P R O S P E C T U S

THIS IS A DESIGNATION BY PRESCRIPTION SCALE-SALE

BUTTE FALLS RESOURCEAREA
JACKSON MASTER UNIT

Medford Sale # ORMO5-TS14-08
June 26, 2014 (TG)

4 MUSTY EVANS (5900) Jackson County, O&C

BID DEPOSIT REQUIRED: $ 29,100.00

All timber designated for cutting in Govt. Lot 2, 3, Section 34, Govt. Lot 2,3,4, Section 35 T.32S., R.3 W, Govt Lot 2,3, SW¼SW¼, Section 3, Govt. Lot 4, Section 4, Govt. Lot 2,3,4, SE¼NW¼, SW¼NE¼, E½SW¼, NE¼SE¼, S½SE¼, Section 5, NE¼NE¼, NW ¼, Section 9, W½NE ¼, SE¼NE¼, Section 17, W½NE¼, SE¼NE¼, Section 33 T.33S, R.3 W, NW¼ Section 23 T.33S, R.4 W, Govt. Lot 1,2, SE¼ NE¼, E½SE¼, Section 1, SW¼NW¼, NW¼SW¼, Section 11 T.34S, R.4 W, Govt. Lot 4, SW¼NW¼, NW¼SW¼, Section 1, SW¼, S½SE¼, Section 3, E½SW¼, NW¼SE¼, E½SE¼, Section 7, N½SW¼, SE¼SW¼, SW¼SE¼ Section 9, NE¼NW¼, NW¼NE¼, Section 10 T.35S, R.3 W, Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
11,193	3,460	Douglas-fir	4,262	$62.10	$264,670.20
891	311	White fir	378	$52.00	$19,656.00
451	37	Incense-cedar	50	$38.80	$1,940.00
205	51	Western Hemlock	60	$53.50	$3,210.00
227	24	Ponderosa pine	31	$31.40	$973.40
4	2	Sugar pine	3	$27.00	$81.00
12,971	3,885	**Totals**	4,784		$290,530.60

*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 District Office.

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

CRUISE INFORMATION - Maps showing the location and description of plots are available at the Medford District Office.

The sampling methods for DF, WF, IC, WH, and PP was fixed plot sampling in all units, except units 1-1N, 23-1A, and 23-1B, where DF, WF, IC, and SP were 100% cruised.

With respect to merchantable trees of all conifer species: the average tree is 18.9 inches DBHOB; the average gross merchantable log contains 88 bd. ft.; the total gross volume is approximately 5,129 M bd. ft; and 91% recovery is expected (Average DF is 19.0 inches DBHOB; average gross merchantable log DF contains 88 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 – Thirty (30) units containing Three Hundred and Twenty six (326) acres must be thinned, and Six (6) helicopter landing right of way acres must be clear-cut

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

ACCESS - Access to the sale area is available via public roads, via existing BLM roads; via Right-of-Way and Road Use Agreement M-660K with System Global Timberlands, LLC; via Right-of-Way and Road Use Agreement M-660J with AP Timber, LLC; via Right-of-Way and Road Use Agreement M-2000D with Juniper Properties, LLC; via Right-of-Way and Road Use Agreement M-2000E with Indian Hill, LLC, via Right-of-Way and Road Use Agreement M-2000EA with Perpetua Forest Company, via Right-of-Way and Road Use Agreements M-2000F with Plum Creek Timberlands, LP, and via agreement #835 with the Forest Service. Among other conditions, Agreement M-660K with System Global Timberlands, LLC requires that the Purchaser pay a maintenance and rockwear fee of $1.46 per MBF per mile for the use of the 35-3-28.01 A road, road maintenance to be performed by the Purchaser on the 35-3-28.01 D road, and completion of an agreement between the Purchaser and System Global Timberlands, LLC. Among other conditions, agreement M-2660J with AP Timber, LLC requires completion of a license agreement between the Purchaser and AP Timber, LLC and road maintenance to be performed by the Purchaser. Among other conditions, agreement M-2000D with Juniper Properties, LLC requires completion of a license agreement between the Purchaser and Juniper Properties, LLC and road maintenance to be performed by the Purchaser. Among other conditions, agreement M-2000E with Indian Hill, LLC requires completion of a license agreement between the Purchaser and Indian Hill, LLC and road maintenance to be performed by the Purchaser. Among other conditions, agreement M-2000EA with Perpetua Forest Company requires completion of a license agreement between the Purchaser and Perpetua Forest Company and road maintenance to be performed by the Purchaser. Among other conditions, agreement M-2000F with Plum Creek Timberlands, LP requires completion of a license agreement between the Purchaser and Plum Creek Timberlands, LP and road maintenance to be performed by the Purchaser. Among other conditions, agreement #835 with the Forest Service requires completion of a license agreement between the Purchaser and the Forest Service and payment of a road maintenance fee of $0.37 per thousand board feet log scale per mile, for the use of the FS 3229-200 and FS 3231-600 roads and a Special Use Permit ($224.00) for the use of and construction of two helicopter landings from the Umpqua National Forest.

ROAD MAINTENANCE - The Purchaser will be required to maintain approximately 6.98 miles of existing BLM, Forest Service, and private control roads as described in Section 42, RC-2a (C)(5). The BLM will maintain approximately 60.54 miles of existing BLM and private roads as described in Section 42, RC-2 (C)(4). For Purchaser maintained roads, the Purchaser shall pay a rockwear fee ($0.49/Mbf/Mile) for all aggregate surface roads with the exception of the FS3229-200 and FS3231-600 roads. The Purchaser shall pay a rockwear fee of $0.37/Mbf/Mile for the FS3229-200 and FS3231-600 roads.. For BLM maintained roads, the Purchaser shall pay a road maintenance fee for all BST roads ($0.71/Mbf/Mile) and natural surface roads ($0.76/Mbf/Mile for allocated roads or $0.97/Mbf/Mile for non-allocated roads) and a rockwear and road maintenance fee ($1.25/Mbf/Mile for allocated roads or $1.46/Mbf/Mile for non-allocated roads) for all aggregate surface roads. For third party maintained roads, the Purchaser shall pay a rockwear and road maintenance fee of $1.46/Mbf/Mile. There is also an added allotment of $13,568.12 for close out road maintenance requirements (Exhibit D).

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 at six (6) inch depth exceeds twenty five (25) percent by weight as determined by the oven dry method.

EQUIPMENT REQUIREMENTS - - A yarding tractor not greater than 9 feet in track width equipped with a integral arch and winch system capable of lining logs at least 75 feet. A tractor equipped with winged-toothed rippers. A skyline yarder capable of one end suspension of logs during in-haul and with a minimum lateral yarding capability of 75 feet while maintaining a fixed position of the carriage during lateral in-haul. A helicopter equipped with a dropline with a minimum length of 150 feet and capable of lifting logs vertically to a height above adjacent trees without horizontal movement.

SLASH DISPOSAL - Slash disposal will consist of 100 acres of lop and scatter

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

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

This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

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. Various seasonal restrictions are placed on this sale.
3. There is a 44 foot log length restriction for all cat and skyline units.
4. Directional falling is required.
5. Cleaning of equipment to eliminate noxious weed seeds is required prior to move-in of equipment onto federal lands.
6. Designated skid roads are required on all tractor units.
7. Ripping of all newly constructed helicopter landings is required.
8. Dust abatement is required.
9. Purchaser should be aware that logging residue reduction costs listed under SD-5 are in addition to costs assessed under SD-4. Refer to the appraisal for total assessed costs of logging residue reduction.
10. **Contact the BLM at 541-618-2265 at least one day prior to accessing private land in T.35S. R.3W. Section 7 to assess proposed helicopter landing and adjacent harvest units**.
11. **Access to units 35-3-3-6, and 35-3-10-3 (via Sardine Creek) will require gate keys for access. Keys will be available at the Medford BLM District Office front desk located at 3040 Biddle Rd Medford, OR (541) 618-2200.**

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From the town of Eagle Point, Proceed north on highway 62 approximately 3 miles to the junction of Highways 62 and 234. Turn left onto Highway 234 and proceed west for approximately 4 miles to Antioch road (Rainey's Corner). Turn right onto Antioch road and proceed north for approximately 7 miles to the junction of Antioch road and East Evans Creek road. Turn left onto East Evans Creek road and proceed west for approximately 5 miles to the junction of East Evans Creek road and West Fork Evans Creek road.

North sale area:

Turn right onto West Evans Creek road and proceed for approximately 5 miles to the junction of West Evans Creek road and Rock Creek road (33-3-34.1). From this point the north side of the sale area can be accessed from the Rock Creek road system or by continuing along West Evans Creek road to Goolaway Gap.

1. Rock Creek road system: Follow rock creek road for approximately 7 miles and enter sale area via road number 33-3-3.
2. West Fork Evans Creek road system: Proceed west on West Fork Evans Creek road to Goolaway Gap saddle turn right on to the 33-3-3 road and enter the sale area.

South sale area:

From the junction of West Fork Evans Creek and East Evans Creek Road proceed south west for approximately 5 miles to the junction of East Evans Creek road and BLM road number 35-3-7 (Murphy Gulch). Turn left on the 35-3-7 road and continue south across Evans Creek and into the south sale area.

ENVIRONMENTAL ASSESSMENT - An environmental assessment (DOI-BLM-ORM050-2010-0019-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 District Office.

Seasonal Restriction Matrix

Sheet 1 of 2

Musty Evans Timber sale

ORM05-TS14-08

▨ ***Possible Waived Times are Hatched**

▢ ***Restricted Times are Shaded**

Sale Area	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
Units 4-18, 7-1, 7-2	Timber Falling and Bucking [3]																								
	Helicopter yarding, Log processing [3]																								
	Quarry work, blasting, roadside brushing [3]																								
	Log loading, Log hauling, rock hauling [1,2,3]																								
	Road grading [1,3]																								
	Fuels treatment [3]																								
Units: 9-3, 9-5	Timber Falling and Bucking [4]																								
	Helicopter yarding, Log processing [4]																								
	Quarry work, blasting, roadside brushing [4]																								
	Log loading, Log hauling, rock hauling [1,2,4]																								
	Road grading [1,4]																								
	Fuels treatment [4]																								
Units 23-1B, 1-1N	Timber Falling and Bucking																								
	Skyline yarding, Log processing [1]																								
	Log loading, Log hauling, rock hauling [1,2]																								
	Road grading [1]																								
	Fuels treatment																								
Units: All other units	Timber Falling and Bucking																								
	Helicopter logging,																								
	Log processing, [1]																								
	Tractor yarding [1,]																								
	Log loading, Log hauling, rock hauling [1,2]																								
	Road grading [1,2]																								
	Soil ripping [1,2]																								
	Road side brushing [1,2]																								
	Fuels treatment																								

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

[2] Hauling restriction may be shortened or extended depending on adequacy of road surfacing

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

[4] Great Gray Owl seasonal restrictions from March 1through July 15 may be waived if surveys determine Great Gray owls are not nesting in the area

Seasonal Restriction Matrix **continued**

Sheet 2 of 2

Musty Evans Timber sale

ORM05-TS14-08

▨ ***Possible Waived Times are Hatched**

▢ ***Restricted Times are Shaded**

Skid Trails, Roads Landings and rock quarries :	Construction [1,2]																										
	Reconstruction [1,2]																										
	Renovation [1,2]																										
	Decommissioning [1]																										
	Culvert removal and/or replacement[1,2]																										
	Quarry activities [1,2]																										
	Soil ripping [1]																										

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

[2] Hauling restriction may be shortened or extended depending on adequacy of road surfacing

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

[4] Great Gray Owl seasonal restrictions from March 1through July 15 may be waived if surveys determine Great Gray owls are not nesting in the area

MUSTY EVANS
SPECIAL PROVISIONS

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

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

(A) AR-1 All timber on the Reserve Area(s) as shown on Exhibit A and all orange painted and posted trees which are on or mark the boundaries of the Reserve Area(s).

(B) IR-1 Approximately 970 trees marked with yellow paint in units 5-4, 5-5, 9-9, as shown on exhibit A.

(C) IR-2 All timber except approximately 853 trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 1-1N, 23-1A, 23-1B as shown on Exhibit A.

(D) IR-6 All leave trees required to meet selection criteria as outlined in exhibit E in units 34-1, 35-3. 35-4, 35-5, 17-2, 17-10, 3-7, 33-1, 4-18, 5-2, 5-7, 5-8, 5-9, 9-7, 1-3, 11-1, 1-1S, 10-3, 3-4, 3-6, 7-1, 7-2, 9-3, 9-5, as shown on Exhibit A.

(E) IR-5 All young growth conifers less than eight (8) inches in diameter D.B.H.O.B. not damaged in the normal course of logging in all units as shown on Exhibit A.

(F) IR-6 All hardwood and Yew trees in all units as shown on Exhibit A.

(G) IR-6 All non-hazardous snags in all units as shown on Exhibit A. Any felled hazard snags must remain where felled or as directed by the authorized officer.

(H) IR-6 All pre-existing dead and down wood in all units as shown on Exhibit A

(I) IR-8 All standing timber except trees located within painted and posted road or landing right-of-way clearing limit boundaries as shown on Exhibit A.

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 (8¾) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timber, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8¾) inches in thickness or less; (6) shakes and shingles.

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

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

(a) Date of last export sale.

(b) Volume of timber contained in last export sale.

(c) Volume of timber exported in the past twelve (12) months from the date of last export sale.

(d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.

(e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.

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

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a Form 5460-16

(Certificate as to Nonsubstitution and the Domestic Processing of Timber). The original of such certification shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

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

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

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

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

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

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

(B) Logging

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

(2) L-6 All trees designated for cutting shall be felled and cut into log lengths not to exceed forty-four (44) feet before being yarded in all skyline and tractor units as shown on Exhibit A.

(3) L-6 All logs shall be completely limbed prior to being yarded in all skyline and tractor units as shown on Exhibit A.

(4) L-6 All trees designated for cutting shall be felled and yarded to approved landing locations either whole tree, or as log segments within all helicopter units as shown on exhibit A. If excessive stand damage occurs from whole tree yarding as determined by the authorized officer, bucking and/or limbing will be required.

(5) 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.

Designated Area	Yarding Requirements or Limitations
Tractor Units 23-1A, 35-4	Yarding tractor width will not be greater than twelve (12) feet as measured from the outer edges of the standard width dozer blade in the straight position, or nine (9) feet as measured from the outer edges of standard width track shoes. Yarding tractors will be equipped with integral arches and winch systems capable of lining logs at least seventy five (75) feet. Prior to marking or falling any timber in the unit, all yarding corridors, tail/lift trees and/or intermediate support trees shall be identified by the purchaser and approved by the authorized officer. One end suspension while skidding logs will be required in unit 23-1A (fragile soils). No front-end loaders are permitted. No yarding up or down draw bottoms is permitted.

	Restrict tractor yarding and mechanical operations to slopes generally less than 20% in unit 23-1A (fragile soils) and slopes of 35% in unit 35-4 (non-fragile soils). In areas where it is necessary to exceed these gradients to access more tractor area, use ridge tops where possible. Designate skid trails at an average of one hundred and fifty (150) foot spacing in order to minimize ground disturbance. The location of the tractor skid roads must be clearly designated on the ground, at locations approved by the Authorized Officer. No tractor yarding is permitted when soil moisture content at six (6) inch depth exceeds twenty five (25) percent by weight as determined by the oven dry method. Yarding and mechanical harvesting will be further limited in accordance with Section 25 if detrimental soil damage is occurring, as determined by the authorized officer. 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. Log landing size shall not exceed one-quarter (¼) acre.
Skyline Units 1-1N, 23-1B	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. A carriage which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet is required. Prior to marking or falling any timber in the unit, all yarding corridors, tail/lift trees and/or intermediate support trees shall be identified by the purchaser and approved by the authorized officer. Existing cable corridors shall be used whenever possible. Corridors shall be spaced approximately one hundred fifty (150) feet apart, measured at the tailholds. The width of the skyline corridors shall be as narrow as operationally feasible (maximum of fifteen [15] feet). Construct hand water-bars in all skyline yarding corridors where gouging occurs (all skyline units). Water-bars need to be

	constructed immediately after use of yarding corridors. Seed and mulch all skyline yarding corridors in all skyline units as shown on Exhibit A where yarding logs to the road has resulted in extended soil surface exposure (See E-1 for seed and mulch specifications. by October 15 of the year logging operations are completed Yarding corridors will be perpendicular to the contours. No downhill yarding is allowed
Helicopter Units 34-1, 35-3, 35-5, 17-2, 17-10, 3-7, 33-1, 4-18, 5-2, 5-4, 5-5, 5-7, 5-8, 5-9, 9-7, 9-9, 1-3 11-1, 1-1S, 10-3 3-4, 3-6, 7-1, 7-2, 9-3, 9-5	All yarding will be done with an aerial system. Landing size shall not exceed one (1) acre and all landings are to be approved by the Authorized Officer prior to construction. Service pads and helispots can be constructed with prior approval of the Contract Administrator and shall not be larger than necessary. A dropline with a minimum length of one hundred fifty (150) feet is required. Logs to be yarded will be lifted vertically to a height above the adjacent leave trees without horizontal movement. 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. The purchaser may negotiate, in good faith, with adjacent landowners to build/use helicopter landings on private land. All aerial operations within 0.5 miles of any residence will be restricted to an operating time of 6:00 am to 6:00 pm Monday thru Friday.

(6) L-9 No yarding or loading is permitted in or through plant sites or protected areas shown on Exhibit A.

(7) L-11 No temporary spur roads or new landings shall be located within riparian reserves or wet areas as shown on Exhibit A.

(8) L-18 No tractor yarding and soil ripping operations shall be conducted between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive, or when soil moisture exceeds 25 percent.

(9) L-18 No cable yarding shall be conducted between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive, or when soil moisture exceeds 25 percent.

(10) L-18 Restrict all timber hauling, rock hauling, and landing operations, on all natural surfaced or rocked roads whenever soil moisture conditions or rain events could result in road damage or the transport of sediment to nearby stream channels, generally October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Allow road or landing use on adequately rocked roads (minimum depth of 10 inches of durable rock surface) between those dates only during periods of dry weather.

(11) L-18 No road construction, landing construction, renovation, culvert removal culvert replacement, road decommissioning, or road closure work, shall be conducted within the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive.

(12) L-18 No quarry work, and/or rock crushing operations whenever soil moisture conditions or rainstorms could cause the transport of sediment resulting from quarry operations to nearby streams (generally October 15 to May 15).

(13) L-18a No harvest activities, blasting, or roadside brushing shall be conducted in units 4-18, 7-1, 7-2, between March 1 and September 30, both days inclusive. This restriction will not apply if it can be shown from spotted owl surveys conducted in accordance with accepted standards that spotted owl nesting and/or fledgling activities are not occurring during the year of harvest.

(14) L-18a No operations in unit 9-3, 9-5 shall be conducted between March 1 and July 15, both days inclusive (Great Gray Owl).

(15) L-20 During logging operations, the operator shall keep the 34-3-24 (W.Fork Evans Creek Rd. at Goolaway Gap), 32-3-32 (Snow Creek Rd at Goolaway Gap), 32-2-32-2 (at Goolaway Gap), 33-3-3 (at Goolaway Gap), 33-3-12-2 (Angels Camp), 33-4-23-1 (unit 23-1A,B), and the 34-4-15-2 (Rt Fork Pleasant Creek), roads, where they pass through the contract area, clear of trees, rock, dirt, and other debris (so far as practicable) to allow for vehicle traffic. These roads shall not be blocked for more than twenty (20) minutes. In addition, to these requirements, these roads shall have warning signs displayed a minimum of 300 feet in advance of the logging operation along all roads which pass through the logging operation. Warning Signs must be worded to describe the hazard, type of operation, or action to be taken which will alert oncoming traffic to the logging

operation and/or dangers ahead. Warning sign size, color, and shape must comply with OR-OSHA applicable rules and guidelines.

(16) L-24 Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan developed by this provision.

(17) L-25 Before cutting and removing any trees necessary to facilitate logging in the all units 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 danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following conditions must be met:

(a) All skid roads and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contact and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees; however, unless otherwise approved in writing by the Authorized Officer, the width of each skid road, and/or cable yarding road shall be limited to fifteen (15) feet in width.

(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.

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

(e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or Sec. 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.

(f) The Government may reserve trees previously designated for cutting and removal by blacking out 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. 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 the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy five (175) feet of the unit boundary shall be felled away from the unit boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(19) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy five (175) feet of a private property line shall be felled away from the private property line. The Purchaser shall notify the

Authorized Officer three (3) days before beginning felling operations in the above area(s).

(20) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy five (175) feet of the corner monument shall be felled away from the corner monument. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(21) L-26 In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred seventy five (175) feet of any plant site, reserve area, or protected area boundary as shown on Exhibit A shall be felled away from the painted and posted boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

(22) L-26M Before falling any trees in variable density thin (purchaser mark) harvest units 34-1, 35-3. 35-4, 35-5, 17-2, 17-10, 3-7, 33-1, 4-18, 5-2, 5-7, 5-8, 5-9, 9-7, 1-3, 11-1, 1-1S, 10-3, 3-4, 3-6, 7-1, 7-2, 9-3, 9-5 as shown on Exhibits A, and E, and as defined in Exhibit E. The purchaser shall: (1) paint each reserve conifer tree with marks equal in length to the tree diameter at breast height, on both the uphill and downhill side of the tree and (2) paint each tree with marks equal in length to the tree diameter at the base of the tree and within 2 inches of the ground on the both the uphill and downhill side of the tree. Identification of leave trees shall be done with a paint color approved by the authorized officer. Upon acceptance of each harvest unit inspection by the authorized officer, the purchaser may proceed with operations.

(23) L-29 In skyline units 23-1B, and 1-1N as shown on Exhibit A, the Purchaser shall make cable yarding road changes by completely spooling the cables and restringing the layout from the head spar to the new tail hold to protect advance reproduction and/or reserve trees and snags present on these areas.

(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.

(3) RC-1f Upon completion of all logging activities, the Purchaser shall scarify all newly constructed helicopter landings, with the exception of the helicopter landing that lies on Silver Butte Timber Company property located at the end of

the 32-3-31.04 road, per the road renovation and improvement wordlist (Exhibit C-5) and as shown on the Exhibit C-2 Road Renovation Maps with the exception of the helicopter landing that lies on Silver Butte Timber Company land located at the end of the 32-3-31.04 road in strips of not less than twenty-four (24) inches or more than twenty-eight (28) inches in width to a minimum depth of eighteen (18) inches, provided that no scarification shall be required where the road traverses rock outcroppings. All natural water courses shall be opened to prevent erosion of the roadways. Barriers shall be constructed so as to prevent further use of the road by vehicles.

(4) RC-2 The Purchaser is authorized to use the roads listed below and shown on Exhibit D-2 which are under the jurisdiction of the Bureau of Land Management, Plum Creek Timberlands LP, Indian Hill LLC, AP Timber LLC, Perpetua Forests Company, Juniper Properties LLC, System Global Timberlands and the Forest Service, for the removal of Government timber sold under the terms of this contract provided that the Purchaser pay the required maintenance obligations described in Section 42(C)(7). The Purchaser shall pay current Bureau of Land Management or Forest Service 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
33-2-7.00A	0.42	BLM	ASC
33-2-7.01	0.10	BLM	ASC
33-2-7.02A	0.60	BLM	ASC
33-2-7.02B	1.00	Plum Creek	ASC
33-2-17.00A	0.76	BLM	ASC
33-2-17.00B	0.35	Indian Hill	ASC
33-2-17.00C1	0.52	BLM	ASC
33-2-33.00	4.44	BLM	BST
33-3-3.00B-D	4.44	BLM	ASC
33-3-4.00	0.61	BLM	ASC
33-3-8.00	0.81	BLM	ASC
33-3-12.01A3	0.52	BLM	ASC
33-3-12.02	1.59	BLM	ASC
33-3-30.01	3.48	BLM	ASC
33-4-23.01	0.78	BLM	ASC
33-4-23.03A-B	0.48	BLM	ASC
34-3-24.00A-D	16.32	BLM	BST
34-4-1.00	0.84	BLM	ASC

34-4-1.01	1.30	BLM	ASC
34-4-15.00A	0.30	BLM	ASC
34-4-15.00B	0.10	Plum Creek	ASC
34-4-15.00C-D	0.90	BLM	ASC
34-4-15.00E	0.10	Perpetua	ASC
34-4-15.00F1-H3	3.19	Juniper	ASC
34-4-15.00 I-J1	0.80	BLM	ASC
34-4-15.02A1-B1	3.41	BLM	ASC
35-3-15.05	4.42	BLM	ASC
35-3-7.00A-D	0.82	BLM	BST
35-3-7.00E-F	0.62	BLM	ASC
35-3-8.00	1.14	BLM	ASC
35-3-17.00A-B	1.71	BLM	ASC
35-3-28.01B-C	1.09	BLM	ASC
35-3-28.01D	0.81	System Global Timberlands	ASC
35-3-28.01E	0.74	BLM	ASC
FS3229-200	0.35	USFS	ASC

(5) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit D-2 which are under the jurisdiction of the Bureau of Land Management, Indian Hill LLC, AP Timber LLC, Pvt. Anderson RD, and the Forest Service, for the removal of Government timber sold under the terms of this contract provided that the Purchaser comply with the conditions set forth in Section 42(C)(10) and pay the required rockwear obligation described in Section 42(C)(8) and Section 42(C)(18). The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
32-3-31.04	0.30	BLM	ASC
33-3-33.01	0.53	BLM	NAT
35-3-10.00	0.36	BLM	NAT
35-3-28.01F1	0.36	BLM	ASC
35-3-28.01F2	0.24	BLM	NAT
35-3-28.01G	0.24	Indian Hill	NAT
35-3-28.01H	0.53	AP Timber	NAT
FS3231-600	4.00	USFS	ASC

35-3-7.00 Anderson Rd.	0.42	PVT.	NAT

(6) RC-2d The Purchaser shall be authorized to use other roads not included in Section 42(C)(4) and/or Section 42(C)(5); provided, that in the use of such road(s), the Purchaser shall pay the Government current Bureau of Land Management road maintenance and/or rockwear 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 42(C)(7) and Section 42(C)(8) of this contract shall be amended to include adjustments of fee obligations.

(7) RC-2e Provided, that the Purchaser shall pay a road maintenance fee of $0.71 per thousand board feet log scale per mile for the use of all BST roads, a maintenance fee of $0.76 per thousand board feet log scale per mile for the use of all allocated aggregate and native surface roads, and a road maintenance fee of $0.97 per thousand board feet log scale per mile for the use of all non-allocated aggregate and native surface roads. The total maintenance fee due shall be based upon volumes determined pursuant to Section (2 and 3) of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Purchaser will be required to label, with a permanent ink marker, each load ticket with the corresponding unit number as directed by the Authorized Officer. The Authorized Officer shall establish an installment schedule of payment of the maintenance obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total maintenance payments made under this contract exceed the total maintenance payment due, such excess shall be returned to the Purchaser within sixty (60) days after such determination is made.

(8) RC-2e$_{(rw)}$ Provided, that the Purchaser shall pay a road rockwear fee of $0.49 per thousand board feet log scale per mile for the use of all aggregate roads. The total rockwear fee due shall be based upon volumes determined pursuant to Section (2 and 3) of this contract and mileage of roads used as determined by the Authorized

Officer. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Purchaser will be required to label, with a permanent ink marker, each load ticket with the corresponding unit number as directed by the Authorized Officer. The Authorized Officer shall establish an installment schedule of payment of the rockwear obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total rockwear payments made under this contract exceed the total rockwear payment due, such excess shall be returned to the Purchaser within sixty (60) days after such determination is made.

(9) 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 42(C)(5). 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.

(10) RC-2h Except for road maintenance in accordance with Section 42(C)(11), (C)(12), (C)(13), (C)(14), (C)(15), (C)(16), (C)(17), and (C)(18), 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. 35-3-28.01H, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660J between the United States of America and AP Timber, LLC. These conditions include: Payment to AP Timber, LLC, a maintenance and rockwear obligation of **$1.46 per thousand board feet log scale per mile,** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, 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.s 33-2-17.00B and 35-3-28.01G the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-

2000E between the United States of America and Indian Hill, LLC. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, 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. 34-4-15.00E, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000EA between the United States of America and Perpetua Forest Company. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, 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. 34-4-15.00F1-H3, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000D between the United States of America and Juniper Properties, LLC. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, 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.

(15) RC-3 In the use of road No.s 35-3-28.01A, 35-3-28.01D, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-660K between the United States of America and System Global Timberlands, LLC. These conditions include: Payment to System Global Timberlands, LLC, a maintenance and rockwear obligation for the use of road number 35-3-28.01A of **$1.46 per thousand board feet log scale per mile,** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, 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.s 33-2-7.02B, and 34-4-15.00B, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000F between the United States of America and Plum Creek Timberlands, LP. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, 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.35-3-7.00 Anderson Road, the Purchaser shall comply with the conditions of the Temporary Non-Exclusive Road Easement & Helicopter Landing Easement OR 064503, between the United States of America and Anderson et al. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Default by the Purchaser of said Temporary Non-Exclusive Road Easement & Helicopter Landing Easement OR 064503 for failure to meet any of the stipulations in the temporary easement shall be considered a violation of this contract.

(18) RC-3a In the use of road No. FS3229-200 and FS3231-600, 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, l980, Exhibit A, Agreement No. 835. The conditions include: Payment to the Forest Service, a rockwear obligation of **$0.37 per thousand board feet log scale per mile,** payable at the time indicated in the license agreement and a Special Use Permit that will be $224.00 needed for the use of and construction of the two helicopter landings on Forest Service land.

(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-4 No logging or hauling operations on the contract area shall be undertaken until the Purchaser has secured from the appropriate official of the Forest Service, permission for the use of the existing road numbers FS3229-200 and FS3231-600 as shown on Exhibit C-2.

(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

(1) 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. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. In addition, such plan shall follow all applicable State of Oregon Department of Environmental Quality guidelines for spill prevention and containment of petroleum products (Oregon Administrative Rules, Chapter 340, Department of Environmental Quality, Division 142, Oil and Hazardous Materials Emergency Response Requirements).

(2) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not store, or cause to have stored, any fuel or other petroleum products inside any riparian reserve area. All petroleum products shall be stored in durable containers and located so that any accidental release will be contained and not drain into any stream system. Refueling of equipment shall be done outside of riparian reserve areas.

(3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only be allowed to use logging, construction, rock crushing, brushing chipping, shredding or grinding and/or transportation equipment that is free of noxious weed seeds prior to entering federal lands in the contract area as shown on Exhibit A.

If equipment is not considered free of noxious weed seeds by the Government, it shall be cleaned prior to entering federal lands. Cleaning shall be defined as removal from all surfaces including the under carriage any dirt, grease, plant parts, and material that may carry noxious weed seeds onto federal lands. Cleaning prior to entering federal lands may be accomplished by using a pressure hose.

Equipment shall be subject to visual inspection by the Government to certify that the equipment is free of noxious weed seeds. Only equipment inspected by the government shall be allowed to operate on federal lands within the contract area. The purchaser shall make equipment available for government inspection at an agreed upon location off federal lands prior to any move-in of equipment.

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

(4) E-1 In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall construct skid trail barricades on all pre-designated skid trails (tractor and skyline units), as shown on Exhibit A, all designated skid trails in all tractor units as shown on Exhibit A, and at any location where an existing barricade has been removed to provide access to units as shown on exhibit A. Barricades shall be located where skid trails take off of system roads, temp spurs or landing areas and continue for the first one hundred (100) feet of skid trail length. Barricades shall be constructed by placing woody debris or other appropriate barriers (e.g. rocks, logs, and slash) on them to effectively inhibit access by all terrain vehicles. Barricades shall be in place by October 15 of each calendar year.

(5) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall construct road barricades as specified on Exhibit C, at locations where an existing barricade has been removed to provide for harvest access. Barricades shall be in place by October 15 of each calendar year.

(6) E-1 In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall;

(a) Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which is attached hereto and made a part hereof.

(b) Rip to a depth of eighteen (18) inches.

(c) Ripping will not occur unless soil moisture content is twenty-five (25) percent or less (at a six (6) inch depth) as determined by the oven-dry method.

(d) Rip all pre-designated skid trails and all new construction helicopter landings in all units as shown on exhibit A, (except the helicopter landing on Silver Butte property located in sec. 6, T.33S., R.3W., W M.) by October 15 of the year operations are completed. If harvest operations are not completed in the same year of use, skid trails will be storm-proofed and blocked by October 15.

(e) Seed and mulch all skid trails, and pre-designated skid trails in units 23-1A, as shown on Exhibit A for a distance of one hundred (100) feet beginning where skid trails take off of system roads, or landing areas. Seed and mulch all new landings in all units as shown on Exhibit A, and, Seed and mulch all skyline yarding corridors in all skyline units as shown on Exhibit A where yarding logs to the road has resulted in extended soil surface exposure. Seeding and mulching activities must be completed by October 15 of the year logging operations are completed. If operations are not completed in the same year of use, these areas will be storm-proofed, blocked, and approved by the authorized officer by October 15 of that year in which use occurs.

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
Species	Min. %	Min. %	Max. %
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:

Species	Percent of Total by Wt.	Lbs. per Acre
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.

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

(a) Construct hand water-bars in all skyline yarding corridors where gouging occurs (all skyline units). Water-bars need to be constructed immediately after use of yarding corridors.

(b)Water-bar all skid roads, used for logging activities by October 15 of the year operations are completed in all units shown on Exhibit A.

(8) E-4 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:

(1) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;

(2) when, in order to comply with the Endangered Species Act, or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP), the Contracting Officer determines it may be necessary to modify or terminate the contract, or;

(3) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;

(4) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;

(5) when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;

(6) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;

(7) species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;

(8) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

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

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

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the First Installment held on deposit may be temporarily

reduced upon the written request of the Purchaser. For the period of suspension extending beyond 30 days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, *et seq.*). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3.b. of the contract within 15 days after the bill for collection is issued, subject to Section 3.h. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.
In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

The 30 days can be the sum of days accruing during more than one operating season. Reappraisal may result in a decrease to the unit price bid per species. Reappraisal will be based on the loss of net volume due to the deterioration of logs during the period of delay and any associated changes in the amortization of logging costs per unit of volume, as determined by the Authorized Officer. Amortization of road construction cost over a reduced net volume will be considered as well as any additional move-in or logging costs caused by the delay, as determined by the Authorized Officer. Reappraisal will adjust Exhibit B volume and values, and will <u>not</u> consider changes in the market price of timber.

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

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, protect occupied marbled murrelet sites in accordance

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

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

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

(9) 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.

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

Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government will conduct surveys in units 4-8,7-1, 7-2 to determine whether spotted owls are nesting within 0.25 miles of the harvest units to be logged using ground based logging systems. 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

(1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by three thousand three hundred seventy seven and 50/100 dollars ($3377.50) In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of three thousand three hundred seventy seven and 50/100 dollars ($3377.50) 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-4 Notwithstanding the provisions of Section 5(c), when the Purchaser elects to furnish and operate under a payment bond as provided in Section 39(d), the value of right-of-way timber included in a billing shall be based on the value of timber removed from the right-of-way.

(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 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

a. F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:

a. Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the State of Oregon, Department of Forestry.

b. Provide and maintain in good repair, on the contract area, the following equipment for use during closed fire season or periods of fire danger:

1. F-2a 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 (¾) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

2. F-2b A round pointed size zero (0) or larger shovel in good condition, shall be within fifty (50) feet of any power saw when in operation.

3. F-2c At each landing during periods of operation one (1) tank truck. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute (ORS) 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.410 as amended or be provided with

suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.

4. 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-2e A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire trails at night.

6. F-2f A headlight for each person in the woods crew adequate to provide sufficient illumination for night fire fighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. It shall be equipped with a battery case so designed that it can be either carried in the hip pocket or fastened to the belt. The head of the light and the battery case shall be connected by insulated wires. At least one extra set of batteries shall be provided for each such headlight.

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

8. F-2h A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the 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.

9 F-5 Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.

10 F-8 Blasting caps and fuses shall not be used during closed fire season or any period of fire danger on any land administered by the Government. Blasting with electric detonators during the closed fire season or periods of fire danger is permitted only between the hours of 4:00 a.m. and 10:00 a.m.

(G) Slash Disposal and Site Preparation

(1) SD-4 **Logging Residue Reduction:** In addition to the requirements of Sect.15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and site preparation measure(s) required by this contract:

Prior to commencement of any operation under this section of the contract, a slash disposal and site preparation pre-work conference between the purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All slash disposal and site preparation shall be done in accordance with the plans developed at this pre-work conference.

Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of purchasers operations under the terms of this contract, including material cut during slashing activities for the purposes of fuels reduction.

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

(2) SD-1f **LOP AND SCATTER**: Lop and scatter all slash as directed by the Authorized Officer , concurrently with normal felling operations. All tops and side branches must be free of the central stem so that such slash is reduced to the point that it is within eighteen (18) inches of the ground at all points.

(3) SD-1i **LANDING PILES**: In all units as shown in the Exhibit A, pile all slash located within fifty (50) feet on each side of each landing. Slash shall be piled by a grapple loader. Finished piles shall be tight and free of earth.

a. A ten (10) foot by ten (10) foot cover of four (4) mil black plastic shall cap each pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Landings shall be piled and covered during the same season that they are logged.

(4) SD-5 Perform logging residue reduction and site preparation work on approximately one hundred (100) acres of harvest area as directed by the Authorized Officer.

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

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

Treatment/Level	Cost Per Acre	Number of Acres	Total Cost Per Treatment Type
Lop and Scatter L2	$48.00	100	$4,800.00
Total Appraised Cost			$4,800.00

(c) The total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 41(G)(2)(a) differs from four thousand eight hundred dollars ($4,800.00) as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 41(G)(2)(a).

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

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

(H) Quarry Development

(1) Q-1 The Purchaser shall develop a rock quarry in strict accordance with the plans and specifications shown on Exhibit C-11 which is attached hereto and made a part hereof. Exhibit C-11 contains 1 sheet.

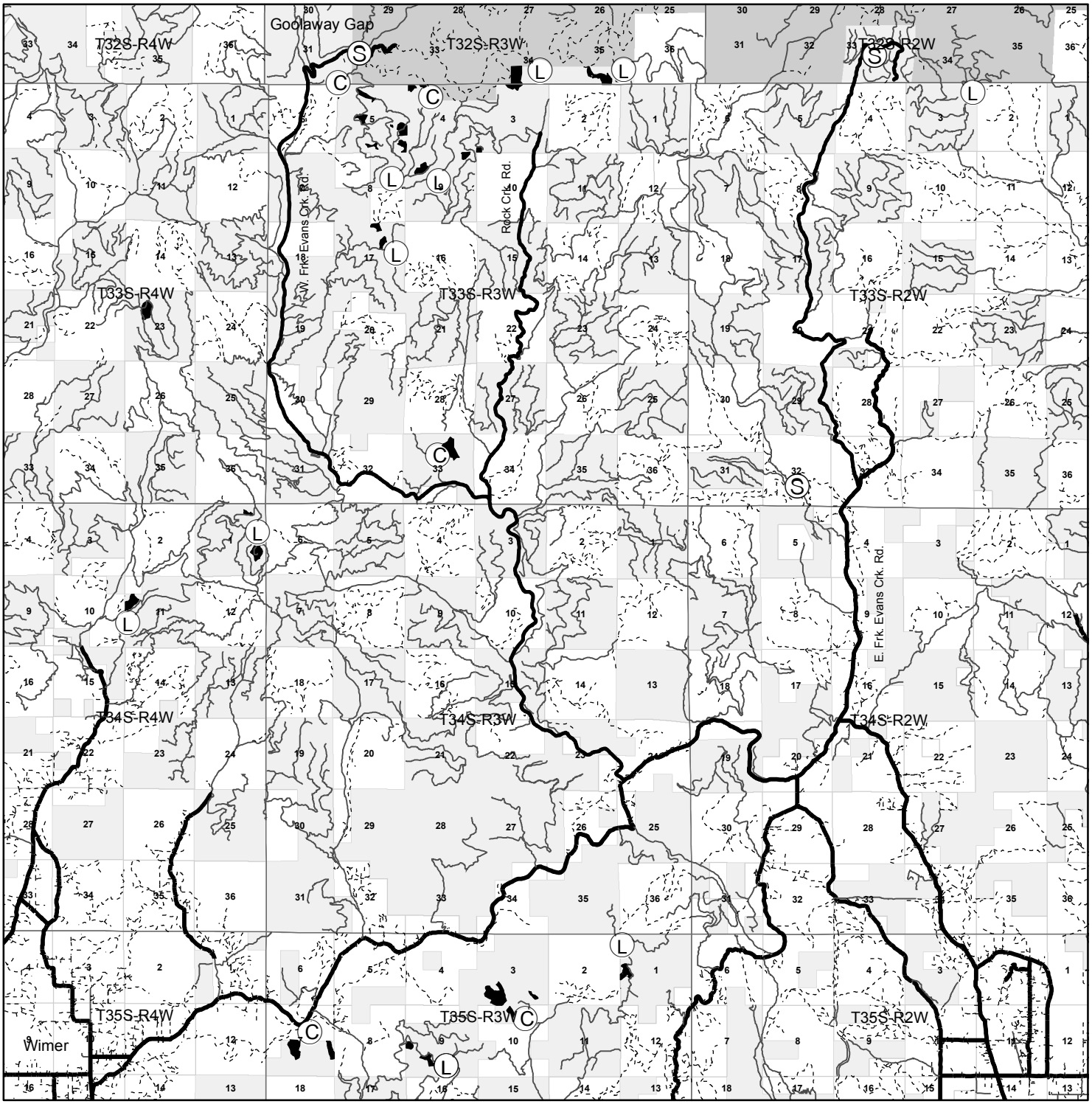
(a) Q-1b Any quarry access road construction and site preparation shown on exhibit C-11 shall be completed at each quarry location shown on Exhibit C-11 prior to removal of any rock from such area.

(I) Equal Opportunity in Employment

(1) Certification of Nonsegregated Facilities attached hereto and made a part hereof.

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 32S. R. 3W., SEC. 34, 35 WILL. MER.
T. 33S. R. 3W., SEC. 3, 4, 5, 9,17, 33 WILL. MER.
T. 33S. R. 4W., SEC. 23, WILL. MER.
T. 34S. R. 4W., SEC. 1,11, WILL. MER.
T. 35S. R. 3W., SEC. 1, 3, 7, 9, 10, WILL. MER.

