PROSPECTUS

Lump Sum Sale

BUTTE FALLS RESOURCEAREA JACKSON MASTER UNIT

1

Medford Sale # ORM05- TS-2017-01 August 24, 2017 (TG)

Smith B Round (5900) Jackson County, O&C

BID DEPOSIT REQUIRED: \$19,800.00

All timber designated for cutting in N½ NE ¼, SE ¼ NE ¼, Sec.25, T.33S., R.2E., SW ¼ SE ¼, Sec.18, NE ¼, E½ NW¼, Govt. Lots 2,3, E ½ SW ¼, Sec.19, NE ¼ NW ¼, Govt. Lots 1,2, Sec.30, T.33S., R.3E., Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Est. Volume CCF	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
1625	584	1133	White Fir	702	\$159.30	\$111,828.60
713	266	494	Douglas-fir	320	\$258.60	\$82,752.00
477	42	123	Ponderosa Pine	65	\$23.30	\$1,514.50
83	5	15	Incense Cedar	7	\$144.00	\$1,008.00
40	4	10	Western Hemlock	5	\$139.30	\$696.50
2938	901	1775	Totals	1099		\$197,799.60

^{*}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.

<u>CRUISE INFORMATION</u> Maps showing the location and description of 3P sample trees are available at the Medford District Office. The 3-P sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume.

The White Fir (WF) and minor species have been cruised using the 3-P sampling method to select sample trees.

With respect to merchantable WF trees: the average tree is 18.0 inches DBHOB; the average gross merchantable log contains 100 bd. ft.; the total gross volume is approximately 765 M bd. ft; and 92% recovery is expected.

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

<u>LOG EXPORT AND SUBSTITUTION RESTRICTIONS</u> All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export from the United States in the form of unprocessed timber and is prohibited from use as a substitute for exported private timber.

The BLM has revised the log export restrictions special provision to reduce the log branding and painting requirements. The new requirements include branding of one end of all logs with a scaling diameter of over 10 inches. All loads of 11 logs or more, regardless of the diameter of the logs, will have a minimum of 10 logs branded on one end. All logs will be branded on loads of 10 logs or less. One end of all branded logs will be marked with yellow paint. At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. The Purchaser shall bear any increased costs for log branding and painting.

<u>CUTTING AREA</u> Eleven (11) units containing one hundred and forty four (144) acres must be thinned.

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

<u>ACCESS</u> - Access to the sale area is available via public roads and through the contract area using BLM Roads and Right-of-way and Road Use Agreement M-2000C with Silver Butte Timber Company, via Right-of-way and Road Use Agreement M-2000F with Weyerhaeuser Company, and Right-of-Way and Road Use Agreement M-2000EA with Perpetua Forest Company.

Among other conditions, agreement M-2000C with Silver Butte Timber Company requires completion of a license agreement between the Purchaser and Silver Butte Timber Company, road maintenance to be performed by the Purchaser or BLM and payment of a surface replacement fee of \$171.44. Among other conditions, agreement M-2000F with Weyerhaeuser Company requires completion of a license agreement between the Purchaser and Weyerhaeuser Company, road maintenance to be performed by the Purchaser or BLM, and payment of a surface replacement fee of \$985.00. Among other conditions, agreement M-2000EA with Perpetua Forest Company, requires completion of a license agreement between the Purchaser and Perpetua Forest Company, road maintenance to be performed by the Purchaser or BLM.

<u>ROAD MAINTENANCE</u> – The Purchaser will be required to maintain 0.08 miles of existing BLM roads. The BLM will maintain the approximately 10.27 miles of existing BLM and private roads.

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

<u>EQUIPMENT REQUIREMENTS</u> 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.

<u>SLASH DISPOSAL</u> Perform logging residue reduction and site preparation work on approximately eighty five (85) acres of harvest area as directed by the Authorized Officer.

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

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

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

<u>PERFORMANCE BOND</u> A performance bond in the amount of 20% of the total purchase price will be required.

OTHER

- 1.No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
- 2. "This contract includes an additional special provision to ensure the Purchaser understands he/she is required to conduct all operations in compliance with Contract Section 12 (Purchaser's Contractual Responsibilities for Liability) and Contract Section 29 (Safety and Health) and the Special Provisions included in Section 42 of this Contract."
- 3. Purchaser shall be responsible for complying with all county, state, and federal laws and regulations that relate to the execution of this contract (See Sec. 29 of contract).
- 4. During logging operations the protection of rangeland improvements will be required. Directional falling (see contract stipulation L-11 in the contract) will be used to prevent damage to fences, cattle guards, livestock

watering troughs and other improvements. If damage to range improvements does occur, the BLM shall be notified immediately and proper repair or replacement would occur within two weeks. Proper repair of fences and gates includes keeping wire properly attached to posts, splicing or replacing broken wire in kind, repairing structures such as corners, stress panels or gates, and any other work necessary to keep improvements functional. Repair of structures such as stress or corner panels and gates requires pre-approval by BLM staff. Repair or cleaning of cattle guards damaged or filled with sediment by logging activities would require approval of BLM Road Engineering Staff for structural integrity and public safety compliance.

