00	72	\$0.00
37-2E-25.03	N	0.15	0.00	353	\$0.00
37-2E-25.05	N	0.29	0.00	43	\$0.00
37-2E-36.00	N	0.60	0.49	98	\$28.81
37-2E-36.00	N	0.47	0.49	425	\$97.88
37-3E-18.04A	A	0.58	0.49	290	\$82.42
37-3E-18.04B	N	0.02	0.00	37	\$0.00
37-3E-18.05	A	0.10	0.00	60	\$0.00
37-3E-21.01	N	0.64	0.00	122	\$0.00
37-3E-21.02	N	0.44	0.00	384	\$0.00
37-3E-30.04	N	0.50	0.49	76	\$18.62
37-3E-30.04	N	0.12	0.49	71	\$4.17
37-3E-32.05	A	0.93	0.00	8	\$0.00
37-3E-32.05	A	0.36	0.00	62	\$0.00
38-2E-01.00	A	0.20	0.00	2	\$0.00
38-2E-01.00	A	0.11	0.00	23	\$0.00
38-2E-01.04	A	0.32	0.00	23	\$0.00
38-2E-01.05	A	0.30	0.00	111	\$0.00
38-3E-11.07	A	0.14	0.00	80	\$0.00
38-3E-11.08	A	0.05	0.49	54	\$1.32
38-3E-20.00	A	0.80	0.00	61	\$0.00
38-3E-20.01	A	0.15	0.00	40	\$0.00
38-3E-22.00	A	0.40	0.00	156	\$0.00
38-3E-23.01	A	0.12	0.00	246	\$0.00
38-3E-23.03	A	0.32	0.00	246	\$0.00
38-3E-23.04	A	0.34	0.00	246	\$0.00
38-3E-27.00	A	0.30	0.49	196	\$28.81
38-3E-27.00	A	0.19	0.49	135	\$12.57
38-3E-27.00	A	0.14	0.49	74	\$5.08
38-3E-27.00	A	0.84	0.00	74	\$0.00
38-3E-27.02	A	0.35	0.00	61	\$0.00
38-3E-27.03	A	0.60	0.49	61	\$17.93
T38 R3E Sp 22-2A		0.04	0.49	61	\$1.20
37-2E-36.00	N	0.13	0.49	43	\$2.74
37-2E-15.00E	N	0.05	0.00	699	\$0.00

(5.1) Subtotal \$301.55

- 1/ All surfaced roads have a rockwear fee which includes an allowance for rock haul
 2/ Include lump sum logging damage repair

Purchaser Operational Maintenance

Cost allowances must be limited to work required under timber sale Exhibit D.
 If purchaser maint. such as dust control/damage repair is performed on BLM maint. roads,
 add appropriate mandatory Ex. D provisions. Note in prospectus.

Move In

Equipment 1/	No Units	Move x in	Cost/ 50 Mi x	Dist Factor	Sub- = total
Motor Grader:	1	1	\$483.00	0.85	\$410.55
Back Hoe:	1	1	\$483.00	0.85	\$410.55
Loader:			\$483.00	0.63	\$0.00
Water Truck:	1	1	\$107.00	0.85	\$90.95
Dump Truck:			\$113.00	0.63	\$0.00

(5.2A) Total \$912.05

1/ Equipment limited to that allowed in Exhibit D.

Culvert Maintenance - Including Catch basins and Downpipes ^{1/}

Miles	x	Cost/Mi	=	Subtotal
2.38		334.17		\$795.32

(5.2B) Total \$795.32

1/ Does not include purchase or installation of culvert pipe.

Grading (Includes Ditches and Shoulders) ^{1/}

	Miles	x	Cost/Mi	x	Freq	=	Subtotal
Blade w/ Ditch:	2.38		720.50	1			\$1714.79
Blade w/o Ditch:	8.88		446.73	1			\$3966.96

(5.2C) Total \$5681.75

1/ Watch for double allowance on roadway preparation for dust palliative application.

Slide and Slough removal, Slump Repair (15 sta-yds. ea.) ^{1/}

Type Equipment	No Slides /Slumps	Hours x Each	Equip Cost	=	Subtotal
Grader:	0	0	147.33		\$0.00
Loader:	0	0	107.45		\$0.00
Backhoe:	0	0	76.21		\$0.00

(5.2D) Total \$0.00

1/ Maximum haul is 15 sta. yds. Use grader or front end loader only.