TIMBER SALE LOCATION MAP
MUSTY EVANS TIMBER SALE
CONTRACT NO. OR-M05 -TS14-08
BUTTE FALLS RESOURCE AREA



Medford District BLM
May 2014

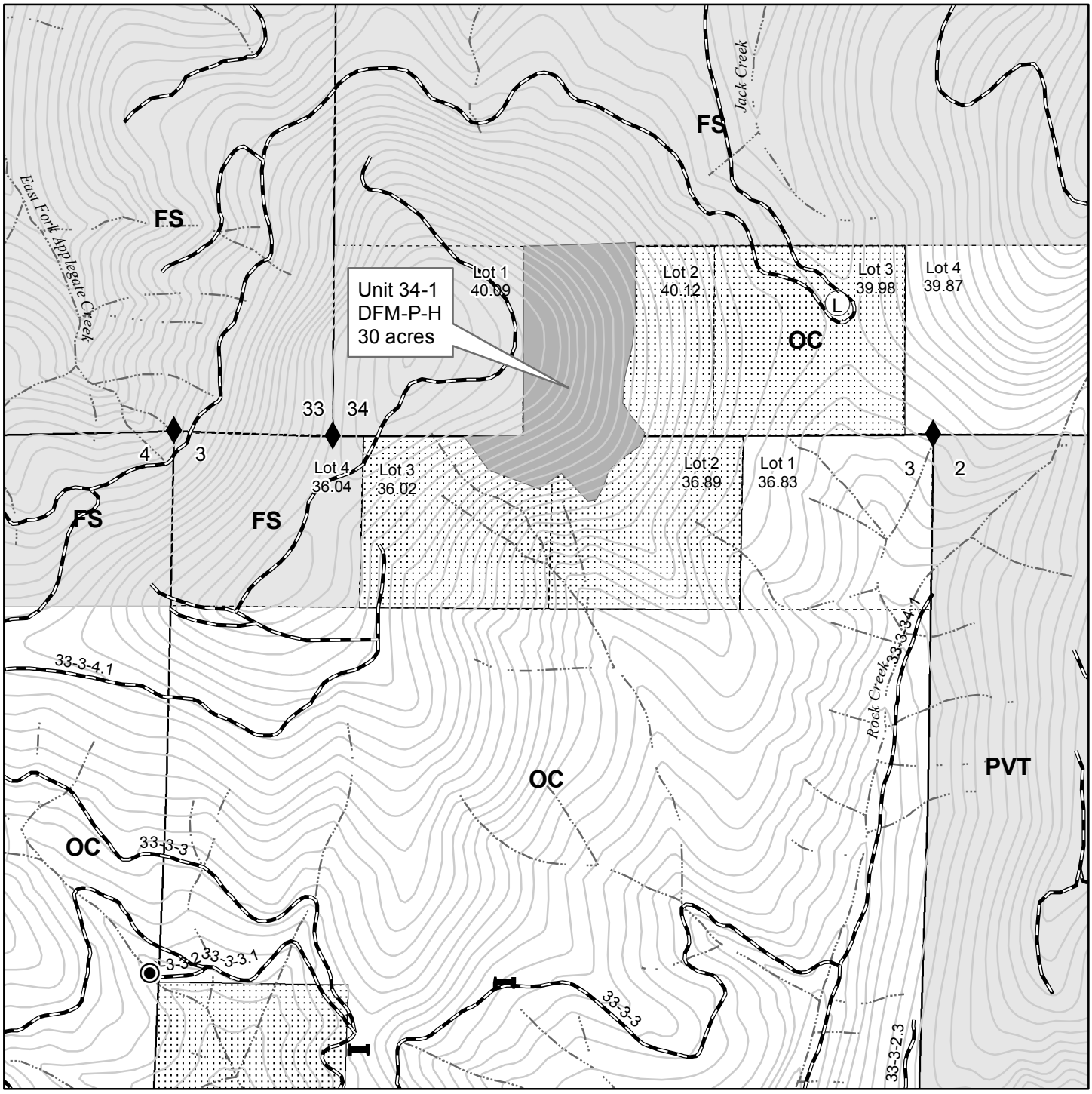
Landing type
Heli-Const
LOG
SERVICE

= Musty Evans Units

1 in = 2 miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 32S. R. 3W., SEC 34, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



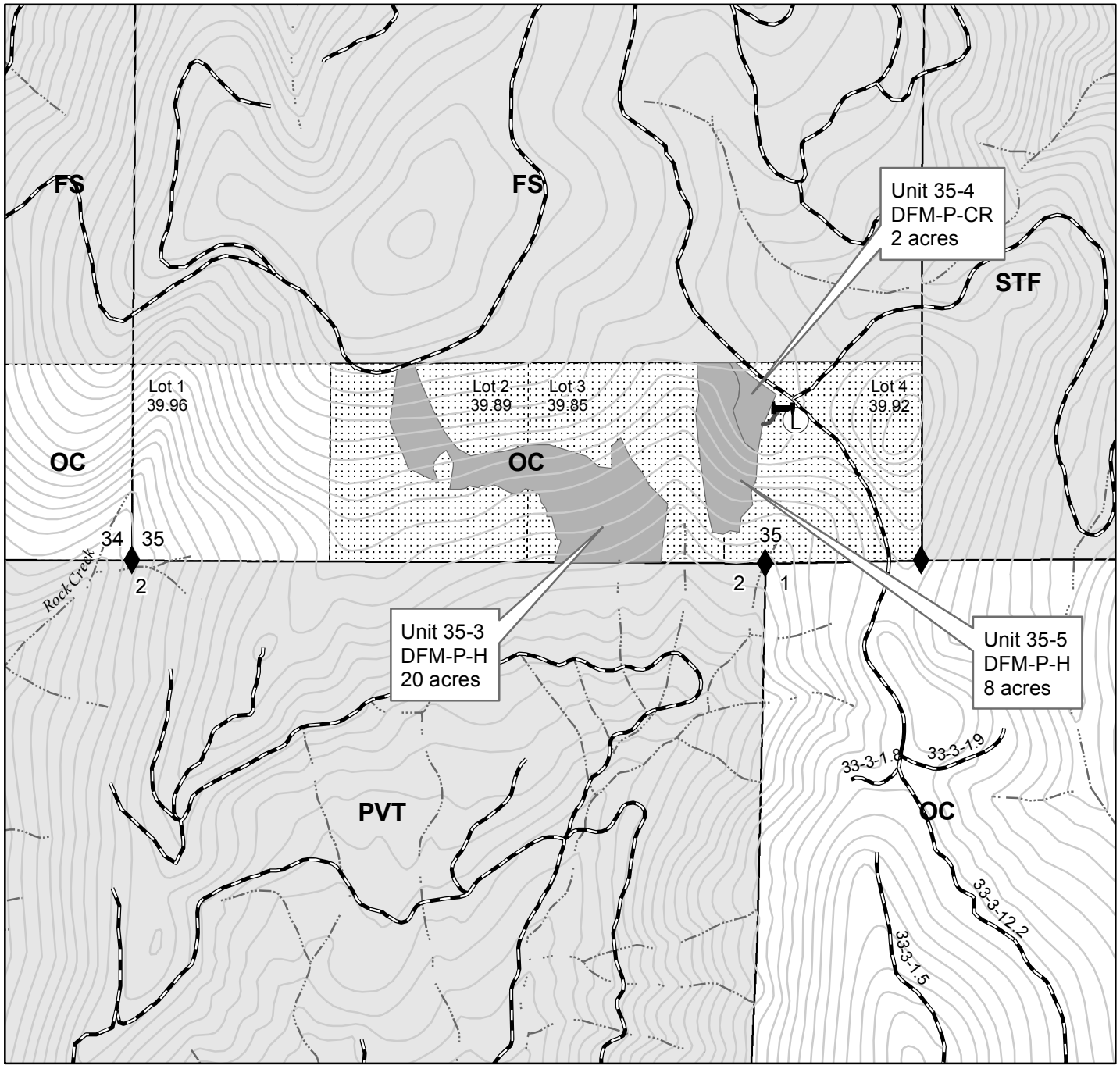
Medford District BLM
March 2014

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 32S. R. 3W., SEC 35, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



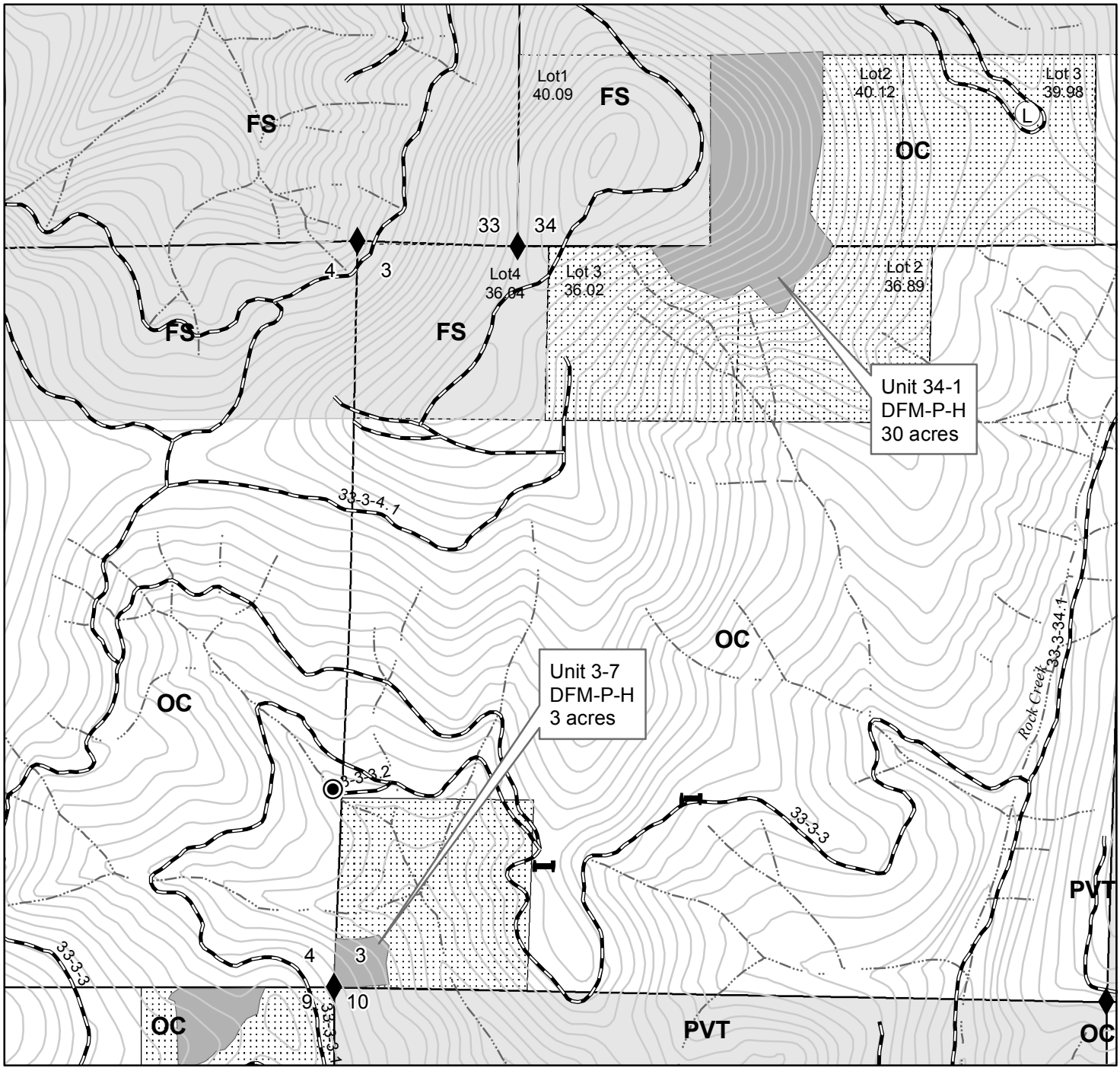
Medford District BLM
March 2014

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T.33S. R.3W. Sec 3, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

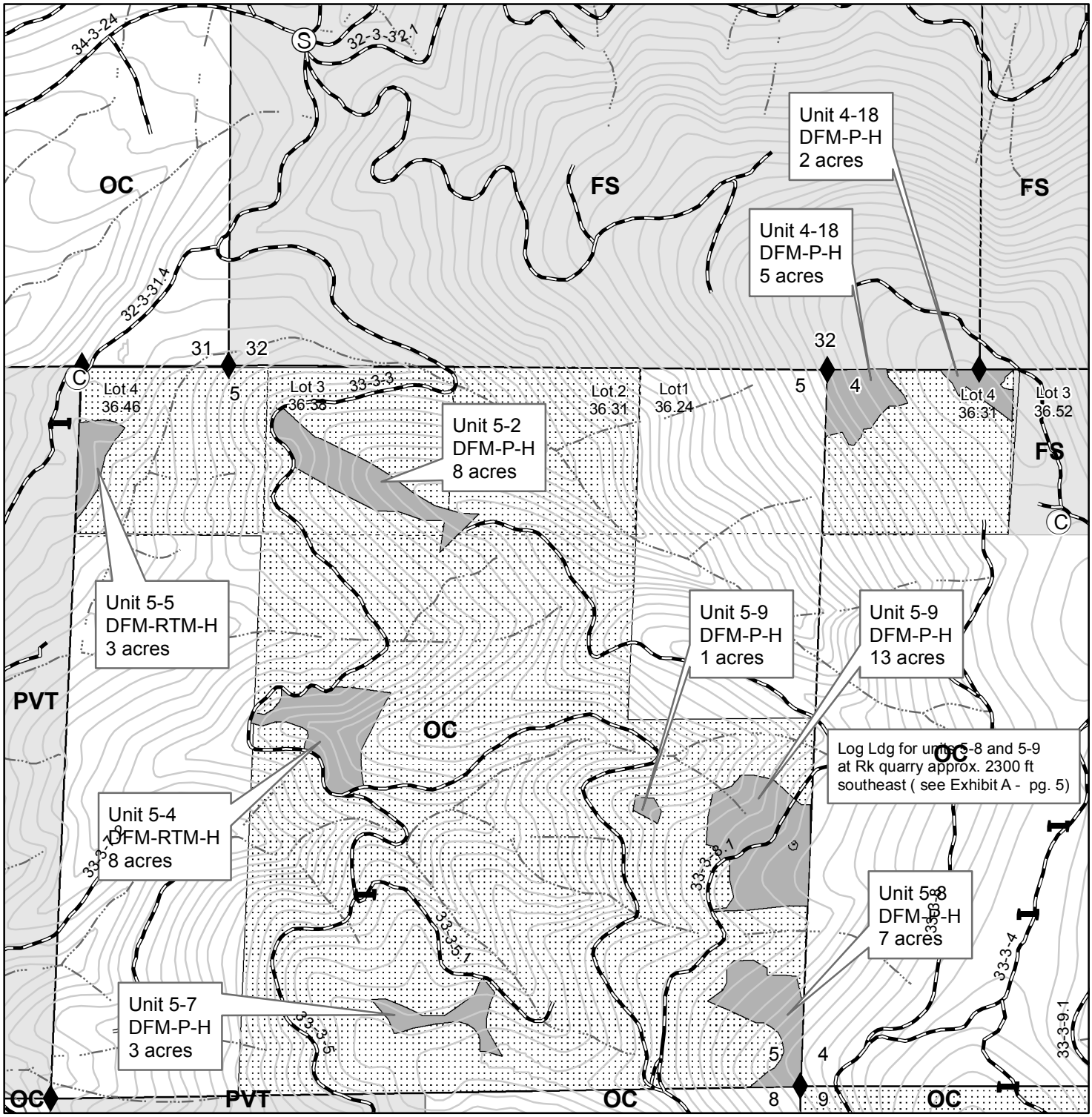
1 inch = 1,000 feet
Contours = 40 feet

N

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 3W., SEC. 4, 5 WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



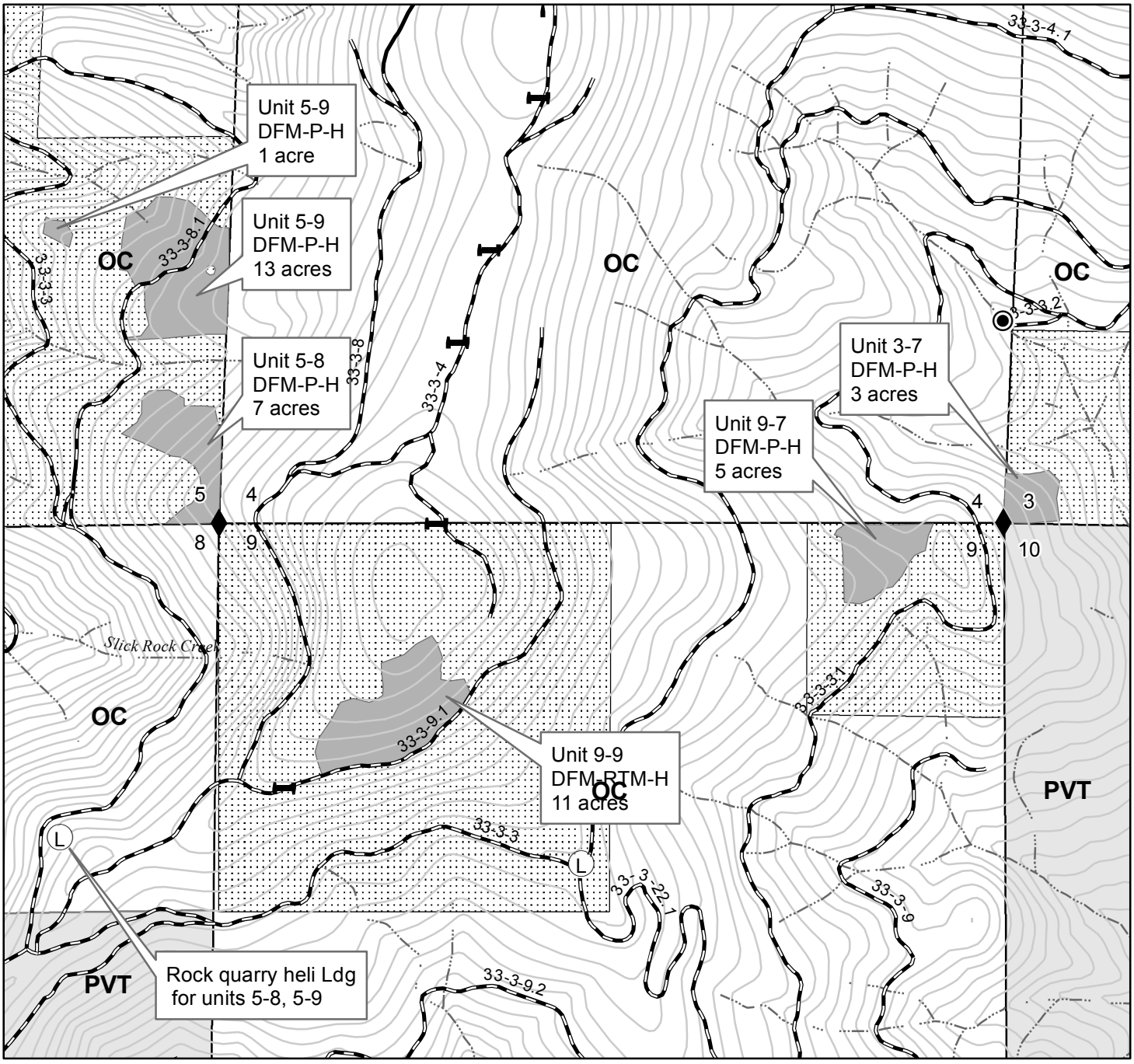
Medford District BLM
March 2014

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 3W., SEC. 9, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

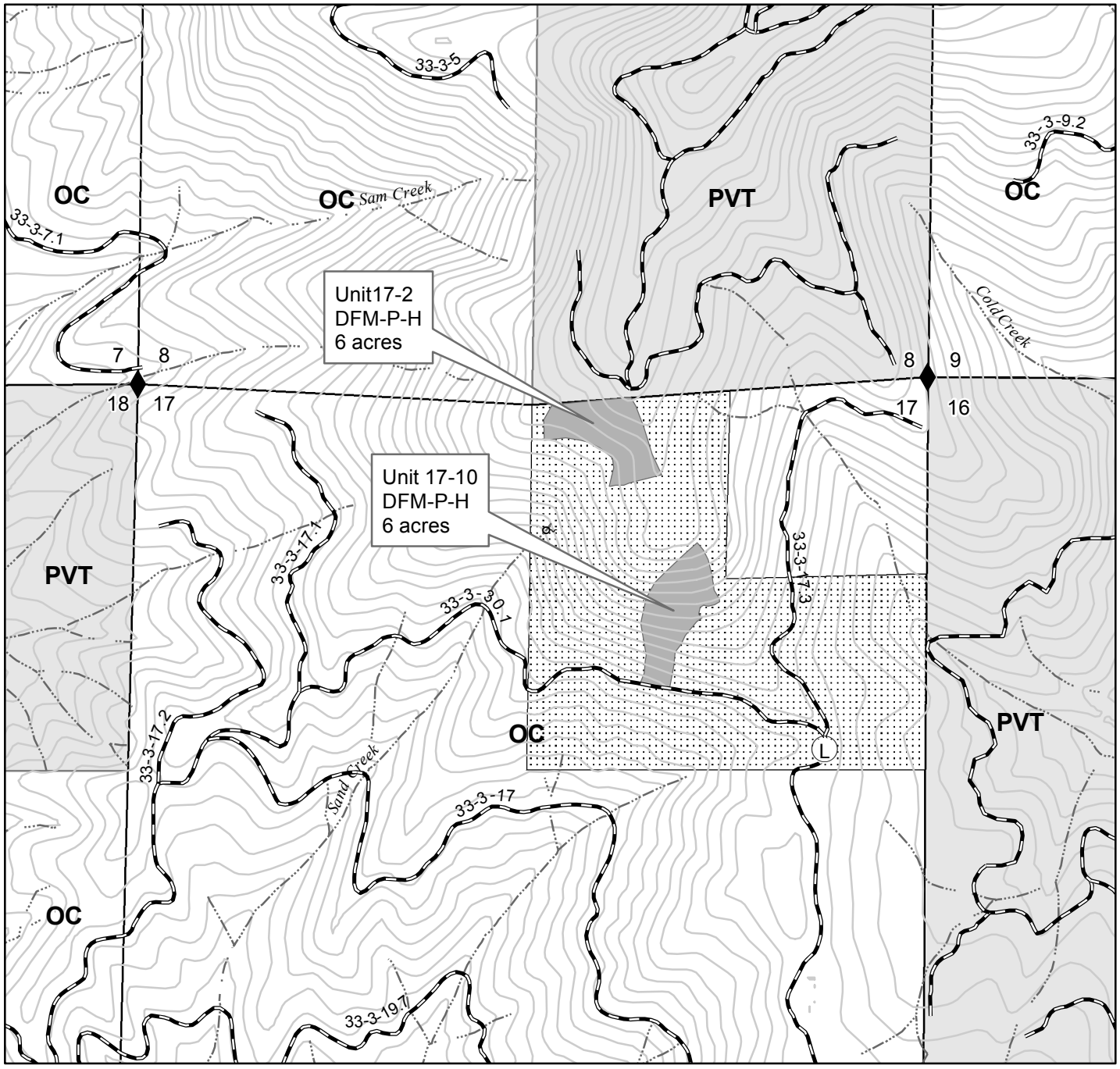
1 inch = 1,000 feet
Contours = 40 feet

N

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 3W., SEC.17, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

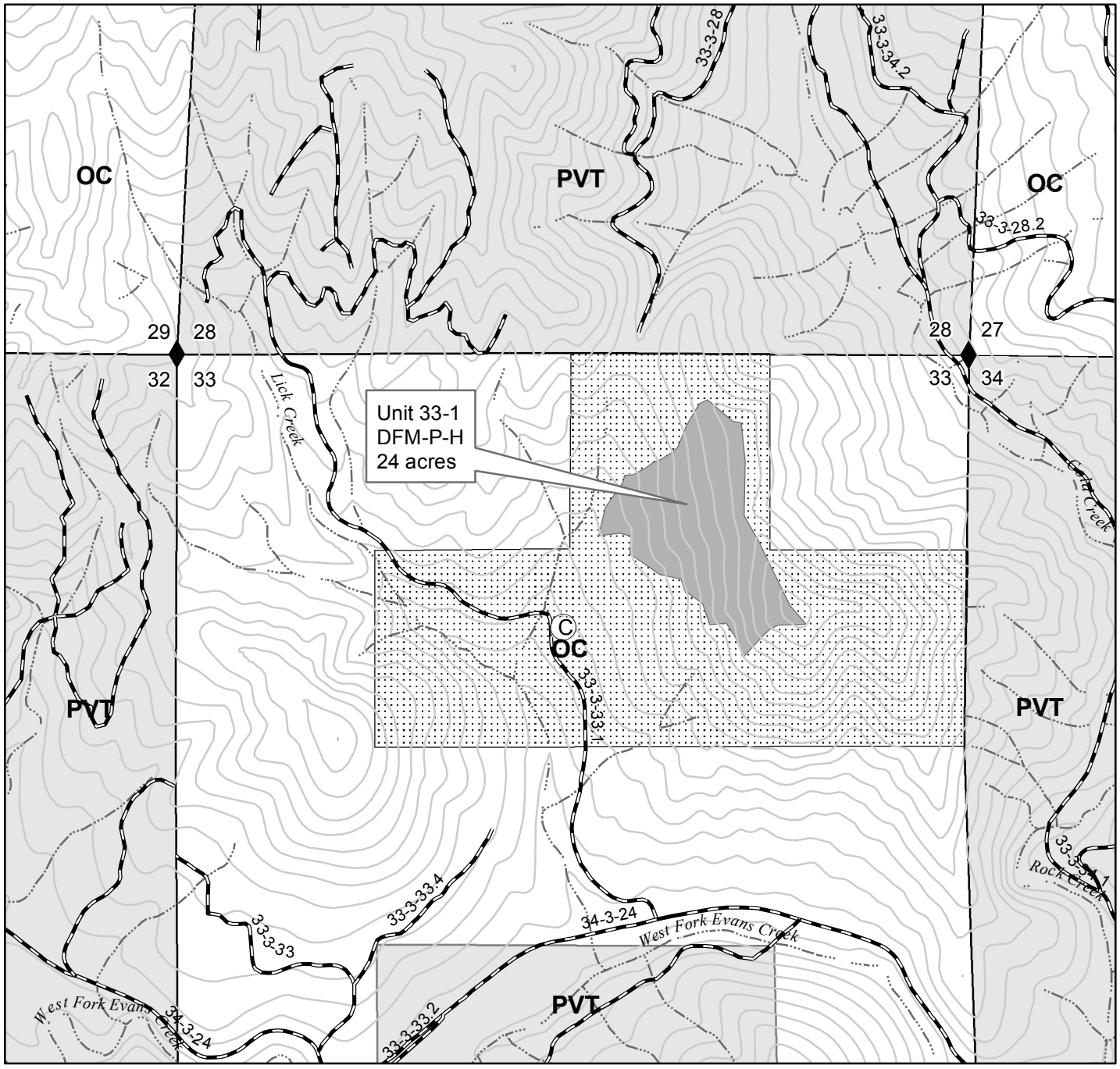
1 inch = 1,000 feet
Contours = 40 feet

N

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 3W., SEC.33 WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

1 inch = 1,000 feet
Contours = 40 feet

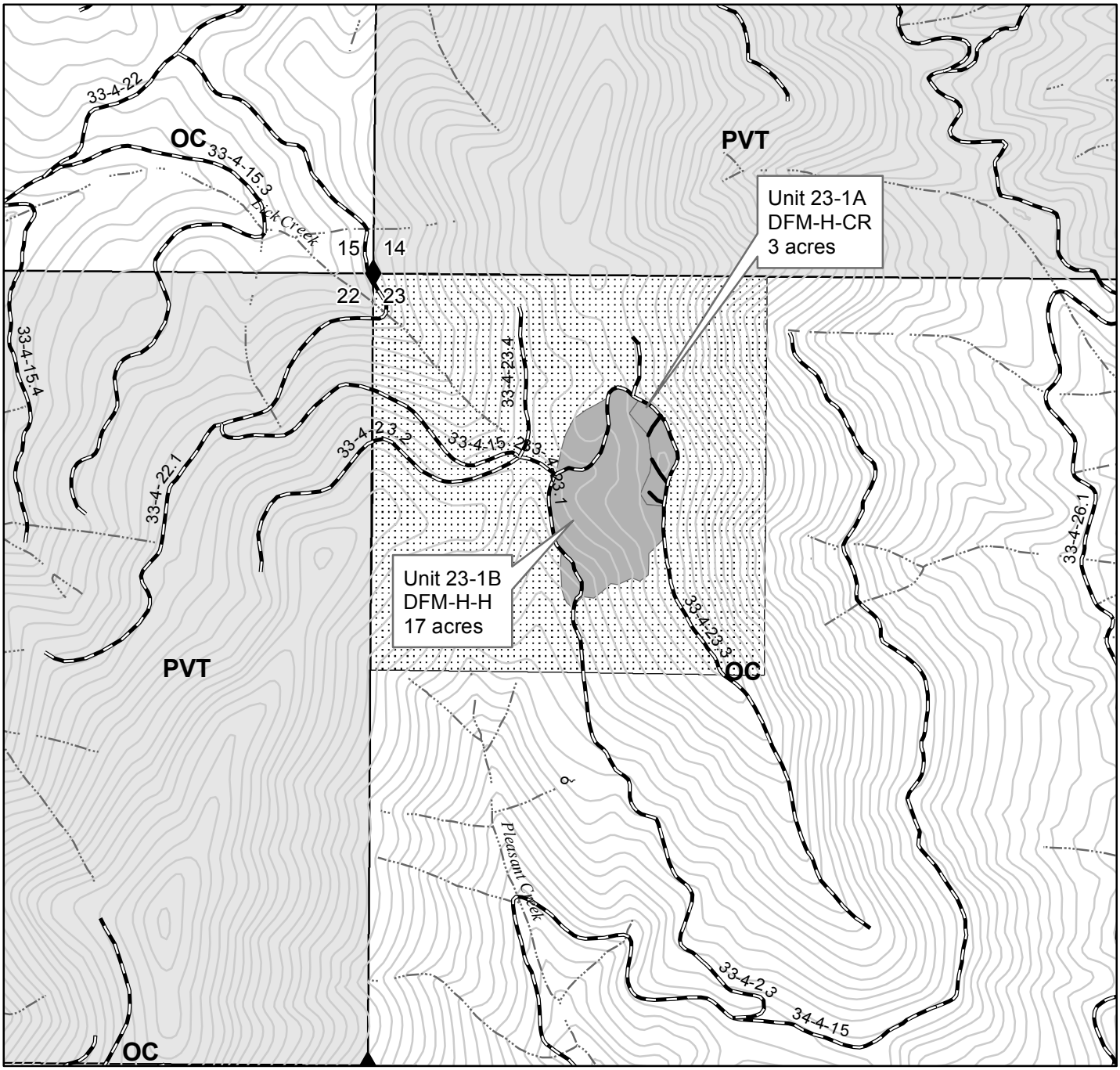
N

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 4W., SEC.23, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

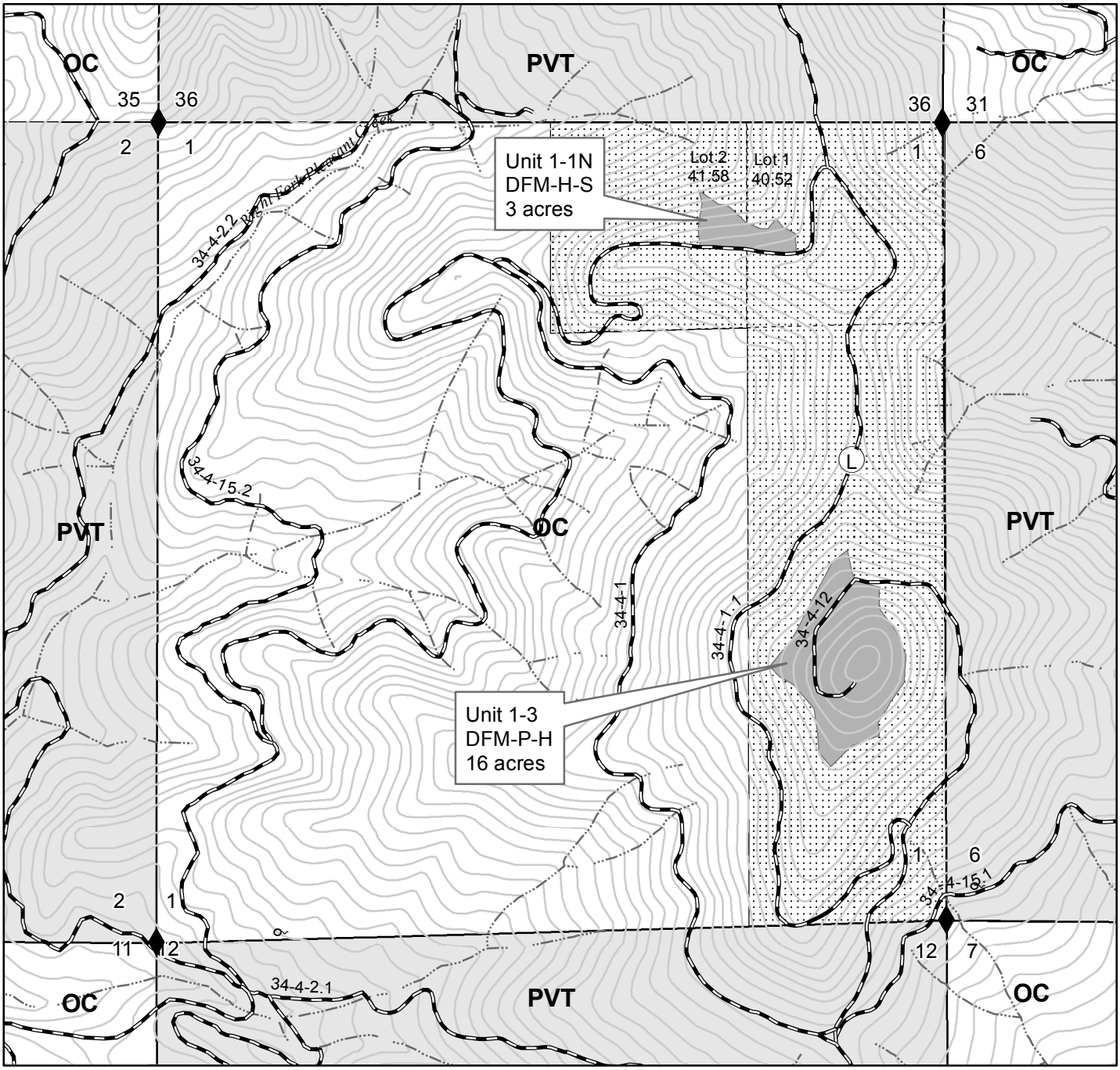
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 34S. R. 4W., SEC.1, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

1 inch = 1,000 feet
Contours = 40 feet

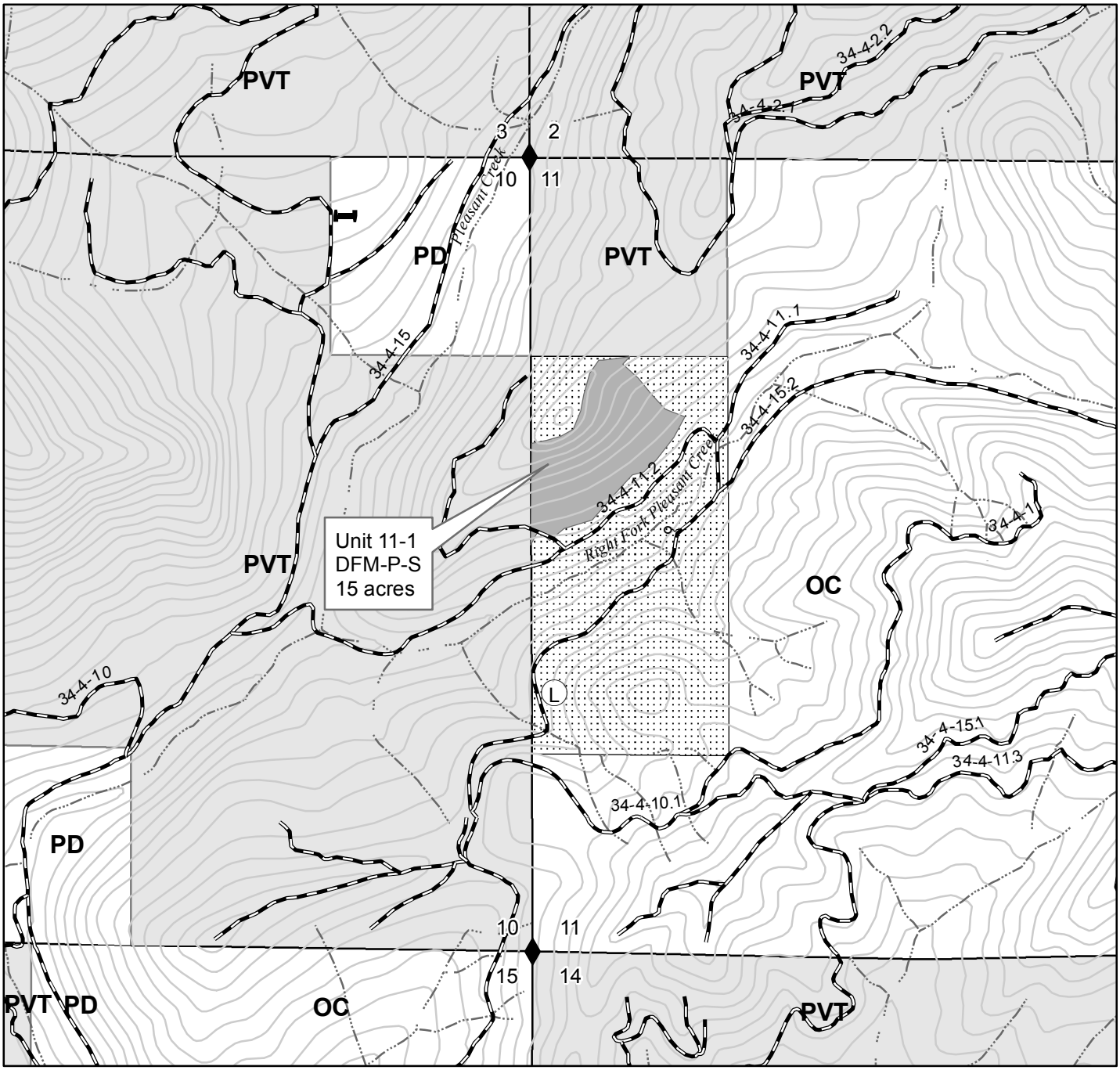
N

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 34S. R. 4W., SEC.11, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



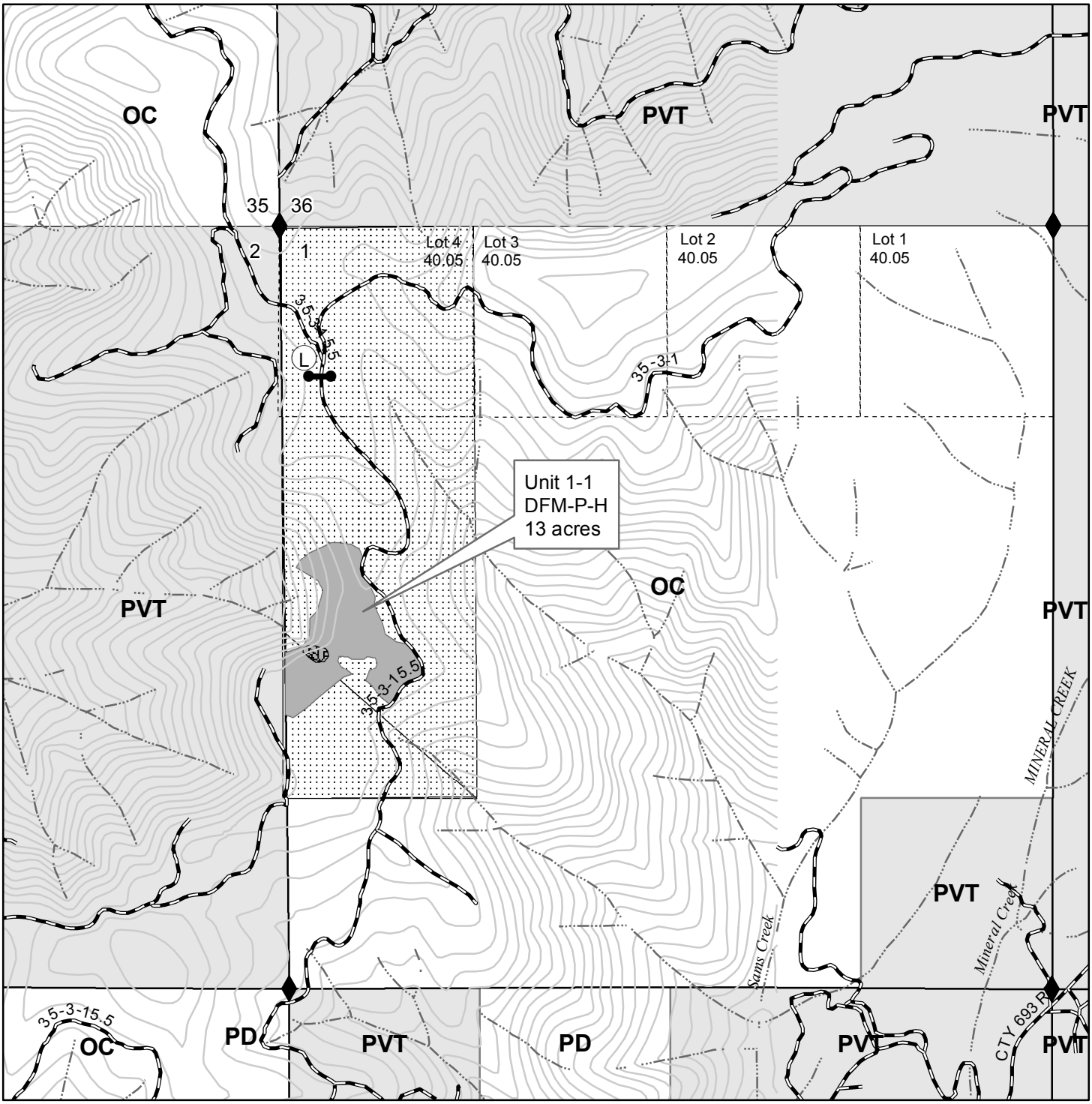
Medford District BLM
March 2014

1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 1, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

1 inch = 1,000 feet
Contours = 40 feet

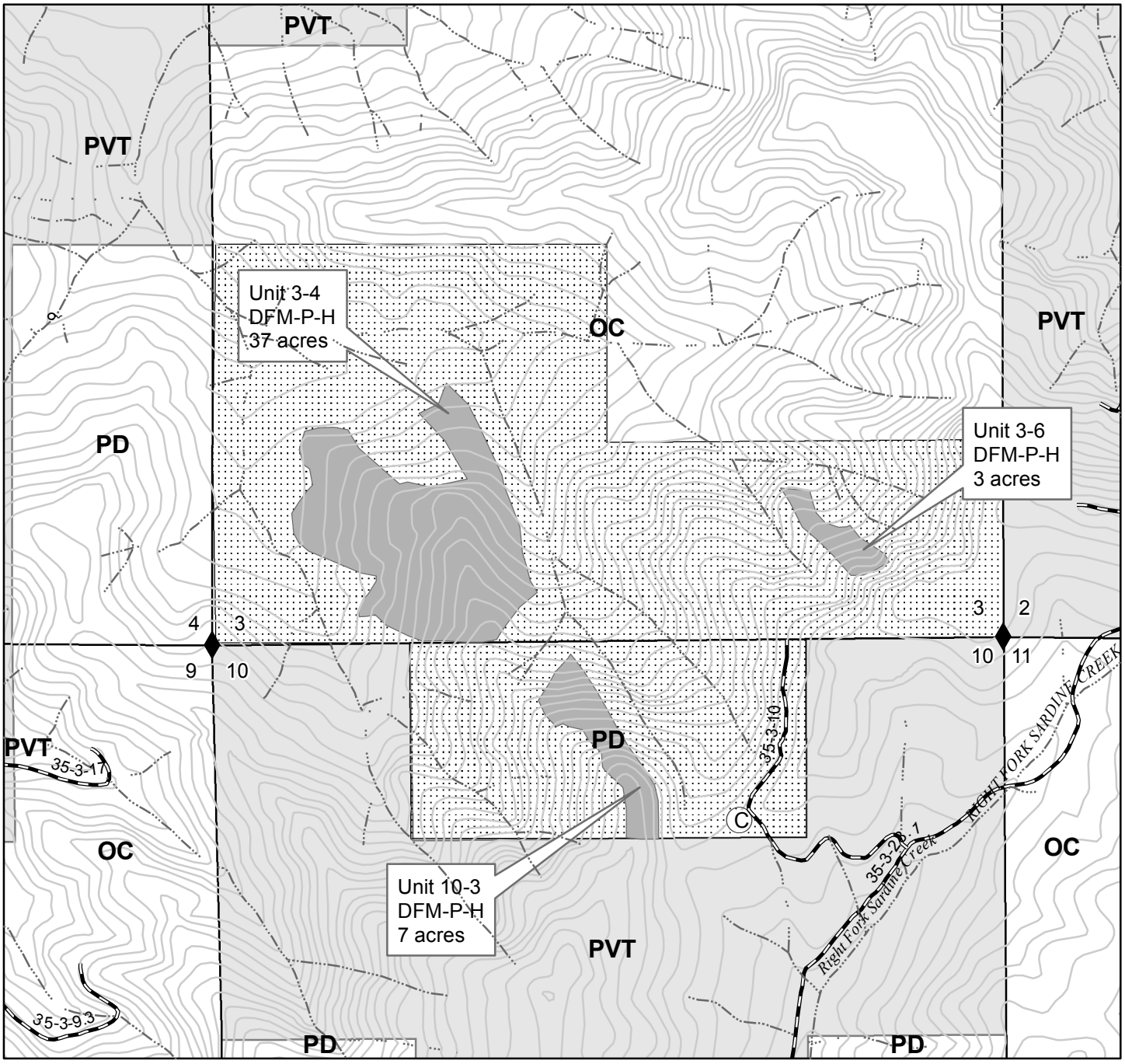
N

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 3, 10, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

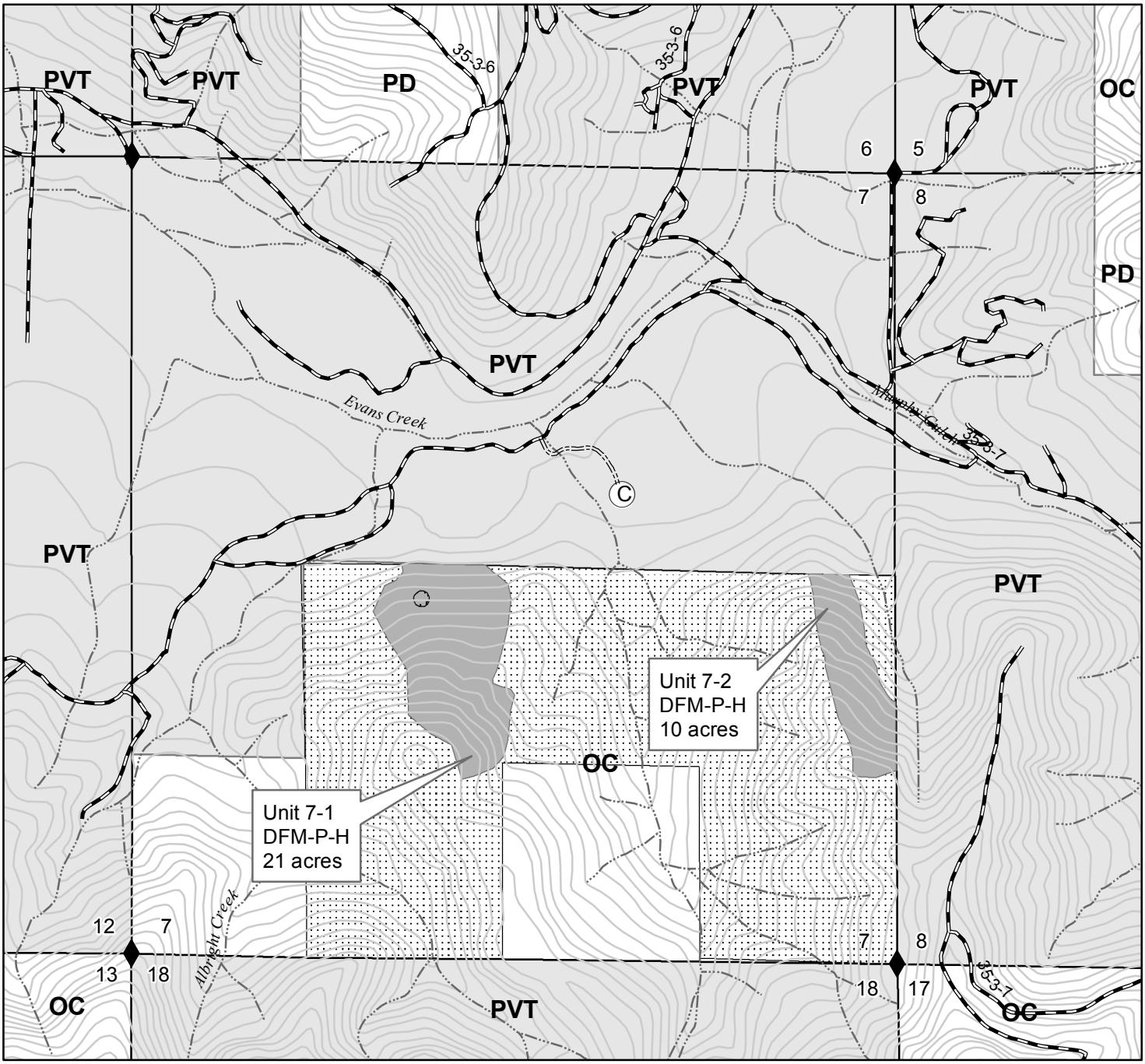
1 inch = 1,000 feet
Contours = 40 feet

N

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 7, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

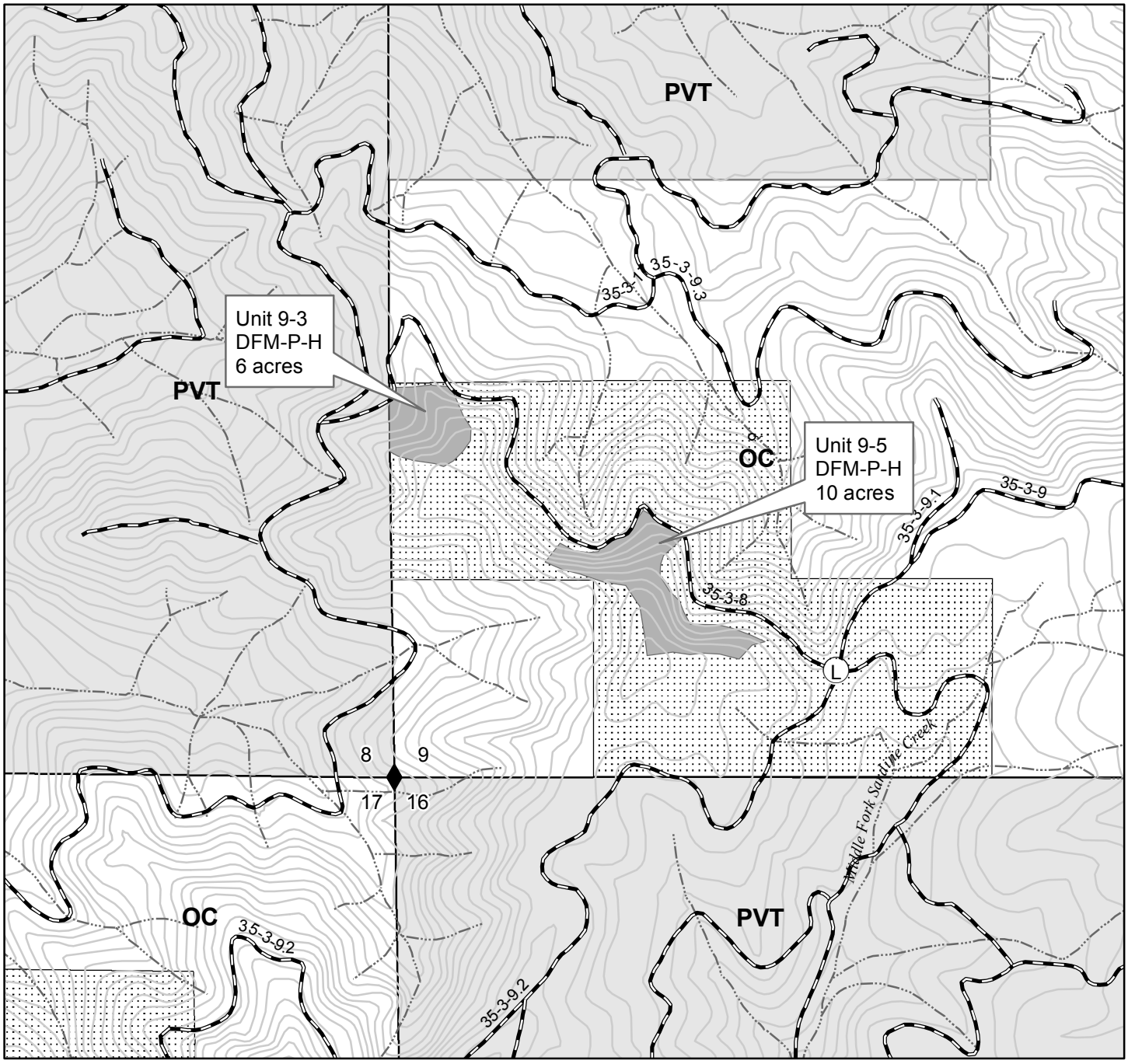
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 9, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT A



Medford District BLM
March 2014

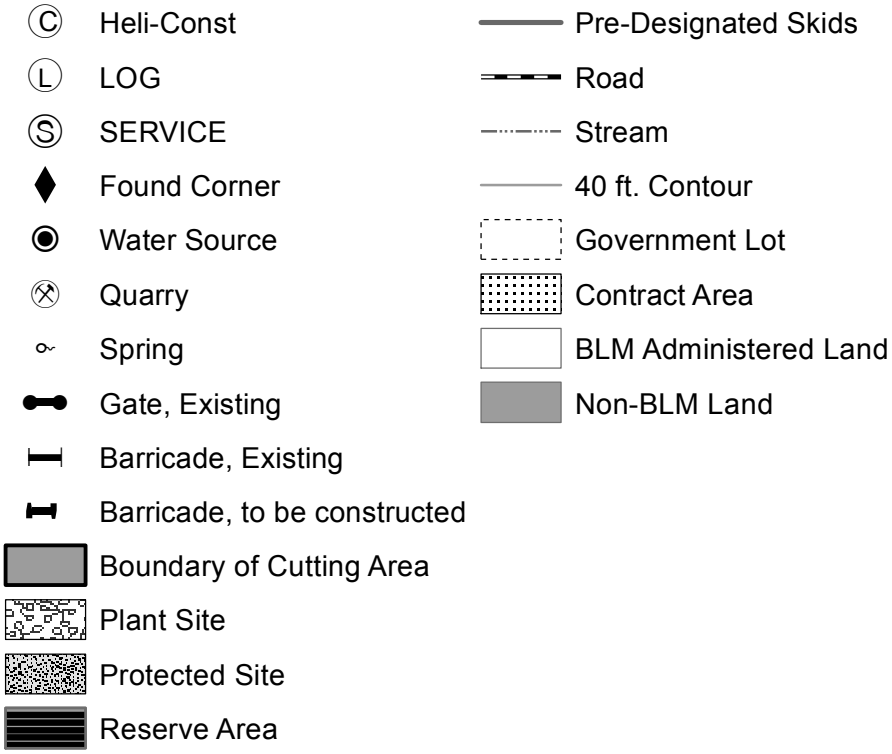
1 inch = 1,000 feet
Contours = 40 feet

N

0 0.25 0.5
Miles

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 32S. R.3W., SEC. 34, 35, WILL. MER.
T. 33S. R.3W., SEC 3,4,5,9,17, 33, WILL. MER.
T. 33S. R.4W., SEC. 23, WILL. MER.
T. 34S. R.4W., SEC. 1,11, WILL. MER.
T. 35S. R 3W., SEC. 1,3,7,9,10, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. OR-M05 -TS14 - 08
EXHIBIT A



DFM - H - CR	DRY FOREST MANAGEMENT, HARVEST TREE MARK (BLUE PAINT) TRACTOR LOG: UNITS: 23-1A
DFM - P - CR	DRY FOREST MANAGEMENT, PURCHASER TREE MARK TRACTOR LOG: UNITS: 35-4
DFM - H - S	DRY FOREST MANAGEMENT, HARVEST TREE MARK (BLUE PAINT) SKYLINE LOG: UNIT: 23-1B, 1-1N
DFM - RTM - H	DRY FOREST MANAGEMENT, RESERVE TREE MARK (YELLOW PAINT) HELICOPTER LOG: UNITS: 5-4, 5-5, 5-9
DFM - P - H	DRY FOREST MANAGEMENT, PURCHASER TREE MARK HELICOPTER LOG: UNIT: 34-1,35-3, 35-5, 17-2, 17-10, 3-7, 33-1, 4-18, 5-2, 5-7, 5-8, 5-9, 9-7, 1-3, 11-1, 1-1S, 10-3, 3-4, 3-6, 7-1, 7-2, 9-3, 9-5,

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 32S. R. 3W., SEC. 34, 35 WILL. MER.
T. 33S. R. 3W., SEC. 3, 4, 5, 9,17, 33 WILL. MER.
T. 33S. R. 4W., SEC. 23, WILL. MER.
T. 34S. R. 4W., SEC. 11, WILL. MER.
T. 35S. R. 3W., SEC. 1, 3, 7, 9, 10, WILL. MER.