- 5. During logging activities, operators would keep all gates closed and all livestock containment systems functional to keep livestock in authorized areas.
- 6. Directional falling is required
- 7. Various seasonal restrictions are placed on this sale.
- 8. There are log length restrictions within some units (see section 42 Special Provisions).
- 9. Cleaning of equipment to eliminate noxious weed seeds is required prior to move-in of equipment onto federal lands.
- 10. Designated skid roads are required on all tractor units.
- 11. Ripping of all newly constructed temporary spur roads and log landings is required.
- 12. Dust abatement is required.
- 13. 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.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA

The Smith B Round timber sale is located south of Lost Creek Lake in Jackson County, Oregon. From the town of Butte Falls, Oregon, proceed east on the Butte Falls-Fish Lake Highway for approximately 0.5 miles to the Butte Falls-Prospect Highway (992). Turn left and follow for approximately 9 miles to junction with BLM Road 34-3E-34.0 (A Road). Turn left and follow for approximately 2 miles to the A Road B Road junction. Turn left on to the B Road (33-3E-28.01) and proceed for approximately 2 miles into the sale area.

<u>ENVIRONMENTAL ASSESSMENT</u> Environmental assessments DOI-BLM-OR M050-2017-0001-EA) were prepared for this sale, and a Finding of No Significant Impact has been documented for each environmental assessment. These documents are available for inspection as background for this sale at the Medford District Office.

Seasonal Restriction Matrix

Sheet 1 of 1
Smith B Round Timber Sale
ORM05-TS17-01

*Possible Waived Times are Hatched *Restricted Times are Shaded

Sale Area	Activity	Jan	n	Feb		Mar	Apr		May	June		July	A	Aug	Sept	0	Oct	Nov	D	Dec
	•	1	15	1 15	5 1	15	1 15	5 1	15	1 15	5 1	15	1	15	1 15	1	15	1 15	1	15
Units	Hand Timber Falling and Bucking																			
19-2, 19-3,	Ground based yarding ¹																			
19-5, 19-6,	Log processing, log loading 1,2																			
25-1, 30-1,	Log hauling, rock hauling, 1.2																			
30-2, 30-3	Road, landing, skid trail, waterbar, barricade																			
-7 - 7	construction, road reconstruction, renovation,																			
	and/or decommissioning, Roadside brushing 1																			
	Road grading and watering ¹																			
	Soil ripping, seeding, mulching ¹																			
	Fuels chainsaw site prep, prescribed burning																			
Units	Hand Timber Falling and Bucking																			
30-1, 19-4	Skyline cable yarding																			
	Log processing, log loading ^{1,2}																			
	Log hauling, rock hauling 1,2																			
	Road, landing, skid trail, waterbar, barricade																			
	construction, road reconstruction, renovation,																			
	and/or decommissioning Roadside brushing 1																			
	Road grading and watering ¹ .																			
	Soil ripping, seeding, mulching ¹																			
	Fuels chainsaw site prep, prescribed burning																			
Units:	Hand Timber Falling and Bucking																			
18-1, 19-1	Ground based yarding ¹																			
	Log processing, log loading 1,3																			
	Road, landing, skid trail, waterbar, barricade																			
	construction, road reconstruction, renovation,																			
	and/or decommissioning Roadside brushing 1																			
	and of accommessioning roadside ordsmirg											_		_						

Wet season restrictions may be shortened or extended depending on weather conditions.
 Hauling restriction may be shortened or extended (see C14.12A in contract)
 Hauling restriction may be shortened or extended (see C14.12B in contract)

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

- Sec. 41. TIMBER RESERVED FROM CUTTING The following timber on the contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of Government.
- (A) <u>AR-1</u> All timber on the Reserve Area(s) as shown on Exhibit A and all orange painted and posted trees which are on or mark the boundaries of the Reserve Area(s).
- (B) <u>IR-2</u> All timber except approximately two thousand nine hundred and thirty eight (2938) trees marked for cutting heretofore by the Government with blue paint above and below stump height in units 18-1, 19-1, 19-2, 19-3, 19-4, 19-5, 19-6, 25-1, 30-1, 30-2, and 30-3 as shown on Exhibit A.
- (C) <u>IR-5</u> All young growth conifers less than eight (8) inches in diameter D.B.H.O.B. not damaged in the normal course of logging in all units as shown on Exhibit A.
- (D) IR-6 All hardwood and Yew trees in all units as shown on Exhibit A.
- (E) <u>IR-13</u> All non-hazardous snags in all units as shown on Exhibit A. Any felled hazard snags must remain where felled or as directed by the authorized officer.
- (F) IR-14 All pre-existing dead and down wood in all units 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 threequarters (834) inches in thickness or less; (6) shakes and shingles. Substitution will be determined under the definition found in 43 CFR 5400.0-5. The Purchaser is required to maintain and upon request to furnish the following information:
 - (a) Date of last export sale.
 - (b) Volume of timber contained in last export sale.
 - (c) Volume of timber exported in the past twelve (12) months from the date of last export sale.
 - (d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.
 - (e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.
 - (f) Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a Form 5460-16 (Certificate as to Nonsubstitution and the Domestic Processing of Timber). The original of such certification shall be filed with the Authorized Officer.