Dust Palliative (Water) ^{1/}

Spreading Hours

Miles	/	MPH	=	Hours	x	No Days	x	Freq /Day	=	Truck Hours
3.50		5		0.7		60		1		42
Load & Haul	=			2.0		60		1		120
										Total Hours = 162

Truck Cost: \$89.57/Hr. x 162.0 Hours = \$14510.34

(5.2E) Total \$14510.34

Surface Repair (Aggregate)

Production Cost:	0.0 CY x \$0.00/CY	=	\$0.00
Haul to Stockpile:	0.0 CY x ((\$2.21/CY x 0.00 Mi) + \$0.74)	=	\$0.00
Stockpile:	0.0 CY x \$1.01/CY	=	\$0.00
Load from Stockpile:	0.0 CY x \$1.11/CY	=	\$0.00
Haul from Stockpile:	0.0 CY x ((\$2.21/CY x 0.00 Mi) + \$0.74)	=	\$0.00
Process with Grader:	0.0 CY x \$0.90/CY	=	\$0.00
Compaction:	0.0 CY x \$1.34/CY	=	\$0.00

(5.2F) Total \$0.00

Other

Fallen Timber Cutting: ^{1/}	0.0 Hours x \$0.00/Hour =	\$0.00
Brush Cutting/Tree Trimming: ^{2/}	0.0 Hours x \$0.00/Hour =	\$0.00
Oil/Asphalt Materials: ^{3/}	Lump Sum =	\$0.00
Signing for Dust Palliatives: ^{4/}	Lump Sum =	\$0.00
	Lump Sum =	\$0.00
	Lump Sum =	\$0.00
	Lump Sum =	\$0.00
	Lump Sum =	\$0.00
	Lump Sum =	\$0.00

(5.2G) Total \$0.00

- 1/ Exhibit D Subsection 3104.
- 2/ Exhibit D Subsection 3107.
- 3/ Exhibit D Subsection 3401.
- 4/ Exhibit D Subsection 3405b.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Contract Name: S Fork Little Butte
Sale Date: Sept. 2015
Tract No: 15-16

ROAD CONSTRUCTION SUMMARY

1/ Const/Impr/Renov/Decom/Temp																				2/ yd-miles haul				3/ Lin ft CMP				4/ Lin ft Polypipe				5/ Lin ft Downspout				6/ slide removal cy			
Road Number	Type 1/	Miles	Clear Grubb	Excav -ation	Drain -age	Reno- vation	Surf- acing	Geo- textile	Slope Protect	Soil Stabil	Cattle Guard	Rdside Brush	Engin- eering	Minor Concrete	Gab- ions	Miscel- laneous	Mobil- ization	Quarry Develop	Sub- Total																				
37-2E-15.00EF	R	0.59				\$591 0.59mi	\$2,860 180LCY					\$173 0.6ac				\$1,050	\$397		\$5,070																				
37-2E-23.04	R	0.49				\$383 0.49mi	\$492 30LCY					\$144 0.5ac				\$175	\$82		\$1,277																				
37-2E-24.04B	D	0.82				\$313 0.70mi						\$202 0.7ac				\$1,150	\$65		\$1,730																				
37-2E-24.04C	C	0.12	\$1,674 0.4acres	\$789 165cy						\$61 0.1ac			\$938 6.3sta				\$136		\$3,598																				
37-2E-25.03	D	0.25				\$103 0.23mi						\$231 0.2ac				\$625	\$38		\$996																				
37-2E-25.05	D	0.46				\$205 0.46mi						\$231 0.4ac				\$925	\$53		\$1,415																				
37-2E-36.00	D	0.60				\$368 0.60mi						\$173 0.6ac				\$1,201	\$68		\$1,811																				
37-3E-18.04	R	0.71				\$497 0.16mi	\$347 30LCY					\$205 0.7ac				\$175	\$84		\$1,307																				
37-3E-18.05	D	0.10				\$31 0.07mi						\$115 0.1ac				\$425	\$22		\$594																				
37-3E-19.00	R	3.60				\$1,471 0.60mi						\$1,009 3.5ac					\$97		\$2,577																				
37-3E-21.01	R	0.64				\$286 0.64mi	\$4,418 286LCY	\$2,117				\$173 0.6ac					\$614		\$7,608																				
37-3E-21.02	R	0.44				\$197 0.44mi						\$115 0.4ac					\$12		\$324																				
37-3E-30.04	R	0.50				\$223 0.50mi	\$653 70LCY					\$144 0.5ac					\$123		\$1,144																				
37-3E-32.05	D	0.93				\$415 0.93mi						\$259 0.9ac				\$1,575	\$88		\$2,338																				
38-2E-01.00	R	0.20				\$89 0.20mi	\$907 90LCY					\$58 0.2ac				\$601	\$172		\$1,827																				
38-2E-01.01	D	0.14														\$652	\$26		\$678																				
38-2E-01.04	R	0.32				\$143 0.32mi	\$307 30LCY					\$86 0.3ac				\$175	\$64		\$775																				
38-2E-01.05	R	0.30				\$134 0.30mi						\$86 0.3ac					\$9		\$229																				
38-2E-01.06	D	0.35														\$775	\$30		\$805																				
38-2E-03.01	R	1.02				\$983 1.02mi						\$288 1.0ac					\$50		\$1,321																				
38-2E-03.08	R	1.00				\$447 1.00mi	\$708 90LCY					\$288 1.0ac				\$525	\$184		\$2,152																				
38-3E-05.00	R	1.46				\$1,140 1.46mi						\$144 0.5ac					\$50		\$1,335																				