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05-TS14-08
EXHIBIT A

Section Number		Unit Number	Unit Acres	Reserve Acres	Contract Acres
34		34-1	22	58.21	80.21
35		35-3, 35-4, 35-5	30	89.66	119.66
3		3-7, 34-1	11	101.91	112.91
4		4.-18	7	29.31	36.31
5		5-2, 5-4, 5-5, 5-7, 5-8, 5-9	43	349.69	392.69
9		9-7, 9-9	16	184	200
17		17-2, 17-10	12	108	120
23		23-1A, 23-1B	20	140	160
33		33-1	24	136	160
1		1-1N, 1-3	19	181	200
11		11.-1	15	65	80
7		7-1, 7-2	31	169	200
9		9-3, 9-5	16	144	160
3		3-4, 3-6	40	200	240
10		10.-3	7	73	80
1		1-1S	13	107.05	120.05
		Totals	326	2135.83	2461.83

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	4,262		
White Fir	378		
Western Hemlock	60		
Incense-cedar	50		
Ponderosa Pine	31		
Sugar Pine	3		
Sale Totals	**4,784**		

Unit Details (16' MB)

Unit 10-3 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	83		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**84**		

Unit 11-1 **15 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	153		
Incense-cedar	15		
Unit Totals	**168**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 1-1N **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	29		
Sugar Pine	3		
Unit Totals	**32**		

Unit 1-1S **13 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	154		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**155**		

Unit 1-3 **16 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	163		
Incense-cedar	16		
Unit Totals	**179**		

Unit 17-10 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	96		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	13		
Unit Totals	**113**		

Unit 17-2 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	96		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	13		
Unit Totals	**113**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 23-1A **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	3		
Unit Totals	**3**		

Unit 23-1B **17 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	52		
Incense-cedar			
White Fir	14		
Unit Totals	**66**		

Unit 33-1 **24 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	384		
Incense-cedar	3		
Ponderosa Pine	3		
Western Hemlock	9		
White Fir	54		
Unit Totals	**453**		

Unit 3-4 **37 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	439		
Incense-cedar	1		
Ponderosa Pine	4		
Unit Totals	**444**		

Unit 34-1 **30 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	480		
Incense-cedar	2		
Ponderosa Pine	4		
Western Hemlock	11		
White Fir	67		
Unit Totals	**564**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 35-3 **20 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	320		
Incense-cedar	2		
Ponderosa Pine	2		
Western Hemlock	7		
White Fir	45		
Unit Totals	**376**		

Unit 35-4 **2 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
White Fir	7		
Unit Totals	**55**		

Unit 35-5 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	96		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	4		
White Fir	14		
Unit Totals	**116**		

Unit 3-6 **3 Acres** **Value per Acre : $0.00**

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

Unit 3-7 **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
Incense-cedar			
Ponderosa Pine			
Western Hemlock	1		
White Fir	7		
Unit Totals	**56**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 4-18 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	80		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	11		
Unit Totals	**95**		

Unit 5-2 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	128		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	3		
White Fir	18		
Unit Totals	**151**		

Unit 5-4 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	128		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	3		
White Fir	18		
Unit Totals	**151**		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
Incense-cedar			
Ponderosa Pine			
Western Hemlock	1		
White Fir	7		
Unit Totals	**56**		

Unit 5-7 **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
Incense-cedar			
Ponderosa Pine			
Western Hemlock	1		
White Fir	7		
Unit Totals	**56**		

Unit 5-8 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	112		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	3		
White Fir	16		
Unit Totals	**133**		

Unit 5-9 **14 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	224		
Incense-cedar	1		
Ponderosa Pine	2		
Western Hemlock	5		
White Fir	31		
Unit Totals	**263**		

Unit 7-1 **21 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	249		
Incense-cedar	1		
Ponderosa Pine	2		
Unit Totals	**252**		

Unit 7-2 **10 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	119		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**120**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 9-3 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	71		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**72**		

Unit 9-5 **10 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	119		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**120**		

Unit 9-7 **5 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	80		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	11		
Unit Totals	**95**		

Unit 9-9 **11 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	176		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	4		
White Fir	25		
Unit Totals	**207**		

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

Contract No.: ORM05-TS-14-08

Sale Name: Musty Evans

Issuing Office:Medford

EXHIBIT B
SCALE SALE
PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS

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

Schedule of Species, Measurement Units, and Prices		
Species	Measurement Unit	Price Per Measurement Unit
Merchantable logs - Douglas-fir	MBF	
White Fir	MBF	
Western Hemlock	MBF	
Incense-Cedar	MBF	
Ponderosa pine	MBF	
Sugar pine		
Utility logs	MBF	Not Applicable

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

Schedule of Minimum Material Specifications			
Species and Products	Length	Diameter (inside bark at small end)	Net Scale
All Species	8 feet	5 inches	33 1/3% of gross volume of any log segment

If Purchaser elects to remove any logs which do not meet the above minimum log specifications and which have not been reserved to Government in Sec. 41 of the contract, such logs shall be scaled for their merchantable content as provided herein and be paid for in accordance with Sec. 2 and 3 of this contract and the value in Section 1 of this Exhibit.

III. **Merchantable Timber Remaining - Measurement Requirements** - The remaining volume of any merchantable sold timber on the contract area shall be determined as provided in Section 3.(g). of the contract. Purchaser shall

pay for same in accordance with Sec. 3 of the contract at the unit prices shown in Section I of this Exhibit.

IV. **Scaling**

A. **Log Rule and Measurement** - All logs shall be scaled according to the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale. A Scaling Authorization Form (OR 5300-18) must be completed prior to beginning of operations. If sample log scaling is agreeable to the Purchaser and the Contracting Officer, the procedures will be agreed upon in writing regarding sample design, number of log sorts, expansion of sample volumes for computation of Merchantable Timber volume, etc.

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

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

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

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

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

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

F. **Check Scale** - The Government will conduct check scales as set forth in Instruction Memorandum OR-2003-081, Item 2b (Administrative Check Scaler). Determinations as to volume of timber made by a government check scaler in conformance with the standards as set forth herein shall be final. All loads check scaled by BLM will be identified with the check scaler's initials legibly marked or painted in the face of the first log in each load. When such checks show a variance in scale in excess of acceptable standards, as set forth in Instruction Memorandum OR-2003-081, Item 2b (Administrative Check Scaler), in two or more consecutive check scales, an adjustment to the volume reported as scaled will be made by BLM. Such adjustments will be made based on the difference between available BLM check scales and the original scale during the period covered by the unsatisfactory check scales. Unless otherwise approved in writing by the Authorized Officer, the volume to which this difference will be applied will be 50 percent of the volume scaled between the last satisfactory check and the first unsatisfactory check, 100 percent of the volume scaled during the unsatisfactory check, and 50 percent of the volume between the last unsatisfactory check scale and the next satisfactory check scale.

G. **Accountability**

1. Purchaser shall notify the Authorized Officer five (5) days prior to starting or stopping of hauling operations performed under the contract.

2. **Logs will be painted and branded at the landing and accounted for in accordance with Sec. 42(A)(1)(LE-1)of the contract. If Sale Area is within a State that maintains a log brand register, brands shall be registered with the State. Purchaser shall use assigned brand(s) exclusively on logs from this sale until the Authorized Officer releases the brand(s).** Each truck driver shall obtain a load receipt and a BLM scaler receipt from the Log Truck Ticket Book issued by the

Authorized Officer and comply with the instructions specified on the cover of said book. While products are in transit, the truck driver shall display the load receipt and BLM scaler receipt on the bunk or wing log at the front of the load on the driver's side. All logs on each load shall be delivered to the destination listed on the woods receipt. The BLM scaler receipt shall be surrendered at the location of BLM scaling, the unloading location, or as requested by BLM. A designated area shall be identified at the yard scaling location for logs arriving during off hours. Logs arriving during off hours shall be left on the truck or may be off loaded to the designated area.

3. The Purchaser shall not haul logs from the contract area on weekends; Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas, and New Year's holidays; or outside the hours of 4:00 a.m. to 8:00 p.m. daily, unless otherwise approved in writing by the Authorized Officer or designated in the Approved Logging Plan (Refer to Section 42(B)(11)(L-23) of the contract).

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

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

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

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

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

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

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

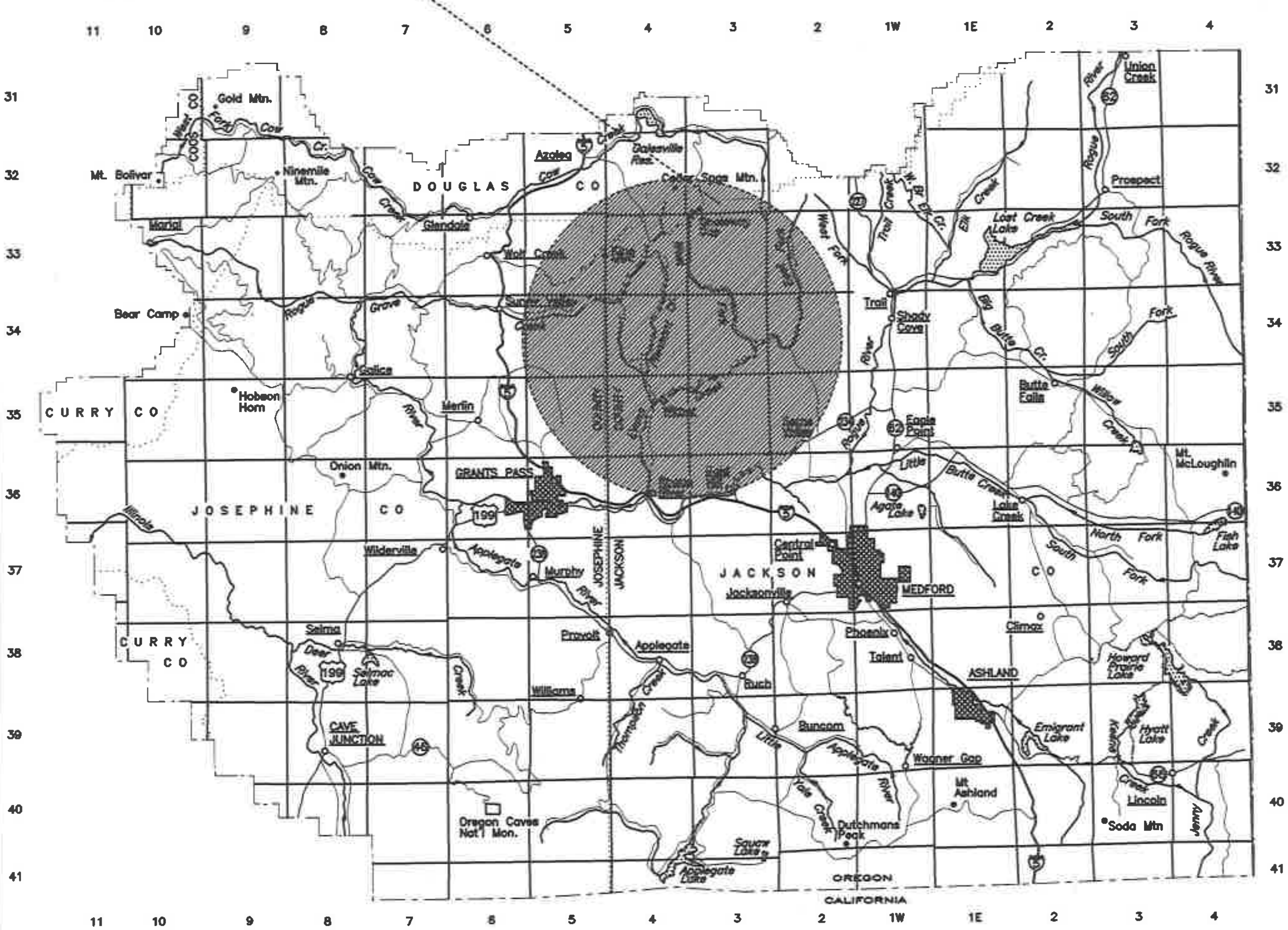
Total Estimated Purchase Price And/Or Schedule of Volumes and Values for Merchantable Timber Not Yet Removed from Contract Area					
Cutting Area		Total Estimated Volume (MBF)		Total Estimated Purchase Price	
Cutting Area Number	Approximate Number of Acres	Volume per Acre	Total Volume	Value per Acre	Total Value
10-3	7	12.0	84		
11-1	15	11.2	168		
1-1N	3	10.7	32		
1-1S	13	11.9	155		
1-3	16	11.2	179		
17-10	6	18.8	113		
17-2	6	18.8	113		
23-1A	3	1.0	3		
23-1B	17	3.9	66		
33-1	24	18.9	453		
3-4	37	12.0	444		
34-1	30	18.8	564		
35-3	20	18.8	376		
35-4	2	27.5	55		
35-5	8	14.5	116		
3-6	3	12.0	36		
3-7	3	18.7	56		
4-18	7	13.6	95		
5-2	8	18.9	151		
5-4	8	18.9	151		
5-5	3	18.7	56		
5-7	3	18.7	56		
5-8	7	19.0	133		
5-9	14	18.8	263		
7-1	21	12.0	252		
7-2	10	12.0	120		
9-3	6	12.0	72		
9-5	10	12.0	120		
9-7	5	19.0	95		
9-9	11	18.8	207		
Sale Total	326	14.7	4,784		

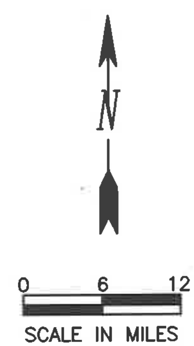
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT
MUSTY EVANS TIMBER SALE
TRACT NO. ORM05-TS-2014.0008

EXHIBIT C—1
SHEET 1 OF 1

Exhibit No.	Description
C1	TITLE SHEET
C2	ROAD RENOVATION MAP
C3	ESTIMATE OF QUANTITIES
C4	SPECIFICATION SHEET
C5	ROAD RENOVATION WORK LIST
C6	CULVERT LIST
C7	CULVERT INSTALLATION DETAILS
C8	CULVERT BAND DETAILS
C9	FILL REPAIR SECTION
C10	TYPICAL ROAD DESIGN
C11	DRAINAGE AND EROSION CONTROL
C12	BRUSHING DIAGRAM
C13	HELICOPTER LANDING DETAILS
C14	RENOVATION SPECIFICATIONS
C15	SPECIAL PROVISIONS
D1	MAINTENANCE SPECIFICATIONS
D 2	ROAD MAINTENANCE MAP

PROJECT LOCATION





ALWAYS
THINK
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.

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

MUSTY EVANS T.S
TITLE SHEET

DESIGNED ______
REVIEWED ______
APPROVED ______

DRAWN BY: BGS	SCALE AS SHOWN
DATE: APRIL 2014	SHEET 1 OF 1

DRAWING NO. ORM05-TS-2013-0001

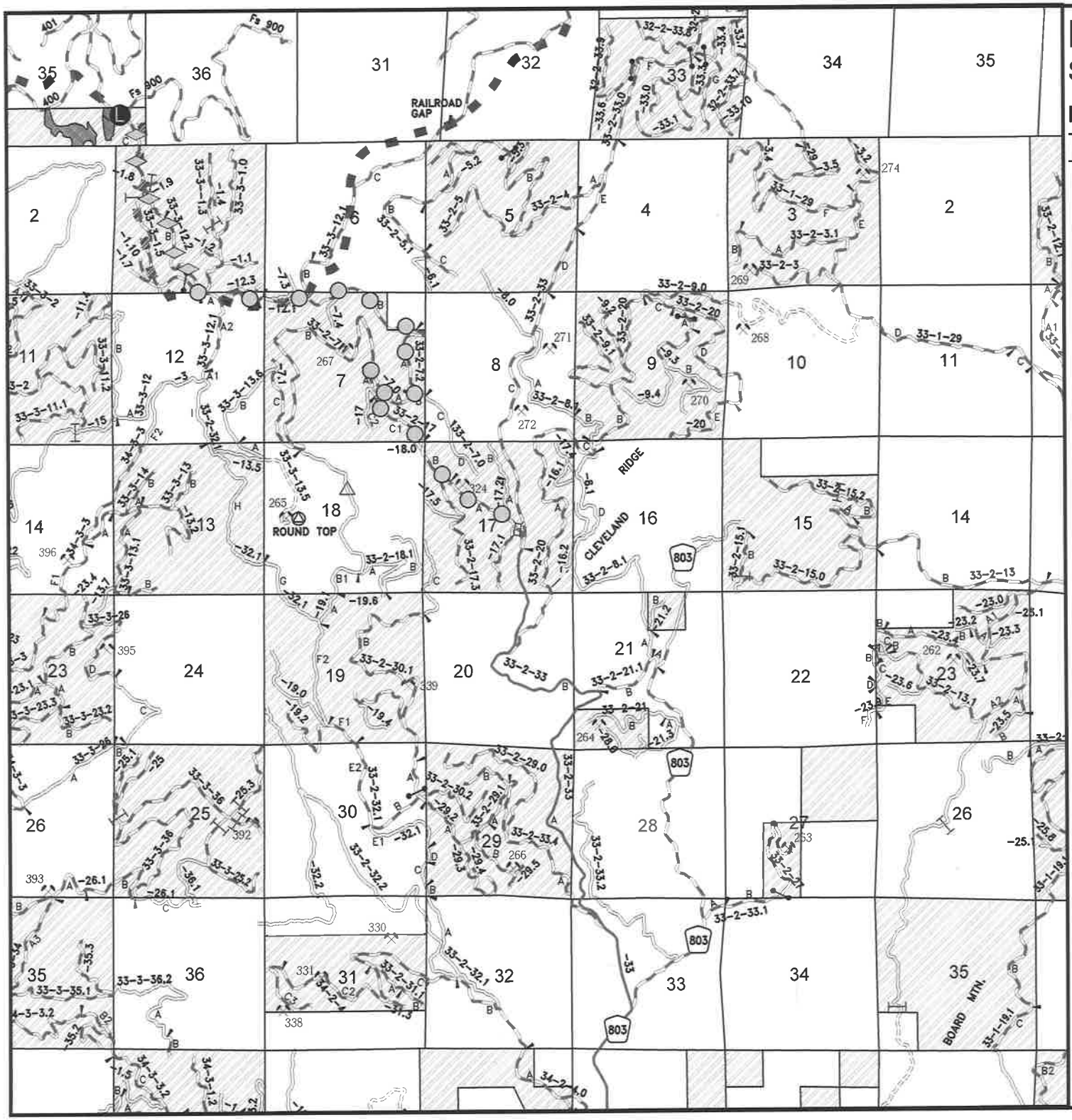


EXHIBIT C2

SHEET 1 OF 4

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

NATURAL SURFACE ROAD

PRIMITIVE ROUTE

ROAD TO BE RENOVATED

ROAD TO BE RENOVATED AND BRUSHED

ROAD TO BE RENOVATED AND SURFACED

HELICOPTER LANDING (L)

CONSTRUCT HELICOPTER LANDING (C)

STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.32S., R.3W. WILL. MER.
T.32S., R.2W. WILL. MER.
T.33S., R.3W. WILL. MER.
T.33S., R.2W. WILL. MER.

0 1
SCALE IN MILES

N

ALWAYS THINK SAFETY

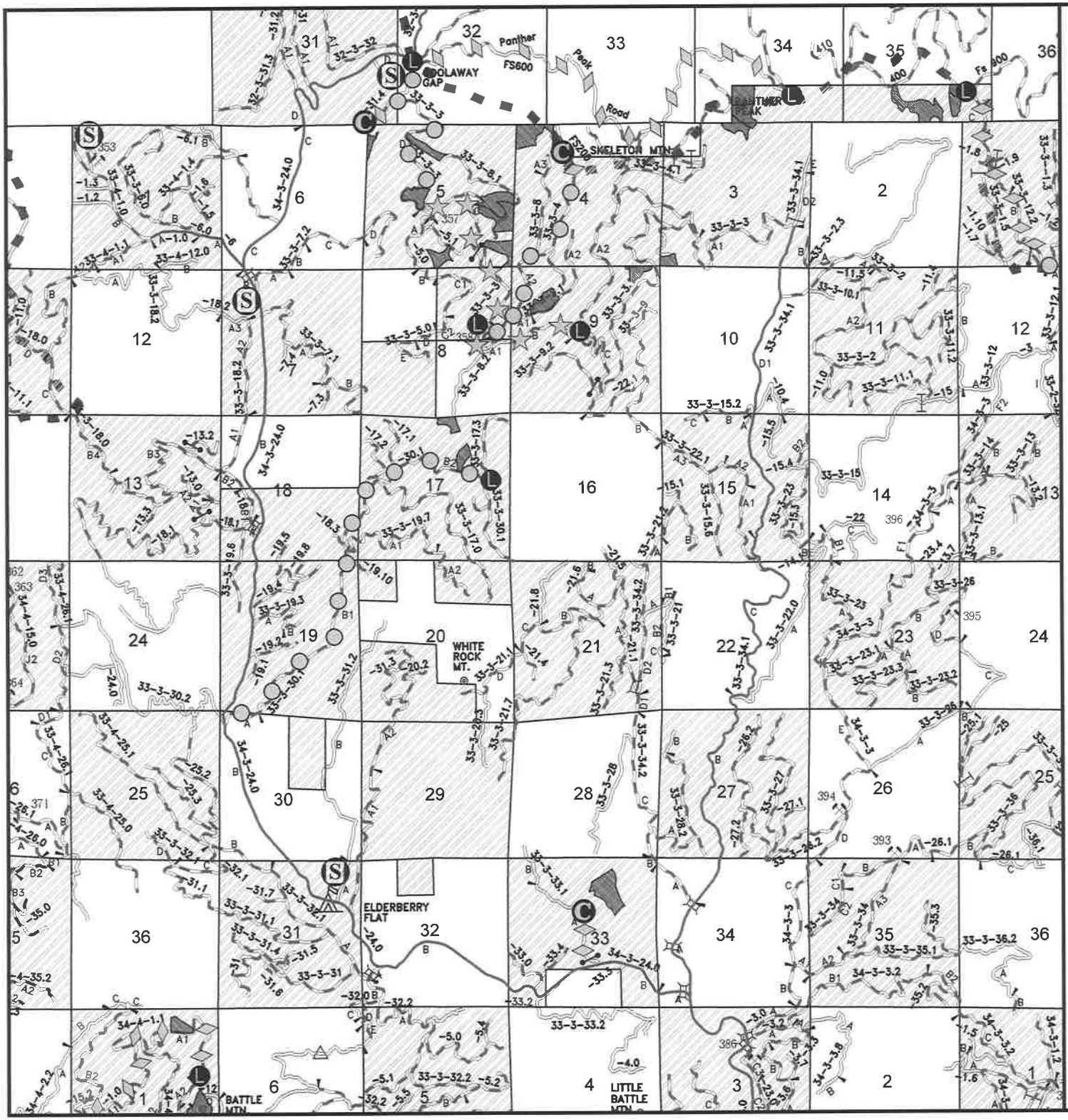


EXHIBIT C2

SHEET 2 OF 4

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

- BLM OWNERSHIP
- T.S. UNITS
- BST ROAD
- ROCKED ROAD
- NATURAL SURFACE ROAD
- PRIMITIVE ROUTE
- ROAD TO BE RENOVATED
- ROAD TO BE RENOVATED AND BRUSHED
- ROAD TO BE RENOVATED AND SURFACED
- HELICOPTER LANDING (L)
- CONSTRUCT HELICOPTER LANDING (C)
- STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.32S., R.3W. WILL. MER.
T.33S., R.4W. WILL. MER.
T.33S., R.3W. WILL. MER.
T.34S., R.4W. WILL. MER.
T.34S., R.3W. WILL. MER.

0 1
SCALE IN MILES

N

ALWAYS THINK SAFETY

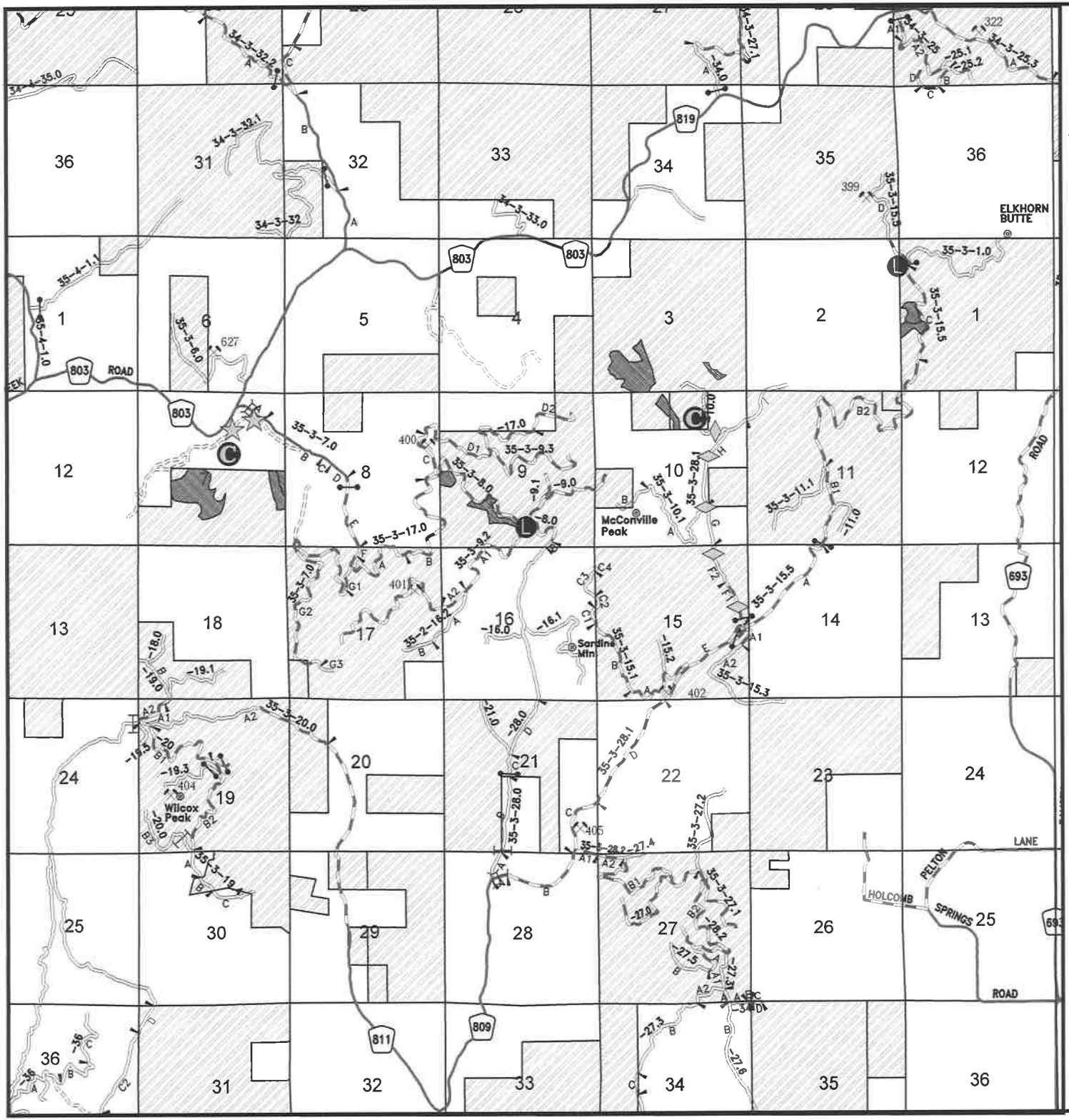


EXHIBIT C2

SHEET 3 OF 4

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

- BLM OWNERSHIP
- T.S. UNITS
- BST ROAD
- ROCKED ROAD
- NATURAL SURFACE ROAD
- PRIMITIVE ROUTE
- ROAD TO BE RENOVATED
- ROAD TO BE RENOVATED AND BRUSHED
- ROAD TO BE RENOVATED AND SURFACED
- HELICOPTER LANDING (L)
- CONSTRUCT HELICOPTER LANDING (C)
- STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.34S., R.4W. WILL. MER.
T.34S., R.3W. WILL. MER.
T.35S., R.4W. WILL. MER.
T.35S., R.3W. WILL. MER.

0 1
SCALE IN MILES

ALWAYS THINK SAFETY

N

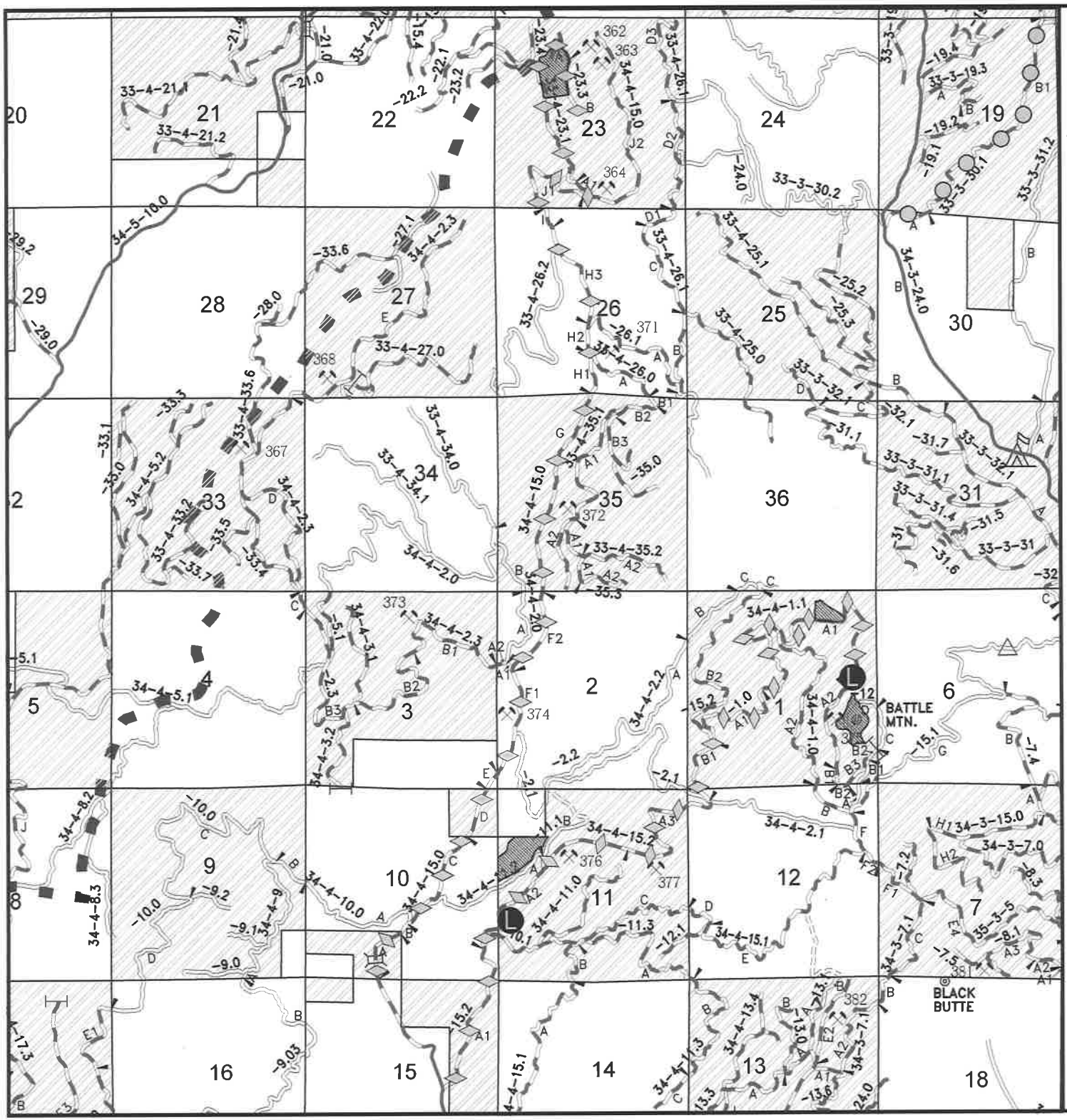


EXHIBIT C2

SHEET 4 OF 4

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

- BLM OWNERSHIP
- T.S. UNITS
- BST ROAD
- ROCKED ROAD
- NATURAL SURFACE ROAD
- PRIMITIVE ROUTE
- ROAD TO BE RENOVATED
- ROAD TO BE RENOVATED AND BRUSHED
- ROAD TO BE RENOVATED AND SURFACED
- HELICOPTER LANDING (L)
- CONSTRUCT HELICOPTER LANDING (C)
- STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.33S., R.4W. WILL. MER.
T.33S., R.3W. WILL. MER.
T.34S., R.4W. WILL. MER.
T.34S., R.3W. WILL. MER.

0 1
SCALE IN MILES

ALWAYS THINK SAFETY

N

EXHIBIT C–3
SHEET 1 OF 2

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE SIZE					ELBOWS	DOWNSPOUT				RENOVATION	WD/AWD	CONST. WATER BAR	AGGREGATE**					GEOTEXTILES	SLOPE PROTECTION	SOIL STABILIZATION	ROADSIDE BRUSHING	EARTH / LOG BARRIER
					ROCK	COMMON	18"	24"	36"				FULL/HALF ROUND		RECT. FLUME					PITRUN	GRID ROLLED	SCREENED ROCK A	CRUSHED BASE C-1	CRUSHED SURFACE					
SPECIFICATION NO.				200	300	300	400	400	400	400	400	400	400	400	400	400	500			700	800	900	1000	1200	1300	1400	1800	2100	
UNIT	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	MILE	EA.	EA.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	S.F.	C.Y.	ACRE	MILE	
32-3-31.04	0.00	0.30	0.30														0.30			200							0.50	0.30	
33-2-7.00	0.00	0.42	0.42														0.42												
33-2-7.01	0.00	0.10	0.10														0.10												
33-2-7.02	0.00	1.60	1.60														1.60												
33-2-17.00	0.00	1.63	1.63														1.63												
33-3-3.00	3.40	6.00	2.60														2.60							2,542					
33-3-3.00	6.00	7.84	1.84														1.84												
33-3-4.00	0.00	0.61	0.61														0.61												
33-3-8.00	0.00	0.81	0.81														0.81												
33-3-12.01	0.00	0.52	0.52														0.52												
33-3-12.02	0.00	1.59	1.59														1.59											1.59	
33-3-30.01	0.00	3.48	3.48														3.48												
33-3-33.01	0.00	0.44	0.44														0.44										1	0.44	
33-4-23.01	0.00	0.87	0.87														0.87											0.87	
33-4-23.03	0.00	0.48	0.48														0.48											0.48	
34-4-1.00	0.00	1.52	1.52														1.52											1.52	
34-4-1.01	0.00	1.30	1.30														1.30											1.30	
34-4-15.00	0.00	5.39	5.39														5.39											5.39	
34-4-15.02	0.00	3.41	3.41														3.41											3.41	
35-3-7Anderson	0.00	0.42	0.42														0.42							250					
35-3-10.00	0.00	0.21	0.21				40										0.21										1	0.21	
35-3-28.01	2.72	4.09	1.37														1.37											1.37	
SUB-TOTAL			30.91				40										30.91			200				2,792			2.50	16.88	

ITEM 900

SIZE	GRADE
4 inch	A
3 inch	B
2 inch	C
1 1/2 inch	D

ITEM 1000

SIZE	GRADE
3 inch	A,F
2 inch	B,C,G
1 1/2 inch	D
1 inch	E

ITEM 1200

SIZE	GRADE
1 1/2inch	C,C-1
1 inch	D,F
3/4inch	E,E-1

ITEM 2100

C = CHIP
S = SCATTER

ALWAYS THINK SAFETY

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

**Indicate gradation.
***Splash Pads, Surfacing, Road Junctions.

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

MUSTY EVANS T.S.
ESTIMATE OF QUANTITIES*
MEDFORD OREGON

DRAWN: BGS	SCALE: NONE
DATE: MAY 2014	SHEET: 1 OF 2
DRAWING NO.	OR-117-TS13-03-C3

EXHIBIT C-3
SHEET 2 OF 2

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE SIZE					ELBOWS	DOWNSPOUT				RENOVATION	WD/AWD	CONST. WATER BAR	AGGREGATE**								SOIL STABILIZATION	ROADSIDE BRUSHING	EARTH / LOG BARRIER
					ROCK	COMMON	18"	24"	36"				FULL/HALF ROUND		RECT. FLUME					PITRUN	GRID ROLLED	SCREENED ROCK A	CRUSHED BASE C-1	CRUSHED SURFACE	GEOTEXTILES	SLOPE PROTECTION			
SPECIFICATION NO.				200	300	300	400	400	400	400	400	400	400	400	400	400	500			700	800	900	1000	1200	1300	1400	1800	2100	
UNIT	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	MILE	EA.	EA.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	S.F.	C.Y.	ACRE	MILE	
FS3229-200	0.00	0.35	0.35														0.35										1	0.35	
FS3231-600	0.00	4.00	4.00														4.00			15					250	25		4.00	
SUB-TOTAL			4.35														4.35			15					250	25	1	4.35	
TOTAL			**35.26**														**35.26**			**215**				2,792	**250**	**25**	**3.50**	**21.23**	

ITEM 900

SIZE	GRADE
4 inch	A
3 inch	B
2 inch	C
1 1/2 inch	D

ITEM 1000

SIZE	GRADE
3 inch	A,F
2 inch	B,C,G
1 1/2 inch	D
1 inch	E

ITEM 1200

SIZE	GRADE
1 1/2inch	C,C-1
1 inch	D,F
3/4inch	E,E-1

ITEM 2100

C = CHIP
S = SCATTER

ALWAYS THINK SAFETY

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

**Indicate gradation.
***Splash Pads, Surfacing, Road Junctions.

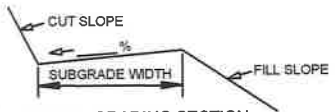
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD, OREGON

MUSTY EVANS T.S.
ESTIMATE OF QUANTITIES*
MEDFORD OREGON

DRAWN: BGS	SCALE: NONE
DATE: MAY 2014	SHEET: 2 OF 2
DRAWING NO.	OR-117-TS13-03-C3

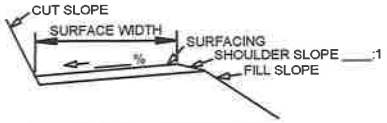
EXHIBIT C-4
SHEET 1 OF 1

ROAD NUMBER	STATION OR MILE POST	TO STATION OR MILE POST	LENGTH MILE OR STATION	TYPICAL SECTION TYPE	ALLIGNMENT	ROAD WIDTH (1-3)		GRADIENT		CLEARING WIDTH				SURFACING (4)								REMARKS
					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	MINIMUM WIDTH	COMP. DEPTH	TYPE (2)	GRADING	
32-3-31.04	0.00	0.30	0.30			12						4'-0"	4'-0"							D	0'-1 1/2"	Place 40cy at landing
33-2-7.00	0.00	0.42	0.42			12	3															
33-2-7.01	0.00	0.10	0.10			14	3															
33-2-7.02	0.00	1.60	1.60			17	3															
33-2-17.00	0.00	1.63	1.63			16	3															
33-3-3.00	3.40	6.00	2.60			16	3											14'-0"	0'-4"	D	0'-1 1/2"	
33-3-3.00	6.00	7.84	1.84			16	3															
33-3-4.00	0.00	0.61	0.61			16	3															
33-3-8.00	0.00	0.81	0.81			16	3															
33-3-12.01	0.00	0.52	0.52			16	3															
33-3-12.02	0.00	1.59	1.59			14	3					4'-0"	4'-0"									
33-3-30.01	0.00	3.48	3.48			14	3															
33-3-33.01	0.00	0.53	0.53			12	3					4'-0"	4'-0"									
33-4-23.01	0.00	0.87	0.87			14	3					4'-0"	4'-0"									
33-4-23.03	0.00	0.48	0.48			14	3					4'-0"	4'-0"									
34-4-1.00	0.00	1.52	1.52			14	3					4'-0"	4'-0"									
34-4-1.01	0.00	1.30	1.30			14	3					4'-0"	4'-0"									
34-4-15.00	0.00	5.39	5.39			16	3					4'-0"	4'-0"									
34-4-15.02	0.00	3.41	3.41			16	3					4'-0"	4'-0"									
35-3-7.00 Anderson	0.00	0.42	0.42			14						4'-0"	4'-0"					14'-0"	0'-3"	D	0'-1 1/2"	
35-3-10.00	0.00	0.21	0.21			16	3					4'-0"	4'-0"									
35-3-28.01	2.72	4.09	1.37			14	3					4'-0"	4'-0"									
FS3229-200	0.00	0.35	0.35			14	3					4'-0"	4'-0"									
FS3231-600	0.00	4.00	4.00			14	3															



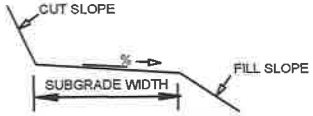
TYPICAL GRADING SECTION

TYPE 1



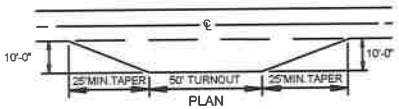
TYPICAL SURFACING SECTION

TYPE 2



TYPICAL GRADING SECTION

TYPE 3



PLAN
TYPICAL TURNOUT

NOTES

1. EXTRA SUBGRADE WIDTHS
ADD TO EACH FILL SHOULDER 1FT.FOR FILLS OF 1-6FT. & 2FT.FOR FILLS OVER 6FT. WIDEN THE INSIDE SHOLDER OF ALL CURVES AS FOLLOWS:
WHEN THE DEGREE OF CURVE EQUALS
7-21 ADD 1FT.
22-35 ADD 2FT.
36-48 ADD 3FT.
49-64 ADD 4FT.
65-96 ADD 5FT.

2. SURFACING TYPE
A. PIT RUN ROCK MATERIAL
B. GRID ROLLED ROCK MATERIAL
C. SCREENED ROCK MATERIAL
D. CRUSHED ROCK MATERIAL

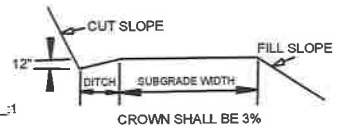
3. TURNOUTS
A. WIDTH 10FT. IN ADDITION TO SUBGRADE WIDTH,OR AS SHOWN ON THE PLANS.
B. LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS
C. INTERVISIBLE AND NOT MORE THAN _____FT. APART.

4. SURFACING
TURNOUTS, CURVE WIDENING AND ROAD APPROACH APRONS SHALL BE SURFACED.

5. CLEARING WIDTH
SEE SUBSECTION 2100

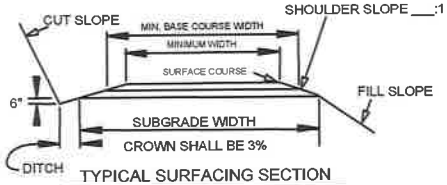
TYPICAL SURFACING SECTION

TYPE 4



TYPICAL GRADING SECTION

TYPE 5



TYPICAL SURFACING SECTION

TYPE 6

MATERIALS	CUT SLOPES	FILL SLOPES
COMMON	_____	1 1/2:1
SOFT ROCK & SHALE	1/2:1	_____
SOLID ROCK	1/2:1	ANGLE OF REPOSE

FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.

ALWAYS THINK SAFETY

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

MUSTY EVANS T.S.

SPECIFICATION SHEET

MEDFORD OREGON

DRAWN: BGS	SCALE: NONE
DATE: MAY 2014	SHEET: 1 OF 1
DRAWING NO.	OR-117-TS13-03-C4

MUSTY EVANS TIMBER SALE
Road Renovation and Improvement Work list

Renovation: This consists of road work to be performed on the road prior to its use. The work includes, but is not limited to, blading and rolling the road surface, ditching, cleaning, or enlarging catch basin, flushing corrugated metal pipes (CMP) and/or culverts, removing brush near inlet or outlet of pipe, cleaning outlet end of pipe, and removing brush, limbs, and trees along the roadway to improve sight distance. All drainage structures including culverts and water dips shall be inspected and required work performed so that water flow is not impeded, and brought to the design standard as shown on the plans.