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

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

Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer Form 5460-15 (Log Scale and Disposition of Timber Removed Report) which shall be executed by the Purchaser.

The purchaser shall also provide a current, interim Log Scale and Disposition of Timber Removed Report (Form 5460-15) upon request by the Authorized Officer at any time during the contract period for cutting and removal specified in Section 4 of this contract as amended.

In addition, the Purchaser is required under the terms of this contract to retain for a three-year period from the date of termination of the contract the records of all sales or transfer of logs involving timber from the sale for inspection and use of the Bureau of Land Management.

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

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

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

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

(B) Logging

- (1) <u>L-1</u> Before beginning operations on the contract area for the first time or after a shutdown of seven (7) days or more, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of seven (7) or more days.
- (2) <u>L-2</u> Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. (A prework conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved.) All logging shall be done in accordance with the plan.
- (3) <u>L-7</u> In all tractor units, as shown on Exhibit A, all trees twenty one (21) inches D.B.H.O.B. and smaller designated for cutting shall be felled and yarded to approved landing locations either whole tree, or as log segments (segment length not to exceed forty-four (44) feet) If excessive stand damage occurs from whole tree yarding as determined by the authorized officer, bucking and/or limbing will be required.
- (4) <u>L-7</u> In all tractor units as shown on Exhibit A, all trees over twenty one (21) inch D.B.H.O.B. designated for cutting shall be felled and cut into log lengths not to exceed forty-four (44) feet and be completely limbed prior to being yarded
- (5) <u>L-7</u> In all skyline units as shown on Exhibit A, all trees designated for cutting shall be felled and cut into log lengths not to exceed forty-four (44) feet and be completely limbed prior to being yarded.
- (6) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred eighty five (185) feet of the unit boundary shall be felled way from the unit boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (7) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred eighty five (185) 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).

- (8) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred eighty five (185) feet of the corner monument shall be felled away from the corner monument. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (9) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred eighty five (185) feet of any plant site, mollusk site, protected site, or reserve area boundary as shown on Exhibit A shall be felled away from the painted and posted boundary. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (10) <u>L-10</u> In the contract area shown on Exhibit A, all trees designated for cutting which are within one hundred eighty five (185) feet of fences, cattle guards, livestock watering troughs and other rangeland improvements. shall be felled way from these improvements. The Purchaser shall notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).
- (11) <u>L-12</u> Yarding on the areas designated herein and shown on Exhibit A shall be done in accordance with the yarding requirements or limitations for the designated area.

Designated Area	Yarding Requirements or Limitations
Tractor Units 18-1, 19-1 19-2, 19-3 19-5, 19-6 25-1. 30-2 30-3	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. 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. Use existing skid trails to the extent possible. Where new skid trails are necessary, limit the extent to minimize the impact. No front-end loaders are permitted.
	No front-end loaders are permitted.

No yarding up or down draw bottoms is permitted. Restrict tractor and mechanical operations to slopes generally less than 35%. In areas where it is necessary to exceed these gradients to access adjacent tractor area, use ridge tops where possible. The use of ground based equipment on unstable areas within units is not permitted. Mechanized felling equipment must have an arm capable of reaching at least 20 feet. No ground based 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. Once soil moisture exceeds 25%, ground-based operations may only occur when snow depth is at least 18 inches. In the condition where snow is present but soil moisture is below 25%, ground-based operations may occur. Stop ground-based harvest if rutting begins to occur within the unit or when soil moisture exceeds 25%. In order to restrict the amount of compacted soil to less than 12% in a timber harvest unit: allow mechanized equipment capable of creating and walking on slash (such as a cut-to-length system) to work off designated skid trails for 1 or 2 passes on at least 8 inches of slash and under dry soil conditions (less than 25% soil moisture content), allow mechanized equipment (feller-buncher systems) to work off designated skid trails during the dry season (soil moisture content less than 15%) for 1 or 2 passes only (one round-trip), space the 1 to 2-pass harvest trails a minimum of 50 feet apart off of designated skid trails, Use low, ground-pressure equipment (8 psi or less), restrict all other use of ground-based equipment to designated skid trails, and stop the use of forwarding trails if logging equipment is causing continuous mineral soil displacement greater than 2

inches deep for a distance of 20 feet, a change of soil structure/compaction indicators at depths greater than 2 inches, or 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.