Road Number	Type I/	Miles	Clear Grubb	Excav -ation	Drain -age	Repo- vation	Surf- acing	Geo- textile	Slope Protect	Soil Stabil	Cattle Guard	Rdside Brush	Engin- eering	Minor Concrete	Gab- ions	Miscel- laneous	Mobil- ization	Quarry Develop	Sub- Total
38-3E-11.00	R	0.88										\$259 0.9ac					\$10		\$270
38-3E-11.06	R	0.59										\$173 0.6ac					\$7		\$180
38-3E-11.07	D	0.14				\$63 0.14mi						\$115 0.1ac				\$525	\$28		\$730
38-3E-19.00D	R	1.60										\$461 1.6ac					\$18		\$479
38-3E-20.00	R	0.80				\$1,279 0.80mi						\$231 0.8ac					\$59		\$1,569
38-3E-20.01	D	0.19				\$85 0.19mi						\$231 0.2ac				\$575	\$35		\$925
38-3E-21.00	R	0.67										\$173 0.6ac					\$7		\$180
38-3E-21.02	R	0.60										\$173 0.6ac					\$7		\$180
38-3E-22.00	D	0.40				\$179 0.40mi						\$461 0.4ac				\$875	\$59		\$1,574
38-3E-23.01	R	0.12				\$54 0.12mi						\$29 0.1ac					\$3		\$86
38-3E-23.03	R	0.32				\$143 0.32mi	\$1,459 90LCY					\$86 0.3ac				\$525	\$194		\$2,408
38-3E-23.04	R	0.34				\$152 0.34mi	\$996 60LCY					\$86 0.3ac				\$350	\$133		\$1,718
38-3E-27.00	R	1.47				\$512 0.81mi	\$1,943 350LCY					\$404 1.4ac					\$528		\$3,386
38-3E-27.02	D	0.35				\$156 0.35mi						\$86 0.3ac				\$775	\$40		\$1,058
38-3E-27.03	R	0.60										\$346 0.6ac					\$14		\$360
38-3E-29.00	R	0.68				\$531 0.68mi						\$202 0.7ac					\$29		\$762
830 USFS	R	0.22				\$246 0.21mi	\$941 60LCY					\$58 0.2ac				\$175	\$127		\$1,547
831 USFS	R	0.09				\$40 0.09mi						\$29 0.1ac					\$3		\$72
T37 R2E Sp 23-2	D	0.09				\$40 0.09mi						\$115 0.1ac				\$425	\$23		\$603
T37 R2E Sp 25-3	D	0.10				\$45 0.10mi						\$115 0.1ac				\$652	\$32		\$844
T37 R3E Sp 30-3	D	0.10				\$45 0.10mi						\$115 0.1ac				\$652	\$32		\$844
T38 R3E Sp 21-1	D	0.10				\$45 0.10mi	\$438 60LCY					\$115 0.1ac				\$2,152	\$179		\$2,929
T38 R3E Sp 22-1	D	0.09				\$40 0.09mi						\$58 0.1ac				\$652	\$29		\$779
T38 R3E Sp 22-2	I	0.04				\$18 0.04mi	\$760 75LCY					\$29 0.1ac					\$121		\$927
Temp 13-1	T	0.05								\$30						\$1,117	\$45		\$1,192

Road Number	Type I/	Miles	Clear Grubb	Excav -ation	Drain -age	Reno- vation	Surf- acing	Geo- textile	Slope Protect	Soil Stabil	Cattle Guard	Rdside Brush	Engin- eering	Minor Concrete	Gab- ions	Miscel- laneous	Mobil- ization	Quarry Develop	Sub- Total
										0.1ac									
Temp 17-1	T	0.86								\$244 0.4ac						\$2,941	\$125		\$3,310
Temp 17-2	T	0.24								\$30 0.1ac						\$3,668	\$145		\$3,843
Temp 18-1	T	0.05								\$30 0.1ac						\$1,117	\$45		\$1,192
Temp 20-1	T	0.05								\$30 0.1ac						\$1,117	\$45		\$1,192
Temp 20-2	T	0.14								\$30 0.1ac						\$2,329	\$93		\$2,452
Temp 23-1	T	0.46								\$122 0.2ac						\$6,759	\$270		\$7,151
Temp 25-1	T	0.07								\$30 0.1ac						\$1,368	\$55		\$1,453
Temp 25-2	T	0.03								\$30 0.1ac						\$865	\$35		\$931
Temp 25-3	T	0.04								\$30 0.1ac						\$991	\$40		\$1,062
Temp 30-1	T	0.12								\$30 0.1ac						\$2,078	\$83		\$2,191

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SCALE SALE

Name of Bidder
Tract Number ORM06-TS-15-16
Sale Name South Fork Little Butte
Sale Notice (dated) 8/20/2015
BLM District Medford

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input checked="" type="checkbox"/> Written Bid for Oral Auction Sale
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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.

Required bid deposited is \$ **134,900.00** and is enclosed in the form of ☐ cash ☐ money order ☐ 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	7,988	X	=	X	=
White fir	MBF	1,824	X	=	X	=
Incense cedar	MBF	70	X	=	X	=
Ponderosa Pine	MBF	53	X	=	X	=
Total		9,935	X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
TOTAL PURCHASE PRICE						

(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)

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