ASC = Aggregate Surface Course
GRR = Grid Rolled Surface
CMP = Corrugated metal pipe
Jct. = Junction
TOL = Turn out left
NAT = Natural
BST = Bituminous Service Treatment
AWD = Armored water dip
C.Y. = Cu. Yds. = Cubic yards
TOR = Turn out right

Road 32-3-31.04 Cedar Mtn. Ridge Sp. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. w/ 33-3-3.00. **Begin Brushing. Begin Renovation.**
0.30	Construct Helicopter Landing. Seed and mulch newly exposed soils after use. Place 200cy of pitrun rock at landing. Pit run rock shall be obtained from a commercial source. **End Brushing. End Renovation.**

Road 33-2-7.00 Angel Camp Top ML. ASC
(Renovate)

MP	Remarks
0.00	Jct. 33-2-7.01. **Begin Renovation.**
0.08	Existing culvert, cross drain.
0.15	Existing culvert, cross drain.
0.21	Existing culvert, cross drain.
0.27	Existing culvert, cross drain.
0.32	Existing culvert, cross drain.
0.36	Existing culvert, cross drain.
0.42	Jct. 33-2-7.02 left; **End Renovation.**

Road 33-2-7.01 North Round Top ML. ASC
(Renovate)

MP	Remarks
0.00	Jct. 33-2-17.00. **Begin Renovation**
0.10	Jct. 33-2-7.00 right; **End Renovation**

Road 33-2-7.02 Angel Camp. ASC
(Renovate)

MP	Remarks
0.00	Jct. 33-2-7.00. **Begin Renovation.**
0.11	Existing culvert, cross drain.
0.19	Existing culvert, cross drain.

0.22	Existing culvert, cross drain.
0.27	Existing culvert, cross drain.
0.33	Existing culvert, cross drain.
0.39	Existing culvert, cross drain.
0.39	Existing culvert, cross drain.
0.42	Existing culvert, cross drain.
0.46	Existing culvert, cross drain.
0.48	Existing culvert, cross drain.
0.53	Existing culvert, cross drain.
0.57	Jct. PVT road right
0.64	Existing culvert, cross drain.
0.73	Existing culvert, cross drain.
0.85	Existing culvert, cross drain.
0.93	Existing culvert, cross drain.
1.05	Existing culvert, cross drain.
1.14	Existing culvert, cross drain.
1.29	Existing culvert, cross drain.
1.31	Jct. 33-2-7.04 left
1.43	Existing culvert, cross drain.
1.55	Existing culvert, cross drain w/ 10’ half round down spout
1.59	Jct. 33-2-7.05 left
1.60	Jct. 33-3-12.01 left/right; **End Renovation.**

Road 33-2-17.00 Angel Camp ML. ASC
(Renovate)

MP	**Remarks**
0.00	Jct. 33-2-33.00. **Begin Renovation**
0.13	Bridge E. Evans Crk.
0.15	Jct. 33-2-17.01 left
0.24	Rolling Water Dip – Existing
0.27	Squash Pipe
0.33	Jct. 33-2-17.02 right
0.35	Existing culvert, cross drain.
0.43	Existing culvert, cross drain.
0.49	Existing culvert, cross drain w/ 20’ full round down spout
0.52	Existing culvert, cross drain.
0.56	Existing culvert, cross drain w/ 10’ full round down spout
0.60	Existing culvert, cross drain.
0.66	Existing culvert, cross drain.
0.68	Existing culvert, cross drain w/ 20’ half round down spout
0.69	Jct. 33-2-17.03
0.73	Existing culvert, cross drain.
0.82	Existing culvert, cross drain.
0.89	Existing culvert, cross drain.
0.94	Existing culvert, cross drain.
0.98	Existing culvert, cross drain.
1.00	Jct. 33-2-18.00 left
1.02	Existing culvert, cross drain.

1.06	Existing culvert, cross drain.
1.11	Existing culvert, cross drain.
1.16	Existing culvert, cross drain.
1.21	Existing culvert, cross drain w/ 20' full round down spout
1.28	Existing culvert, cross drain.
1.36	Existing culvert, cross drain.
1.63	Jct. 33-2-7.1 right. **End Renovation.**

Road 33-3-3.00 (Skeleton Mountain) ASC.
(Renovate, Surface)

MP	Remarks
0.00	Jct. 33-3-34.01.
3.40	Jct. 33-3W-22.01 (left). **Begin Renovation. Begin Surfacing. Crushed rock for surfacing can be obtained from BLM stockpiles as shown on Exhibit C-2.**
3.46	Existing culvert, cross drain.
3.54	Existing culvert, cross drain.
3.62	Existing culvert, cross drain.
3.65	Existing culvert, cross drain.
3.71	Existing culvert, cross drain.
3.75	Existing culvert, cross drain.
3.79	Existing culvert, cross drain.
3.87	Existing culvert, cross drain.
3.91	Existing culvert, cross drain.
3.95	Jct. 33-3W-8.02 (left).
3.98	Existing culvert, cross drain.
4.03	Existing culvert, cross drain.
4.10	Existing culvert, cross drain.
4.16	Jct. 33-3-8.00
4.30	Existing culvert, cross drain.
4.39	Skeleton Mt. Pit/Stockpile
4.46	Existing culvert, cross drain.
4.53	Existing culvert, cross drain.
4.60	Existing culvert, cross drain.
4.67	Existing culvert, cross drain.
4.70	Existing culvert, draw
4.73	Existing culvert, cross drain.
4.75	Existing culvert, cross drain.
4.82	Existing culvert, cross drain.
4.90	Existing culvert, cross drain.
4.92	Jct. 33-3-8.01
4.98	Existing culvert, cross drain.
5.04	Existing culvert, cross drain, draw.
5.07	Existing culvert, cross drain.
5.13	Existing culvert, cross drain.
5.19	Existing culvert, cross drain.
5.23	Existing culvert, cross drain, draw.
5.39	Existing culvert, cross drain.
5.47	Existing culvert, cross drain.

5.53	Existing culvert, cross drain, draw.
5.57	Existing culvert, cross drain.
5.63	Existing culvert, cross drain.
5.67	Existing culvert, cross drain.
5.73	Existing culvert, cross drain.
5.79	Existing culvert, cross drain.
5.84	Existing culvert, cross drain.
5.90	Existing culvert, cross drain.
5.98	Existing culvert, cross drain.
6.00	Jct. 33-3-5.00 left **End Surfacing.**
6.05	Existing culvert, cross drain.
6.09	Existing culvert, cross drain.
6.14	Existing culvert, cross drain.
6.21	Existing culvert, cross drain.
6.27	Existing culvert, cross drain.
6.31	Existing culvert, cross drain.
6.35	Existing culvert, cross drain.
6.39	Existing culvert, cross drain.
6.42	Existing culvert, cross drain, draw.
6.56	Existing culvert, cross drain.
6.64	Existing culvert, cross drain.
6.72	Existing culvert, cross drain.
6.74	Existing culvert, cross drain.
6.88	Existing culvert, cross drain.
6.95	Existing culvert, cross drain.
7.05	Existing culvert, cross drain, draw.
7.18	Existing culvert, cross drain.
7.29	Existing culvert, cross drain.
7.31	Existing culvert, cross drain.
7.35	Existing culvert, cross drain.
7.48	Existing culvert, cross drain.
7.50	Jct. 33-3-31.04 left
7.60	Existing culvert, cross drain.
7.68	Existing culvert, cross drain.
7.72	Existing culvert, cross drain.
7.79	Existing culvert, cross drain.
7.84	Goolaway Gap Jct. 34-3-24.00 West Fork Evans. **End Renovation.**

Road 33-3W-4.00 Rockhead. ASC
(Renovate)

MP	Remarks
0.00	Jct. 33-3-8.00. **Begin Renovation.**
0.05	Existing culvert, cross drain.
0.14	Existing culvert, cross drain.
0.19	Jct. BLM road right
0.57	Existing culvert, cross drain.
0.61	Jct. FS road left. **End Renovation.**

Road 33-3W-8.00 Rockhead P. ASC
(Renovate)

MP	Remarks
0.00	Jct. 33-3-3.00. **Begin Renovation.**
0.31	Water Dip
0.37	Jct. 33-3-9.01 right
0.41	Water Dip
0.53	Existing culvert, cross drain.
0.81	Jct. 33-3-4.00 right, Existing culvert, cross drain. **End Renovation.**

Road 33-3-12.01 Ridge Top. ASC
(Renovate)

MP	Remarks
0.00	Jct. 33-2-7.02. **Begin Renovation.**
0.09	Existing culvert, cross drain.
0.25	Jct. 33-2-7.03 right
0.38	Existing culvert, cross drain. w/ half round down spout
0.52	Jct. 33-3-12.03 right and 33-3-12.02 right; **End Renovation.**

Road 33-3-12.02 Angel Ridge. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. 33-3-12.01. **Begin Brushing. Begin Renovation.**
0.10	Jct. 33-3-1.05 left & 33-3-1.00 right
0.15	Pump Chance left
0.16	Existing culvert, cross drain.
0.20	Existing culvert, cross drain.
0.41	Existing culvert, cross drain.
0.58	Existing culvert, cross drain.
0.68	Existing culvert, cross drain.
0.76	Existing culvert, cross drain.
0.83	Existing culvert, cross drain.
0.87	Existing culvert, cross drain.
0.92	Existing culvert, cross drain.
1.04	Jct. 33-3-1.08 left; Helicopter Landing
1.41	Existing culvert, cross drain.
1.59	Jct. FS900 right & FS3242 right; **End Brushing. End Renovation.**

Road 33-3W-30.01 Sand Divide. ASC
(Renovate)

MP	Remarks
0.00	Jct. 34-3W-24.00. **Begin Renovation.**
0.06	Existing culvert, cross drain.
0.11	Existing culvert, cross drain.
0.16	Existing culvert, cross drain.
0.21	Existing culvert, cross drain.

0.26	Existing culvert, cross drain.
0.31	Existing culvert, cross drain, draw.
0.38	Existing culvert, cross drain.
0.44	Existing culvert, cross drain.
0.50	Existing culvert, cross drain.
0.55	Existing culvert, cross drain w/ half round down spout, draw.
0.61	Existing culvert, cross drain.
0.69	Existing culvert, cross drain.
0.74	Existing culvert, cross drain.
0.78	Existing culvert, cross drain.
0.85	Existing culvert, cross drain.
0.91	Existing culvert, cross drain.
1.12	Existing culvert, cross drain.
1.26	Existing culvert, cross drain w/ full round down spout.
1.32	Existing culvert, cross drain.
1.34	Jct. jeep road, (left).
1.39	Existing culvert, cross drain.
1.44	Existing culvert, cross drain.
1.51	Jct. decommissioned spur (left).
1.66	Existing culvert, cross drain.
1.73	Jct. 33-3W-19.10, (right).
1.77	Jct. 33-3W-19.07, (right).
1.82	Jct. 33-3W-18.03, (left).
1.88	Existing culvert, cross drain.
1.96	Existing culvert, cross drain.
2.00	Existing culvert, cross drain.
2.01	old stockpile site.
2.06	Existing culvert, cross drain.
2.16	Existing culvert, cross drain, draw.
2.24	Existing culvert, cross drain.
2.29	Existing culvert, cross drain.
2.35	Jct. 33-3W-17.02, (left), Existing culvert, cross drain.
2.40	Existing culvert, cross drain.
2.45	Jct. 33-3W-17.00, (right), Existing culvert, cross drain.
2.50	Existing culvert, cross drain.
2.56	Existing culvert, cross drain.
2.64	Jct. 33-3W-17.01, (left).
2.73	Existing culvert, cross drain.
2.80	Existing culvert, cross drain, draw.
2.88	Existing culvert, cross drain.
2.93	Existing culvert(s), cross drain, draw.
3.03	Existing culvert, cross drain, draw.
3.10	Existing culvert, cross drain.
3.14	Existing culvert, cross drain.
3.18	Existing culvert, cross drain.
3.22	Existing culvert, cross drain, draw.
3.24	Existing culvert, cross drain.
3.27	Existing culvert, cross drain.

3.35	Existing culvert, cross drain.
3.46	Existing culvert, cross drain.
3.48	Jct. 33-3W-17.03, (left). **End Renovation.**

33-3-33.01. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. 34-3-24.00. **Begin Brushing. Begin Renovation.**
0.23	Existing culvert, cross drain.
0.31	Existing culvert, cross drain.
0.40	Existing culvert, cross drain.
0.44	Construct Helicopter Landing. Rip, seed and mulch after use. **End Brushing. End Renovation.**

33-4-23.01. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. 34-4-15.00. **Begin Brushing. Begin Renovation.**
0.14	Existing culvert, cross drain.
0.16	Jct. left
0.20	Existing culvert, cross drain.
0.25	Existing culvert, cross drain.
0.30	Existing culvert, cross drain.
0.36	Existing culvert, cross drain.
0.43	Existing culvert, cross drain.
0.53	Existing culvert, cross drain.
0.63	Existing culvert, cross drain.
0.78	Existing culvert, cross drain.
0.87	Jct. 33-4-23.03 right. **End Brushing. End Renovation.**

33-4-23.03. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. 33-4-23.01. **Begin Brushing. Begin Renovation.**
0.06	Existing culvert, cross drain.
0.13	Existing culvert, cross drain.
0.17	Jct. un-numbered road, left.
0.48	EOR. **End Brushing. End Renovation.**

34-4W-1.00 Battle Mt. Top Spur. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. 34-4-15.02, Existing culvert, ditch relief. **Begin Brushing. Begin Renovation.**
0.06	Existing culvert, cross drain, draw.
0.18	Existing culvert, cross drain.
0.27	Existing culvert, cross drain.
0.32	Existing culvert, cross drain.
0.38	Existing culvert, cross drain.

0.49	Existing culvert, cross drain, draw.
0.57	Existing culvert, cross drain.
0.67	Existing culvert, cross drain.
0.80	Existing culvert, cross drain, draw.
0.86	Existing culvert, cross drain.
0.92	Existing culvert, cross drain, 30" draw.
1.00	Existing culvert, cross drain.
1.10	Existing culvert, cross drain.
1.16	Existing culvert, cross drain, draw
1.27	Existing culvert, cross drain.
1.34	Existing culvert, cross drain.
1.40	Existing culvert, cross drain.
1.52	Jct. 34-4-1.01 left. EOP. **End Brushing. End Renovation.**

34-4W-1.01 Battle Mt. Top Spur. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. 34-4W-1.00. **Begin Brushing. Begin Renovation.**
0.05	Existing culvert, cross drain.
0.12	Existing culvert, cross drain.
0.19	Existing culvert, cross drain.
0.25	Existing culvert, cross drain.
0.33	Existing culvert, cross drain.
0.39	Existing culvert, cross drain.
0.46	Existing culvert, cross drain.
0.55	Existing culvert, cross drain.
0.63	Existing culvert, cross drain.
0.79	Jct. Rd. Left – unnumbered.
0.81	Existing culvert, cross drain.
1.30	Existing landing / stockpile site. **End Brushing. End Renovation.**

34-4W-15.00 Pleasant Creek. ASC
(Brush, Renovate)

Note: End of the pavement to the bridge MP 0.49 is county maintenance.

MP	Remarks
0.00	End county maint. Begin BLM maint. Existing bridge. **Begin Brushing. Begin Renovation.**
0.02	Jct. pump chance spur (left).
0.03	Jct. jeep road (left).
0.11	Existing culvert, cross drain, draw.
0.21	Existing culvert, cross drain.
0.23	Jct. 34-4W-10.00 (Jamison) (left).
0.24	Existing culvert, cross drain.
0.31	Existing culvert, cross drain, draw.
0.41	Existing culvert, cross drain, draw.
0.44	Existing culvert, cross drain, draw.
0.54	Existing culvert, cross drain.

0.72	Jct. jeep road (left).
0.76	Existing culvert, cross drain, draw.
0.86	Existing culvert, cross drain, draw.
1.05	Existing culvert, cross drain.
1.10	Existing culvert, cross drain.
1.05	Existing culvert, cross drain.
1.06	Jct. unnumbered spur (right). Mining claim.
1.12	Existing culvert, cross drain.
1.14	Jct. jeep road, barricaded.
1.17	Existing culvert, cross drain, draw.
1.19	Existing culvert, cross drain, draw.
1.21	Jct. jeep road (left).
1.24	Existing culvert, cross drain, draw.
1.30	Install 24”x30’ CMP.
1.33	Existing culvert, cross drain.
1.41	Existing culvert, cross drain, draw.
1.47	Existing culvert, cross drain.
1.50	Jct. unnumbered spur, (right).
1.58	Existing culvert, cross drain.
1.65	Existing culvert, cross drain, draw.
1.75	Existing culvert, cross drain, draw.
1.79	Existing culvert, cross drain.
1.82	Existing culvert, cross drain.
1.84	Existing culvert, cross drain.
1.87	Jct. 34-4W-2.03 (left).
1.89	Existing culvert, cross drain.
2.01	Existing culvert, cross drain.
2.10	Existing culvert, cross drain, draw.
2.15	Jct. unnumbered spur (right).
2.18	Existing culvert, cross drain, draw.
2.21	Existing culvert, cross drain.
2.30	Existing culvert, cross drain.
2.37	Existing culvert, cross drain, draw.
2.38	Old pit site (left).
2.56	Jct. unnumbered spur (left).
2.57	Existing culvert, cross drain, draw.
2.76	Existing culvert, cross drain.
2.96	Existing culvert, cross drain.
3.04	Existing culvert, cross drain.
3.09	Existing culvert, cross drain, draw.
3.15	Existing culvert, cross drain, draw.
3.19	Existing culvert, cross drain.
3.30	Existing culvert, cross drain, draw.
3.46	Existing culvert (stream).
3.49	Existing K-tag (left).
3.61	Existing culvert, cross drain.
3.68	Existing culvert, cross drain.
3.74	Jct.33-4W-26.00 (right).

3.75	Existing culvert, cross drain.
3.76	Jct. unnumbered spur (left).
3.87	Old pit site (left).
3.88	Jct. 33-4W-26.01 (right). Existing culvert (cross drain).
3.95	Existing culvert, cross drain, draw.
4.08	Existing culvert, cross drain.
4.24	Existing culvert, cross drain, draw.
4.33	Existing culvert (stream).
4.37	Jct. 33-4W-26.02 (left).
4.38	Existing culvert, cross drain, draw.
4.61	Existing culvert, cross drain.
4.57	Existing culvert, cross drain.
4.64	Existing culvert(s), cross drain, draw.
4.79	Existing culvert, cross drain, draw.
4.86	Existing culvert, cross drain, draw.
4.87	Existing culvert (stream).
4.92	Existing culvert, cross drain.
5.01	Old pit site (left).
5.03	Existing culvert, cross drain, draw.
5.19	Existing culvert, cross drain, draw.
5.21	Existing culvert, cross drain, draw.
5.39	Jct. 33-4W-23.01 (left). **End Brushing. End Renovation.**

34-4W-15.02 Right Fork Pleasant Creek. ASC
(Brush, Renovate)

MP	Remarks
0.00	Jct. County Road (Pleasant Creek 781). **Begin Brushing. Begin Renovation.**
0.05	Existing culvert, cross drain.
0.07	Existing culvert, cross drain, draw.
0.12	Existing culvert, cross drain, draw.
0.21	Existing culvert, cross drain.
0.27	Existing culvert, cross drain.
0.37	Existing culvert, cross drain, draw.
0.39	Existing culvert, cross drain, draw.
0.49	Existing culvert, cross drain.
0.56	Existing culvert, cross drain, draw.
0.61	Existing culvert, cross drain, draw.
0.77	Existing culvert, cross drain.
0.92	Existing culvert, cross drain.
0.95	Jct. Rd. Right – 34-4-10.01
1.09	Existing 30” culvert. Live stream.
1.13	Quarry.
1.25	Existing culvert, cross drain.
1.35	Existing culvert, cross drain.
1.40	Existing 30” culvert. Live stream.
1.45	Existing culvert, cross drain, draw.
1.51	Existing culvert, cross drain. Jct Rd. Left – 34-4-11.01.
1.65	Existing culvert, cross drain.

1.67	Jct. Rd. Left – unnumbered.
1.73	Existing culvert, cross drain, draw.
1.85	Existing culvert, cross drain.
1.95	Existing culvert, cross drain.
2.08	Existing culvert, cross drain, draw.
2.17	Existing culvert, cross drain, draw.
2.21	Existing culvert, cross drain, draw.
2.29	Existing 48” culvert. Live stream.
2.33	Quarry.
2.35	Existing culvert, cross drain.
2.42	Existing culvert, cross drain.
2.47	Existing culvert, cross drain.
2.50	Existing culvert, cross drain.
2.54	Jct. Rd. Left – unnumbered.
2.70	Existing culvert, cross drain.
2.91	Existing culvert, cross drain, draw.
2.93	Jct. Rd. - 34-4-2.01
2.98	Existing culvert, cross drain.
3.05	Existing culvert, cross drain, draw.
3.16	Existing culvert, cross drain.
3.29	Existing culvert, cross drain.
3.37	Existing culvert, cross drain, draw w/ 20’ DS.
3.41	Jct. Rd. 34-4W-1.00. **End Brushing. End Renovation.**

Road 35-3-10.00. NAT
(Brush, Renovate)

MP	**Remarks**
0.00	Jct. 35-3-28.01. **Begin Brushing. End Renovation.**
0.03	Place 18” x 40’ CMP; remove after Haul.
0.21	Construct Helicopter Landing. Rip, seed and mulch after use. **End Brushing. End Renovation.**

Road 35-3-28.1 Rt. Fork Sardine Crk. ASC
(Brush, Renovate)

MP	**Remarks**
2.72	Road junction (right) w/ 35-3-15.5. **Begin Brushing. Begin Renovation.**
2.77	Existing BLM gate.
2.85	Existing culvert, cross drain.
2.94	Existing culvert, cross drain w/ 10’ DS/HR.
3.07	Existing culvert, cross drain.
3.17	Existing culvert, cross drain.
3.26	Existing culvert, cross drain.
3.30	Existing property line (Section 15 & Section 10).
3.50	Existing culvert, cross drain.
3.56	Existing culvert, cross drain, draw.
3.58	Jct. 35-3-10.01
3.64	Existing culvert, cross drain.
3.72	Existing culvert, cross drain.

3.80	Existing culvert, cross drain, draw.
3.85	Existing culvert, cross drain.
3.88	Existing culvert, cross drain, draw.
3.98	Existing culvert, cross drain.
4.04	Existing culvert, cross drain.
4.09	Jct. 35-3-10.00 left. **End Brushing. End Renovation.**

FS 3229-200 ASC
(Brush, Renovate)

MP	**Remarks**
0.00	Jct. 33-3-4.00. **Begin Brushing. Begin Renovation.**
0.01	Existing culvert, cross drain, w/ riser.
0.04	Existing culvert, cross drain, w/ riser.
0.08	Existing culvert, cross drain, w/ riser.
0.12	Existing culvert, cross drain, w/ riser.
0.24	Existing culvert, cross drain, w/ riser.
0.33	Existing culvert, cross drain.
0.35	Construct Helicopter Landing. Rip, seed and mulch after use. **End Brushing. End Renovation.**

FS 3231-600 ASC
(Brush, Renovate, Repair Fill Failure)

MP	**Remarks**
0.00	Jct. Goolaway Gap. **Begin Brushing. Begin Renovation.**
0.07	Existing culvert, cross drain.
0.13	Existing culvert, cross drain.
0.18	Existing culvert, cross drain, draw.
0.21	Remove Log.
0.25	Existing culvert, cross drain.
0.33	Existing culvert, cross drain.
0.40	Existing culvert, cross drain.
0.43	Jct. Barricaded Rd. right.
0.46	Existing culvert, cross drain.
0.52	Existing culvert, cross drain, draw.
0.65	Existing culvert, cross drain, draw.
0.70	Existing culvert, cross drain.
0.75	Existing culvert, cross drain, draw.
0.80	Existing culvert, cross drain, draw.
0.84	Existing culvert, cross drain.
0.90	Existing culvert, cross drain, draw.
0.92	Existing culvert, cross drain.
0.97	Existing culvert, cross drain.
1.03	Existing culvert, cross drain, draw.
1.08	Existing culvert, cross drain.
1.14	Existing culvert, cross drain, draw.
1.21	Existing culvert, cross drain, draw.
1.24	Existing culvert, cross drain, draw.
1.29	Existing culvert, cross drain, draw.

1.34	Existing culvert, cross drain.
1.38	Jct. FS Rd. left.
1.44	Existing culvert, cross drain.
1.53	Existing culvert, cross drain.
1.60	Existing culvert, cross drain.
1.67	Existing culvert, cross drain.
1.74	Existing culvert, cross drain.
1.82	Existing culvert, cross drain.
1.86	Existing culvert, cross drain, draw.
1.90	Existing culvert, cross drain.
1.94	Existing culvert, cross drain.
1.97	Existing culvert, cross drain, draw.
2.05	Existing culvert, cross drain.
2.08	Existing culvert, cross drain.
2.20	Existing culvert, cross drain, draw.
2.29	Existing culvert, cross drain, draw.
2.39	Existing culvert, cross drain.
2.40	Jct. FS Tie Rd. right.
2.42	Existing culvert, cross drain w/ riser.
2.45	Existing culvert, cross drain.
2.52	Existing culvert, cross drain, draw.
2.56	Existing culvert, cross drain, draw.
2.63	Fill Failure: Place 25cy of class 3 riprap material. Install 50’ x 5’ of Geotextile fabric in ditch line. Place 15cy pit run in ditch line for 50’ over Geotextile fabric where staked. See Exhibit C9 for detail and cross section drawing. Pit run and class 3 rip rap for this site can be obtained from the BLM Section 1 pit located on Exhibit C-2.
2.76	Existing culvert, cross drain.
2.84	Existing culvert, cross drain, draw w/ riser.
2.87	Existing culvert, cross drain, draw w/ riser.
2.94	Existing culvert, cross drain.
3.00	Existing culvert, cross drain.
3.04	Existing culvert, cross drain.
3.16	Existing culvert, cross drain.
3.22	Existing culvert, cross drain.
3.30	Existing culvert, cross drain, draw.
3.36	Existing culvert, cross drain.
3.45	Existing culvert, cross drain, draw.
3.58	Existing culvert, cross drain.
3.65	Existing culvert, cross drain.
3.75	Existing culvert, cross drain.
3.80	Existing culvert, cross drain.
3.87	Existing culvert, cross drain.
4.00	**End Brushing. End Renovation.**

Anderson Rd. ASC
(Renovate, Spot Rock)

MP	Remarks
0.00	Jct. 35-3-7.00. **Begin Renovation. Place 250cy of crushed rock on haul route per landowners designation. Crushed rock can be obtained from BLM stockpile located at M.P. 0.90 on BLM Road #34-3-24.00.**
0.42	Construct Helicopter Landing. Rip after use. **End Renovation.**

EXHIBIT C 6
SHEET 1 OF 1

CULVERT LOCATIONS										DOWNSPOUTS						TYPE OF ELBOW*	REMARKS
DESIGNED						AS BUILT				1/2 ROUND		FULL ROUND		RECT. FLUME			
ROAD NO.	STATION OR M.P.	SIZE	GAGE	LENGTH	SKEW ANGLE	STATION OR M.P.	SIZE	GAGE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
35-3-10.00	0.03	18	16	40													
	TOTAL 18" CMP: 40'																
	TOTAL 24" CMP:																
	TOTAL 36" CMP:																

NOTES:

A. Designed culvert lengths and locations are approximate. Actual lengths and locations will be staked in the field.
B. Summary of quantities are shown on drawing OR-117-TS13-03-C2
C. All downpipes are 16 guage unless otherwise noted.

ELBOW TYPES:*

1. Conventional or fabricated
2. Turner type
3. Slip joint

ALWAYS THINK SAFETY

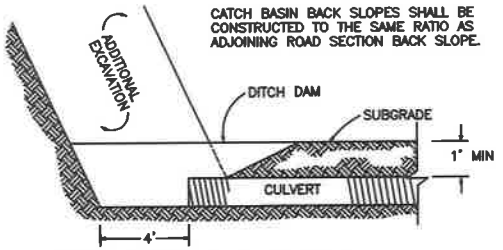
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT – MEDFORD, OREGON

MUSTY EVANS T.S.

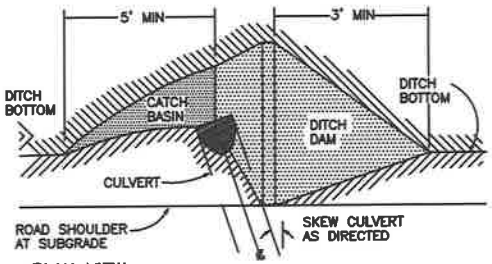
MEDFORD CULVERT LIST OREGON

DRAWN: BGS	SCALE: AS SHOWN
DATE: MAY 2014	SHEET: 1 OF 1
DRAWING NO. OR-117-TS13-03-C6	

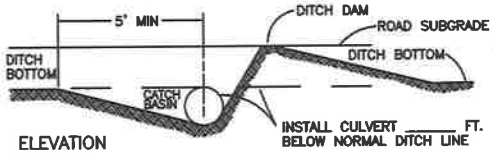
EXHIBIT C _7_
SHEET _1_ OF _1_



CROSS SECTION AT CATCH BASIN

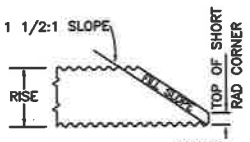


PLAN VIEW



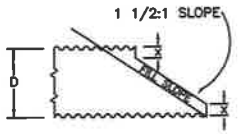
ELEVATION

CATCH BASIN



STEP BEVEL WHEN RISE EQUALS 40" OR LARGER

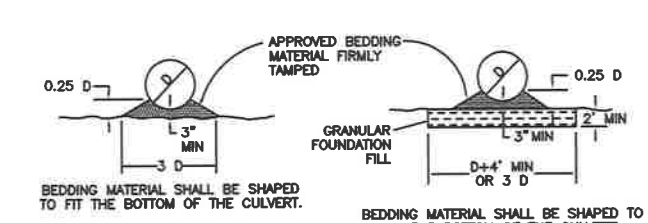
PIPE ARCH



STEP BEVEL WHEN DIA. EQUALS 48" OR LARGER X=1/4 D OR MFR. STD.

ROUND PIPE

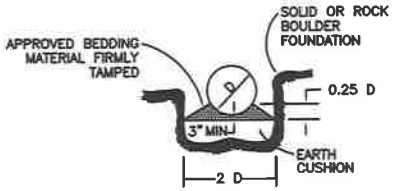
BEVELED END DETAIL



BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR COMPACTED EMBANKMENT

BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

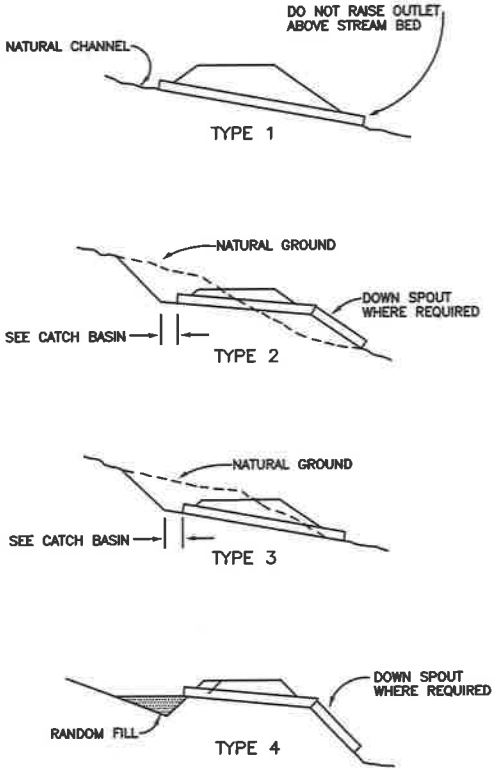
BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION



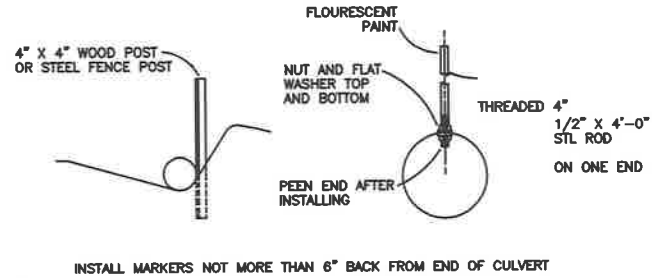
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAINTAIN 8" MIN. DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION

BEDDING OF CULVERTS

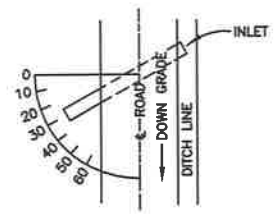


CULVERT INSTALLATION TYPES



INSTALL MARKERS NOT MORE THAN 6" BACK FROM END OF CULVERT

CULVERT MARKER INSTALLATION



THE GRADE OF CROSSDRAINS SHALL BE AT LEAST 2% GREATER THAN THE GRADE OF THE DITCH.

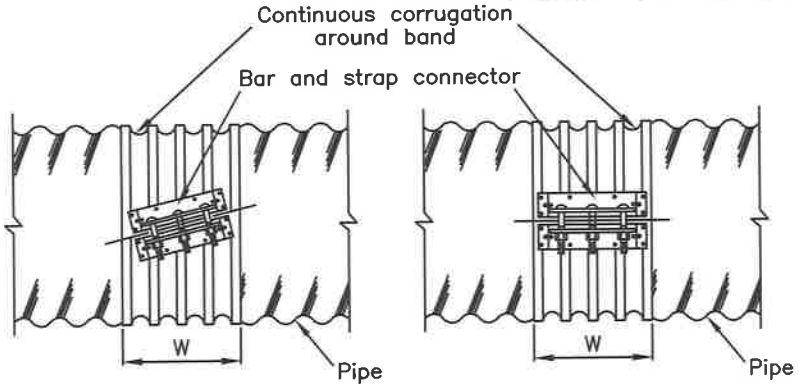
SKEW DIAGRAM

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

MUSTY EVANS T.S. CULVERT INSTALLATION DETAILS

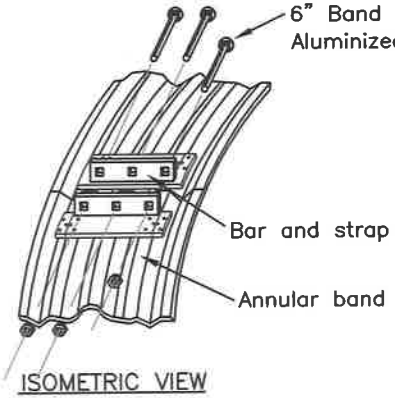
DRAWN:	BGS	SCALE:	NONE
DATE:	MAY 2014	SHEET:	1 OF 1
DRAWING NO.		OR-117-TS13-03-C7	

FULL CORRUGATED BAND (ALUMINIZED)

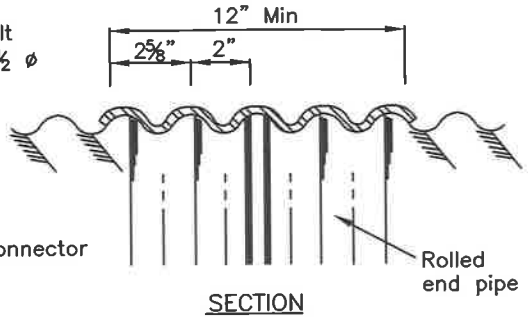


HELICAL COUPLING

ANNULAR COUPLING



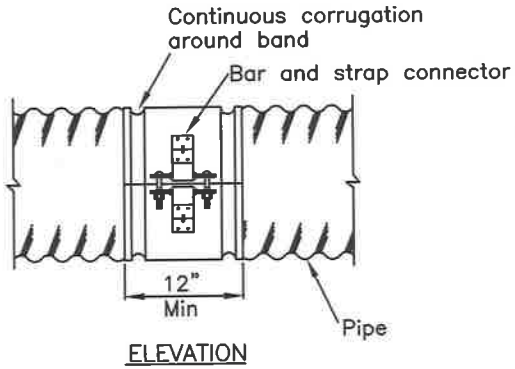
ISOMETRIC VIEW



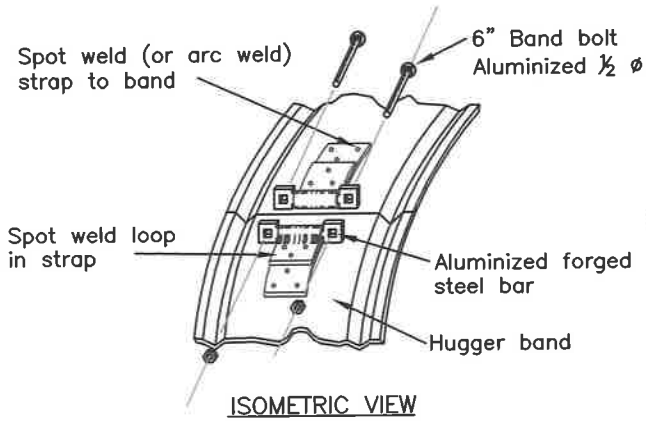
SECTION

2⅔"x½" CORRUGATIONS				3"x1" CORRUGATIONS			
PIPE DIAMETER (in)	W(in)		# of ½" Bolts	PIPE DIAMETER (in)	W(in)		# of ½" Bolts
	ANN.	HEL.			ANN.	HEL.	
6–10	7	7	2	36–84	14	14	3
12–15	7	12	2–3	36–120	26	26	5
18–84	12	12	3				
24–84	24	24	5				

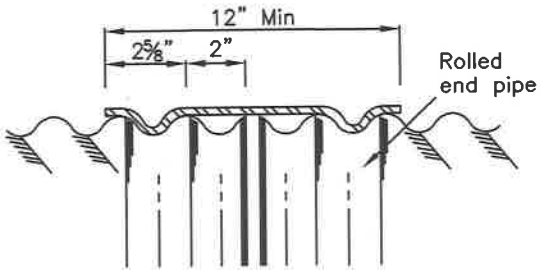
"HUGGER" BAND



ELEVATION



ISOMETRIC VIEW



SECTION

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 use of a bar and strap suitably welded to the band. The band shall engage and mesh with the second annuler corrugation 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.

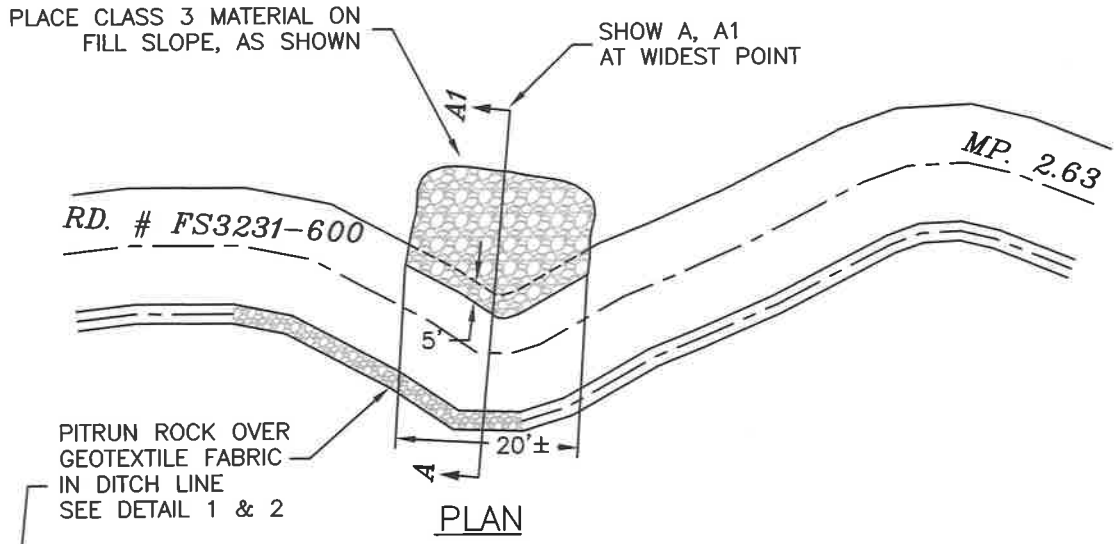
REV. NO.	DESCRIPTION	DATE	APPROV.

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

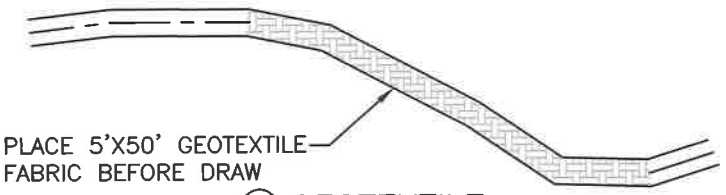
MUSTY EVANS T.S.
CULVERT BAND DETAIL

DRAWN: BGS	SCALE: NONE
DATE: APRIL 2014	SHEET: 1 OF 1
DRAWING NO.	ORM05–TS–2013–0005–C8

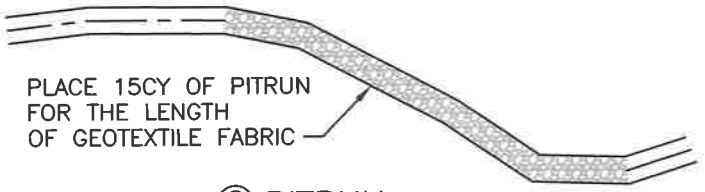
EXHIBIT C 9
SHEET 1 OF 1



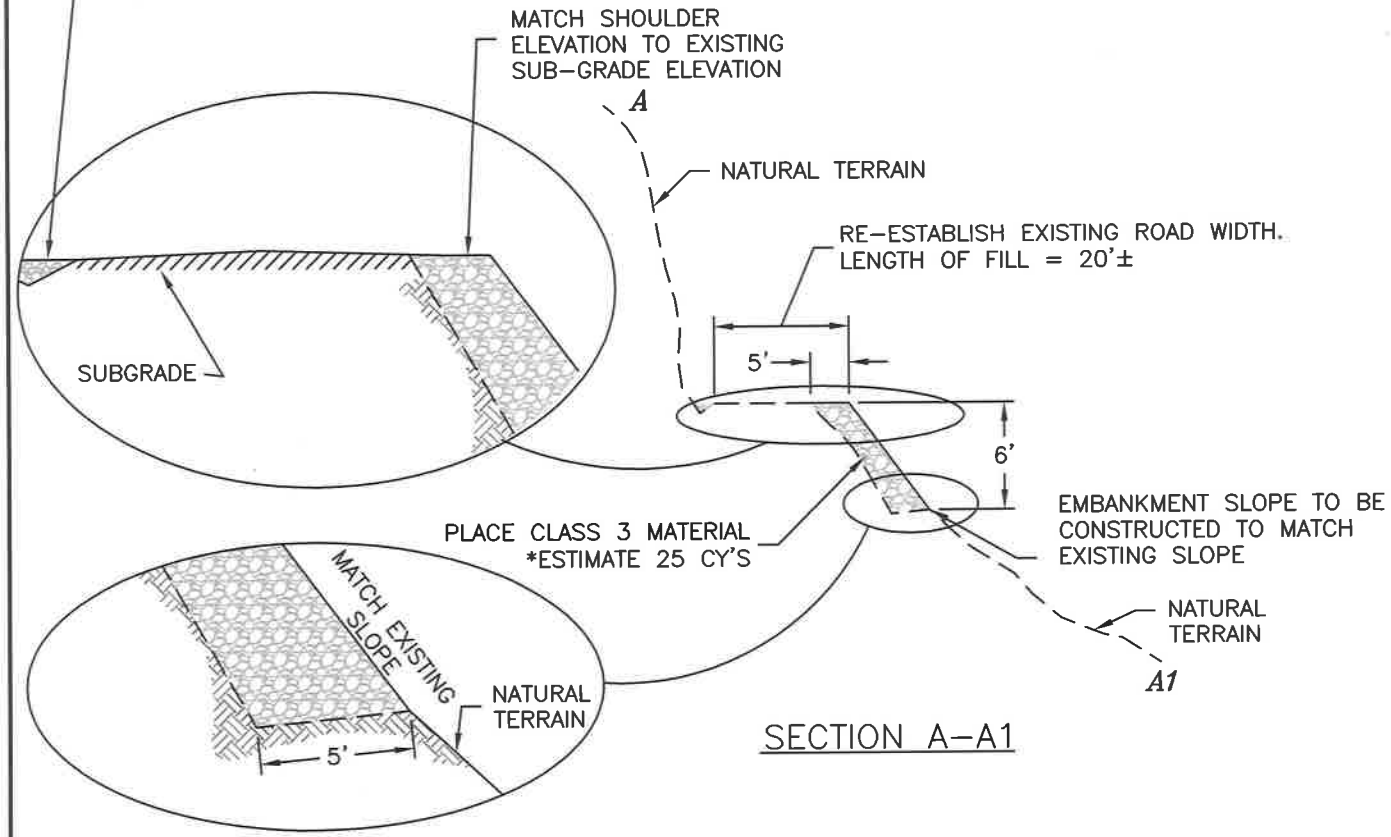
PLAN



① GEOTEXTILE



② PITRUN



SECTION A-A1

* ESTIMATED QUANITITY

ALWAYS THINK SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.

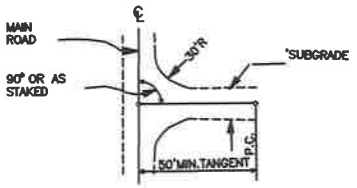
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT – MEDFORD, OREGON

MUSTY EVANS T.S. FILL REPAIR SECTION

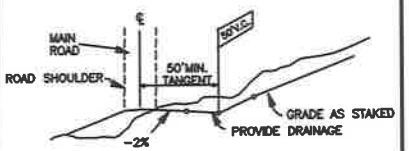
DRAWN: BGS	SCALE: NONE
DATE: MAY 2014	SHEET: 1 OF 1
DRAWING NO.	ORM05-TS-2013-0005-C9

EXHIBIT C 10
SHEET 1 OF 1

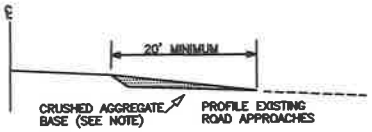
TYPICAL ROAD APPROACHES



PLAN

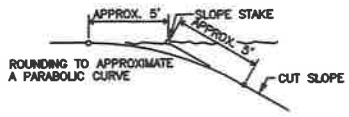


PROFILE

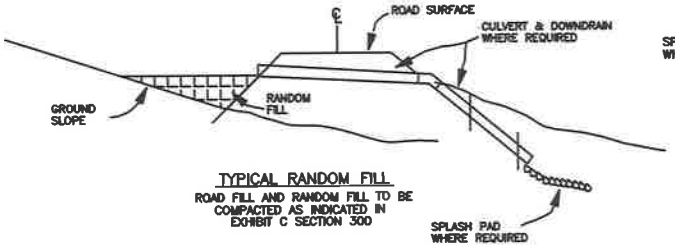


TYPICAL SURFACING SECTION

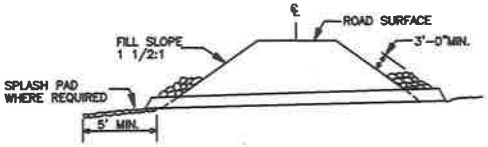
NOTES:
1. THE PROFILE OF EXISTING APPROACH ROADS SHALL BE TAPERED TO MEET THE SHOULDER LINE OF THE MAIN ROADWAY AND SHALL RECEIVE THE SAME WEARING SURFACE.
2. THE CRUSHED AGGREGATE BASE SHALL BE OF THE SAME GRADATION AS USED IN THE ADJACENT ROADBED.
3. APPROACHES SHALL BE FINISHED WITH THE SAME TREATMENT AS SHOWN FOR THE ADJACENT ROADBED.