During logging operations, the protection of rangeland improvements will be required. Directional falling (see contract stipulation L-10 in this contract) will be used to prevent damage to fences, cattle guards, livestock watering troughs and other rangeland improvements.

If damage to range improvements does occur, the BLM shall be notified immediately and proper repair or replacement would occur within two weeks. Proper repair of fences and gates includes keeping wire properly attached to posts, splicing or replacing broken wire in kind, repairing structures such as corners, stress panels or gates, and any other work necessary to keep improvements functional. Repair of structures such as stress or corner panels and gates requires pre-approval by BLM staff. Repair or cleaning of cattle guards damaged or filled with sediment by logging activities would require approval of BLM Road Engineering Staff for structural integrity and public safety compliance.

During logging activities, operators would keep all gates closed and all livestock containment systems functional to keep livestock in authorized areas.

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

Skyline Units 19-4, 30-1

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. The maximum width will be fifteen [15] feet

Immediately after use, construct water bars by hand, and pull available slash into cable yarding corridors where gouging of mineral soil occurs for a continuous distance of 20 feet or more, as directed by the Authorized Officer.

Apply native, site-specific seed approved by the resource area botanist and certified weed-free straw to the top 20 feet of the skyline-cable yarding corridor where yarding logs to the road results in extended soil exposure.

During logging operations, the protection of rangeland improvements will be required. Directional falling (see contract stipulation L-10 in this contract) will be used to prevent damage to fences, cattle guards, livestock watering troughs and other rangeland improvements.

If damage to range improvements does occur, the BLM shall be notified immediately and proper repair or replacement would occur within two weeks. Proper repair of fences and gates includes keeping wire properly attached to posts, splicing or replacing broken wire in kind, repairing structures such as corners, stress panels or gates, and any other work necessary to keep improvements functional. Repair of structures such as stress or corner panels and gates requires pre-approval by BLM staff. Repair or cleaning of cattle guards damaged or filled with sediment by logging activities would require approval of BLM Road Engineering Staff for structural integrity and public safety compliance.

During logging activities, operators would keep all gates closed and all livestock containment systems functional to keep livestock in authorized areas.

No downhill yarding is allowed

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

- (12) <u>L-14</u> No yarding or loading is permitted in or through plant sites, or protected sites, shown on Exhibit A.
- (13) <u>L-16</u> No temporary spur roads, or new landings, shall be located within riparian reserves, wet areas, or 100 acre northern spotted owl activity centers. Landing or temporary route construction will be located away from unstable soil conditions and headwalls.
- (14) <u>L-19</u> No feller buncher system operations shall be conducted between October 15 of one calendar year and May 15 of the following calendar year both days inclusive unless soil moisture is less than 15 percent when sampled at a 6 inch depth as determined by Authorized Officer.
- (15) <u>L-19</u> No ground based yarding, mechanized equipment use, soil ripping, road renovation/decommission/closure operations, or culvert installation/removal 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, or when soil moisture exceeds 25% when sampled at a 6 inch depth as determined by Authorized Officer.
- (16) <u>L-19</u> No temporary road construction, landing construction, or road reconstruction, shall be conducted between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive.
- (17) <u>L-19</u> Restrict all timber 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 between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. If the Authorized Officer in consultation with resource area watershed specialists and engineers, determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, the Contracting Officer may recommend a conditional waiver for hauling. The conditional wavier may be suspended or revoked if conditions become unacceptable, as determined by the Authorized Officer.
- (18) L-19 The Purchaser may wet season haul, with the Authorized Officer's approval on the following roads 33-3E-19.01 A1-A2, 33-3E-28.01 A1-C, and the 33-3E-34.00 A1A-A2 (see C14.12A in the contract). If the use of these roads during the wet season causes or begins to cause road damage or the transport of sediment into streams, the Authorized Officer may suspend wet season haul or require additional erosion control devices to prevent damage or off-site transportation of sediment. Additional rock may be required at the Purchaser's expense to repair any damage that occurs to the road during wet season haul as determined by Authorized Officer.