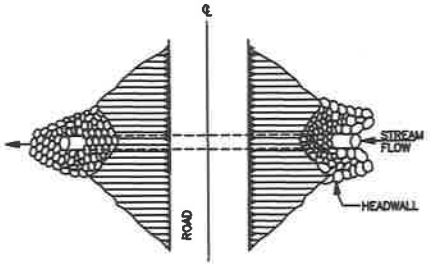
CUT SLOPE ROUNDING



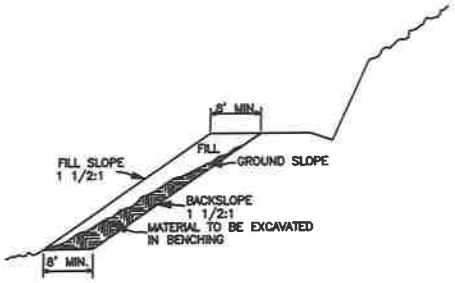
TYPICAL RANDOM FILL
ROAD FILL AND RANDOM FILL TO BE COMPACTED AS INDICATED IN EXHIBIT C SECTION 300



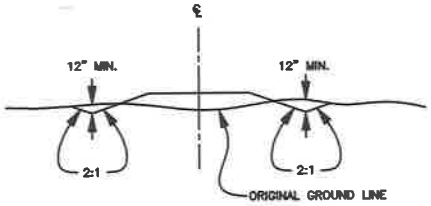
CROSS SECTION



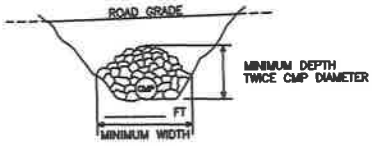
PLAN



SPECIAL COMPACTION
TYPICAL BENCHING SECTION



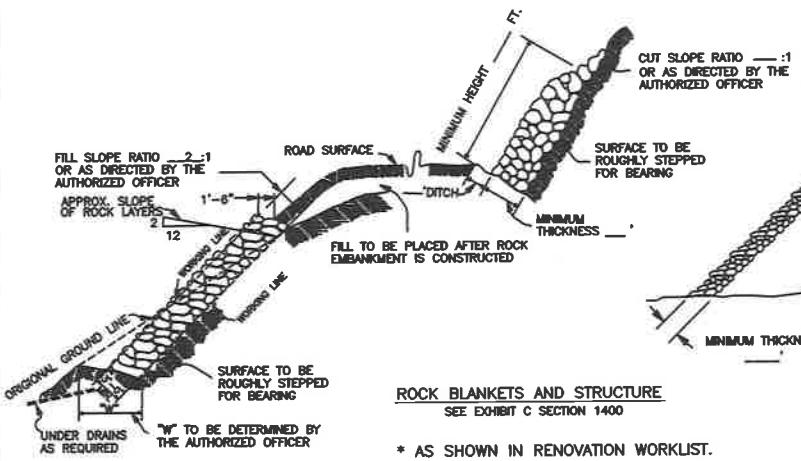
TYPICAL ROAD SECTION
FOR TURNPIKE CONSTRUCTION



ELEVATION

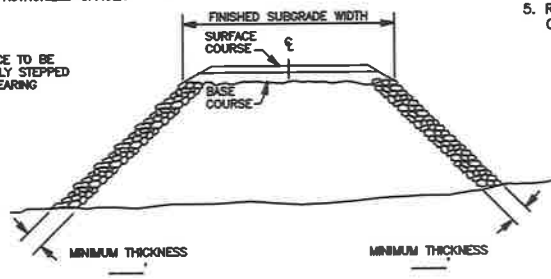
NOTES: RIPRAP AT CULVERTS

1. RIPRAP SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT DAMAGE THE CULVERT.
2. TRENCHING WILL BE DONE AS REQUIRED BY THE AUTHORIZED OFFICER.
3. MINIMUM DEPTH OF SPLASH PADS SHALL BE ___1___ FT
4. MINIMUM QUANTITY IS STATED IN WORKLIST.
5. RIPRAP SHALL BE PLACED BEFORE OCTOBER FIRST OF THE YEAR THE CMP IS INSTALLED.



ROCK BLANKETS AND STRUCTURE
SEE EXHIBIT C SECTION 1400

* AS SHOWN IN RENOVATION WORKLIST.



SLOPE PROTECTION ROCK
SEE EXHIBIT C SECTION 1400

ALWAYS THINK SAFETY

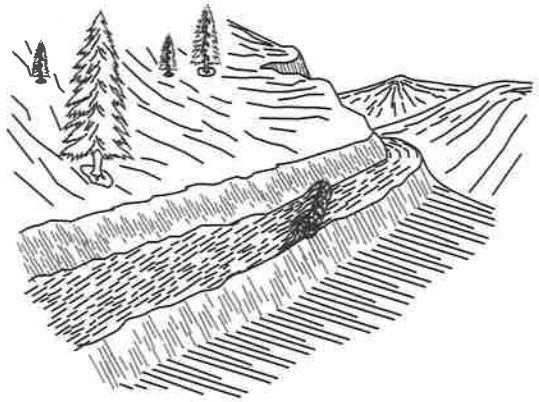
REV. NO.	DESCRIPTION	DATE	APPROV.

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

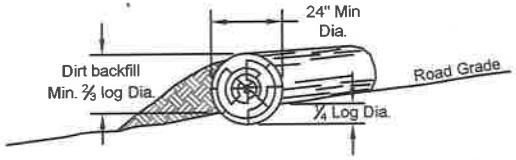
MUSTY EVANS T.S.
TYPICAL ROAD DATA

DRAWN: BGS	SCALE: NONE
DATE: APRIL 2014	SHEET: 1 OF 1
DRAWING NO. ORM05-TS-2013-0005-C10	

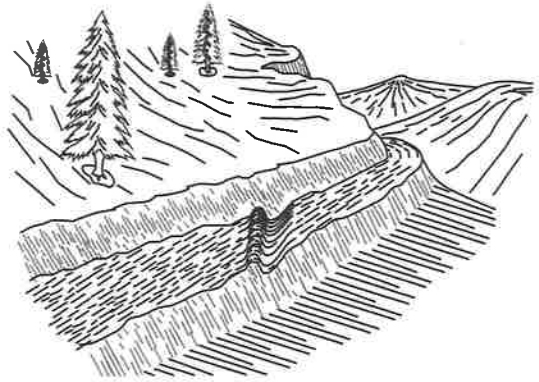
EXHIBIT C 11
SHEET 1 OF 1



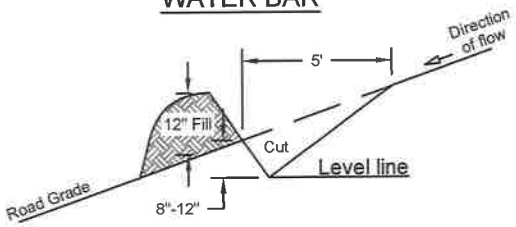
LOG BARRICADE



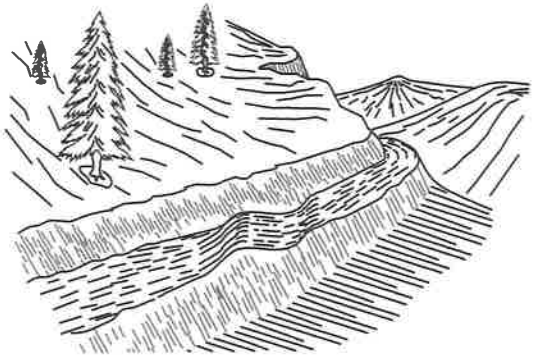
1. Log barricade shall be constructed as shown above.
2. Exact location will be flagged by the authorized officer prior to construction.
3. All barricades shall be skewed 30 degrees.
4. The length shall be sufficient to extend from the cut bank to the fill slope.
5. The minimum small end diameter of the log barricade shall be 24".



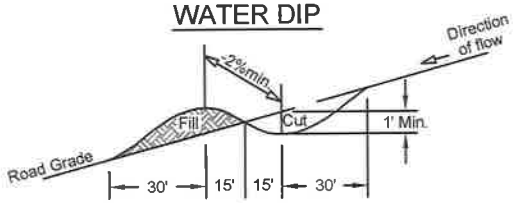
WATER BAR



1. Water bars shall be constructed as shown above.
2. Exact location will be flagged by the Authorized Officer prior to construction.
3. All water bars shall be skewed 30 degrees.
4. Upon completion of skidding logs, for the logging season, each skid road will have cross drainage constructed as shown above.

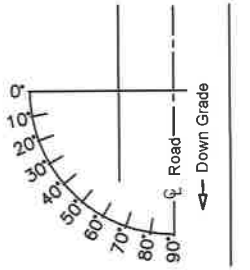


WATER DIP



1. Water dips shall be constructed as shown above.
2. Exact location will be flagged by the Authorized Officer prior to construction.
3. All water dips shall be skewed 30 degrees.
4. The length shall be sufficient to extend from the cut bank to the fill slope and be readily crossed by passenger type vehicles.
5. Rock outlet of water dip on fill slope. Rock will be placed from outlet to natural ground a minimum of 6 LF wide by 10 LF long by 1 FT depth.

SKEW DIAGRAM



WATER DIP/BAR SPACING*

ROAD GRADE	EROSION POTENTIAL		
	HIGH	MODERATE	LOW
%	FEET*		
2-5	200	300	400
6-10	150	200	300
11-15	100	150	200
16-20	75	100	150
21-35	50	75	100
36+	50	50	50

* Distances are maximum.

ALWAYS THINK SAFETY

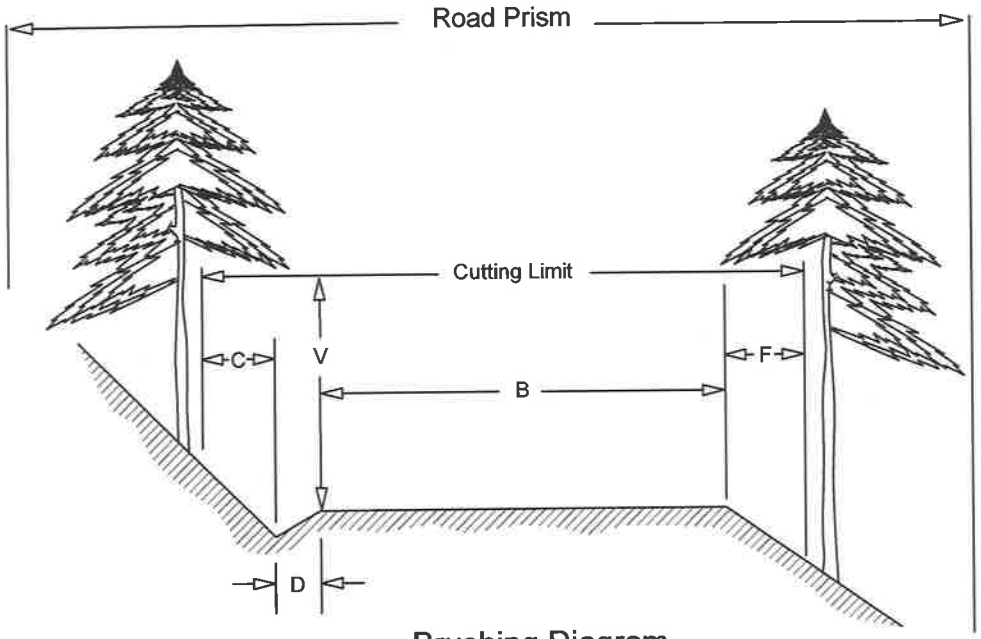
REV. NO.	DESCRIPTION	DATE	APPROV.

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

MUSTY EVANS T.S. DRAINAGE & EROSION CONTROL INSTALLATION

DRAWN: BGS	SCALE: NONE
DATE: MAY 2014	SHEET: 1 OF 1
DRAWING NO. ORM05-TS-2013-0005-C11	

EXHIBIT C 12
SHEET 1 OF 1



Brushing Diagram

Cutting Limit = C + D + B + F

B = Road Bed Subgrade (includes turnouts)
Cut all vegetation to max. height of 1".

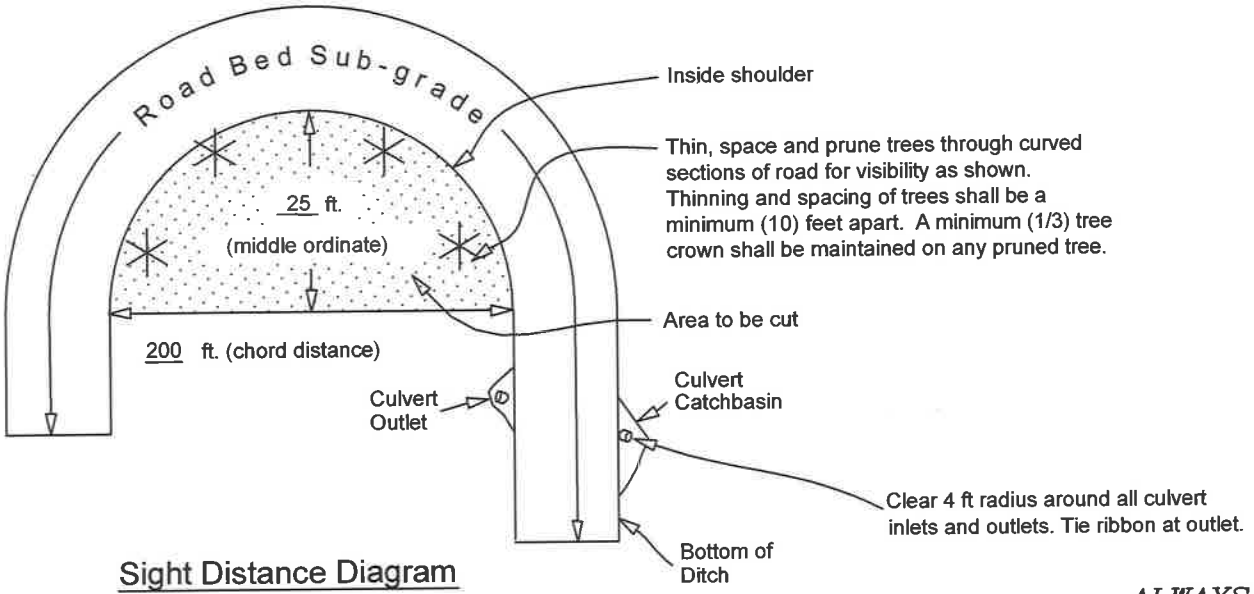
C = 4 ft - Distance to be brushed on cut slope
beyond centerline of ditch. Cut all vegetation to max height of 6".

D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".

F = Distance to be brushed on fill slope beyond outside shoulder
Cut all vegetation to max. height of 6".

V = 14 ft - Height of vertical cutting limit

Inside Corner



Sight Distance Diagram

REV. NO.	DESCRIPTION	DATE	APPROV.

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

MUSTY EVANS T.S. BRUSHINHG DIAGRAM

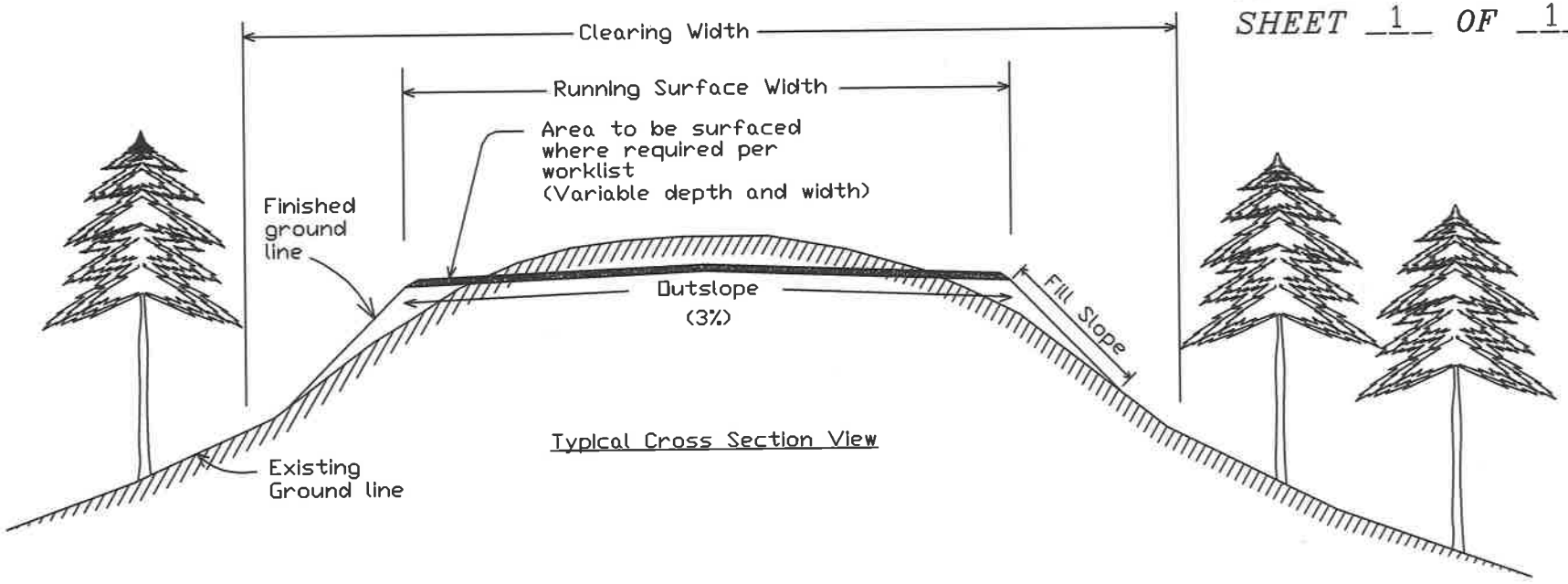
DRAWN: BGS	SCALE: NONE
DATE: MAY 2014	SHEET: 1 OF 1
DRAWING NO. ORM05–TS–2013–0005–C12	

ALWAYS THINK SAFETY

revised 08/2010

All distances shown are horizontal except for V

EXHIBIT C 13
SHEET 1 OF 1



Typical Cross Section View

Cut and Fill slope ratios:

Materials	Cut Slopes	Fill Slopes
Common	1/2:1	1 1/2:1
Soft Rock, Shale	1/2:1	1 1/3:1
Solid Rock	1/2:1	Angle of repose

Maintain existing road prisms adjacent to landings at their present grade and alignment unless otherwise directed by the Authorized Officer.

Notes

Potential helicopter landing sites that may be used are shown on Exhibit C-2. The Purchaser shall provide site plans to be reviewed at the Road Construction and Renovation Pre-work Conference. Each site plan shall include the following:

1. A diagram showing the dimensions to be cleared.
2. A diagram of proposed slash disposal locations and log decking areas.
3. A diagram of how much material will be excavated and where it will be placed. Landing sites requiring embankment depths greater than 15 ft or fill slopes greater than 30 ft in length shall be designed by the BLM. The Purchaser shall notify the BLM at least three weeks prior to anticipated construction to allow time to design the site.
4. A diagram showing the drainage pattern, percent grade and direction of the running surface slopes. Landings shall drain away from roads.

Clearing, grubbing and slash disposal shall be completed in accordance with Section 200. Clearing limits have been flagged and posted. Landings shall not be larger than necessary (not to exceed 1 acre). The Authorized Officer shall review and approve the site and plans prior to commencement of clearing and grubbing activities.

Excavation and Embankment shall be completed in accordance with Section 300. Fill slopes shall be mulched, fertilized and seeded in accordance with Section 1800.

See worklist for additional rocking or decommissioning of heliport work at specific locations.

REV. NO.	DESCRIPTION	DATE	APPROV

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

MUSTY EVANS T.S. HELICOPTER LANDING

DRAWN: BLM	SCALE: NONE
DATE: MAY 2014	SHEET: 1 OF 1
DRAWING NO.	ORM05-TS-2013-0005-C13

TIMBER SALE ROAD SPECIFICATIONS

TABLE OF CONTENTS

GENERAL – 100

*101 - Prework Conference(s):

A prework conference will be held prior to the start of new construction, improvement, renovation, and surfacing operations. The Purchaser shall request the conference at least 48 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representative(s), subcontractor(s) and/or his or their representative(s) and the Authorized Officer and/or his representative(s).

The purpose of the prework conference will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractor(s). A prework conference shall be scheduled at the worksite before any operations begin.

*102 - Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

Burst Strength - The resistance of a geotextile material to rupture from pressure applied at right angles to the plane of the geotextile material under specified conditions, usually

expressed as the amount of pressure causing failure. Rupture or burst results from tensile failure of the geotextile material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*102a - Tests Used in These Specifications:

AASHTO T 11	Quantity of rock finer than No. 200 sieve.
AASHTO T 27	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
AASHTO T 89	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
AASHTO T 90	Plastic limits and plasticity index of soil. a. Plastic limit - lowest water content at which the soil remains plastic. b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
AASHTO T 96	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
AASHTO T 99	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.
AASHTO T 119	Slump of hydraulic cement concrete.

AASHTO T 152 Air content of freshly mixed concrete.

AASHTO T 166 Specific Gravity of compacted Bituminous Mixtures.

AASHTO T 176 Shows relative portions of fine dust or claylike materials in soil or graded aggregate.

AASHTO T 180 (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.

AASHTO T 191 Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.

AASHTO T 205 Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.

AASHTO T 209 Maximum Specific Gravity of Bituminous Paving Mixtures.

AASHTO T 210 Durability of aggregates based on resistance to produce fines.

AASHTO T 224 Correction for coarse particles in the soil.

AASHTO T 238 Density of Soil and Soil-Aggregate in place by nuclear methods.

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

ASTM D 4564 Determination of relative density of cohensionless 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 - Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.

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

CLEARING AND GRUBBING - 200

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

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

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

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

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

*204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other

wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation 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.

206 - Clearing and grubbing debris shall be disposed of by piling in accordance with Subsection 211 and as shown on the plans.

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

211 - Disposal of clearing and grubbing debris shall be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.

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

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

EXCAVATION AND EMBANKMENT - 300

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

*302 - Excavation shall also consist of the excavation of road and landing cut sections, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.

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

304 - Borrow shall consist of suitable material required for the construction of

embankments or for other portions of the work; such material shall be obtained from sources shown on the plans or selected by the Purchaser at his option and approved by the Authorized Officer.

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

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

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

306e - The final subgrade shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f, 103g , 103h, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each (6) stations of road or a fraction of as measured along the center line of the constructed road. Landings shall be compacted by routing construction equipment over full width.

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

309 - The top of cut slopes shall be rounded by blending into the adjacent terrain for a distance not less than (1) foot and not more than (3) feet beyond the top of the cut. Rounding shall be performed in soils that can be shaped without ripping or blasting.

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 306e.

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 306e. Unsuitable material shall be disposed of as directed by the Authorized Officer.

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

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

318 - Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed (6) inches in depth until the required thickness shown on the plans is attained.

Each layer shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

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

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

321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.

323 - In the construction of channel changes and stream-crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.

324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of (2) feet on the uphill side.

*327 - The finished grading shall be approved in writing by the Authorized Officer in

segments. The Purchaser shall give the Authorized Officer (3) days notice prior to start of surfacing operations.

PIPE CULVERTS - 400

*401 - This work shall consist of furnishing and installing and removing a pipe culvert 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 from established construction stakes and upon installation of the appurtenance structures. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.

405a - Corrugated-(aluminized) steel-welded pipe 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, or helically corrugated pipe having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.

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

*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 compactable soil material.

*413 - Pipe culverts shall be bedded on a selected granular, crushed rock material from stockpiles shown on the plans, 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 at the following locations:

Road No.	M.P.
35-3E-10.00	0.03

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 at the following locations:

Road No.	M.P.
35-3-10.00	0.03

Side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe, and shall be brought up evenly and simultaneously on both sides of the pipe to (1) foot above the pipe, in layers not exceeding (6) inches in depth and (1) pipe diameter/span, or a minimum of (2) feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction.

*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.

*427 - 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 AND IMPROVEMENT OF EXISTING ROADS - 500

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

502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes at the locations specified in the plans and work list.

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

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

504a - Minimum compaction required shall be (1) hour of continuous vibratory rolling for each (6) stations of road, or fraction thereof, as measured along the centerline per layer of material.

506 - The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe

inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.

507 - Existing and new drainage structures at the following locations:

Road No.	M.P.
35-3-10.00	0.03

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

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

509 - The finished grading shall be approved in writing by the Authorized Officer (1) day prior to surfacing operations. The Purchaser shall give the Authorized Officer (3) days notice prior to final inspection of the grading operations.

WATERING - 600

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

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

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

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

Authorized Officer.

AGGREGATE BASE COURSE - 700
PITRUN ROCK MATERIAL

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

702a - Pitrun rock materials used in this work may be obtained from source(s) selected by the Purchaser at his option, providing the materials furnished comply with these specifications and the source is approved in writing by the Authorized Officer prior to use.

*703 - Pitrun rock materials shall consist of talus rock, bank run or river run gravels, partly decomposed granite or basalt, cinders, or other approved materials. The materials shall be reasonably free from vegetative matter or other deleterious material.

*704 - Pitrun rock material shall consist of native materials of such a size and grading that it can be taken directly from the source and placed on the road without crushing or screening. The material shall contain only occasional oversize particles to be removed. The term "oversize" shall be construed to mean material greater than (6) inches.

705 - Pitrun rock material shall be placed in layers of sufficient thickness to accommodate the material, except that the maximum thickness of any layer shall not exceed (6) inches. Where the total specified thickness is greater than (6) inches the material shall be placed in two or more layers of equal thickness.

706 - Oversize material that cannot be accommodated in the layer shall be removed at the source or on the road, and shall be disposed of as directed by the Authorized Officer.

*708 - The roadbed as shaped and compacted under section 500 of these specifications shall be approved in writing by the Authorized Officer prior to placement of pitrun rock material.

*709 - Pitrun rock material shall be placed on roadbed, blade processed and spread to required dimensions.

710 - Pitrun rock material shall be compacted by routing construction and hauling

equipment over the full width of each layer placed.

713 - Pitrun rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted subgrades shall not be construed as surfacing required under this specification.

AGGREGATE SURFACE COURSE - 1200
CRUSHED ROCK MATERIAL

*1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the purchaser's expense.

1202 - Crushed rock materials used in this work shall consist of quarry rock, stone, gravel, or other approved materials obtained from stockpiles shown on the plans.

1208a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

*1209 - Shaping and compacting of roadbed or base course shall be completed and approved, prior to placing crushed rock material, in accordance to the requirements of Subsection 500 for placing on the roadbed. Notification for final inspection prior to rocking shall be (3) days prior to the inspection and shall be (10) days prior to start of surfacing operations.

*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 and staked on the ground. Compacted layers shall not exceed (4) inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

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

1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f, 103f, 103h, or 103i . Minimum compaction shall be 1 hour of continuous compacting for each 6 stations or fraction thereof.

1215 - The Purchaser is authorized to remove crushed rock material from BLM stockpiles for placement on the roads in accordance with the requirements and details shown on the plans and as follows:

Stockpile Name	Willamette Meridian			Subdivision
	Sec.	T.	R.	
Section 1	1	33S.	4W.	NW 1/4
N/A	31	32S.	3W.	SE 1/4
N/A	7	33S.	3W.	NW 1/4
N/A	31	33S.	3W.	NE 1/4

Approximately 2,582 cubic yards of additional crushed rock material required to complete the surfacing shall be furnished by the Purchaser in accordance with these specifications and as shown on the plans. 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.

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 - Use long-chain, synthetic polymers, composed of at least 95 percent by mass of polyolefins or polyesters, to manufacture geotextile or the threads used to sew geotextile.

1303 - Furnish to the Authorized Officer 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.

1308 - The geotextile material shall be installed directly on the prepared surface. Place the geotextile smooth and free of tension, stress, or wrinkles. Fold or cut the geotextile to conform to curves. Overlap in the direction of construction. Overlap the geotextile a minimum of (2) feet at the ends and sides of adjoining sheets, or

sew the geotextile joints according to manufacturer's recommendations. Do not place longitudinal overlaps below anticipated wheel loads. Hold the geotextile in place with pins, staples, or piles of cover material.

1309 - End-dump the cover material onto the geotextile from the edge of the geotextile or from previously placed cover material. Do not operate equipment directly on the geotextile. Spread the end-dumped pile of cover material maintaining a minimum lift thickness of (4) inches. Compact the cover material with rubber-tired or non-vibratory smooth drum rollers. Avoid sudden stops, starts, or turns of the construction equipment. Fill all ruts from construction equipment with additional cover material. Do not re-grade ruts with placement equipment.

1310 - Repair or replace all geotextile that is torn, punctured, or muddy. Remove the damaged area and place a patch of the same type of geotextile overlapping 3 feet beyond the damaged area.

1314 - Geotextile material used as a filter shall be placed in a manner and at the locations shown on the plans. Place the long dimension of the geotextile parallel to the centerline of the ditch. Position the geotextile, without stretching, in contact with the ditch surface. Overlap the joints a minimum of 24 inches with the upstream geotextile placed over the downstream geotextile. Replace geotextile damaged during installation.

SLOPE PROTECTION - 1400

*1401 - This work shall consist of furnishing, hauling and placing stone materials for slope protection structures and rock blankets 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 slope protection structure at the purchaser's expense and as directed by the Authorized Officer.

*1402 - Stone material shall consist of hard angular quarry rock of such quality that it will not disintegrate on exposure to water or weathering, and shall be graded in accordance with these specifications.

1404 - The material shall be well graded from the smallest to the maximum size specified. Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.

1405 - Rip rap shall conform to the following gradations:

TABLE 1405

Class	Approx. Cubic Dimension (inches)	Sphere Diameter (inches)	% of Total Volume Smaller than Size of Stone
1	6-8	8	100
	5-6	6	80
	2-5	6	50
	0-2	2	10
2	8-10	12	100
	6-8	8	80
	3-6	6	50
	0-3	4	10
3	**14-16**	**21**	**100**
	10-14	**18**	**80**
	5-10	**12**	**50**
	0-5	**6**	**10**
4	18-20	24	100
	14-18	22	80
	6-14	18	50
	0-6	8	10
5	26-28	36	100
	20-26	32	80
	8-20	25	50
	0-8	10	10
6	28-34	42	100
	22-28	34	80
	10-22	27	50
	0-10	12	10

1406 - The placement of slope protection stones by the end dumping method shall be conducted to prevent the stones from escaping beyond the embankment toe.

1406a - The embankment shall be placed in successive horizontal layers of sufficient depth to contain the maximum size rock present in the material. Spalls and finer fragments of stone other than specified in Subsection 1405 shall be used to chock the larger stones solidly in position and to fill voids between the major stones as laid in the embankment. The exposed face of the embankment shall be reasonably smooth and uniform; material shall be prevented from escaping beyond the toe of the structure.

*1407 - Determination of the acceptability of the slope protection material gradation will be through visual inspection by the Authorized Officer.

1408b - The Purchaser shall excavate unsuitable roadway material as shown on the plans or directed by the Authorized Officer prior to the placement of the required rock blanket or structure at the following locations:

Road No.	From Sta./M.P.	To Sta./M.P.
FS600 – Panther Peak Road	2.63	2.63

1409 - Slope protection material shall be placed so as to form the cross sections shown on the plans. The face of the slope protection structure above the low-water line shall be uniform, free from humps, depressions, or large cavities.

1410 - The embankment slopes at the following locations:

Road No.	From Sta./M.P.	To Sta./M.P.
FS600 - Panther Peak Rd	2.63	2.63

Shall be protected and stabilized by placement of rock materials to form a slope-protection structure conforming to the construction requirements and details of these specifications.

EROSION CONTROL - 1700

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

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

1705 - The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 4356 square feet (0.10 acres) after October 1 without prior approval by the Authorized Officer.

1706 - The surface area of erodible earth material exposed at one time by excavation,

borrow, or fill within the right-of-way shall not exceed 4356 square feet (0.10 acres) after October 1 without prior approval by the Authorized Officer.

SOIL STABILIZATION – 1800

*1801 - This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications. This work is required for road acceptance under Section 18 of this contract.

*1802 - Soil stabilization work consisting of seeding and mulching shall be performed on newly constructed helicopter landings in accordance with these specifications as shown in the work list.

1802a - Soil stabilization work consisting of seeding and mulching shall be performed on newly constructed helicopter landings, disturbed areas, and disposal sites in accordance with these specifications and as shown on the plans.

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

From: September 15	To: October 31 (of the same year)

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas and then complete the requirements of Section 1800 the next construction season. The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

1803a - The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.

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

1808 - Mulch materials conforming to the requirements of Subsections 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1815.

1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain

crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.

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

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

1811 - The Purchaser shall furnish and apply to approximately 3.5 acres designated for treatment as shown on the plans and as specified under Subsections 1802 and 1806a, a mixture of grass seed and mulch material at the following rate of application:

a. Two Stage Dry Application:

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

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

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

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

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

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

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

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

ROADSIDE BRUSHING - 2100

*2101 - This work shall consist of the removal of vegetation from the road prism - variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.

*2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment or manually with hand tools, including chain saws.

*2103 - Vegetation cut manually or mechanically less than **(**6**)** inches in diameter at D.B.H. 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 slopes and all limbs below the (2) inch area will be severed from the trunk.

2103a - Vegetation shall be cut and removed from the road bed between the outside shoulder(s) and the ditch centerline and such vegetation shall be cut to a maximum height of (1) inch above the ground and running surface. Limbs below the (1) inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.

2104 - Trees in excess of (6) inches in diameter at D.B.H. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of (14) feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within (1) inch of the trunk to produce a smooth vertical face. Removal of trees larger than (6) inches in diameter for sight distance or safety may be directed by the Authorized Officer.

2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within (14) feet in elevation above the running surface shall be cut, to within (1) 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 or a middle ordinate distance of (25) feet, whichever is achieved first. Overhanging limbs and vegetation in excess of (1) foot in height, shall be cut within these areas.

2108 - Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.

2109 - Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of (1) foot in length and (2) inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.

2113 - Roadside brushing shall be accomplished as shown on the plans and as listed in the work list.

2114 - Sections of roadway to have vegetation removed will be marked at start and stop points with red-topped painted stakes.

2115 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within (400) feet of the immediate operating area.

2116 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

SPECIAL PROVISIONS

1. SEASONAL RESTRICTION . - . Waivers may be granted if conditions are favorable.

ACTIVITY	START DATE	END DATE
Road renovation	May 15	Oct. 15
In stream	June 15	Sept. 15

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

3. CULVERTS / CMPs:
   - Backfill material over new culverts shall be compacted with a mechanical tamper to 95% of max. compaction. Existing surfacing materials shall be conserved and re-compacted over installation area.
   - When removing culverts, pull slopes back to the natural slope, or at least 1:1, to minimize sloughing, erosion, and the potential for the stream to undercut stream banks during periods of high stream flows. Remove excess sediment from stream channels during culvert removal, replacement, and installation activities. Apply seed and mulch to all disturbed or exposed soils at each stream culvert removal site.

4. DUST ABATEMENT:
   - The application of dust abatement materials such as Lignin, Mag-chloride, or approved petroleum based dust abatement products shall be restricted from application just after wet weather or at stream crossings or other locations that could result in direct delivery to a water body.

5. START-UP and SHUTDOWN:
   - Before the initial start of road renovation, construction, reconstruction, or surfacing operations, or after a shutdown of 7 or more days, the Purchaser shall notify the Authorized Officer 48 hours in advance of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer if they intend to cease operations for any period of 30 or more days.

6. PERMITS:
   - All permits required are the responsibility of the Purchaser.

7. WATER SOURCE:
   - The Purchaser is responsible for obtaining water and associated rights and permits.

8. DAMAGE:
   - The contractor shall protect and is responsible for any damage to existing telephone lines, transmission lines, fiber optic lines, fences, ditches, and other existing improvements as required in Section 14. Damage to utilities and existing improvements shall be promptly paid for or repaired to a condition which is, in the opinion of the Authorized Officer and the governing utility company, at least as good as the condition just prior to such damage.

9. SOIL STABILIZATION:
   - All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, if available. Certified weed free straw mulch will be the responsibility of the contractor.

10. ROADSIDE BRUSHING
   - Roadside brushing cutting limits beneath or adjacent to bridges shall extend 8 feet horizontally from each side of the outermost projected line of the bridge including abutments, curbs, rails or decks. Cut brush and trees shall be removed from beneath the bridge and from the stream channel.
   - While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. All debris resulting from roadside brushing activities shall be mechanically chipped. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. All culvert inlets and outlets shall be brushed for a radius of 4 feet.
   - While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C-10) shall have the branches pruned rather than being felled.

11. HELICOPTER LANDING DECOMMISSIONING
   - Helicopter landings shall be ripped, seeded and mulched after use per the work list.
   - The helicopter landing at the end of the Anderson road shall be ripped after use.
   - The helicopter landing at the end of the 32-3-31.04 road shall be rocked, seeded and mulched where any disturbed soil is exposed.

12. BRIDGES
   - BLM bridges located at MP 4.90 (FHWA Structure #5000-015) and MP 5.00 (FHWA Structure #5000-016) on the West Fork Evans Road (BLM Road # 34-3-24.00) are rated below state highway levels. Purchaser will be required to obtain a bridge permit to haul heavy equipment and log trucks over these bridges.

13. FOR FOREST SERVICE ROADS

- For the use of Forest Service road numbers FS3229-200 and FS3231-600, all Forest Service regulations as contained in the Umpqua National Forest Commercial Road Use Rules and Road Use Permit Requirements dated May 21, 2012. The Purchaser shall also get a Special Use Permit ($224.00) for the use of and construction of two helicopter landings from the Umpqua National Forest.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE SPECIFICATIONS

INDEX

GENERAL MAINTENANCE- 3000

3001 The Purchaser shall be required to maintain all roads listed and/or referenced in section 41, as shown on the Exhibit D-2 maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.

3001a The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3403, 3403a, and 3404.

3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.

3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.

3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.

3102 The Purchaser shall place 250 cu. yds. of stockpiled aggregate conforming to the requirements in Section 1200 of Exhibit C of this contract on the roadway at locations and in the amounts designated by the Authorized Officer.

Stockpiled aggregate shall be obtained from the following BLM stockpiles:

Stockpile Name	Willamette Meridian			Subdivision
	Sec.	T.	R.	
Section 1	1	33S.	4W.	NW 1/4
N/A	31	32S.	3W.	SE 1/4
N/A	7	33S.	3W.	NW 1/4
N/A	31	33S.	3W.	NE 1/4

This aggregate shall be used to repair surface failures and areas of depleted surface depth excluding damages covered by Section 12 of this contract. The aggregate shall be hauled, placed, spread, and compacted by use of dump trucks, water trucks, and motor grader or similar equipment.

3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.

3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.

3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.

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

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

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

3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other

debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.

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

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

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

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be in accordance with Section 2100 of Exhibit C-7.

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

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

SEASONAL MAINTENANCE - 3200

3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.

3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 15 each year, except as specified in

Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the proceeding operating seasons.

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

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

FINAL MAINTENANCE - 3300

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

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

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

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

OTHER MAINTENANCE - 3400

3401 The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement

of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.

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

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

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

The following roads shall be watered:

Road Number	From M.P.	to M.P.
34-4-15.02	0.00	1.00
35-3-7.00 Anderson	0.00	0.35
35-3-28.01	0.00	1.00

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

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

3403a During dry hauling conditions when watering is not required, the Purchaser shall reduce hauling speeds or restrict the number of loads hauled to reduce dust as directed by the Authorized Officer on the following roads:

Road Number	From M.P.	to M.P.
34-4-15.02	0.00	1.00

35-3-7.00 Anderson	0.00	0.35
35-3-28.01	0.00	1.00

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 magnesium chloride for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.

3408 Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.

3409 The Purchaser shall notify the Authorized Officer a minimum of (3) days in advance of application of required dust palliative.

3410 The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.

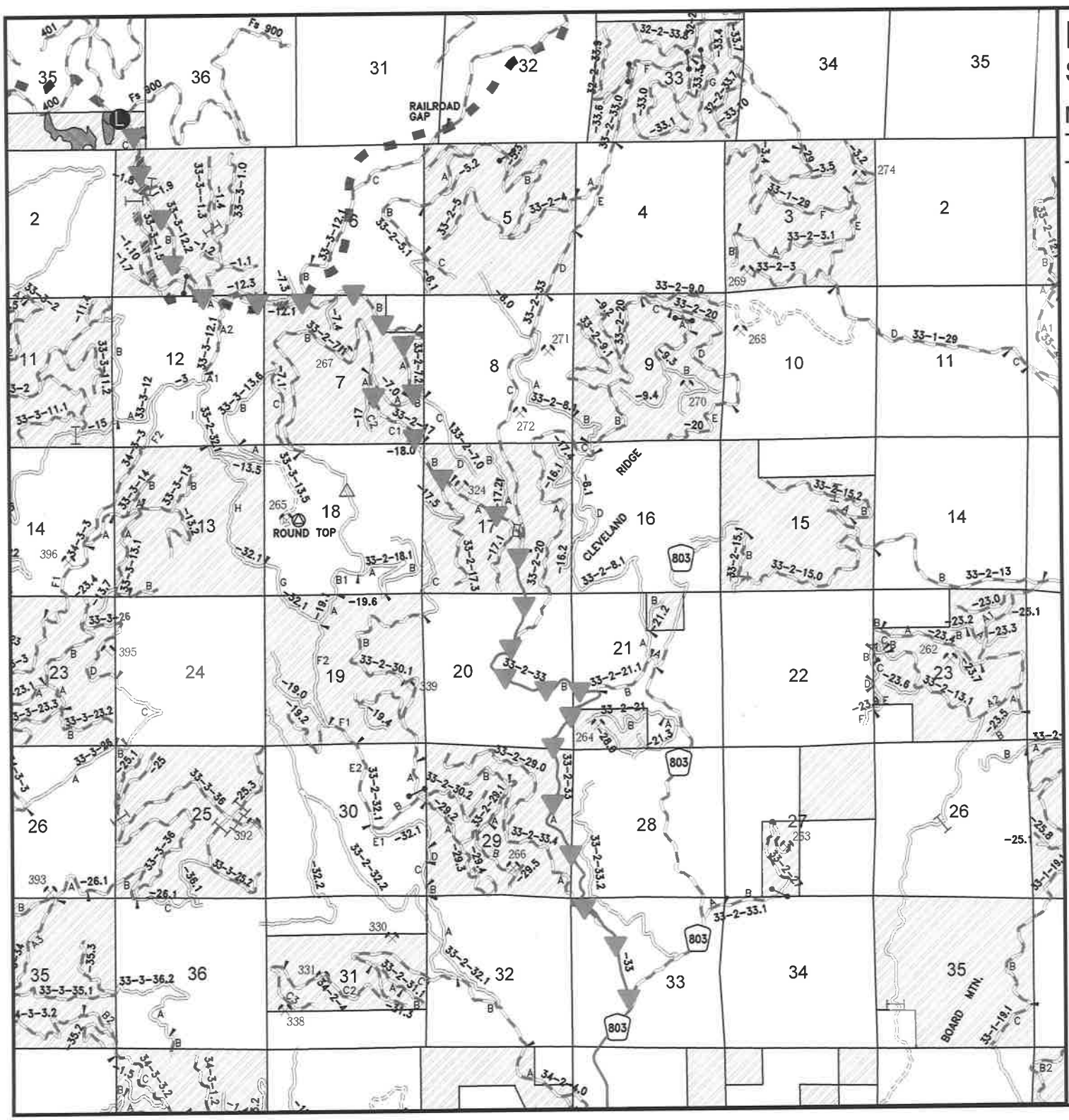


EXHIBIT D2

SHEET 1 OF 5

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

NATURAL SURFACE ROAD

PRIMITIVE ROUTE

PURCHASER MAINTENANCE

BLM MAINTENANCE

HELICOPTER LANDING (L)

STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.32S., R.3W. WILL. MER.
T.32S., R.2W. WILL. MER.
T.33S., R.3W. WILL. MER.
T.33S., R.2W. WILL. MER.

0 1
SCALE IN MILES

ALWAYS THINK SAFETY

N

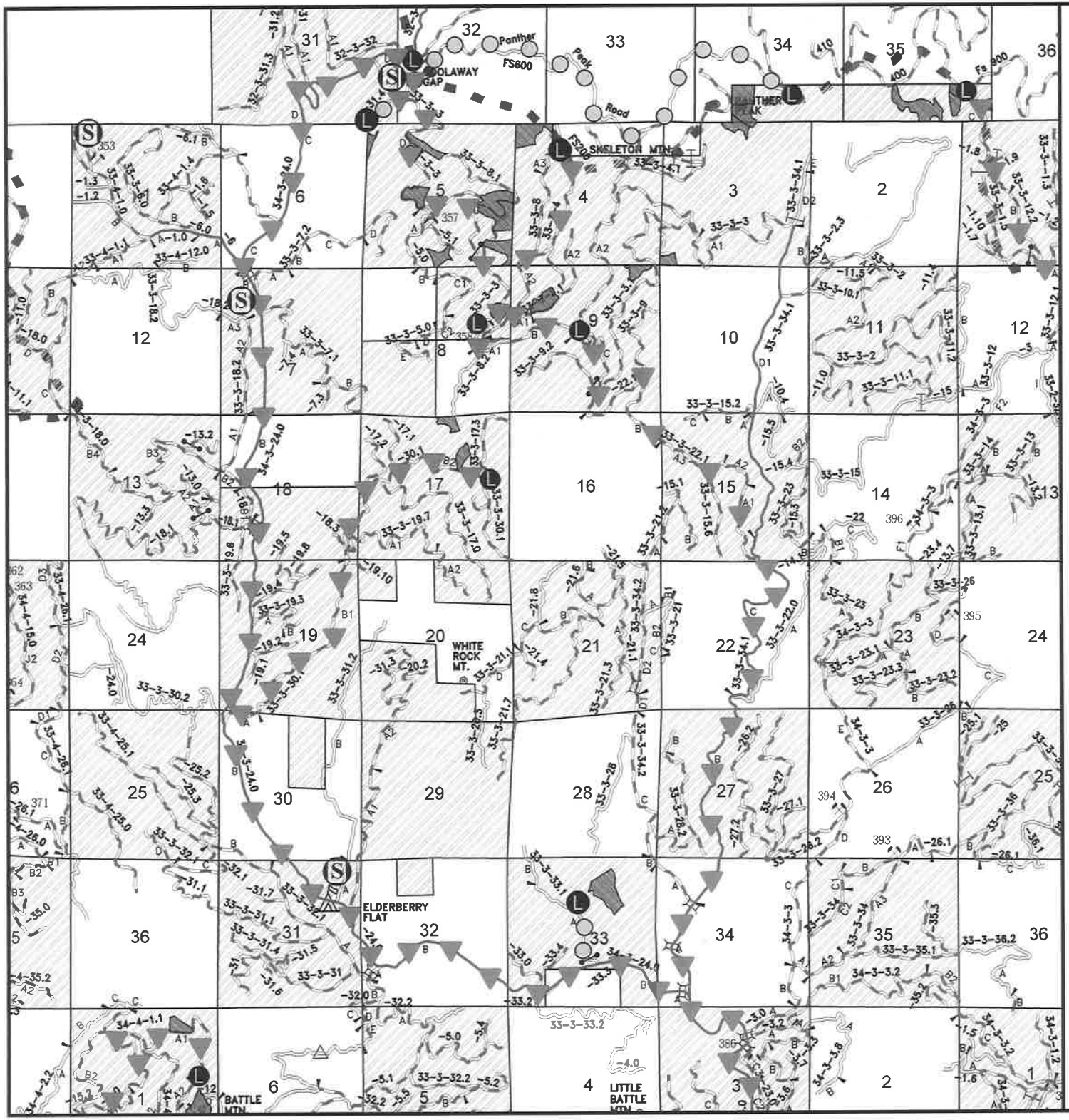


EXHIBIT D2

SHEET 2 OF 5

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

- BLM OWNERSHIP
- T.S. UNITS
- BST ROAD
- ROCKED ROAD
- NATURAL SURFACE ROAD
- PRIMITIVE ROUTE
- PURCHASER MAINTENANCE
- BLM MAINTENANCE
- HELICOPTER LANDING (L)
- STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.32S., R.3W. WILL. MER.
T.33S., R.4W. WILL. MER.
T.33S., R.3W. WILL. MER.
T.34S., R.4W. WILL. MER.
T.34S., R.3W. WILL. MER.

0 1
SCALE IN MILES

N

ALWAYS THINK SAFETY

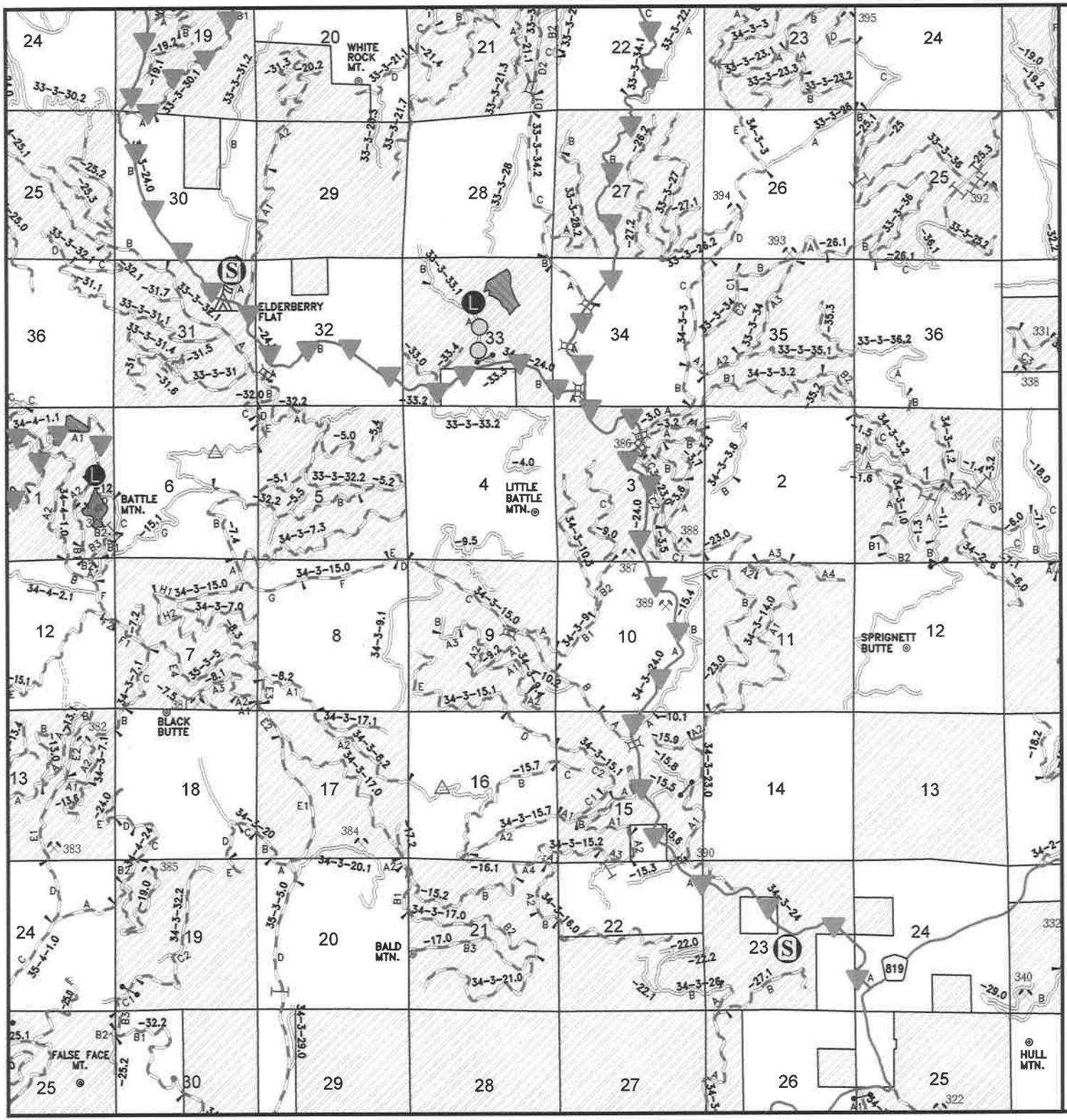


EXHIBIT D2

SHEET 3 OF 5

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

NATURAL SURFACE ROAD

PRIMITIVE ROUTE

PURCHASER MAINTENANCE

BLM MAINTENANCE

HELICOPTER LANDING (L)

STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.33S., R.4W. WILL. MER.
T.33S., R.3W. WILL. MER.
T.34S., R.4W. WILL. MER.
T.34S., R.3W. WILL. MER.

0 1
SCALE IN MILES

N

ALWAYS THINK SAFETY

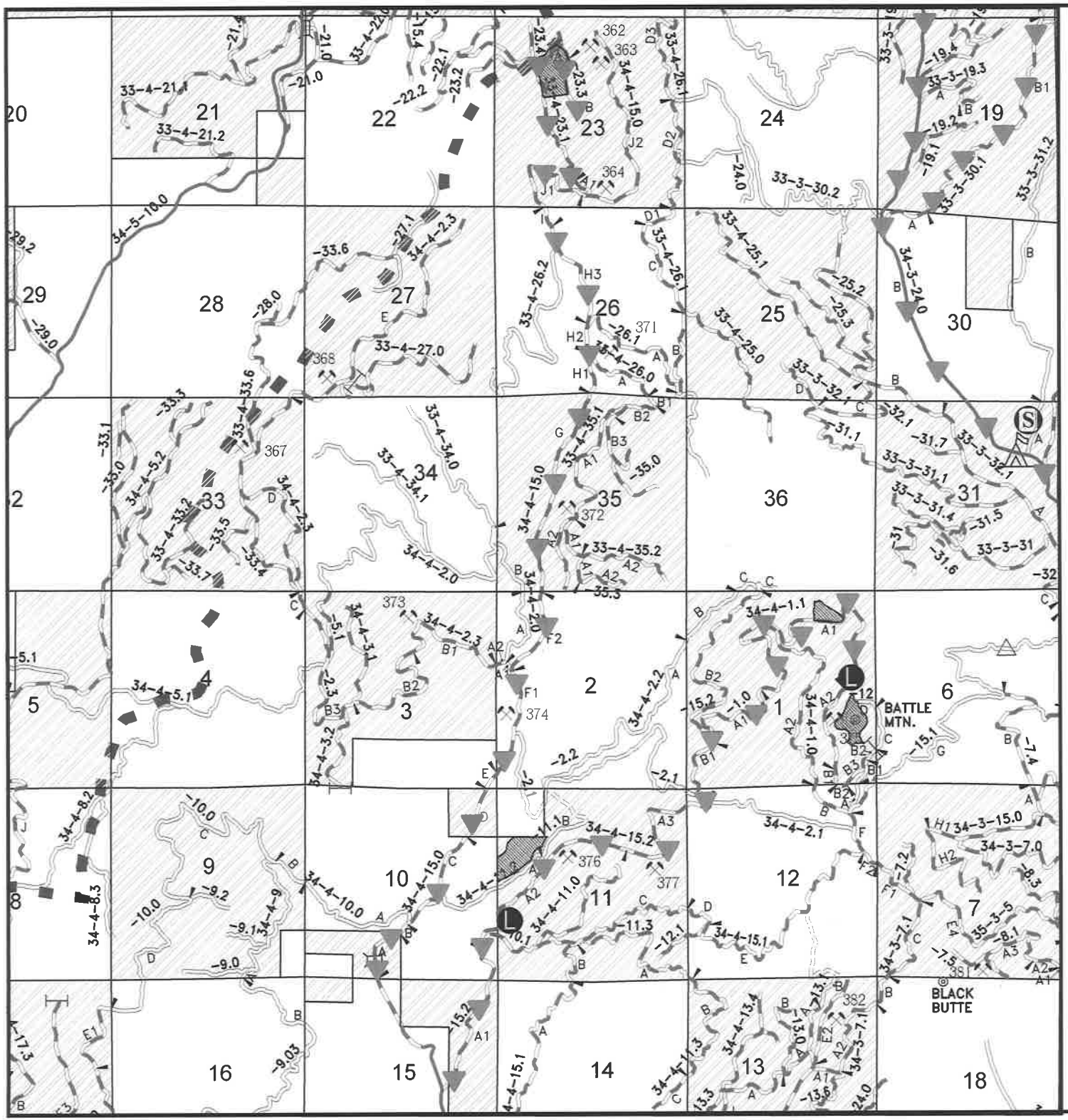


EXHIBIT D2

SHEET 4 OF 5

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

BLM OWNERSHIP

T.S. UNITS

BST ROAD

ROCKED ROAD

NATURAL SURFACE ROAD

PRIMITIVE ROUTE

OPERATOR MAINTENANCE

BLM MAINTENANCE

HELICOPTER LANDING

STOCKPILE SITE

U.S.D.I. BLM MEDFORD DISTRICT

T.33S., R.4W. WILL. MER.
T.33S., R.3W. WILL. MER.
T.34S., R.4W. WILL. MER.
T.34S., R.3W. WILL. MER.

0 1

SCALE IN MILES

ALWAYS THINK SAFETY

N

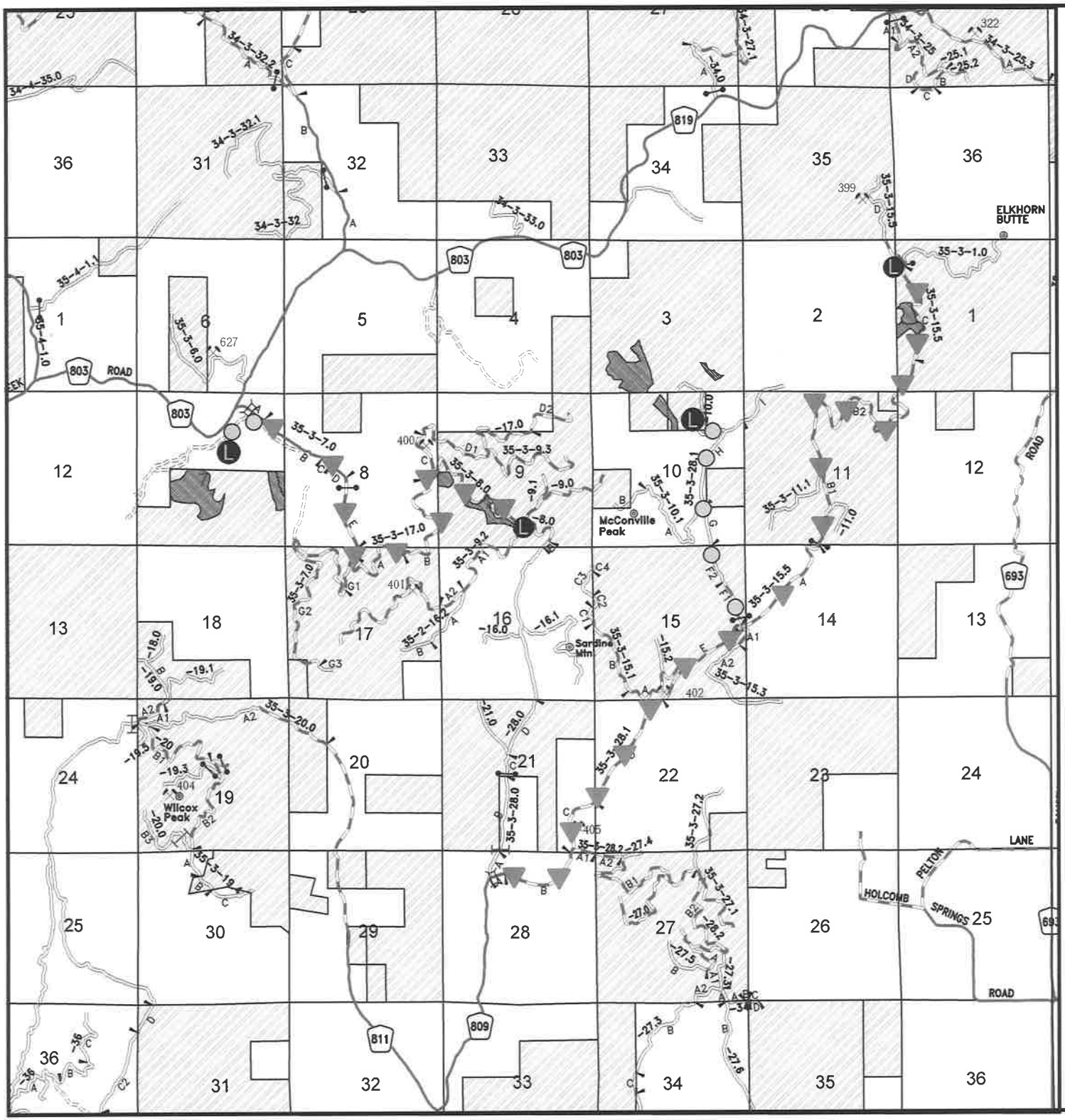


EXHIBIT D2

SHEET 5 OF 5

MUSTY EVANS
TIMBER SALE
TRACT NO. ORM050-TS-2014.0008

- BLM OWNERSHIP
- T.S. UNITS
- BST ROAD
- ROCKED ROAD
- NATURAL SURFACE ROAD
- PRIMITIVE ROUTE
- OPERATOR MAINTENANCE
- BLM MAINTENANCE
- HELICOPTER LANDING (L)
- STOCKPILE SITE (S)

U.S.D.I. BLM MEDFORD DISTRICT

T.34S., R.4W. WILL. MER.
T.34S., R.3W. WILL. MER.
T.35S., R.4W. WILL. MER.
T.35S., R.3W. WILL. MER.

0 1
SCALE IN MILES

N

ALWAYS THINK SAFETY

SELECTION CRITERIA- DESIGNATION BY PRESCRIPTION
EXHIBIT E

The Selection Criteria Shown below shall be used by the Purchaser in determining which trees are to be retained and which trees are to be cut and removed. In addition, the Selection of retention and cut trees shall comply with the Musty Evans Special Provisions Sec. 41. Said Purchaser identification of trees to be cut and removed does not constitue authority to proceed with cutting and removal. Before proceeding with removal, the conditions found in Musty Evans Special Provisions Secs. 42 (B)(5) & (22) must be met. Trees that are removed to facilitate logging do not count toward the leave tree requirements described below.

Target Basal Area for Restoration Thinning 60% Canopy Cover :
T33SR3W, Sections 4, 5, 9,and 33.

Unit	4-18	5-7	5-8	5-9	9-7	33-1
Target Basal Area (square feet/acre)	160	140	150	150	150	130

Treatment Objectives: Reduce stand densities to increase landscape resiliency to enviromental disturbances. Increase structural diversity by leaving small, unthinned patches and creating openings. Maintenance of northern spotted owl habitat which includes maintenance/improvement of the vigor of retained large diameter conifers.

Prescription: Thin from below retaining a minimum **sixty (60) percent canopy cover** on a unit basis. This canopy cover is to be achieved by retaining an average target basal area per acre (shown in the table above) of merchantable, 8.0 inches and greater dbh conifers. Thinning is to occur across each unit with skips(un-thinned patches) and gaps(openings created) that are .1-.25 acre size. Combined skips and gaps should be 10%-15% of total unit acreage. Units that are 5 acres or less in size will not have skips or gaps. Example: Un-thinned patches should be be left adjacent to snags, large course woody debris, deformed trees, and existing dense pockets, seeps, or hardwood clumps. Gaps should be created where vigorious understory regeneration understory is present, in root rot pockets, or when clearing around large, healthly ponderosa pine or sugar pine. In all units, it is intended that all trees 150 years of age or older be marked for retention. See attachment of Robert Van Pelt's determining general age of Douglas fir trees.

In determining which trees to retain to meet the required basal area per acre, the Purchaser shall make selections based on the following criteria:

A. Favor retaining healthy ponderosa pine, sugar pine, and incense cedar over equally healthy Douglas-fir. Favor retaining Douglas-fir over white fir. All merchantable conifers retained, including dominant and Co-dominant trees can count as part of the required basal area.

B. Retain larger remnant trees of all species, such as Douglas-fir that have thick, deeply-fissured bark. These trees can count as part of the required basal area.
C. Favor dominant and co-dominant trees for retention that have the largest diameter and height. Co-dominant trees under 150 years in age may be cut and removed if near a dominant tree or another co-dominant that meets a greater number of selection criteria.
D. Favor vigorous trees and those that are of good form.
E. Favor trees with larger live crown ratios. The live crown ratio is determined by dividing the height of the tree containing a live crown by the total height of the tree.
F. In selecting between two possible trees that are of the same species and comparable form and vigor, retain the larger tree.

Target Basal Area for Restoration Thinning 40% Canopy Cover :
T32SR3W, Sections 34 and 35. T33SR3W, Sections 3, 5, and 17. T34SR4W, Sections 1 and 11. T35SR3W, Sections 1, 3, 7, 9, and 10.

Unit	34-1	35-3	35-4	35-5	3-7	5-2	17-2	17-10	1-3
Target Basal Area (square feet/acre)	170	140	160	160	140	140	6	6	130
Unit	**11-1**	**1-1S**	**3-4**	**3-6**	**7-1**	**7-2**	**9-3**	**9-5**	**10-3**
Target Basal Area (square feet/acre)	100	130	100	100	100	120	100	100	100

Treatment Objectives: Reduce stand densities to increase landscape resiliency to enviromental disturbances. Increase structural diversity by leaving small, unthinned patches and creating openings. Maintenance of northern spotted owl habitat which includes maintenance/improvement of the vigor of retained large diameter conifers.

Prescription: Thin from below retaining a minimum **forty (40) percent canopy cover** on a unit basis. This canopy cover is to be achieved by retaining an average basal area per acre (shown in the table above) of merchantable, 8.0 inches and greater dbh conifers. Thinning is to occur across each unit with skips(unthinned patches) and gaps(openings created) that are .1-.25 acre size. Combined skips and gaps should be 10%-15% of total unit acreage. Units that are 5 acres or less in size will not have skips or gaps. Example: Un-thinned patches could be left adjacent to snags, large course woody debris, deformed trees, and existing dense pockets, seeps, or hardwood clumps. Gaps should be created where vigorious understory regeneration understory is present, in root rot pockets, or when clearing around large, healthly ponderosa pine or sugar pine. In all units, it is intended that all trees 150 years of age or older be marked for retention. See attachment of Robert Van Pelt's determining general age of Douglas fir trees.

.

In determining which trees to retain to meet the required basal area per acre, the Purchaser shall make selections based on the following criteria:

A. Favor retaining healthy ponderosa pine, sugar pine, and incense cedar over equally healthy Douglas-fir. Favor retaining Douglas-fir over white fir. All merchantable conifers retained, including dominant and Co-dominant trees can count as part of the required basal area.
B. Retain larger remnant trees of all species, such as Douglas-fir that have thick, deeply-fissured bark. These trees can count as part of the required basal area.
C. Favor dominant and co-dominant trees for retention that have the largest diameter and height. Co-dominant trees less than 150 years in age may be cut and removed if near a dominant tree or another co-dominant that meets a greater number of selection criteria.
D. Favor vigorous trees and those that are of good form.
E. Favor trees with larger live crown ratios. The live crown ratio is determined by dividing the height of the tree containing a live crown by the total height of the tree.
F. In selecting between two possible trees that are of the same species and comparable form and vigor, retain the larger tree.

In addition to the above selection criteria for 40% and 60% Canopy Cover:

A. Retain all unit boundary trees as identified in Section 41(A) of the contract. Unit boundary conifers can count as part of the required basal area if they would be selected for retention based on the above selection criteria.

B. Retain all conifers less than eight (8) inches dbh. Conifers less than eight (8) dbh do not count as part of the required basal area.
C. Retain hardwoods. Hardwoods do not count towards required basal area but can count as part of the required canopy cover.
D. Retain non-hazardous snags and existing down woody debris.
E. Some units have trees with paint from previous projects. The Purchaser shall disregard any paint in the selection of trees to be retained.
F. Treatment around Dominant and Co-dominant sugar and ponderosa pines: Remove co-dominant trees under 150 years of age and smaller Douglas-fir trees with boles that are within thirty (30) feet of the bole of a healthy, full crowned dominant or co-dominant pine.

UNITS 23-1A (3 AC) and 23-1B (17 AC) in T.33S. R.4W. Sec.23, and 1-1N (3 AC) in T.34S. R.4W. Sec.1:

A. Cut and remove all trees marked with blue paint.
B. Retain all unmarked conifers.
C. Retain all hardwoods.
D. Retain non-hazardous snags and existing down woody debris.

UNITS 5-4 (8 AC) 5-5 (3 AC) in T.33S. R.3W. Sec.5 and 9-9 (11 AC) in T.33S. R.3W. Sec.9:

A. Cut and remove all merchantable conifers not marked with yellow paint.
B. Retain all conifers marked with yellow paint.
C. Retain all hardwoods.
D. Retain non-hazardous snags and existing down woody debris.

PURCHASER TALLY OF MARKED TREES:

For all units except units 5-4, 5-5, 9-9, 23-1A, 23-1B, and 1-1N the Purchaser shall record trees marked for retention. Marked trees shall be recorded by four (4) inch diameter class (class mid-points of 8, 12, 16, 20,...) and species.

DEFINITIONS:

Basal Area – Basal area is the total cross-sectional area (at four and a half feet above average ground level) of trees in a stand measured in square feet per acre.

BAF (Basal Area Factor) – Number of units of basal area per acre represented by each tree.

Canopy Cover – The ground area covered by the crowns of mid-story and larger trees as delimited by the vertical projection of crown perimeters expressed as a percent of total ground area. For the purposes of this contract canopy cover can not exceed 100%.

Co-dominant – Trees with crowns forming the general level of the main canopy that receive full light from above but comparatively little from the sides.

DBH– Diameter of a tree at breast height, measured at a point four and a half feet above ground level on the uphill side of the tree.

Dominant – Trees with crowns extending above the general level of the main canopy that receive full light from above and partial light from the sides.

Form (tree form) – The general shape of a tree. For this contract, good form will be defined as trees with straight boles, full crowns, small branches that are perpendicular to the bole that have pyramidal crowns (not flattened).

Intermediate – Trees with crowns either below or extending into the canopy layer formed by dominant and co-dominant trees. Intermediates receive little direct from above and none from the sides.

Remnant – Trees that have survived a disturbance(s) that removes most of the trees in the stand.

Thin from below – As applied to this contract, removal of trees in lower crown classes to release, maintain current growth rates, or maintain/improve vigor of dominant and selected co-dominant trees.

COMPLIANCE INSPECTION:

Compliance inspection of the marking will occur after tally cards are submitted to the Government and prior to the falling of trees within the unit to be inspected. Inspection will consist of the collection of sampled plot data by the Government. Non-compliance with the Prescription and/or Selection Criteria shall constitute a contract violation which may result in a suspension of operations as provided in Section 10 of the contract.

Inspections will be on a unit basis and will be made on a series of variable radius plots or fixed radius plots at the minimum rate of one plot per five acres on units greater than

twenty (20) acres. For units less than twenty (20) acres a minimum of five plots will be taken. Plots will be dispersed throughout each unit.

The following data will be collected at each plot[1]:

1. Number of trees on the plot that should be retained to meet the prescription.
2. Total number of reserve trees marked for retention.
3. Number of properly selected trees (see selection criteria) that would be retained under the Purchaser mark.

Marking will be accepted if **all** of the following are met:

1. The average basal area of all plots taken within the unit meets the minimum required basal area for retained trees.
2. A minimum Work Quality Percentage (WQP) of ninety-five (95) percent is achieved.
3. The WQP will be derived by dividing the number of properly selected trees to be retained by the total number of trees that should be retained.The average estimate of canopy cover that would remain after harvest meets the prescription.

Falling of trees on a unit will occur only after marking has been accepted.

[1] Trees to be counted in the inspection are those that follow the prescription and selection criteria.

VAN PELT, R. 2008 ATTACHMENT(next 2 pages)

Rating system for determining the general age of Douglas fir trees

(Choose one score from each category and sum scores to determine developmental stage)

Bark condition, lower one-third of tree	Score
Hard, bony bark with small fissures	0
Hard bark with moderately deep fissures (4-10 cm – 2-4 in)	1
Deep fissures present (> 10 cm – 4 in)	3
Knot indicators, lower one-third of tree	
Branch stubs present	0
Old knot/whorl indicators visible	1
No knot/whorl indicators visible	3
Lower crown indicators	
No epicormic branches	0
Small epicormic branches present	1
Large and/or gnarly epicormic branches present	3
Crown form (refer to Figure 109)	
Similar to a tree in top row	0
Similar to a tree in middle row	3
Similar to a tree in bottom row	5

Scoring Key

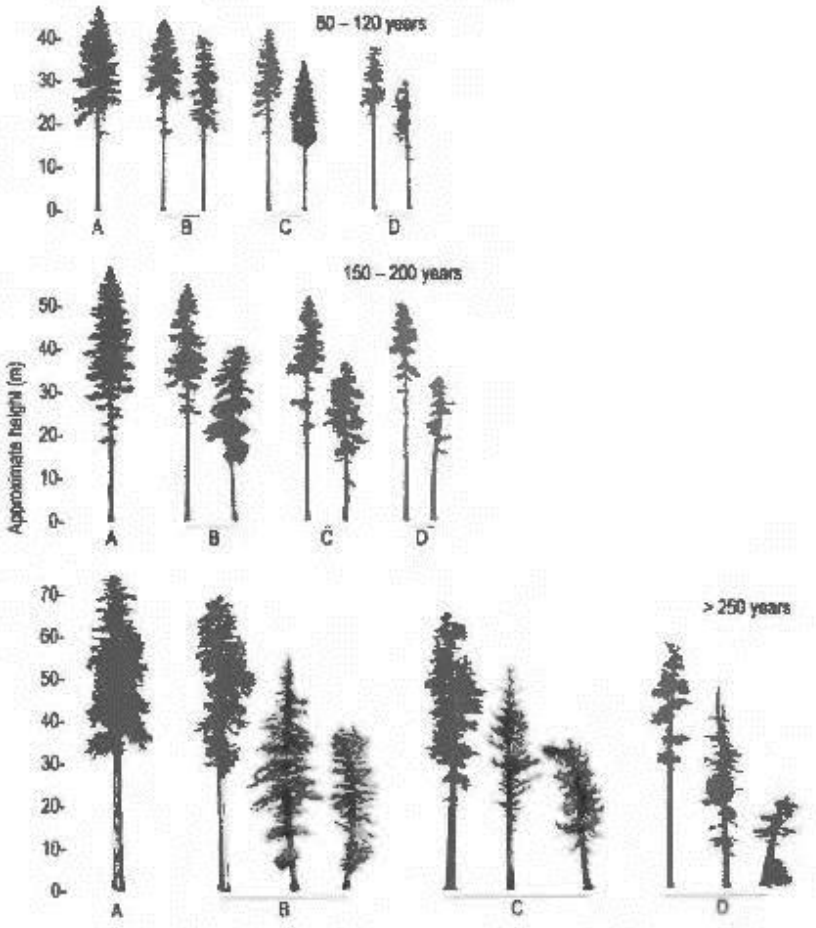
< 3	Young tree
3–6	Mature tree < 150 years
7–10	Mature tree ≥ 150 years
> 11	Old tree ≥ 250 years

Longevity and death

Moderate decay-resistance and resinous wood helps Douglas firs occasionally live to great ages—trees 600 to 800 years old are not uncommon in many parts of its range. Trees 1,000 years or older have also been recorded, including some in dry montane areas similar to eastern Washington. For a Douglas fir tree that has survived to become a canopy tree in an old-growth forest, a delicate balance exists between photosynthesis and respiration. Stresses from fire or competition within dense stands can create vulnerability to bark beetle attacks. Similarly, beetle populations increase following fire, blowdown, or logging as a supply of inner bark becomes more available (Figure 110). An upper age limit for Douglas fir in most eastern Washington forests is determined by the velvet-top fungus. This slow-growing fungus can often take 200 to 400 years before it makes its presence known, and may require several more centuries to cause tree death. This

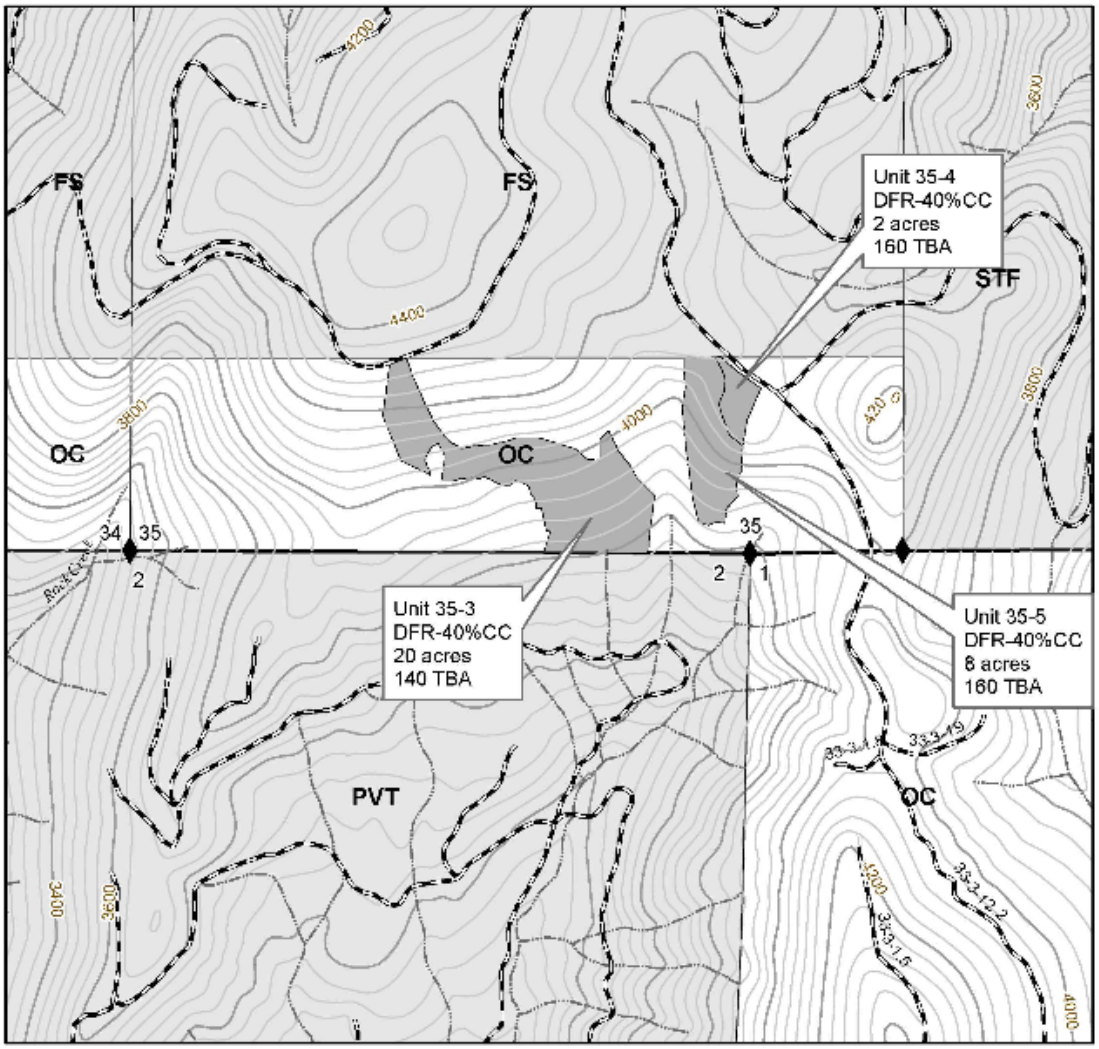
Douglas Fir

Figure 109. Douglas fir crown form and tree vigor in eastern Washington. Idealized forms represent three age and four vigor classes (A-high vigor to D-low vigor) in eastern Washington. Vigor is a function of site productivity and response to disturbance and environmental stress. More than one individual is shown for vigor classes B-D to illustrate possible variations. Competition-based mortality usually ensures that most trees in vigor classes C and D do not survive to the next age class. The trees depicted are the same scale in the first image, and at differing scales on the following pages.



U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 32S. R. 3W., SEC 35, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 9 OF 19



Medford District BLM
April 2014

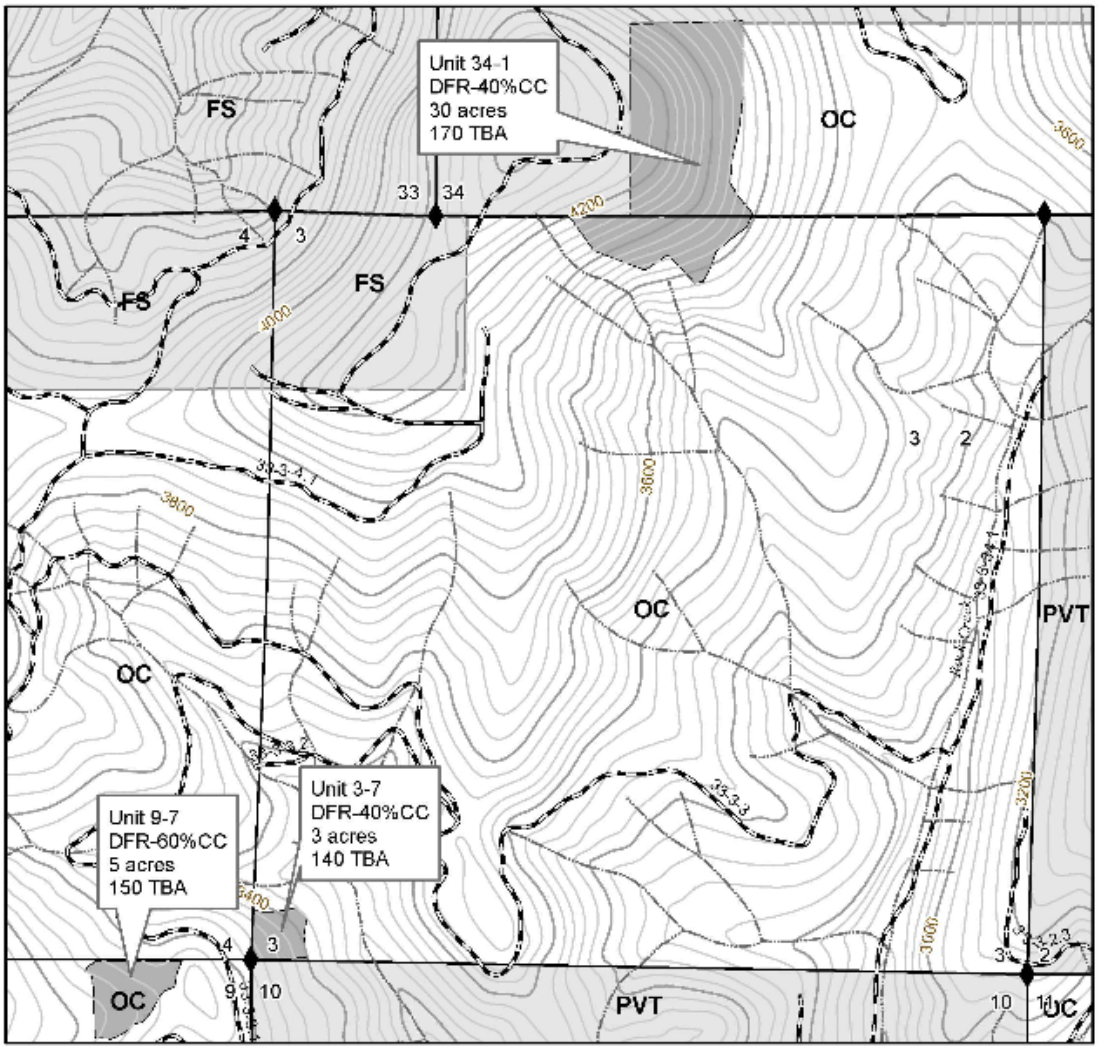
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 32S. R. 3W., SEC 34, WILL. MER.
T. 33S. R. 3W., SEC 3 & 9, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 10 OF 19



Medford District BLM
April 2014

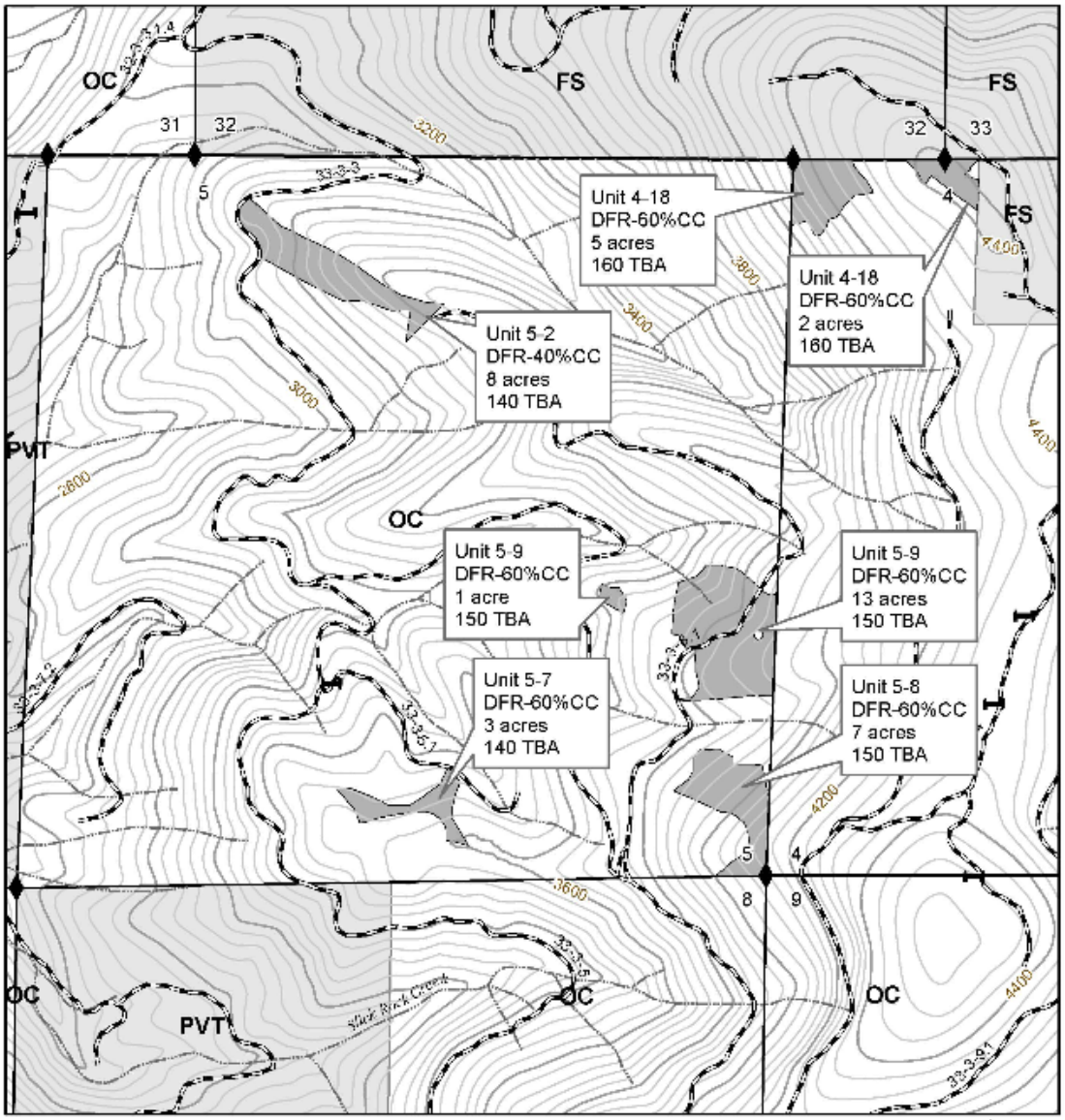
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 3W., SEC. 4 & 5 WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 11 OF 19



Medford District BLM
April 2014

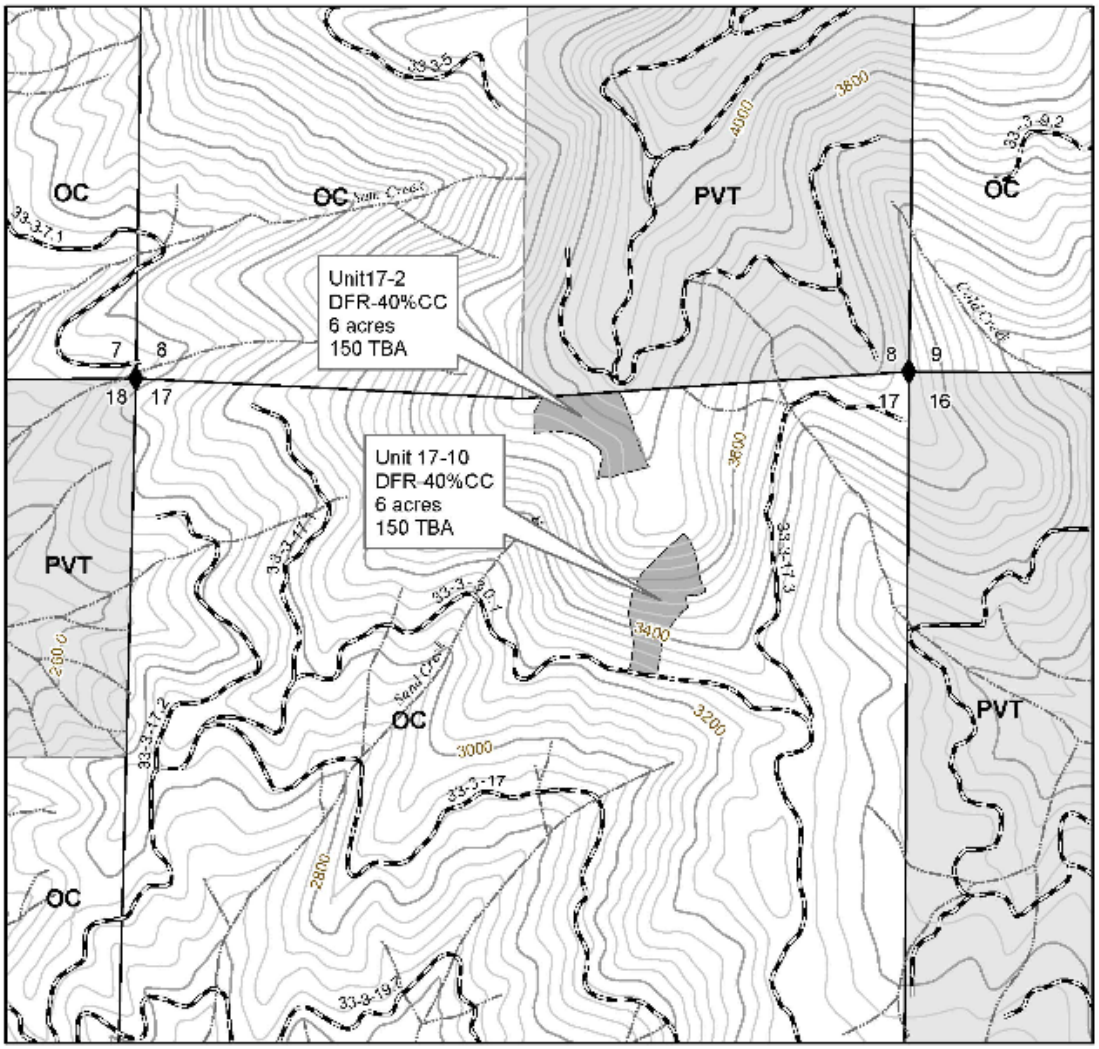
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 3W., SEC.17, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 12 OF 19



Medford District BLM
April 2014

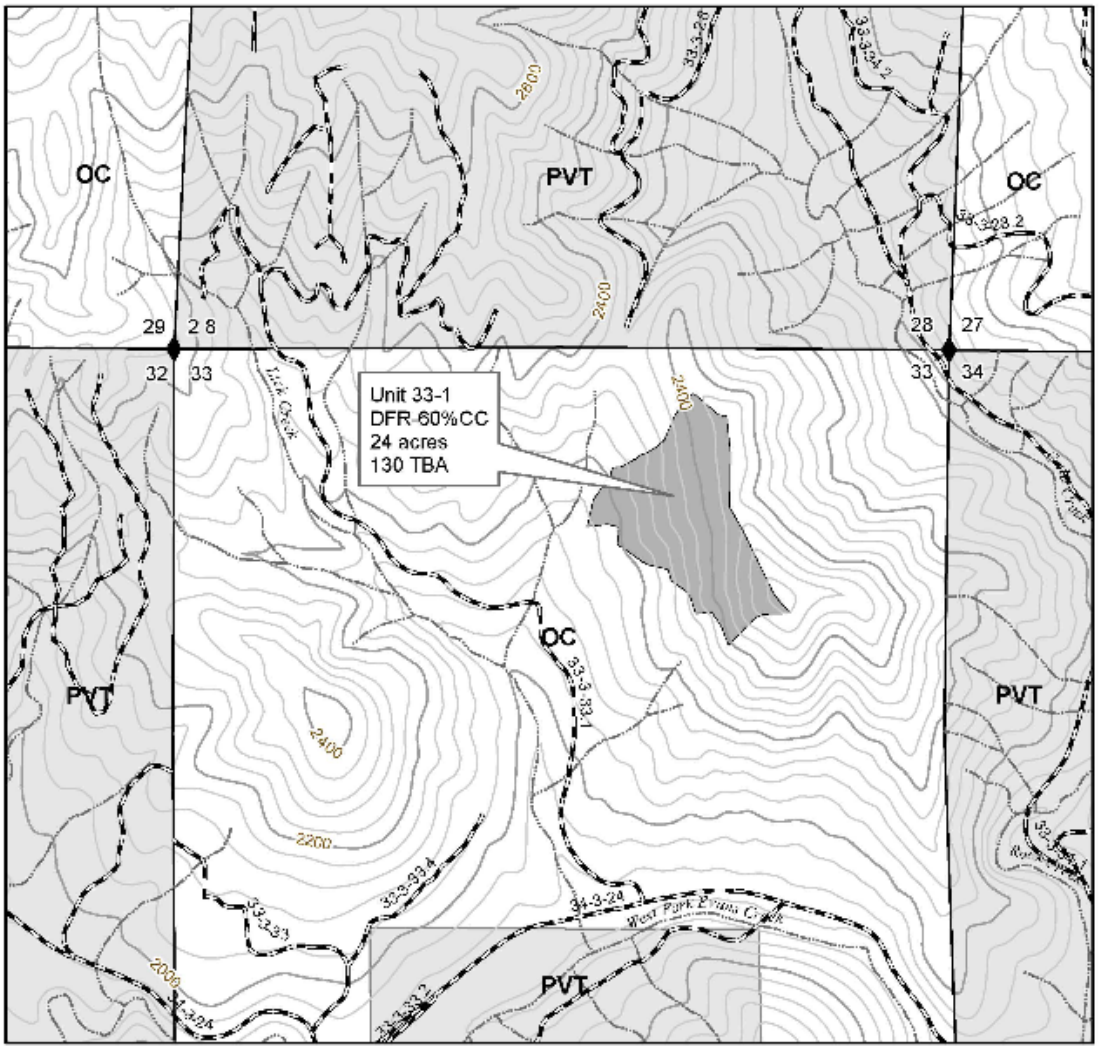
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 33S. R. 3W., SEC.33 WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 13 OF 19