- (19) <u>L-19</u> The Purchaser shall have the option to rock road numbers 33-3E-19.01 A, 33-3E-19.04 A, and/or 33-3E-20.00 A for wet weather haul (see C14.12B in the contract). Purchaser option rocking depths will be determined and approved by the Authorized Officer. Any costs for rocking and installation of additional drainage features will be at the Purchaser's expense and shall be completed in accordance with the plans and specifications show in Exhibit C of this contract and as approved by Authorized Officer.
- (20) <u>L-21</u> The purchaser shall provide warning signs and flagger(s) as required by OR-OSHA applicable rules and guidelines.
- (21) <u>L-22</u> During logging operations, the operator shall keep the 33-3E-19.0 road (Medco B Road) where it passes 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 with the exception for that portion of the 33-3E-19.0 road which borders unit 19-4, and 30-1. At these locations the 33-3E-19.0 road shall not be blocked for more than 72 hours for each unit. In addition to these requirements, these roads shall have warning signs displayed in advance of the logging operation along all roads which pass through the logging operation. Warning Signs and their use must comply with OR-OSHA applicable rules and guidelines.
- (22) <u>L-24</u> Before cutting and removing any trees necessary to facilitate logging in all units as shown on Exhibit A, the Purchaser shall identify the location of skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following conditions must be met:
 - (a) All skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contact and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees; however, unless otherwise approved in writing by the Authorized Officer, the width of each skid road shall be limited to 12 feet, and cable yarding roads shall be limited to 15 feet.
 - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees when the trees have been marked with pink paint above and below stump height by the Authorized Officer

and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Sec. 3.(b). of the contract or sufficient bonding has been provided in accordance with Sec. 3.(d). of the contract.

- (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that all trees otherwise reserved in section 41 of the contract or any tree that exceeds 28 inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Sec. 8 of the contract.
- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
- (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or Sec. 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
- (f) The Government may reserve trees previously designated for cutting and removal by applying orange paint or blacking out blue paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such

reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription(s). The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.

- (23) <u>L-25</u> In all skyline units 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.
- (24) <u>L-29</u> In accordance with the requirements of Sec. 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in or adjacent to all units as shown on Exhibit A, which is obstructing needed cable yarding roads, ground based yarding skid roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees, or severely damaged from the normal conduct of felling or yarding operations to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:
 - (a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Sec. 41 of the contract are not included in the authorization.
 - (b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump immediately after falling with a large "X". The "X" shall be cut with a chain saw. The stump shall be marked by hanging red fluorescent flagging near the stump so that the stump can be visually located from a distance of not less than one hundred (100) feet.
 - (c) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Sec. 3(a) or 3(c) of the contract as required by Sec. 8 of the contract.
 - (d) No timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3(a) or 3(c) of the contract have been made.

- (e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
 - 1. Failed to properly mark any stump with the "X" cut.
 - 2. Failed to identify the location of any stump.
 - 3. Cut any tree that was reserved for tree improvement and/or wildlife habitat.
 - 4. Cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
 - 5. Cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.
 - 6. Failed to properly segregate any pulled over tree that was yarded to the landing.
 - 7. Cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
 - 8. Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
 - 9. Cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
 - 10. Cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tailhold trees.
 - 11. Failed to maintain accurate and current (no more than 24 hours old) documentation of cut and removed timber.

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

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

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

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

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

(25) <u>L-33</u> Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties on Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors

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

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

(C) ROAD CONSTRUCTION, MAINTENANCE, AND USE

(1) R-1:

The Purchaser shall 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) R-1a:

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

$(3) \quad \underline{\mathbf{R-2}}:$

The Purchaser is authorized to use the roads listed and shown on Exhibit D-2 for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(R-2b). Any road listed on Exhibit D-2 and requiring construction, improvement, or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, improvement, or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

Road No. and	Length		Road Surface	Maintenance
Segment	Miles Used	Road Control	Type	Responsibility
33-2E-25.00 A	0.08	BLM	NAT	Purchaser
33-3E-19.00 A1-B	1.99	BLM	ASC	BLM
33-3E-19.01 A	0.51	BLM	ASC	BLM
33-3E-19.03 A	0.40	BLM	ASC	BLM
33-3E-19.04 A	0.63	BLM	ASC	BLM
33-3E-20.00 A	1.32	BLM	ASC	BLM
33-3E-28.01 A1A	1.09	Perpetua	ASC	BLM
33-3E-28.01 A1B	1.44	Weyerhaeuser	ASC	BLM
33-3E-28.01 A2	0.06	Weyerhaeuser	ASC	BLM
33-3E-28.01 B-C	0.70	BLM	ASC	BLM
33-3E-30.00	0.14	BLM	ASC	BLM
33-3E-30.01 A	0.16	BLM	ASC	BLM
33-3E-34.00 A1A	0.69	Perpetua	ASC	BLM
33-3E-34.00 A1B	0.26	BLM	ASC	BLM
33-3E-34.00 A1C	0.18	Perpetua	ASC	BLM
33-3E-34.00 A2	0.70	Perpetua	ASC	BLM

(4) R-2a:

With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of roads included in Section 42(R-2) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance

agreements entered into with other users on these roads.

(5) R-2b:

The Purchaser shall pay the Government a road maintenance and rockwear fee of seven thousand six hundred thirty one and 89/100 dollars (\$7,631.89) for the transportation of timber included in this contract price over said roads. The above maintenance amount is for the use of 10.27 miles of road or less. If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.