Medford District BLM
April 2014

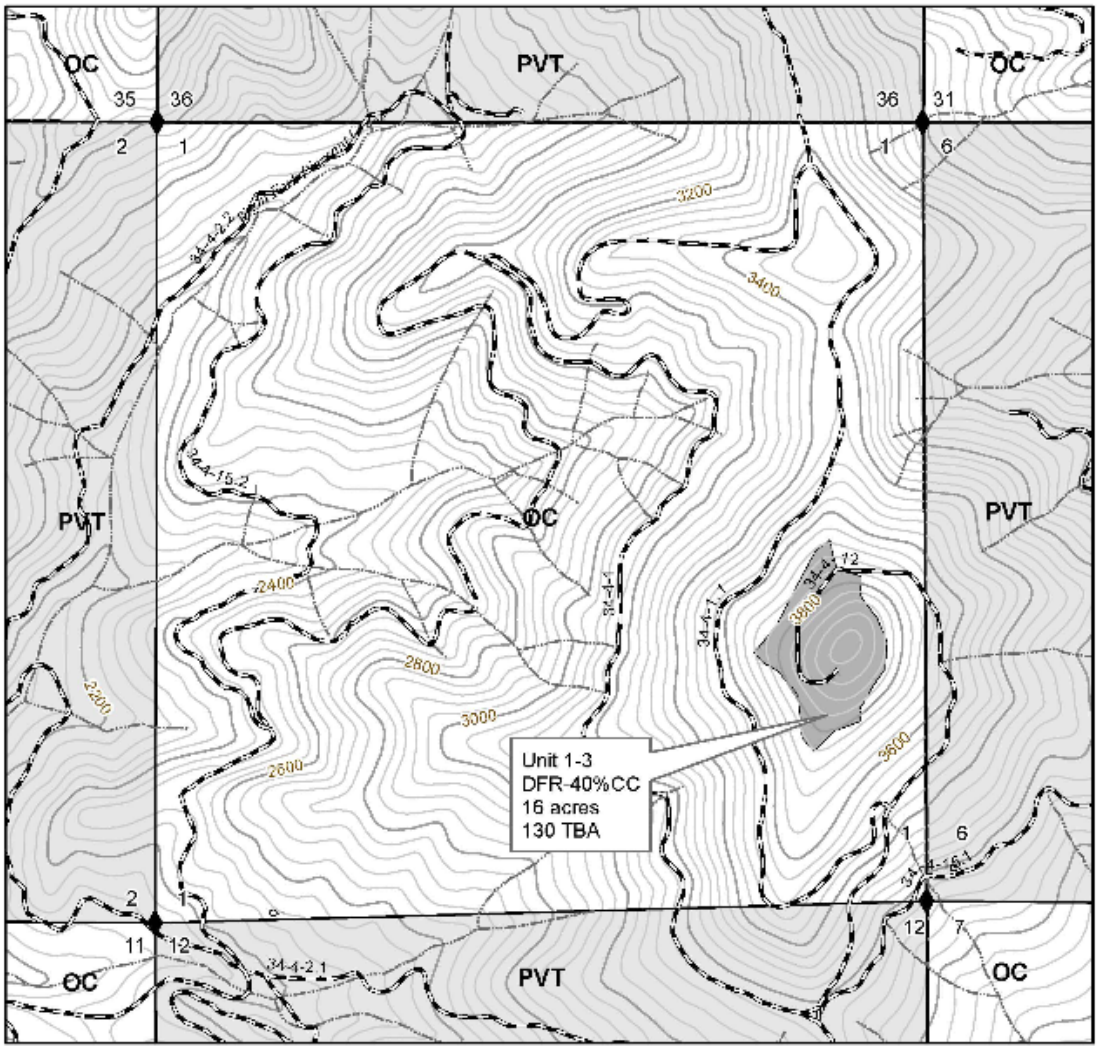
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 34S. R. 4W., SEC.1, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 14 OF 19



Medford District BLM
April 2014

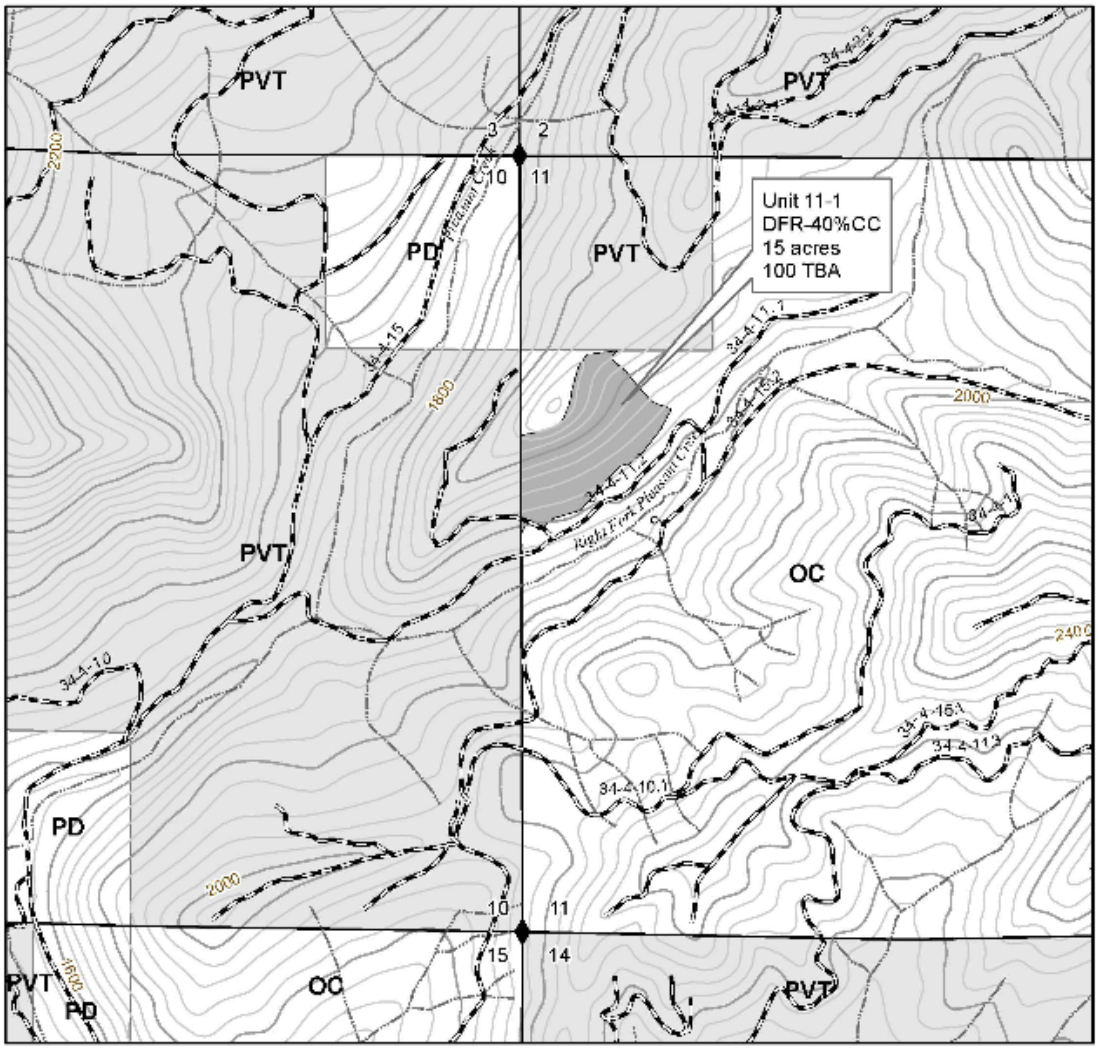
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 34S. R. 4W., SEC.11, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 15 OF 19



Medford District BLM
April 2014

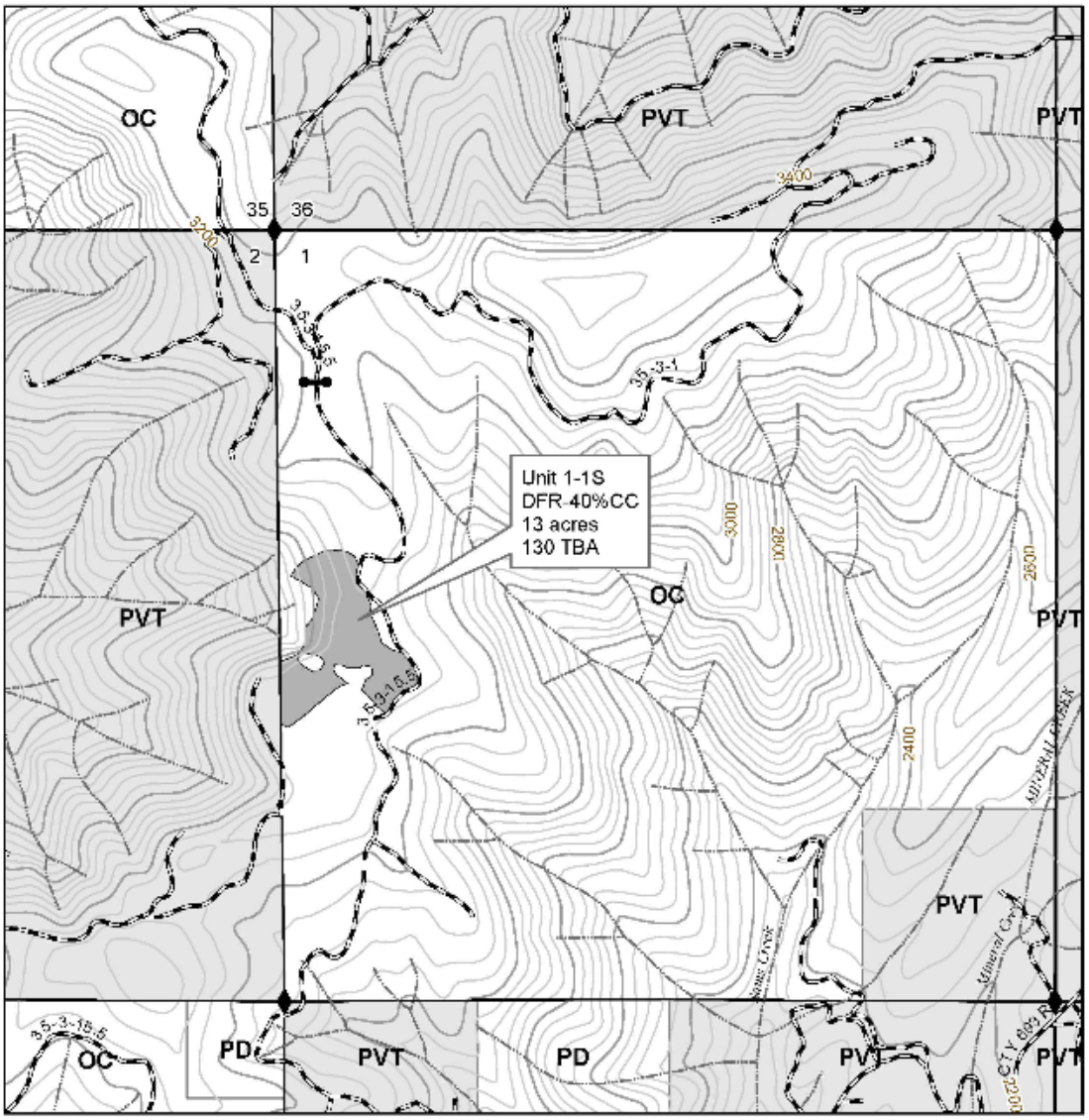
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

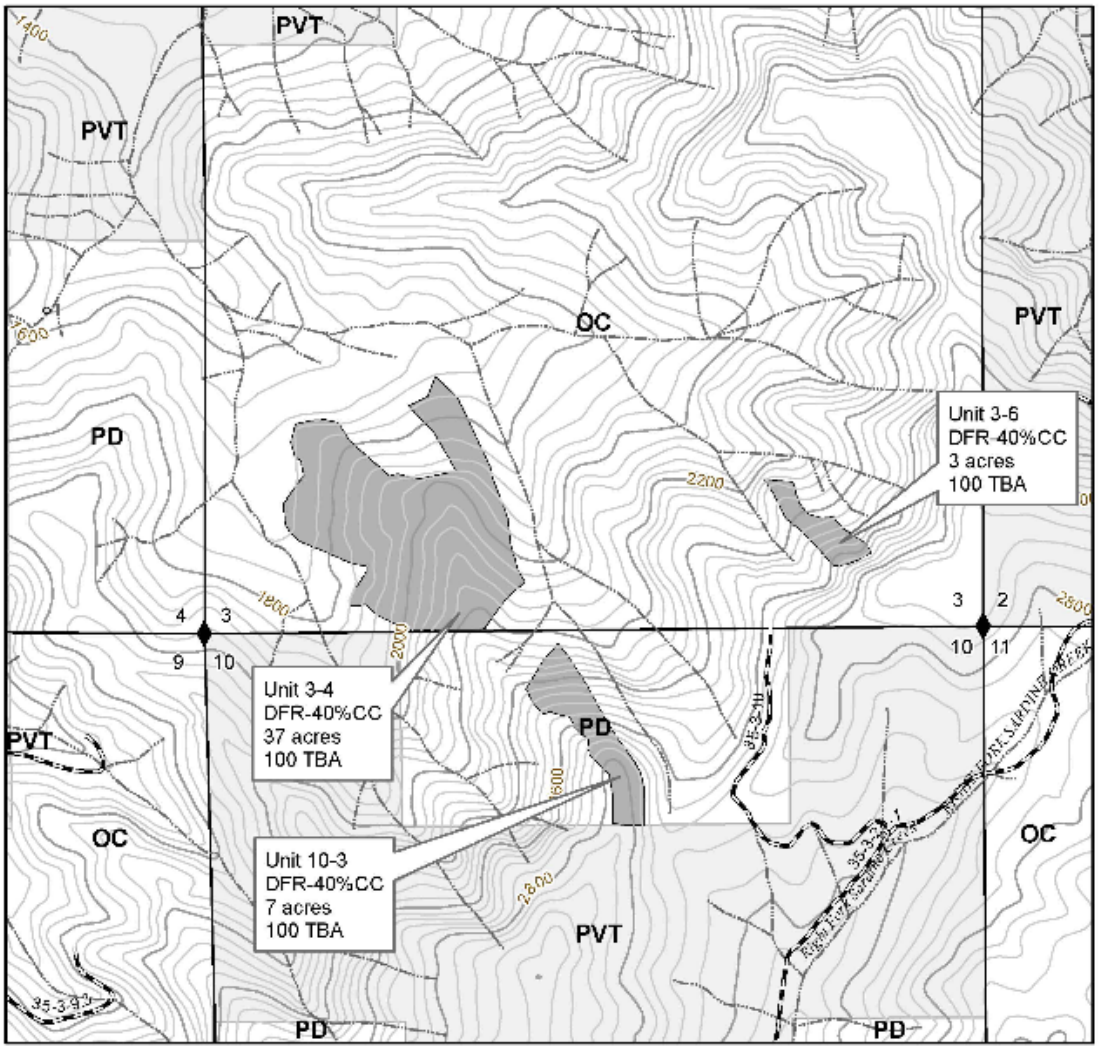
U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 1, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 16 OF 19



U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 3 & 10, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 17 OF 19



Medford District BLM
April 2014

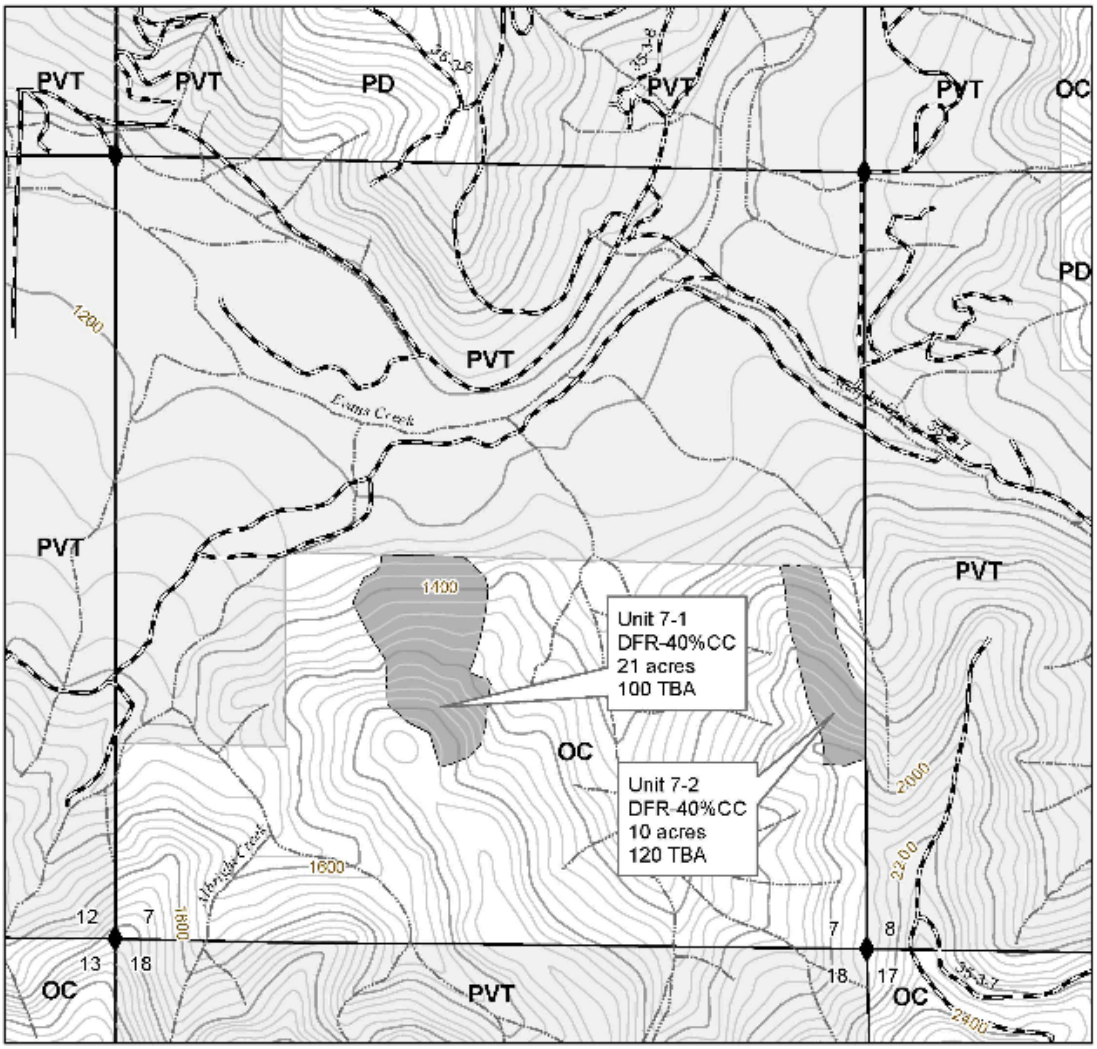
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 7, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 18 OF 19



Medford District BLM
April 2014

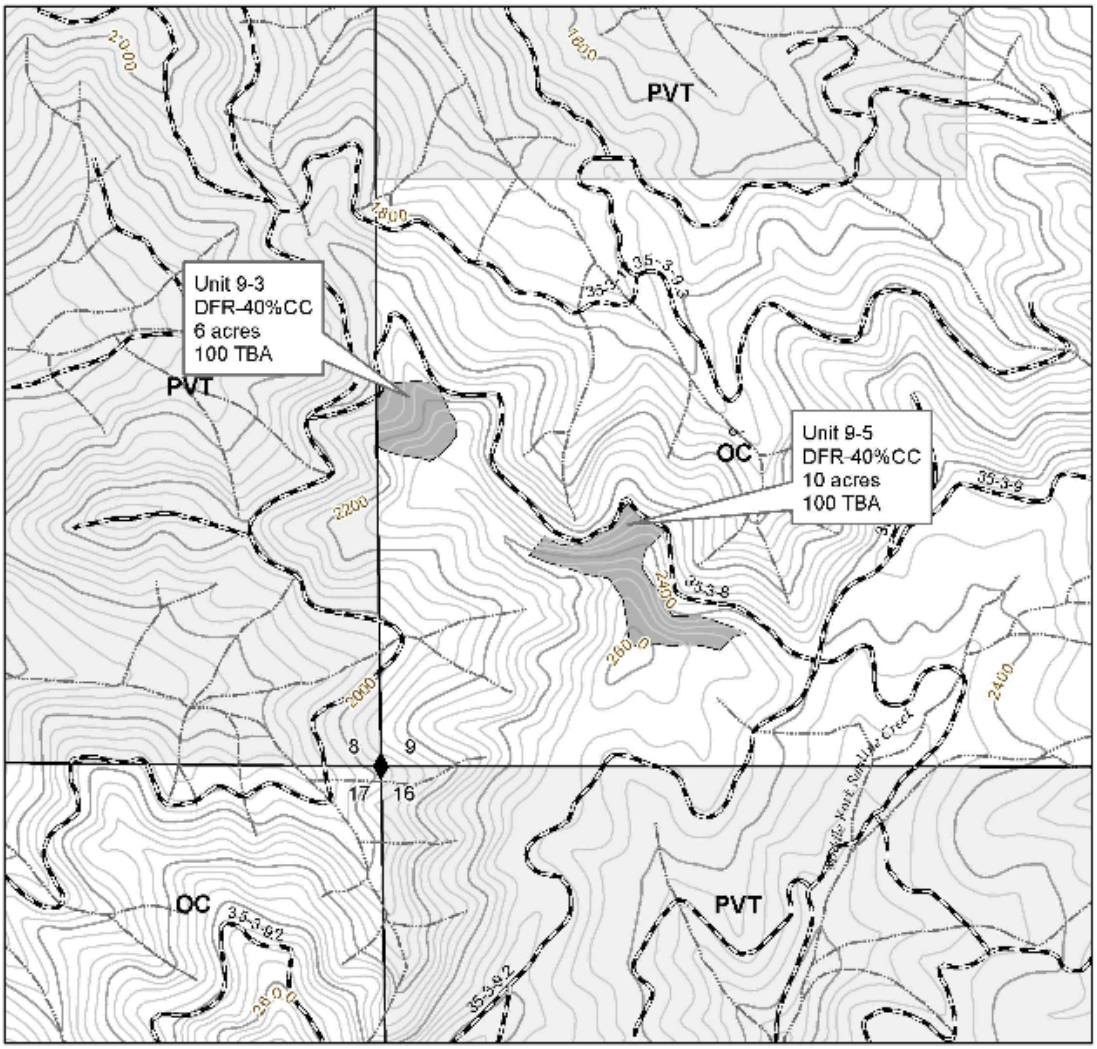
1 inch = 1,000 feet
Contours = 40 feet

0 0.25 0.5
Miles

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

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 14-08
T. 35S. R. 3W., SEC. 9, WILL. MER.
MUSTY EVANS TIMBER SALE

TIMBER SALE CONTRACT MAP
CONTRACT NO. ORM05 -TS14-08
EXHIBIT E - DxP SELECTION CRITERIA
PAGE 19 OF 19



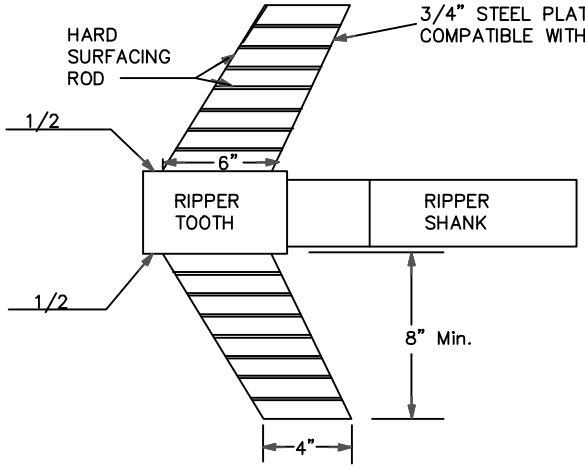
Medford District BLM
April 2014

1 inch = 1,000 feet
Contours = 40 feet

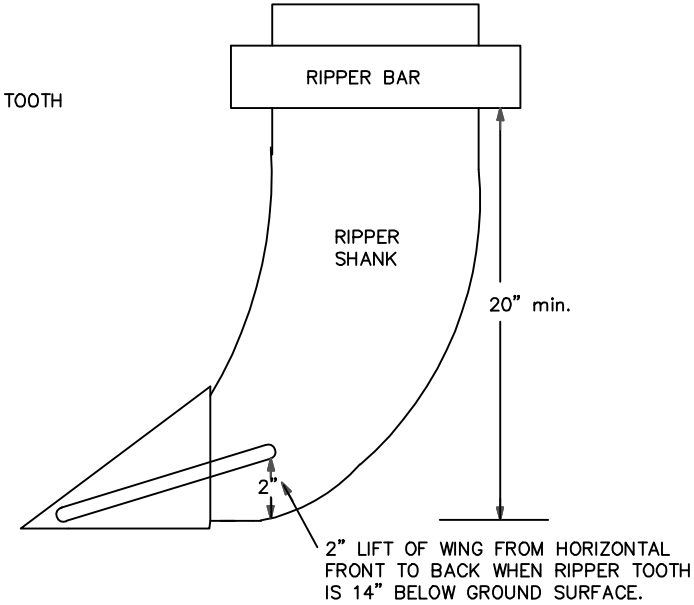
0 0.25 0.5
Miles

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

EXHIBIT R
*SHEET _1_ OF _1_*

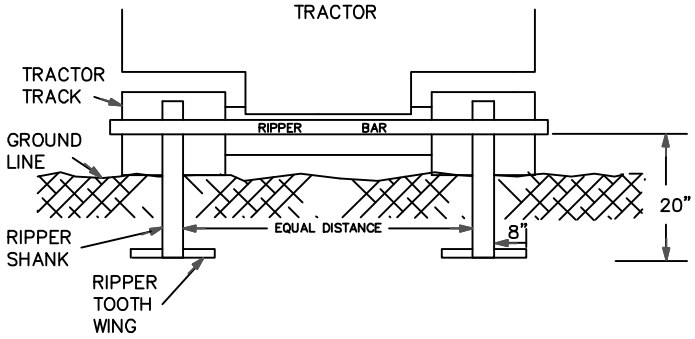


TOP VIEW



SIDE VIEW

TYPICAL RIPPER POSITION



NOTES: TYPICAL RIPPER TOOTH CONSTRUCTION

1. USE HARD SURFACING ROD FOR ALL EDGE AND SURFACE REINFORCEMENT.
2. WELD THAT ATTATCHES WINGS TO RIPPER TEETH MUST BE COMPATIBLE WITH METAL IN TEETH AND WINGS.
3. RIPPER SHANKS AND RIPPER TEETH MAY BE NEW OR USED.
4. WINGS SHALL PROVIDE TWO (2) INCHES OF LIFT FROM THE HORIZONTAL WHEN TEETH ARE EXTENDED FOURTEEN (14) INCHES BELOW THE GROUND SURFACE.

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

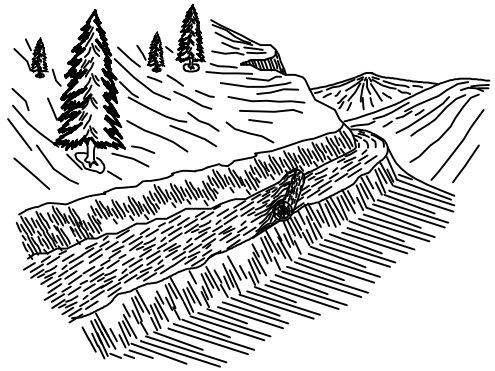
WING RIPPER DETAIL

DESIGNED _____
REVIEWED _____
APPROVED _____
CHIEF, BRANCH OF ENGINEERING OR DISTRICT ENGINEER

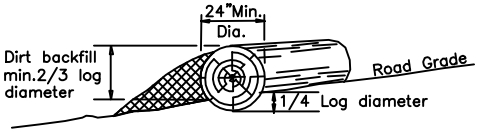
DRAWN: JWR	SCALE: NONE
DATE: October 2009	SHEET 1 OF 1
DRAWING NO.	

EXHIBIT W

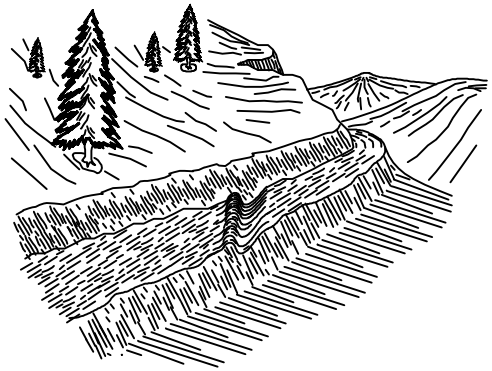
*SHEET _1_ OF _1_*



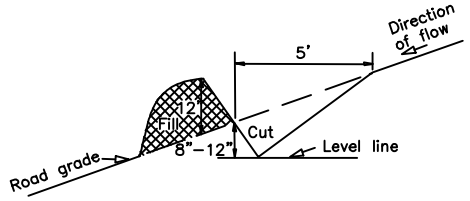
LOG BARRICADE



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".

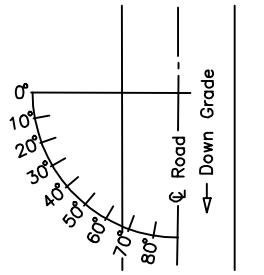


WATER BAR



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

SKEW DIAGRAM



WATER BAR SPACING *

ROAD GRADE	LOAM OR CLAY LOAM	DECOMPOSED GRANITE
%	FEET	FEET
4–6	400	300
7–9	300**	200**
10–14	200	150
15–20	150	90
21–40	90	50
41–60	50	25

* DISTANCES ARE MAXIMUM.

** ON GRADES IN EXCESS OF 10% CONSTRUCT WATER BARS.

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

DRAINAGE & EROSION CONTROL INSTALLATION

DESIGNED	BLM
REVIEWED	
APPROVED	
DRAWN DCM	SCALE NONE
DATE October 2009	SHEET 1 OF 1
DRAWING NO.	OR-11-9113.4-8

United States of America

Department of the Interior

Bureau Of Land Management

Timber Sale Appraisal

District :	Medford	**Contract # :**	TS 14-08
Sale Name :	Musty Evans	**Job File # :**	M11306 & M11307
Sale Date :	06/26/2014	**Master Unit :**	Jackson
Appraisal Method :	16' MBF	**Planning Unit :**	Butte Falls

Contents

Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	32S	3W	34	Lot 2,3.
O&C	32S	3W	35	Lot 2,3,4.
O&C	33S	3W	3	Lot 2, 3, SW1/4SW1/4.
O&C	33S	3W	4	Lot 4
O&C	33S	3W	5	Lot 2, 3, 4, SE1/4 NW1/4,SW1/4 NE1/4 ,E1/2 SW1/4, NE1/4 SE1/4, S1/2 SE1/4.
O&C	33S	3W	9	NE1/4 NE1/4, NW1/4.
O&C	33S	3W	17	W1/2 NE1/4, SE1/4 NE1/4.
O&C	33S	3W	33	W1/2 NE1/4, SE1/4 NE1/4.
O&C	33S	4W	23	NW1/4.
O&C	34S	4W	1	Lot 1, 2, SE1/4 NE1/4, E1/2 SE1/4.
O&C	34S	4W	11	SW1/4 NW1/4, NW1/4 SW1/4.
O&C	35S	3W	1	Lot 4, SW1/4 NW1/4, NW1/4 SW1/4.
O&C	35S	3W	3	SW1/4, S1/2 SE1/4.
O&C	35S	3W	7	E1/2 SW1/4, NW1/4 SE1/4,E1/2 SE1/4.
O&C	35S	3W	9	SE1/4 SW1/4, SW1/4 SE1/4, N1/2 SW1/4.
O&C	35S	3W	10	NE1/4 NW1/4, NW1/4 NE1/4.

Cutting Volume (16' MBF)

Unit	DF	WF	WH	IC	PP	SP			Total	Regen	Partial	ROW
1-1S	154			0	1				155	0	13	0
1-3	163			16					179	0	16	0
10-3	83			0	1				84	0	7	0
11-1	153			15					168	0	15	0
17-10	96	13	2	1	1				113	0	6	0
17-2	96	13	2	1	1				113	0	6	0
3-4	439			1	4				444	0	37	0
3-6	36			0	0				36	0	3	0
3-7	48	7	1	0	0				56	0	3	0
33-1	384	54	9	3	3				453	0	24	0
34-1	480	67	11	2	4				564	0	30	0
35-3	320	45	7	2	2				376	0	20	0
35-5	96	14	4	1	1				116	0	8	0
4-18	80	11	2	1	1				95	0	7	0
5-9	224	31	5	1	2				263	0	14	0
5-2	128	18	3	1	1				151	0	8	0
5-4	128	18	3	1	1				151	0	8	0
5-5	48	7	1	0	0				56	0	3	0
5-7	48	7	1	0	0				56	0	3	0
5-8	112	16	3	1	1				133	0	7	0
7-1	249			1	2				252	0	21	0
7-2	119			0	1				120	0	10	0
9-3	71			0	1				72	0	6	0
9-5	119			0	1				120	0	10	0
9-7	80	11	2	1	1				95	0	5	0
9-9	176	25	4	1	1				207	0	11	0
1-1N	29					3			32	0	3	0
23-1A	3								3	0	3	0
23-1B	52	14		0					66	0	17	0
35-4	48	7							55	0	2	0
Totals	**4,262**	**378**	**60**	**50**	**31**	**3**			**4,784**	**0**	**326**	**0**

Logging Costs per 16' MBF

Stump to Truck	$	371.75
Transportation	$	45.27
Road Construction	$	33.87
Road Amortization	$	0.00
Road Maintenance	$	12.42

Other Allowances :

Fuels Treatment	$ 1.00
Misc	$ 4.77
Other Costs	$ 2.31
Total Other Allowances :	**$ 8.08**

Total Logging Costs per 16' MBF	$	**471.40**

Utilization Centers

Center #1 : White City, OR	30	Miles
Center #2	0	Miles
Weighted distance to Utilization Centers	30	

Length of Contract

Cutting and Removal Time	36	Months
Personal Property Removal Time	1	Months

Profit & Risk

Total Profit & Risk		10 %
Basic Profit & Risk	8 % + Additional Risk	2 %
Back Off		2 %

Tract Features

Avg Log	Douglas-fir : 87 bf	All : 86 bf
Recovery	Douglas-fir : 91 %	All : 91 %
Salvage	Douglas-fir : 0 %	All : 0 %

Avg Volume (16' MBF per Acre)	15
Avg Yarding Slope	50 %
Avg Yarding Distance (feet)	2,131
Avg Age	120
Volume Cable	2 %
Volume Ground	1 %
Volume Aerial	97 %
Road Construction Stations	0.00
Road Improvement Stations	0.00
Road Renovation Stations	0.00
Road Decomission Stations	0.00

Cruise

Cruised By	Parks,Darner
Date	03/01/2014
Type of Cruise	Fixed and 100%
County, State	Jackson, OR

Net Volume

Green (16' MBF)	4,784
Salvage (16' MBF)	0
Douglas-fir Peeler	84
Export Volume	0
Scaling Allowance ($0.50 per 16' MBF)	$2,392.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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	11,195	4,262	$ 594.21	$ 59.42	$ 471.40		$ 1.27	$ 62.10	$ 264,670.20
WF	889	378	$ 520.48	$ 52.05	$ 471.40		$(0.06)	**$ 52.00**	$ 19,656.00
WH	205	60	$ 535.23	$ 53.52	$ 471.40		$ 0.21	**$ 53.50**	$ 3,210.00
IC	451	50	$ 387.76	$ 38.78	$ 471.40		$(2.45)	**$ 38.80**	$ 1,940.00
PP	227	31	$ 314.02	$ 31.40	$ 471.40		$(3.78)	**$ 31.40**	$ 973.40
SP	4	3	$ 270.41	$ 27.04	$ 471.40		$(4.56)	**$ 27.00**	$ 81.00
Totals	**12,971**	**4,784**							**$ 290,530.60**

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Douglas-fir			2.0	75.0	21.0	2.0
Ponderosa Pine				32.0	58.0	10.0
Incense-cedar				52.0	35.0	13.0
White Fir			1.0	83.0	15.0	1.0
Western Hemlock				64.0	32.0	4.0
Sugar Pine				32.0	58.0	10.0

Marginal Log Volume

Species	Grade #7	Grade #8
Douglas-fir		
Ponderosa Pine		
Incense-cedar		
White Fir		
Western Hemlock		
Sugar Pine		

Appraised By : Parks, Corey **Date :** 04/11/2014

Area Approval By : Rentz, George **Date :** 05/06/2014

District Approval By : **Date :**

Prospectus

Appraisal Method : (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	11,195	4,262	3,460	
White Fir	889	378	311	
Western Hemlock	205	60	51	
Incense-cedar	451	50	37	
Ponderosa Pine	227	31	24	
Sugar Pine	4	3	2	
Total	**12,971**	**4,784**	**3,885**	

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
5,239	12,971	403	18.9	5,083	59,089	86

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
59,089	1,936	61,025	4.7	4,784	5,239	91 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
4,674	11,195	417	19.0	4,527	52,087	87

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
52,087	1,634	53,721	4.8	4,262	4,674	91 %

Cutting Areas

Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres
1-1S		13		13
1-3		16		16
10-3		7		7
11-1		15		15
17-10		6		6
17-2		6		6
3-4		37		37
3-6		3		3
3-7		3		3
33-1		24		24
34-1		30		30
35-3		20		20
35-5		8		8
4-18		7		7
5-9		14		14
5-2		8		8
5-4		8		8
5-5		3		3
5-7		3		3
5-8		7		7
7-1		21		21
7-2		10		10
9-3		6		6
9-5		10		10
9-7		5		5
9-9		11		11
1-1N		3		3
23-1A		3		3
23-1B		17		17
35-4		2		2
Totals :		**326**		**326**

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	4,262		
White Fir	378		
Western Hemlock	60		
Incense-cedar	50		
Ponderosa Pine	31		
Sugar Pine	3		
Sale Totals	**4,784**		

Unit Details (16' MB)

Unit 10-3 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	83		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**84**		

Unit 11-1 **15 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	153		
Incense-cedar	15		
Unit Totals	**168**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 1-1N **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	29		
Sugar Pine	3		
Unit Totals	**32**		

Unit 1-1S **13 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	154		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**155**		

Unit 1-3 **16 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	163		
Incense-cedar	16		
Unit Totals	**179**		

Unit 17-10 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	96		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	13		
Unit Totals	**113**		

Unit 17-2 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	96		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	13		
Unit Totals	**113**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 23-1A **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	3		
Unit Totals	**3**		

Unit 23-1B **17 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	52		
Incense-cedar			
White Fir	14		
Unit Totals	**66**		

Unit 33-1 **24 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	384		
Incense-cedar	3		
Ponderosa Pine	3		
Western Hemlock	9		
White Fir	54		
Unit Totals	**453**		

Unit 3-4 **37 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	439		
Incense-cedar	1		
Ponderosa Pine	4		
Unit Totals	**444**		

Unit 34-1 **30 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	480		
Incense-cedar	2		
Ponderosa Pine	4		
Western Hemlock	11		
White Fir	67		
Unit Totals	**564**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 35-3 **20 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	320		
Incense-cedar	2		
Ponderosa Pine	2		
Western Hemlock	7		
White Fir	45		
Unit Totals	**376**		

Unit 35-4 **2 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
White Fir	7		
Unit Totals	**55**		

Unit 35-5 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	96		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	4		
White Fir	14		
Unit Totals	**116**		

Unit 3-6 **3 Acres** **Value per Acre : $0.00**

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

Unit 3-7 **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
Incense-cedar			
Ponderosa Pine			
Western Hemlock	1		
White Fir	7		
Unit Totals	**56**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 4-18 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	80		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	11		
Unit Totals	**95**		

Unit 5-2 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	128		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	3		
White Fir	18		
Unit Totals	**151**		

Unit 5-4 **8 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	128		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	3		
White Fir	18		
Unit Totals	**151**		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
Incense-cedar			
Ponderosa Pine			
Western Hemlock	1		
White Fir	7		
Unit Totals	**56**		

Unit 5-7 **3 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	48		
Incense-cedar			
Ponderosa Pine			
Western Hemlock	1		
White Fir	7		
Unit Totals	**56**		

Unit 5-8 **7 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	112		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	3		
White Fir	16		
Unit Totals	**133**		

Unit 5-9 **14 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	224		
Incense-cedar	1		
Ponderosa Pine	2		
Western Hemlock	5		
White Fir	31		
Unit Totals	**263**		

Unit 7-1 **21 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	249		
Incense-cedar	1		
Ponderosa Pine	2		
Unit Totals	**252**		

Unit 7-2 **10 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	119		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**120**		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Unit 9-3 **6 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	71		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**72**		

Unit 9-5 **10 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	119		
Incense-cedar			
Ponderosa Pine	1		
Unit Totals	**120**		

Unit 9-7 **5 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	80		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	2		
White Fir	11		
Unit Totals	**95**		

Unit 9-9 **11 Acres** **Value per Acre : $0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	176		
Incense-cedar	1		
Ponderosa Pine	1		
Western Hemlock	4		
White Fir	25		
Unit Totals	**207**		

Sale Volume Totals

326 **Acres** 0 **Regen** 326 **Partial** 0 **R/W** 30 **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	11,195	52,087	1,634	4,262	4,527	4,674	3,460	3,675	3,799	0	0	0
White Fir	889	4,148	166	378	402	407	311	330	335	0	0	0
Western Hemlock	205	923	19	60	63	64	51	54	54	0	0	0
Incense-cedar	451	1,132	54	50	53	54	37	40	41	0	0	0
Ponderosa Pine	227	778	58	31	35	37	24	27	28	0	0	0
Sugar Pine	4	21	5	3	3	3	2	2	2	0	0	0
Totals	**12,971**	**59,089**	**1,936**	**4,784**	**5,083**	**5,239**	**3,885**	**4,128**	**4,259**	**0**	**0**	**0**

Unit Totals

Unit : 1-1S 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	424	2,018	78	177	164	154
Ponderosa Pine	14	43	2	2	2	1
Incense-cedar	2	9				
Unit Totals	**440**	**2,070**	**80**	**179**	**166**	**155**

Unit : 1-3 16 **Acres** 0 **Regen** 16 **Partial** 0 **R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	612	2,531	66	175	174	163
Incense-cedar	103	263	28	17	17	16
Unit Totals	**715**	**2,794**	**94**	**192**	**191**	**179**

Unit : 10-3 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	228	1,087	42	95	89	83
Ponderosa Pine	8	23	1	1	1	1
Incense-cedar	1	5				
Unit Totals	**237**	**1,115**	**43**	**96**	**90**	**84**

Unit : 11-1 **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	573	2,373	62	164	163	153
Incense-cedar	97	247	26	16	15	15
Unit Totals	**670**	**2,620**	**88**	**180**	**178**	**168**

Unit : 17-10 **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	218	1,066	29	103	102	96
White Fir	26	136	6	15	14	13
Western Hemlock	8	34	1	2	2	2
Incense-cedar	8	20		1	1	1
Ponderosa Pine	4	16	1	1	1	1
Unit Totals	**264**	**1,272**	**37**	**122**	**120**	**113**

Unit : 17-2 **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	218	1,066	29	103	102	96
White Fir	26	136	6	15	14	13
Western Hemlock	8	34	1	2	2	2
Incense-cedar	8	20		1	1	1
Ponderosa Pine	4	16	1	1	1	1
Unit Totals	**264**	**1,272**	**37**	**122**	**120**	**113**

Unit : 3-4 **37 Acres** **0 Regen** **37 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,200	5,744	222	503	468	439
Ponderosa Pine	40	121	7	4	4	4
Incense-cedar	7	27		1	1	1
Unit Totals	**1,247**	**5,892**	**229**	**508**	**473**	**444**

Unit : 3-6 **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	98	466	18	41	38	36
Incense-cedar	1	2				
Ponderosa Pine	3	10	1			
Unit Totals	**102**	**478**	**19**	**41**	**38**	**36**

Unit : 3-7 **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	109	533	14	52	51	48
White Fir	13	68	3	7	7	7
Western Hemlock	4	17		1	1	1
Incense-cedar	4	10				
Ponderosa Pine	2	8	1			
Unit Totals	**132**	**636**	**18**	**60**	**59**	**56**

Unit : 33-1 **24 Acres** **0 Regen** **24 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	870	4,263	115	413	407	384
White Fir	104	544	25	58	57	54
Western Hemlock	30	137	3	9	9	9
Incense-cedar	33	79		3	3	3
Ponderosa Pine	16	63	5	4	3	3
Unit Totals	**1,053**	**5,086**	**148**	**487**	**479**	**453**

Unit : 34-1 **30 Acres** **0 Regen** **30 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,088	5,328	144	515	507	480
White Fir	130	681	31	73	74	67
Western Hemlock	38	171	3	14	13	11
Ponderosa Pine	21	79	7	5	5	4
Incense-cedar	41	99		3	3	2
Unit Totals	**1,318**	**6,358**	**185**	**610**	**602**	**564**

Unit : 35-3 **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	725	3,552	96	345	340	320
White Fir	87	454	21	48	48	45
Western Hemlock	25	114	2	8	8	7
Ponderosa Pine	14	52	5	3	3	2
Incense-cedar	27	66		2	2	2
Unit Totals	**878**	**4,238**	**124**	**406**	**401**	**376**

Unit : 35-5 **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	218	1,071	29	104	103	96
White Fir	26	137	6	15	14	14
Western Hemlock	11	51	1	4	4	4
Incense-cedar	12	30		1	1	1
Ponderosa Pine	6	24	2	1	1	1
Unit Totals	**273**	**1,313**	**38**	**125**	**123**	**116**

Unit : 4-18 **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	181	888	24	86	85	80
White Fir	22	113	5	12	12	11
Western Hemlock	6	28	1	2	2	2
Incense-cedar	7	17		1	1	1
Ponderosa Pine	3	13	1	1	1	1
Unit Totals	**219**	**1,059**	**31**	**102**	**101**	**95**

Unit : 5-9 **14 Acres** **0 Regen** **14 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	508	2,487	67	241	238	224
White Fir	61	318	14	34	33	31
Western Hemlock	18	80	2	5	5	5
Incense-cedar	19	46		2	2	1
Ponderosa Pine	10	37	3	2	2	2
Unit Totals	**616**	**2,968**	**86**	**284**	**280**	**263**

Unit : 5-2 **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	290	1,421	38	138	136	128
White Fir	35	181	8	19	19	18
Western Hemlock	10	46	1	3	3	3
Incense-cedar	11	26		1	1	1
Ponderosa Pine	5	21	2	1	1	1
Unit Totals	**351**	**1,695**	**49**	**162**	**160**	**151**

Unit : 5-4 **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	290	1,421	38	138	136	128
White Fir	35	181	8	19	19	18
Western Hemlock	10	46	1	3	3	3

Incense-cedar	11	26		1	1	1
Ponderosa Pine	5	21	2	1	1	1
Unit Totals	**351**	**1,695**	**49**	**162**	**160**	**151**

Unit : 5-5 **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	109	533	14	52	51	48
White Fir	13	68	3	7	7	7
Western Hemlock	4	17		1	1	1
Ponderosa Pine	2	8	1			
Incense-cedar	4	10				
Unit Totals	**132**	**636**	**18**	**60**	**59**	**56**

Unit : 5-7 **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	109	533	14	52	51	48
White Fir	13	68	3	7	7	7
Western Hemlock	4	17		1	1	1
Incense-cedar	4	10				
Ponderosa Pine	2	8	1			
Unit Totals	**132**	**636**	**18**	**60**	**59**	**56**

Unit : 5-8 **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	254	1,243	34	121	119	112
White Fir	30	159	7	17	17	16
Western Hemlock	9	40	1	3	3	3
Incense-cedar	10	23		1	1	1
Ponderosa Pine	5	18	2	1	1	1
Unit Totals	**308**	**1,483**	**44**	**143**	**141**	**133**

Unit : 7-1 **21 Acres** **0 Regen** **21 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	684	3,260	126	285	266	249
Ponderosa Pine	23	69	4	3	2	2
Incense-cedar	4	15		1	1	1
Unit Totals	**711**	**3,344**	**130**	**289**	**269**	**252**

Unit : 7-2 **10 Acres** **0 Regen** **10 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	326	1,552	60	136	126	119
Ponderosa Pine	11	33	2	1	1	1
Incense-cedar	2	7				
Unit Totals	**339**	**1,592**	**62**	**137**	**127**	**120**

Unit : 9-3 **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	195	931	36	82	76	71
Ponderosa Pine	7	20	1	1	1	1
Incense-cedar	1	4				
Unit Totals	**203**	**955**	**37**	**83**	**77**	**72**

Unit : 9-5 **10 Acres** **0 Regen** **10 Partial** **0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	326	1,552	60	136	126	119
Ponderosa Pine	11	33	2	1	1	1
Incense-cedar	2	7				
Unit Totals	**339**	**1,592**	**62**	**137**	**127**	**120**

Unit : 9-7 **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	181	888	24	86	85	80
White Fir	22	113	5	12	12	11
Western Hemlock	6	28	1	2	2	2
Incense-cedar	7	17		1	1	1
Ponderosa Pine	3	13	1	1	1	1
Unit Totals	**219**	**1,059**	**31**	**102**	**101**	**95**

Unit : 9-9 **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	399	1,954	53	190	187	176
White Fir	48	250	11	27	26	25
Western Hemlock	14	63	1	4	4	4
Ponderosa Pine	8	29	3	2	2	1
Incense-cedar	15	36		1	1	1

Unit Totals	**484**	**2,332**	**68**	**224**	**220**	**207**

Unit : 1-1N **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	81	335	21	31	30	29
Sugar Pine	4	21	5	3	3	3
Unit Totals	**85**	**356**	**26**	**34**	**33**	**32**

Unit : 23-1A **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	47	91	11	3	3	3
Unit Totals	**47**	**91**	**11**	**3**	**3**	**3**

Unit : 23-1B **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	524	1,373	46	56	54	52
White Fir	187	473		15	15	14
Incense-cedar	10	11				
Unit Totals	**721**	**1,857**	**46**	**71**	**69**	**66**

Unit : 35-4 **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	110	527	24	51	50	48
White Fir	11	68	4	7	7	7
Unit Totals	**121**	**595**	**28**	**58**	**57**	**55**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Stump to Truck Costs

Total (16' MBF)

Total Stump to Truck Costs	Net Volume	Cost / Net Volume
$ 1,778,453.81	4,784	$ 371.75

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Wheel Skidder	GM MBF	60	$ 151.94	$ 9,116.40
Med Twr=40-70	GM MBF	102	$ 230.65	$ 23,526.30
Helicopter	GM MBF	4,921	$ 350.03	$ 1,722,497.63
Subtotal				**$ 1,755,140.33**

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Cat anchor	hour	24	$ 75.00	$ 1,800.00
Flaggers	hour	576	$ 18.23	$ 10,500.48
Directional Falling	MBF	478	$ 8.50	$ 4,063.00
Temp spur	hour	8	$ 75.00	$ 600.00
Lift Tree/support	tree	3	$ 150.00	$ 450.00
Subtotal				**$ 17,413.48**

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Yarder / Loader	10	$ 150.00	$ 1,500.00
Skidder	16	$ 110.00	$ 1,760.00
Other	24	$ 110.00	$ 2,640.00
Subtotal			**$ 5,900.00**

Other Allowances Costs

Total (16' MBF)

Total Other Allowances Costs	Net Volume	Cost / Net Volume *	Total Buy Out Cost
$38,664.84	4,784	$8.08	$0.00

Fuels Treatment

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Lop and Scatter-Lvl 1	$ 4,800.00	$ 1.00	N	$ 0.00
Subtotal	**$ 4,800.00**	**$ 1.00**		**$ 0.00**

Misc

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Purchaser Tree Marking	$ 22,400.00	$ 4.68		$ 0.00
Waterbar Yarder Corridors	$ 437.52	$ 0.09		$ 0.00
Subtotal	**$ 22,837.52**	**$ 4.77**		**$ 0.00**

Other Costs

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Equipment Washing	$ 1,480.00	$ 0.31	N	$ 0.00
Equipment Washing	$ 750.00	$ 0.16	N	$ 0.00
Skid Location	$ 145.84	$ 0.03	N	$ 0.00
Landing Clean up	$ 3,200.00	$ 0.67	N	$ 0.00
Ripping	$ 415.00	$ 0.09	N	$ 0.00
Waterbar Skids	$ 375.00	$ 0.08	N	$ 0.00
Hand Seeding @ 17 lb seed per hour	$ 1,100.00	$ 0.23	N	$ 0.00
Mulching (2 hours/5 bales)	$ 3,000.00	$ 0.63	N	$ 0.00
Barricades	$ 561.48	$ 0.12	N	$ 0.00
Subtotal	**$ 11,027.32**	**$ 2.31**		**$ 0.00**

* Cost / Net Volume has been rounded to the nearest $0.01 Subtotals may not tie to Sale Total Cost / Net Volume.