(6) R-2e:

The Contracting Officer may at any time, by written notice, terminate 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, as determined by the Authorized Officer, to be transported over the road(s) listed in Section 42(C)(3). If the total road maintenance fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance (and rockwear) fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance obligation(s).

(7) R-2f:

The Purchaser shall perform any required road repair and maintenance work on roads identified as Purchaser maintenance, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof. The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.

(8) R-3:

In the use of Road No. 33-3E-34.00A1B, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000C, between the United States of America and Silver Butte Timber Company. This document is available for inspection at the Medford Office. These conditions include:

(a) Payment of a road rockwear obligation of <u>One hundred seventy</u> <u>one and 44/100 dollars (\$171.44)</u> to Silver Butte Timber Company, payable at the time indicated in the License Agreement.

- (b) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

(9) R-3:

In the use of Road Nos. 33-3E-28.01A1A, 33-3E-34.00A1A, 33-3E-34.00A1C, 33-3E-34.00A2 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 Forests Company. This document is available for inspection at the Medford Office. These conditions include:

- (a) Payment of a road rockwear obligation of **Zero and 00/100 dollars**(\$0.00) to Perpetua Forests Company, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (c) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

(10) R-3:

In the use of Road Nos. 33-3E-28.01A1B and 33-3E-28.01A2 the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000F, between the United States of America and Weyerhaeuser Company. This document is available for inspection at the Medford Office. These conditions include:

- (a) Payment of a road rockwear obligation of <u>nine hundred eighty five and</u> <u>00/100 dollars (\$985.00)</u> to Weyerhaeuser Company, payable at the time indicated in the License Agreement.
- (b) Prior to the use of said roads, the Purchaser shall furnish the Page 17 of 32

Authorized Officer a properly signed copy of the executed License Agreement.

(c) Default by the Purchaser of said Right-of-Way and Road
Use Agreement, or any License Agreement executed
pursuant thereto, for failure to pay appropriate road use
fees shall be considered a violation of this contract. The
amount of unpaid fees shall be considered as the amount
of damage suffered by the Government as a result of the
violation of this provision.

(11) R-4:

The Purchaser shall be required to secure written approval to use vehicles or haul equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval. Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics at least fifteen (15) days prior to proposed move in. Details shall include:

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

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

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

(D) Environmental Protection

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

In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. In addition, such plan shall follow all applicable State of Oregon Department of Environmental Quality guidelines for spill prevention and containment of petroleum products (Oregon Administrative Rules, Chapter 340, Department of Environmental Quality, Division 142, Oil and Hazardous Materials Emergency Response Requirements).

- (2) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall 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) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only be allowed to use 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) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract and as directed by the Authorized Officer, the Purchaser shall block all temporary roads, and newly constructed landings (except landings located along temp spurs to be decommissioned), and at any location where an existing barricade has been removed to provide access to units as shown on exhibit A. Temporary roads and newly constructed landings shall be blocked in the same season of use. If hauling on a temporary route or its associated landings is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.
- (5) 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 barricade and place woody debris or other appropriate barriers (e.g. rocks, logs, and slash) on the first 100 feet of pre-designated skid trails, designated skid trails, and designated forwarder trails leading off system roads or landings in all ground-based yarding units shown on Exhibit A by October 15 of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season. If a waiver is in place, barricades must be in place prior to the fall rains and as directed by the Authorized Officer.
- (6) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall construct road barricades as specified on Exhibit C, at locations where an existing barricade has been removed to provide for harvest access. Barricades shall be in place by October 15 of each calendar year.
- (7) <u>E-1</u> In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall;
 - (a) Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which is attached hereto and made a part hereof.
 - (b) Rip to a depth of eighteen (18) inches or bedrock (which ever is shallower).

- (c) Ripping will not occur unless soil moisture content is twenty-five (25) percent or less (at a six (6) inch depth) as determined by the oven-dry method.
- (d) Rip all temporary roads, and newly constructed landings, as shown on Exhibit A. Temporary roads and newly constructed landings shall be ripped in the same season of use. If hauling on a temporary route or its associated landings is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.
- (e) Where the width of the trail permits, and no damage to residual trees would occur, skid trails within regeneration harvest units as shown on Exhibit A of this contract would be discontinuously subsoiled to a depth of at least 12 to 18 inches, to a point where stones 10 inches or larger diameter are the dominant substrate, or to bedrock (whichever is shallower). Where the Authorized Officer determines that subsoiling skid trails would cause unacceptable damage to the root systems of residual trees along a majority of the skid trail, such as where new skid trails are constructed within the dripline of leave trees, subsoiling may be intermittent, or scarification may be used instead. Equipment must be able to avoid rocky areas and adapt to changes in rock depth.
- (f) Seed and mulch all temporary roads, and newly constructed landings in all units as shown on Exhibit A by October 15 in the same year constructed. If hauling on a temporary route or its associated landings is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.
- (g) Seed and mulch all pre-designated skid trails designated skid trails, and designated forwarder trails used for logging activities in all ground based units as shown on Exhibit A, beginning where the trail takes off of system roads, or landing areas for a distance of one hundred (100) feet, or as needed, as determined by the Authorized Officer. Apply native, site-specific seed approved by the resource area botanist and weed-free straw by October 15 of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season. If a waiver is in place, seed and mulching shall be completed prior to the fall rains and as directed by the Authorized Officer.
- (h) Seed and mulch the top 20 feet of all skyline yarding corridors in all skyline units as shown on Exhibit A where yarding logs to the road has resulted in extended soil surface exposure by October 15 in the same season of use.