General

Yarding & Loading

Cat anchor=potential deadman anchors in units 1-1N and 23-1B.
move-ins = hours.
Temp spur= temp spur construction in unit 23-1B.
Heli support move-in included in Stump To Truck costs.
Directional felling = contract stips.
Flaggers = Helicopter operations.
Other move-in = Ripping/waterbar cat.
Lift tree/support may be needed in Unit 23-1B depending on yarding pattern.

Road Costs

(see Engineering Appraisal for details).

Transportation

(see Transportation appendix for details).

Other Allowances

See contract for specifications of Other Allowances
Purchaser Tree Marking see Exhibit X.
Equipment washing @$370 / piece = yarder / loader.
Equipment washing @$250 / piece = skidder + cat.
Ripping= pre-designated skids.
Waterbar Yarder corridors= Per Authorized Officer (23-1B,1-1N).
Hand seed/mulch= pre-designated skids, 100' down skids and landings of cat units and yarder corridors.
Barricades= blocking cat skids, predesignated skids for 100' with loader.
Landing clean up costs- Loader, and includes covering.

Prospectus

Fixed plot crz. 1/10 ac plots. Crz intesity = 1plot per 2ac. Plot center marked in field by white flag in ground and white/pink flags above plot center. Scale for Payment sale. Combined SE=16.1%.

Sale: Musty Evans
Sale Date:
Prep. By : BSikes
Tract No:

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) $0.00/4784 MBF = $0.00/MBF 1/
(R-3b) (Tot Sale Vol)

---

2) Road Maintenance Obligation:

$44770.54 (2.1) + $55.79 (3.1) + $28.18 (3.2) + $152.12 (5.1) = $45006.63 (R-2)

3) Other Maintenance Payments:

$847.02 (4.1)

4). Purchaser Maintenance Allowances:

(5.2A) Move In	$1161.05
(5.2B) Culverts, Catch Basins, Downspouts	$810.15
(5.2C) Grading, Ditching	$3799.32
(5.2D) Slide Removal and Slump Repair	$0.00
(5.2E) Dust Palliative (Water)	$7797.60
(5.2F) Surface Repair (Aggregate)	$1439.00
(5.2G) Other	$0.00

Total (5.2) = $13568.12 (R-2 & Ex. D)

2)+3)+4) Total = $59,421.77/4784 MBF = $12.42/MBF 1/
(Total Sale Vol)

Costs are estimates only and do not include Profit and Risk.
1/ Enter on Timber Sale Summary Form OSO 5420-1.

1) Road Use Fees - Amortization

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

(1.1) Subtotal $0.00

2) BLM Maintenance - Timber Haul 1/ 2/

Road Number and Segment	A N	Surf Type	Mi	x	Maint Fee	x	Vol MBF	=	Total Maint
33-2-07.01A	N	ASC	0.10		1.46		547		$79.86
33-3-03.00B	N	ASC	0.80		1.46		358		$418.14
33-2-17.00A	A	ASC	0.76		1.25		547		$519.65
33-2-07.00A	A	ASC	0.42		1.25		547		$287.18
33-2-17.00C1	N	ASC	0.52		1.46		547		$415.28
33-2-07.02A	N	ASC	0.60		1.46		547		$479.17
33-3-12.01A3	N	ASC	0.52		1.46		547		$415.28
33-3-12.02	N	ASC	1.59		1.46		547		$1269.81
33-2-33.00	A	BST	4.44		0.71		547		$1724.36
33-3-03.00C-D	A	ASC	3.11		1.25		905		$3518.19
33-3-03.00C	A	ASC	0.23		1.25		453		$130.24
33-3-03.00D	A	ASC	0.30		1.25		1263		$473.63
33-3-30.01	N	ASC	3.48		1.46		226		$1148.26
34-3-24.00C-D	A	BST	2.70		0.71		1827		$3502.36
34-3-24.00A	A	BST	6.50		0.71		2506		$11565.19
34-3-24.00B	A	BST	3.86		0.71		2053		$5626.45
34-3-24.00B	A	BST	3.26		0.71		1827		$4228.77
33-3-08.00	N	ASC	0.81		1.46		95		$112.35
34-4-15.00A	A	ASC	0.30		1.25		69		$25.88
34-4-15.00B-J1	N	ASC	5.09		1.46		69		$512.77
33-4-23.01	A	ASC	0.78		1.25		69		$67.28
33-4-23.03A	A	ASC	0.28		1.25		69		$24.15
33-4-23.03B	N	PRR	0.20		1.46		69		$20.15
34-4-01.01	N	ASC	1.30		1.46		211		$400.48
34-4-01.00	N	ASC	1.52		1.46		211		$468.25
34-4-15.02A1	A	ASC	0.95		1.25		379		$450.06
34-4-15.02A2	N	ASC	0.18		1.46		379		$99.60
34-4-15.02A2	N	ASC	0.92		1.46		211		$283.42
34-4-15.02A3-B1	N	ASC	1.36		1.46		211		$418.96
35-3-17.00	N	ASC	1.71		1.46		192		$479.35
35-3-8.00	N	ASC	1.14		1.46		192		$319.56
35-3-7.00A	A	BST	0.13		0.71		564		$52.06
35-3-7.00B-D	A	BST	0.69		0.71		192		$94.06
35-3-7.00E-F	N	ASC	0.62		1.46		192		$173.80
35-3-28.01B-E	N	ASC	2.64		1.46		719		$2771.31
35-3-15.05	N	ASC	4.42		1.46		155		$1000.25
33-3-04.00	N	ASC	0.61		1.46		95		$84.61
33-2-7.02B	N	ASC	1.00		1.46		547		$798.62
33-2-17.00B	N	ASC	0.35		1.46		547		$279.52
FS3229-200	N	NAT	0.35		0.97		95		$32.25

(2.1) Subtotal $44770.54

1/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
2/ Include lump sum logging damage repair

3) Third Party Maintenance and Rockwear

Agrmnt	Road	MAINTENANCE (3.1)	ROCKWEAR (3.2) 1/ 2/

Number	Number	Mi	x	Fee	x	MBF =	Maint	Fee	x	MBF =	Rkwear
M660K	35-3-28.01A	0.08	x	0.97		719	$55.79	0.49		719	$28.18

(3.1) Subtotal $55.79 (3.2) Subtotal $28.18

1/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
2/ Include lump sum logging damage repair

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	FS3229-200	0.37	x	0.35	0.370		95	$12.30
USFS	FS3231-600	0.37	x	4.00	0.370		564	$834.72

(4.1) Subtotal $847.02

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)/1/2

Road No 1/ and Segment	A N	Mi	RkWear x Fee	x	Vol MBF =	Total RkWear
33-3-33.01	A	0.53	0.00		453	$0.00
Anderson Rd	N	0.42	0.00		372	$0.00
35-3-28.01F1	N	0.36	0.49		564	$99.49
35-3-28.01F2	N	0.24	0.00		564	$0.00
35-3-28.01G	N	0.24	0.00		564	$0.00
35-3-28.01H	N	0.53	0.00		564	$0.00
35-3-10.00	N	0.36	0.00		564	$0.00
32-3-31.04	A	0.30	0.49		358	$52.63

(5.1) Subtotal $152.12

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	x	Move in	x	Cost/ 50 Mi	x	Dist Factor =	Sub-total
Motor Grader:	1		1		$356.00		1.0035	$357.25
Back Hoe:	1		1		$356.00		1.0035	$357.25
Loader:					$356.00		0.59	$0.00
Water Truck:	1		1		$217.00		1.0035	$217.76
Dump Truck 2/:	1		1		$228.00		1.0035	$228.80

(5.2A) Total $1161.05

1/ Equipment limited to that allowed in Exhibit D.

Culvert Maintenance - Including Catchbasins and Downpipes 1/

Miles	x	Cost/Mi	=	Subtotal
3		270.05		$810.15

(5.2B) Total $810.15

1/ Does not include purchase or installation of culvert pipe.

Grading (Includes Ditches and Shoulders) 1/

	Miles	x	Cost/Mi	x Freq	= Subtotal
Blade Road:	6.50		519.72	1	$3378.18
Blade Ditch:	3.00		140.38	1	$421.14

(5.2C) Total $3799.32

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	x	Hours Each	x Equip Cost	= Subtotal
Grader:	0		0	139.10	$0.00
Loader:	0		0	91.63	$0.00
Backhoe:	0		0	66.05	$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
	2.35		5		0.5		30		2		30
Load & Haul =					0.5		30		2		30
Return trip =					0.5		30		2		30
								Total Hours =			90

Truck Cost: $86.64/Hr. x 90.0 Hours = $7797.60

(5.2E) Total $7797.60

1/ Allow water for all BLM maintaintained non-oiled roads.

Surface Repair (Aggregate)

Production Cost:	0 C.Y.	x $0.00/C.Y.		=	$0.00
Haul to Stockpile:	0 C.Y.	x $3.72/C.Y.	x 0.00 Mi	=	$0.00
Stockpile:	0 C.Y.	x $1.26/C.Y.		=	$0.00
Load from Stockpile:	100 C.Y.	x $1.39/C.Y.		=	$139.00
Haul from Stockpile:	100 C.Y.	x $2.32/C.Y.	x 5.00 Mi	=	$1160.00
Process with Grader:	100 C.Y.	x $1.40/C.Y.		=	$140.00

(5.2F) Total $1439.00

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

(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

Summary of All Roads and Projects Updated: 5/1/2013

T.S. Contract Name: Musty Evans Tract No: Sale Date:
Prepared by: BSikes Ph: x2286 Print Date: 5/6/2014 9:14:45 AM
Construction: 0.00 sta
Improve: 0.00 sta Renov: 1866.49 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing: 0.0 sta Grubbing: 0.0 acres	
Slash Treatment: 0.0 acres	
300 Excavation:	$0.00
Haul: 0 sta-yds	
400 Drainage:	$1,340.84
Culvert: 40 lf wt = 600 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$56,398.07
Blading 35.26 mi	
Surfacing:	$62,280.55
700 Quarry Name: Commercial-PitRun 200 cy	
1200 Quarry Name: BLM - 3/4" 2,788 cy	
700 Quarry Name: BLM - Pitrun 15 cy	
700 Quarry Name: BLM - Class 3 25 cy	
1300 Geotextiles:	$63.16
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 21.3 acres	$9,435.73
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$22,580.08
Mobilization: Const. $9,940.00 Surf. $0.00	$9,940.00
Quarry Development:	$0.00
Total: 4,784 mbf @ $33.871/mbf =	$162,038.43

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 32-3-31.04 Road Name: Cedar Mtn. Ridge Sp.
Road Renovation: 0.30 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$554.66
Blading 0.30 mi	
Surfacing:	$6,486.00
Quarry Name: Commercial-PitRun 200 cy	
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	$334.01
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$2,965.64
Mobilization: Const. $675.76 Surf. $0.00	$675.76
Quarry Development:	$0.00
Total:	$11,016.07

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 32-3-31.04 Road Name: Cedar Mtn. Ridge Sp.

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.30 mi = $155.92
  Compaction: $1329.15/mi x 0.30 mi = $398.75

Subtotal: $554.66

Section 700 Pitrun Quarry Name: Commercial-PitRun

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									200cy

  Rock Volume = 200cy
  Production: $2.60/cy x 200cy = $520.00
  Royalty: $8.00/cy x 200cy = $1,600.00
  Processing: $1.40/cy x 200cy = $280.00
  Compaction: $0.79/cy x 200cy = $158.00
  Stockpiling: $1.39/cy x 200cy = $278.00
  Basic Rock Haul cost: $0.93/cy x 200cy = $186.00
  Rock Haul -15% grades: $1.39/cy-mi x 200cy x 8.00 mi= $2,224.00
  Rock Haul St& Co Roads: $0.62/cy-mi x 200cy x 10.00 mi= $1,240.00

Subtotal: $6,486.00

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: $1113.36/acre x 0.30 acres = $334.01

Subtotal: $334.01

Section 2300 Engineering:

Subtotal: $0.00

Section 2400 Minor Concrete:

Subtotal: $0.00

Section 2500 Gabions:

Subtotal: $0.00

Section 8000 Miscellaneous:
  Helicopter Landing Const.
   D8 with rippers 12 hr x $205.47/hr = $2,465.64
  Helicopter Landing Decom.

Road Number: 32-3-31.04 Cedar Mtn. Ridge Sp. Continued

Seed and Mulch .5 acre x $1,000.00/acre = $500.00

Subtotal: $2,965.64

Mobilization:
Construction - 6.80% of total Costs = $675.76
Surfacing - 6.61% by rock volume = $0.00

Subtotal: $675.76

Quarry Development:
Based on 6.61% of total rock volume

Subtotal: $0.00

Total: $11,016.07

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-2-07.00 Road Name: Angel Camp Top Sp
Road Renovation: 0.42 mi 12 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$722.95
Blading 0.42 mi	
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:	$0.00
Mobilization: Const. $47.25 Surf. $0.00	$47.25
Quarry Development:	$0.00
Total:	$770.20

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-2-07.00 Road Name: Angel Camp Top Sp

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.42 mi = $218.28
  Pull Ditches: $140.38/mi x 0.42 mi = $58.96
  Compaction: $1329.15/mi x 0.25 mi = $332.29
  Clean Culverts: $270.05/mi x 0.42 mi = $113.42

Subtotal: $722.95

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:

Subtotal: $0.00

Mobilization:
  Construction - 0.48% of total Costs = $47.25
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $47.25

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $770.20

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-2-07.01 Road Name: North Roundtop ML
Road Renovation: 0.10 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$159.47
Blading 0.10 mi	
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:	$0.00
Mobilization: Const. $10.42 Surf. $0.00	$10.42
Quarry Development:	$0.00
Total:	$169.89

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-2-07.01 Road Name: North Roundtop ML

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.10 mi = $51.97
  Pull Ditches: $140.38/mi x 0.10 mi = $14.04
  Compaction: $1329.15/mi x 0.05 mi = $66.46
  Clean Culverts: $270.05/mi x 0.10 mi = $27.01

Subtotal: $159.47

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:

Subtotal: $0.00

Mobilization:
  Construction - 0.10% of total Costs = $10.42
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $10.42

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $169.89

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-2-07.02 Road Name: Angel Camp
Road Renovation: 1.60 mi 17 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,551.56
Blading 1.60 mi	
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:	$0.00
Mobilization: Const. $166.75 Surf. $0.00.....	$166.75
Quarry Development:	$0.00
Total:	$2,718.31

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-2-07.02 Road Name: Angel Camp

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 1.60 mi = $831.55
  Pull Ditches: $140.38/mi x 1.60 mi = $224.61
  Compaction: $1329.15/mi x 0.80 mi = $1,063.32
  Clean Culverts: $270.05/mi x 1.60 mi = $432.08

Subtotal: $2,551.56

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:

Subtotal: $0.00

Mobilization:
  Construction - 1.68% of total Costs = $166.75
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $166.75

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $2,718.31

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-2-17.00 Road Name: Angel Camp
Road Renovation: 1.63 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,606.05
Blading 1.63 mi	
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:	$0.00
Mobilization: Const. $170.31 Surf. $0.00	$170.31
Quarry Development:	$0.00
Total:	$2,776.36

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-2-17.00 Road Name: Angel Camp

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 1.63 mi = $847.14
  Pull Ditches: $140.38/mi x 1.63 mi = $228.82
  Compaction: $1329.15/mi x 0.82 mi = $1,089.90
  Clean Culverts: $270.05/mi x 1.63 mi = $440.18

Subtotal: $2,606.05

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:

Subtotal: $0.00

Mobilization:
  Construction - 1.71% of total Costs = $170.31
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $170.31

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $2,776.36

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-3-03.00 Road Name: Skeleton Mountain
Road Renovation: 4.44 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$7,080.58
Blading 4.44 mi	
Surfacing:	$51,119.62
Quarry Name: BLM - 3/4" 2,542 cy	
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:	$472.68
Mobilization: Const. $3,834.41 Surf. $0.00	$3,834.41
Quarry Development:	$0.00
Total:	$62,507.29

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-3-03.00 Road Name: Skeleton Mountain

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 4.44 mi = $2,307.56
  Pull Ditches: $140.38/mi x 4.44 mi = $623.29
  Compaction: $1329.15/mi x 2.22 mi = $2,950.71
  Clean Culverts: $270.05/mi x 4.44 mi = $1,199.02

Subtotal: $7,080.58

Section 1200 Crushed under 1 1/2 Quarry Name: BLM - 3/4"

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
2.60mi	14ft	16ft	4in						

  Rock Volume = 2,542cy
  Production: $9.09/cy x 2,542cy = $23,106.78
  Compaction: $0.79/cy x 2,542cy = $2,008.18
  Basic Rock Haul cost: $0.93/cy x 2,542cy = $2,364.06
  Rock Haul St& Co Roads: $0.62/cy-mi x 2,542cy x 15.00 mi= $23,640.60

Subtotal: $51,119.62

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:
  Musty Evans
   Water Truck 2000 Gal 6 hr x $78.78/hr = $472.68

Subtotal: $472.68

Mobilization:
  Construction - 38.58% of total Costs = $3,834.41

Road Number: 33-3-03.00 Skeleton Mountain Continued

Surfacing - 83.95% by rock volume = $0.00

Subtotal: $3,834.41

Quarry Development:
Based on 83.95% of total rock volume

Subtotal: $0.00

Total: $62,507.29

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-3-04.00 Road Name: Rockhead P3 Spur
Road Renovation: 0.61 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$880.50
Blading 0.61 mi	
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:	$0.00
Mobilization: Const. $57.54 Surf. $0.00	$57.54
Quarry Development:	$0.00
Total:	$938.05

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-3-04.00 Road Name: Rockhead P3 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: $519.72/mi x 0.61 mi = $317.03
  Compaction: $1329.15/mi x 0.30 mi = $398.75
  Clean Culverts: $270.05/mi x 0.61 mi = $164.73

Subtotal: $880.50

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:

Subtotal: $0.00

Mobilization:
  Construction - 0.58% of total Costs = $57.54
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $57.54

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $938.05

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-3-08.00 Road Name: Rockhead Spur
Road Renovation: 0.81 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,285.08
Blading 0.81 mi	
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:	$0.00
Mobilization: Const. $83.98 Surf. $0.00	$83.98
Quarry Development:	$0.00
Total:	$1,369.06

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-3-08.00 Road Name: Rockhead 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: $519.72/mi x 0.81 mi = $420.97
  Pull Ditches: $140.38/mi x 0.81 mi = $113.71
  Compaction: $1329.15/mi x 0.40 mi = $531.66
  Clean Culverts: $270.05/mi x 0.81 mi = $218.74

Subtotal: $1,285.08

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:

Subtotal: $0.00

Mobilization:
  Construction - 0.84% of total Costs = $83.98
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $83.98

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $1,369.06

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-3-12.01 Road Name: TP Spur
Road Renovation: 0.52 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$815.97
Blading 0.52 mi	
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:	$0.00
Mobilization: Const. $53.33 Surf. $0.00	$53.33
Quarry Development:	$0.00
Total:	$869.29

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-3-12.01 Road Name: TP 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: $519.72/mi x 0.52 mi = $270.25
  Pull Ditches: $140.38/mi x 0.52 mi = $73.00
  Compaction: $1329.15/mi x 0.25 mi = $332.29
  Clean Culverts: $270.05/mi x 0.52 mi = $140.43

Subtotal: $815.97

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:

Subtotal: $0.00

Mobilization:
  Construction - 0.54% of total Costs = $53.33
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $53.33

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $869.29

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-3-12.02 Road Name: Angel Camp
Road Renovation: 1.59 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,475.80
Blading 1.59 mi	
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: 1.5 acres	$835.02
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $216.37 Surf. $0.00	$216.37
Quarry Development:	$0.00
Total:	$3,527.19

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-3-12.02 Road Name: Angel Camp

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 1.59 mi = $826.35
  Pull Ditches: $140.38/mi x 1.59 mi = $223.20
  Compaction: $1329.15/mi x 0.75 mi = $996.86
  Clean Culverts: $270.05/mi x 1.59 mi = $429.38

Subtotal: $2,475.80

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: $556.68/acre x 1.50 acres = $835.02

Subtotal: $835.02

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 - 2.18% of total Costs = $216.37
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $216.37

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $3,527.19

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-3-30.01 Road Name: Sand Creek Divide
Road Renovation: 3.48 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$5,562.93
Blading 3.48 mi	
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:	$0.00
Mobilization: Const. $363.55 Surf. $0.00	$363.55
Quarry Development:	$0.00
Total:	$5,926.49

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-3-30.01 Road Name: Sand Creek Divide

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 3.48 mi = $1,808.63
  Pull Ditches: $140.38/mi x 3.48 mi = $488.52
  Compaction: $1329.15/mi x 1.75 mi = $2,326.01
  Clean Culverts: $270.05/mi x 3.48 mi = $939.77

Subtotal: $5,562.93

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:

Subtotal: $0.00

Mobilization:
  Construction - 3.66% of total Costs = $363.55
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $363.55

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $5,926.49

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-3-33.01 Road Name: 33-3-33.01
Road Renovation: 0.53 mi 12 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$714.88
Blading 0.44 mi	
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	$334.01
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$5,109.40
Mobilization: Const. $402.46 Surf. $0.00	$402.46
Quarry Development:	$0.00
Total:	$6,560.75

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-3-33.01 Road Name: 33-3-33.01

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.44 mi = $228.68
  Pull Ditches: $140.38/mi x 0.25 mi = $35.10
  Compaction: $1329.15/mi x 0.25 mi = $332.29
  Clean Culverts: $270.05/mi x 0.44 mi = $118.82

Subtotal: $714.88

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: $1113.36/acre x 0.30 acres = $334.01

Subtotal: $334.01

Section 2300 Engineering:

Subtotal: $0.00

Section 2400 Minor Concrete:

Subtotal: $0.00

Section 2500 Gabions:

Subtotal: $0.00

Section 8000 Miscellaneous:
  Helicopter Landing Const.
   D8 with rippers 16 hr x $205.47/hr = $3,287.52
  Helicopter Landing Decom.
   Seed and Mulch 1 acre x $1,000.00/acre = $1,000.00
   D8 with rippers 4 hr x $205.47/hr = $821.88

Subtotal: $5,109.40

Mobilization:
  Construction - 4.05% of total Costs = $402.46
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $402.46

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal:	$0.00
Total:	$6,560.75

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-4-23.01 Road Name: 33-4-23.01
Road Renovation: 0.87 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$1,407.35
Blading 0.87 mi	
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	$222.67
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $106.53 Surf. $0.00	$106.53
Quarry Development:	$0.00
Total:	$1,736.55

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-4-23.01 Road Name: 33-4-23.01

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.87 mi = $452.16
  Pull Ditches: $140.38/mi x 0.87 mi = $122.13
  Compaction: $1329.15/mi x 0.45 mi = $598.12
  Clean Culverts: $270.05/mi x 0.87 mi = $234.94

Subtotal: $1,407.35

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: $278.34/acre x 0.80 acres = $222.67

Subtotal: $222.67

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 - 1.07% of total Costs = $106.53
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $106.53

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $1,736.55

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 33-4-23.03 Road Name: 33-4-23.03
Road Renovation: 0.48 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$716.65
Blading 0.48 mi	
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	$556.68
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $83.22 Surf. $0.00	$83.22
Quarry Development:	$0.00
Total:	$1,356.54

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-4-23.03 Road Name: 33-4-23.03

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.48 mi = $249.47
  Pull Ditches: $140.38/mi x 0.48 mi = $67.38
  Compaction: $1329.15/mi x 0.25 mi = $332.29
  Clean Culverts: $270.05/mi x 0.25 mi = $67.51

Subtotal: $716.65

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: $1113.36/acre x 0.50 acres = $556.68

Subtotal: $556.68

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 - 0.84% of total Costs = $83.22
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $83.22

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $1,356.54

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 34-4-01.00 Road Name: May Creek Tie
Road Renovation: 1.52 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,410.69
Blading 1.52 mi	
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: 1.5 acres	$835.02
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $212.12 Surf. $0.00	$212.12
Quarry Development:	$0.00
Total:	$3,457.83

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 34-4-01.00 Road Name: May Creek 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: $519.72/mi x 1.52 mi = $789.97
  Pull Ditches: $140.38/mi x 1.52 mi = $213.38
  Compaction: $1329.15/mi x 0.75 mi = $996.86
  Clean Culverts: $270.05/mi x 1.52 mi = $410.48

Subtotal: $2,410.69

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: $556.68/acre x 1.50 acres = $835.02

Subtotal: $835.02

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 - 2.13% of total Costs = $212.12
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $212.12

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $3,457.83

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 34-4-01.01 Road Name: Battle Mt. Top Spur
Road Renovation: 1.30 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,073.14
Blading 1.30 mi	
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: 2.1 acres	$1,169.03
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $211.88 Surf. $0.00	$211.88
Quarry Development:	$0.00
Total:	$3,454.05

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 34-4-01.01 Road Name: Battle Mt. Top 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: $519.72/mi x 1.30 mi = $675.64
  Pull Ditches: $140.38/mi x 1.30 mi = $182.49
  Compaction: $1329.15/mi x 0.65 mi = $863.95
  Clean Culverts: $270.05/mi x 1.30 mi = $351.07

Subtotal: $2,073.14

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: $556.68/acre x 2.10 acres = $1,169.03

Subtotal: $1,169.03

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 - 2.13% of total Costs = $211.88
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $211.88

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $3,454.05

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 34-4-15.00 Road Name: Pleasant Creek
Road Renovation: 5.39 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$8,668.67
Blading 5.39 mi	
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: 5.2 acres	$1,447.37
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $661.11 Surf. $0.00	$661.11
Quarry Development:	$0.00
Total:	$10,777.15

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 34-4-15.00 Road Name: Pleasant Creek

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 5.39 mi = $2,801.29
  Pull Ditches: $140.38/mi x 5.39 mi = $756.65
  Compaction: $1329.15/mi x 2.75 mi = $3,655.16
  Clean Culverts: $270.05/mi x 5.39 mi = $1,455.57

Subtotal: $8,668.67

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: $278.34/acre x 5.20 acres = $1,447.37

Subtotal: $1,447.37

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 - 6.65% of total Costs = $661.11
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $661.11

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Road Number: 34-4-15.00 Pleasant Creek Continued

Total: $10,777.15

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 34-4-15.02 Road Name: Right Fork Pleasant
Road Renovation: 3.41 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$5,497.82
Blading 3.41 mi	
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: 3.3 acres	$918.52
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $419.32 Surf. $0.00	$419.32
Quarry Development:	$0.00
Total:	$6,835.67

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 34-4-15.02 Road Name: Right Fork Pleasant

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 3.41 mi = $1,772.25
  Pull Ditches: $140.38/mi x 3.41 mi = $478.70
  Compaction: $1329.15/mi x 1.75 mi = $2,326.01
  Clean Culverts: $270.05/mi x 3.41 mi = $920.87

Subtotal: $5,497.82

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: $278.34/acre x 3.30 acres = $918.52

Subtotal: $918.52

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 - 4.22% of total Costs = $419.32
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $419.32

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $6,835.67

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 35-3-10.00 Road Name: 35-3-28.01sp
Road Renovation: 0.21 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$1,340.84
Culvert: 40 lf wt = 600 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$474.45
Blading 0.21 mi	
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	$167.00
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$5,109.40
Mobilization: Const. $463.46 Surf. $0.00	$463.46
Quarry Development:	$0.00
Total:	$7,555.16

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 35-3-10.00 Road Name: 35-3-28.01sp

Section 200 Clearing and Grubbing:
Subtotal: $0.00

Section 300 Excavation:
Subtotal: $0.00

Section 400 Drainage:
Aluminized 18 inch 16 ga 40 lf x $22.43/lf x 1.2 = $1,076.64
Remove Temporary Culvert
Backhoe 18 inch 4 hr x $66.05/hr = $264.20
Subtotal: $1,340.84

Section 500 Renovation:
Blading: $519.72/mi x 0.21 mi = $109.14
Pull Ditches: $140.38/mi x 0.21 mi = $29.48
Compaction: $1329.15/mi x 0.21 mi = $279.12
Clean Culverts: $270.05/mi x 0.21 mi = $56.71
Subtotal: $474.45

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: $556.68/acre x 0.30 acres = $167.00
Subtotal: $167.00

Section 2300 Engineering:
Subtotal: $0.00

Section 2400 Minor Concrete:
Subtotal: $0.00

Section 2500 Gabions:
Subtotal: $0.00

Section 8000 Miscellaneous:
Helicopter Landing Const.
D8 with rippers 16 hr x $205.47/hr = $3,287.52
Helicopter Landing Decom.
Seed and Mulch 1 acre x $1,000.00/acre = $1,000.00
D8 with rippers 4 hr x $205.47/hr = $821.88
Subtotal: $5,109.40

Mobilization:
Construction - 4.66% of total Costs = $463.46

Surfacing - 0.00% by rock volume = $0.00

Subtotal: $463.46

Quarry Development:
Based on 0.00% of total rock volume

Subtotal: $0.00

Total: $7,555.16

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: 35-3-28.01 Road Name: Rt Fork Sardine Crk
Road Renovation: 1.37 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$2,271.17
Blading 1.37 mi	
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: 1.3 acres	$361.84
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$0.00
Mobilization: Const. $172.07 Surf. $0.00	$172.07
Quarry Development:	$0.00
Total:	$2,805.08

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 35-3-28.01 Road Name: Rt Fork Sardine Crk

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 1.37 mi = $712.02
  Pull Ditches: $140.38/mi x 1.37 mi = $192.32
  Compaction: $1329.15/mi x 0.75 mi = $996.86
  Clean Culverts: $270.05/mi x 1.37 mi = $369.97

Subtotal: $2,271.17

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: $278.34/acre x 1.30 acres = $361.84

Subtotal: $361.84

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 - 1.73% of total Costs = $172.07
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $172.07

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal: $0.00

Road Number: 35-3-28.01 Rt Fork Sardine Crk Continued

Total: $2,805.08

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: Anderson Rd Road Name: Anderson Road
Road Renovation: 0.42 mi 14 ft Subgrade 0 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$497.40
Blading 0.42 mi	
Surfacing:	$3,974.13
Quarry Name: BLM - 3/4" 246 cy	
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:	$2,465.64
Mobilization: Const. $453.36 Surf. $0.00	$453.36
Quarry Development:	$0.00
Total:	$7,390.53

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Anderson Rd Road Name: Anderson Road

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.42 mi = $218.28
  Compaction: $1329.15/mi x 0.21 mi = $279.12

Subtotal: $497.40

Section 1200 Crushed under 1 1/2 Quarry Name: BLM - 3/4"

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
0.36mi	14ft	14ft	3in						

  Rock Volume = 246cy
  Production: $9.09/cy x 246cy = $2,236.14
  Compaction: $0.79/cy x 246cy = $194.34
  Basic Rock Haul cost: $0.93/cy x 246cy = $228.78
  Rock Haul -15% grades: $1.39/cy-mi x 246cy x 0.50 mi= $170.97
  Rock Haul St& Co Roads: $0.62/cy-mi x 246cy x 7.50 mi= $1,143.90

Subtotal: $3,974.13

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:
  Helicopter Landing Const.
   D8 with rippers 8 hr x $205.47/hr = $1,643.76
  Helicopter Landing decom.
   D8 with rippers 4 hr x $205.47/hr = $821.88

Subtotal: $2,465.64

Mobilization:

Road Number: Anderson Rd Anderson Road Continued

Construction - 4.56% of total Costs = $453.36
Surfacing - 8.12% by rock volume = $0.00

Subtotal: $453.36

Quarry Development:
Based on 8.12% of total rock volume

Subtotal: $0.00

Total: $7,390.53

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: FS 3229-200 Road Name: FS
Road Renovation: 0.35 mi 14 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$591.38
Blading 0.35 mi	
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	$83.50
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$5,109.40
Mobilization: Const. $378.02 Surf. $0.00	$378.02
Quarry Development:	$0.00
Total:	$6,162.30

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: FS 3229-200 Road Name: FS

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 0.35 mi = $181.90
  Pull Ditches: $140.38/mi x 0.35 mi = $49.13
  Compaction: $1329.15/mi x 0.20 mi = $265.83
  Clean Culverts: $270.05/mi x 0.35 mi = $94.52

Subtotal: $591.38

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: $278.34/acre x 0.30 acres = $83.50

Subtotal: $83.50

Section 2300 Engineering:

Subtotal: $0.00

Section 2400 Minor Concrete:

Subtotal: $0.00

Section 2500 Gabions:

Subtotal: $0.00

Section 8000 Miscellaneous:
  Helicopter landing const.
   D8 with rippers 16 hr x $205.47/hr = $3,287.52
  Helicopter Landing decom.
   D8 with rippers 4 hr x $205.47/hr = $821.88
   Seed and Mulch 1 acre x $1,000.00/acre = $1,000.00

Subtotal: $5,109.40

Mobilization:
  Construction - 3.80% of total Costs = $378.02
  Surfacing - 0.00% by rock volume = $0.00

Subtotal: $378.02

Quarry Development:
  Based on 0.00% of total rock volume

Subtotal:	$0.00
Total:	$6,162.30

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Musty Evans Sale Date:
Road Number: FS 3231-600 Road Name: Panther Peak Rd.
Road Renovation: 4.00 mi 16 ft Subgrade 3 ft ditch 5/1/2013

200 Clearing and Grubbing: 0.0 acres	$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	$0.00
400 Drainage:	$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	$6,378.90
Blading 4.00 mi	
Surfacing:	$700.80
Quarry Name: BLM - Pitrun 15 cy	
Quarry Name: BLM - Class 3 25 cy	
1300 Geotextiles:	$63.16
1400 Slope Protection:	$0.00
1800 Soil Stabilization: 0.0 acres	$0.00
1900 Cattleguards:	$0.00
2100 RoadSide Brushing: 3.9 acres	$2,171.05
2300 Engineering: 0.00 sta.	$0.00
2400 Minor Concrete:	$0.00
2500 Gabions:	$0.00
8000 Miscellaneous:	$1,347.92
Mobilization: Const. $696.78 Surf. $0.00	$696.78
Quarry Development:	$0.00
Total:	$11,358.61

Notes:
- Quantities shown are estimates only and not pay items.
- Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: FS 3231-600 Road Name: Panther Peak Rd.

Section 200 Clearing and Grubbing:

Subtotal: $0.00

Section 300 Excavation:

Subtotal: $0.00

Section 400 Drainage:

Subtotal: $0.00

Section 500 Renovation:
  Blading: $519.72/mi x 4.00 mi = $2,078.88
  Pull Ditches: $140.38/mi x 4.00 mi = $561.52
  Compaction: $1329.15/mi x 2.00 mi = $2,658.30
  Clean Culverts: $270.05/mi x 4.00 mi = $1,080.20

Subtotal: $6,378.90

Section 700 Pitrun Quarry Name: BLM - Pitrun

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									15cy

  Rock Volume = 15cy
  Production: $2.60/cy x 15cy = $39.00
  Compaction: $0.79/cy x 15cy = $11.85
  Basic Rock Haul cost: $0.93/cy x 15cy = $13.95
  Rock Haul -15% grades: $1.39/cy-mi x 15cy x 5.00 mi= $104.25

Section 700 Pitrun Quarry Name: BLM - Class 3

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									25cy

  Rock Volume = 25cy
  Production: $2.60/cy x 25cy = $65.00
  Royalty: $10.00/cy x 25cy = $250.00
  Compaction: $0.79/cy x 25cy = $19.75
  Basic Rock Haul cost: $0.93/cy x 25cy = $23.25
  Rock Haul -15% grades: $1.39/cy-mi x 25cy x 5.00 mi= $173.75

Subtotal: $700.80

Section 1300 Geotextiles:
  Ditch Lining
   stabilization normal (500X) 30 sy x $1.01/sy = $30.30
   General Laborer 1 hr x $32.86/hr = $32.86

Subtotal: $63.16

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: $556.68/acre x 3.90 acres = $2,171.05

Subtotal: $2,171.05

Section 2300 Engineering:

Subtotal: $0.00

Road Number: FS 3231-600 Panther Peak Rd. Continued

Section 2400 Minor Concrete:

Subtotal: $0.00

Section 2500 Gabions:

Subtotal: $0.00

Section 8000 Miscellaneous:
  Slide Repair
   Excavator 225 (1.5 CY) 8 hr x $94.61/hr = $756.88
   Backhoe 24 inch 8 hr x $73.88/hr = $591.04

Subtotal: $1,347.92

Mobilization:
  Construction - 7.01% of total Costs = $696.78
  Surfacing - 1.32% by rock volume = $0.00

Subtotal: $696.78

Quarry Development:
  Based on 1.32% of total rock volume

Subtotal: $0.00

Total: $11,358.61

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Musty Evans Sale Date:

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Fire Equipment:	1 ea x	(1.00 x $132.00/ea +	50 mi x $3.51/mi)	=	$307.50
Graders-all:	1 ea x	(1.00 x $356.00/ea +	50 mi x $13.91/mi)	=	$1,051.50
Loaders > 3cy:	1 ea x	(1.00 x $522.00/ea +	50 mi x $12.24/mi)	=	$1,134.00
Rollers & Comp:	1 ea x	(1.00 x $356.00/ea +	50 mi x $15.10/mi)	=	$1,111.00
Excavators:	1 ea x	(1.00 x $688.00/ea +	50 mi x $22.59/mi)	=	$1,817.50
RTBackhoes 24/30:	1 ea x	(1.00 x $356.00/ea +	50 mi x $4.93/mi)	=	$602.50
Tractors >= D8:	1 ea x	(1.00 x $688.00/ea +	50 mi x $41.09/mi)	=	$2,742.50
Dump Truck<=10cy:	2 ea x	(1.00 x $185.00/ea +	50 mi x $3.70/mi)	=	$740.00
Water Truck:	1 ea x	(1.00 x $217.00/ea +	50 mi x $4.33/mi)	=	$433.50

Subtotal: $9,940.00

Mobilization: Surfacing

Subtotal: $0.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: Musty Evans Sale Date:

Road Number	Const	Improv	Renov	Decomm	Temp
32-3-31.04			15.84		
33-2-07.00			22.18		
33-2-07.01			5.28		
33-2-07.02			84.48		
33-2-17.00			86.06		
33-3-03.00			234.43		
33-3-04.00			32.21		
33-3-08.00			42.77		
33-3-12.01			27.46		
33-3-12.02			83.95		
33-3-30.01			183.74		
33-3-33.01			27.98		
33-4-23.01			45.94		
33-4-23.03			25.34		
34-4-01.00			80.26		
34-4-01.01			68.64		
34-4-15.00			284.59		
34-4-15.02			180.05		
35-3-10.00			11.09		
35-3-28.01			72.34		
Anderson Rd			22.18		
FS 3229-200			18.48		
FS 3231-600			211.20		
Total Sta:			1,866.49		

200 Clearing and Grubbing	Clearing stations	Grubbing acres	Slash acres

Totals:	0.00	0.0	0.0

300 Excavation	Excav C.Y.s	Haul sta-yds
Totals:	0	0

400 Drainage

35-3-10.00 Aluminized 18 inch 16 ga 40 lf

Remove Temporary Culvert 35-3-10.00

Backhoe 18 inch . . . . . 4 hr

500 Renovation	Miles	Slide cy
32-3-31.04	0.30	0
33-2-07.00	0.42	0
33-2-07.01	0.10	0
33-2-07.02	1.60	0
33-2-17.00	1.63	0
33-3-03.00	4.44	0
33-3-04.00	0.61	0
33-3-08.00	0.81	0
33-3-12.01	0.52	0

Continuation of Construction Quantities

33-3-12.02	1.59	0
33-3-30.01	3.48	0
33-3-33.01	0.44	0
33-4-23.01	0.87	0
33-4-23.03	0.48	0
34-4-01.00	1.52	0
34-4-01.01	1.30	0
34-4-15.00	5.39	0
34-4-15.02	3.41	0
35-3-10.00	0.21	0
35-3-28.01	1.37	0
Anderson Rd	0.42	0
FS 3229-200	0.35	0
FS 3231-600	4.00	0
Totals:	35.26	0

Surfacing (Cubic Yards)

Quarry Name: Commercial-PitRun

700 Pitrun	Roadway	Turnouts	Other	
32-3-31.04	0	0	200	200
Totals:	0	0	200	200

Quarry Name: Commercial-1-1/2"

1200 Crushed under 1 1/2	Roadway	Turnouts	Other	
Totals:	0	0	0	0

Quarry Name: BLM - 3/4"

1200 Crushed under 1 1/2	Roadway	Turnouts	Other	
33-3-03.00	2,542	0	0	2,542
Anderson Rd	246	0	0	246
Totals:	2,788	0	0	2,788

Quarry Name: BLM - Pitrun

700 Pitrun	Roadway	Turnouts	Other	
FS 3231-600	0	0	15	15
Totals:	0	0	15	15

Quarry Name: BLM - Class 3

700 Pitrun	Roadway	Turnouts	Other	
FS 3231-600	0	0	25	25
Totals:	0	0	25	25

Quarry Name: SECTION 1

1200 Crushed under 1 1/2	Roadway	Turnouts	Other	
Totals:	0	0	0	0

Quarry Name: Sec. PITRUN

700 Pitrun	Roadway	Turnouts	Other	
Totals:	0	0	0	0

1300 Geotextiles
Ditch Lining FS 3231-600

stabilization normal (500X) . . . . . 30 sy
General Laborer . . . . . 1 hr

1400 Slope Protection

Totals:	0

1800 Soil stabilization - acres

	Dry W/O Mulch	Dry/with Mulch	Hydro Mulch
Totals:	0.0	0.0	0.0

1900 Cattleguards

Totals: No Quantities

2100 RoadSide Brushing

	acres
32-3-31.04	0.3
33-3-12.02	1.5
33-3-33.01	0.3
33-4-23.01	0.8
33-4-23.03	0.5
34-4-01.00	1.5
34-4-01.01	2.1
34-4-15.00	5.2
34-4-15.02	3.3
35-3-10.00	0.3
35-3-28.01	1.3
FS 3229-200	0.3
FS 3231-600	3.9
Totals:	21.3

2300 Engineering

	stations
Totals:	0.00

2400 Minor Concrete

Totals: No Quantities

2500 Gabions

Totals: No Quantities

8000 Miscellaneous

Helicopter Landing Const. 32-3-31.04
D8 with rippers . . . . . 12 hr
Helicopter Landing Const. 35-3-10.00
D8 with rippers . . . . . 16 hr
Helicopter Landing Const. 33-3-33.01
D8 with rippers . . . . . 16 hr
Helicopter landing const. FS 3229-200
D8 with rippers . . . . . 16 hr
Helicopter Landing Const. Anderson Rd
D8 with rippers . . . . . 8 hr
Helicopter Landing Decom. 32-3-31.04

Continuation of Construction Quantities

Seed and Mulch . . . . . .5 acre
Helicopter Landing Decom. 35-3-10.00
Seed and Mulch . . . . . 1 acre
D8 with rippers . . . . . 4 hr
Helicopter Landing Decom. 33-3-33.01
Seed and Mulch . . . . . 1 acre
D8 with rippers . . . . . 4 hr
Helicopter Landing decom. FS 3229-200
D8 with rippers . . . . . 4 hr
Seed and Mulch . . . . . 1 acre
Helicopter Landing decom. Anderson Rd
D8 with rippers . . . . . 4 hr
Musty Evans 33-3-03.00
Water Truck 2000 Gal . . . . . 6 hr
Slide Repair FS 3231-600
Excavator 225 (1.5 CY) . . . . . 8 hr
Backhoe 24 inch . . . . . 8 hr

Form 5440-9
(December 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SCALE SALE

Name of Bidder	
Tract Number	ORM05-TS-14-08
Sale Name	Musty Evans
Sale Notice *(dated)*	6/26/2014
BLM District	Medford

		Sealed Bid for Sealed Bid Sale	X	Written Bid for Oral Auction Sale	

In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.

Required bid deposited is **$29,100.00** 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	4,262	X	=	X	=
White fir	MBF	378	X			
Western Hemlock	MBF	60				
Incense Cedar	MBF	50				
Ponderosa Pine	MBF	31	X			
Sugar Pine	MBF	3	X			
Total		**4,784**	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)

☐ Signature, if firm is individually owned	Name of firm *(type or print)*
☐ ☐ Signatures, if firm is a partnership or L.L.C.	Business address, include zip code *(type or print)*
☐ Corporation organized under the state laws of	*(To be completed following oral bidding)*
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By *(signature)*
Title	Date

Submit bid, in *duplicate*, to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM. Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (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.

*U.S. GOVERNMENT PRINTING OFFICE: 1993-839-310