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

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

Grass seed 20 lbs./acre

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

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

	Germination Purity	We	ed Content
<u>Species</u>	Min. %	<u>Min. %</u>	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:

Percent of

<u>Species</u>	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.

- (8) <u>E-2</u> The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C-10, which is attached hereto and made a part hereof.
 - (a) Water-bar all temporary roads and newly constructed landings, shown on Exhibit A, in the same season of use. If hauling on a temporary route or its associated landings is not completed in the same year the route is constructed, the route will be storm-proofed and blocked by October 15 or when soil moisture exceeds 25%.
 - (b) Water-bar all pre-designated skid trails, and designated skid trails used for logging activities in all ground based units shown on Exhibit A., at locations approved by the authorized officer, by October 15 of the year of harvest unless a waiver is in place for ground-based yarding to extend the dry season. If harvesting and skid trail use is not completed in the first season of operations, the skid trails would be storm-proofed and blocked prior to the fall rains, or when soil moisture exceeds 25%. Storm proofing would include, water bar construction, and mulching with approved straw to exposed soil at locations determined by the Authorized Officer.
 - (c) Water-bars are not required on designated forwarder trails if slash (scatter chipped material, or scatter limbs and other fine material) has been utilized to cover exposed soil within the forwarder trails as approved by the Authorized Officer.
 - (d) Immediately after use, construct water bars by hand, and pull available slash into cable yarding corridors where gouging of mineral soil occurs for a continuous distance of 20 feet or more, as directed by the Authorized Officer, by October 15 of the same season of use.

All water bar spacing would be based on the RMP erosion-control measures for timber harvest, which considers slope and soil series (USDI 1995, p. 167).

- (9) <u>E-3</u> The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
 - (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;

- (b) when, in order to comply with the Endangered Species Act, or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP), the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 Special Status Species Management have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
- (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
- (e) when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
- (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (g) species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
- (h) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

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

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

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

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

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

(10) <u>E-5</u> The Purchaser shall notify the Authorized Officer in writing by February 1 of each calendar year in which operations are expected to take place on the contract area between March 1 and September 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting owls may not be allowed during this time period.

(E) Miscellaneous

(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 one thousand five hundred fifty and 00/100 dollars (\$1550.00) In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of one thousand five hundred fifty and 00/100 dollars (\$1550.00) 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.

(F) Fire Prevention and Control

- 1. <u>F-1a Fire Prevention and Control</u>. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 - 1. 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.
 - 2. 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. <u>F-2a</u> 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 (34) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

- 2. <u>F-2b</u> A round pointed size zero (0) or larger shovel in good condition, shall be within fifty (50) feet of any power saw when in operation.
- 3. F-2c At each landing during periods of operation one (1) tank truck. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute (ORS) 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.410 as amended or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.
- 4. <u>F-2d</u> Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area and Medford, Oregon. Such communication shall be available during periods of operation including the time watch-service is required.
- 5. <u>F-2e</u> A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire trails at night.
- 6. <u>F-2f</u> A headlight for each person in the woods crew adequate to provide sufficient illumination for night 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. <u>F-2g</u> Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
- 8. F-2h A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Oregon State Forester shall be carried during the closed fire season or periods of fire danger by each saw operator using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. A size "0" or larger shovel shall be available with each gas can when refueling. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Oregon State Forester.
- 2. <u>F-5</u> Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.
- <u>F-8</u> Blasting caps and fuses shall not be used during closed fire season or any period of fire danger on any land administered by the Government. Blasting with electric detonators during the closed fire season or periods of fire danger is permitted only between the hours of 4:00 a.m. and 10:00 a.m.
- (G) Slash Disposal and Site Preparation
 - (1) <u>SD-4 Logging Residue Reduction</u>. In addition to the requirements of Sect.15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and site preparation measure(s) required by this contract:

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.

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

<u>SD-4a</u> <u>SLASHING DAMAGED RESIDUALS</u>. Slash all sprung or otherwise severely damaged trees greater than one (1) inch and less than six (6) inches D.B.H.O.B. concurrently with logging as designated by the Authorized Officer. All slashing is to be completed prior to any required piling of slash.

<u>SD-1h</u> <u>HANDPILE</u> Handpile all slash as directed by the Authorized Officer in accordance with the following specifications:

- 1. Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.
- 2. Pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds three (3) feet in length.
- 3. A six (6) foot by six (6) foot sheet of four (4) mil polyethylene black plastic shall be placed in each pile in a manner such that approximately one-third (1/3) of the pile lies above it to hold it in place and so that a two (2) foot by two (2) foot dry ignition point is maintained for one (1) year or until burned. The ignition point will consist of fine fuel material such as needles, small limbs, and branches less than one-half (1/2) inch in diameter and free of dirt. Piles shall be constructed by aligning individual pieces in the same direction and placing the heavier slash on top. Piles shall have a stable base to prevent toppling. The long axis of individual pieces shall be oriented up and down the slope. Protruding pieces shall be trimmed to allow covering in a manner that permits the pile to shed water. Height shall be no less than four (4) feet and no greater than six (6) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located within sixty (60)

SMITH B ROUND SPECIAL PROVISIONS

feet of fish-bearing, perennial streams or within thirty five (35) feet from non-fish-bearing, intermittent streams. Piles shall not be located on down logs, stumps, talus slopes, roadways, or drainage ditches. No pile shall be located within ten (10) feet of reserve trees, any other pile, or unit boundary. No pile shall be located within twenty five (25) feet of designated wildlife trees. No portion of the pile will be under the crown of any living conifer tree.

- 4. Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:
 - a. Units shall be piled and covered during the same season that they are logged. Piling shall be completed in each unit or portion thereof, within eight (8) weeks after being notified of BLM site treatment determination.

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.

- 1. 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.
- (2) <u>SD-5</u> Perform logging residue reduction and site preparation work on approximately eighty five (85) acres of harvest area as directed by the Authorized Officer.
 - (a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.
 - (b) The following treatments were assumed for appraisal purposes on this contract:

Treatment/Level	Cost Per	Number of	Total Cost Per
	Acre	Acres	Treatment Type
Hand Pile Slash	\$547.00	25	\$13,675.00
Lop and Scatter	\$47.00	60	\$2,820.00
Total Appraised Cost			\$16,495.00

(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: Sixteen thousand four hundred ninety five dollars (\$16,495.00) as calculated by using the

SMITH B ROUND SPECIAL PROVISIONS

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.

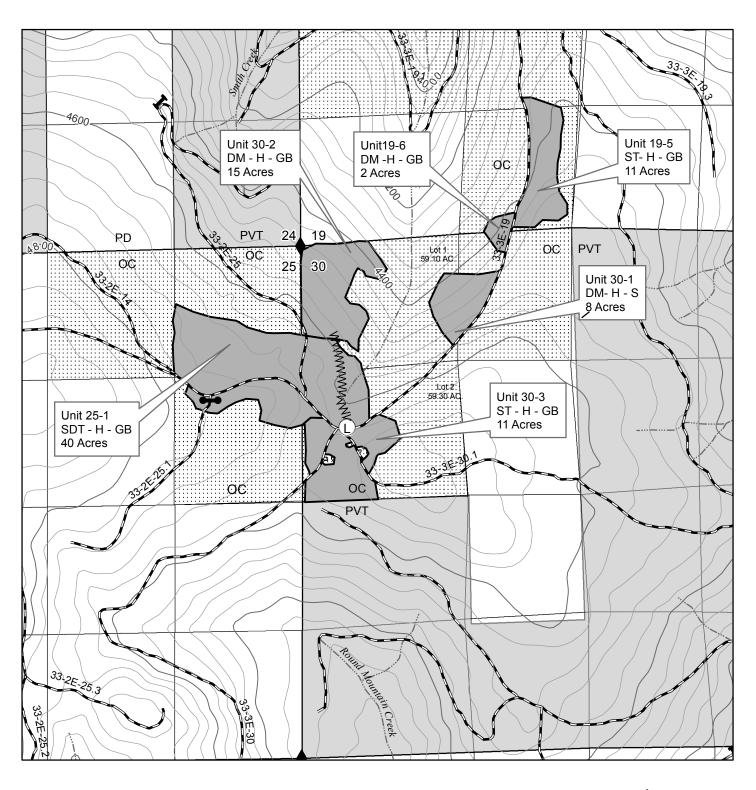
Time is of the essence in complying with this provision. In the event the Purchaser fails to provide the personnel and equipment required herein, the Purchaser shall be responsible for all additional costs incurred by the Government in disposing of slash including but not limited to the wages and other 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. 17-01 T. 33S. R. 2E, SEC 25, WILL. MER. T. 33S. R. 3E, SEC 19, 30, WILL. MER. SMITH B ROUND TIMBER SALE

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM05 -TS-17-01 EXHIBIT A PAGE 1 OF 4



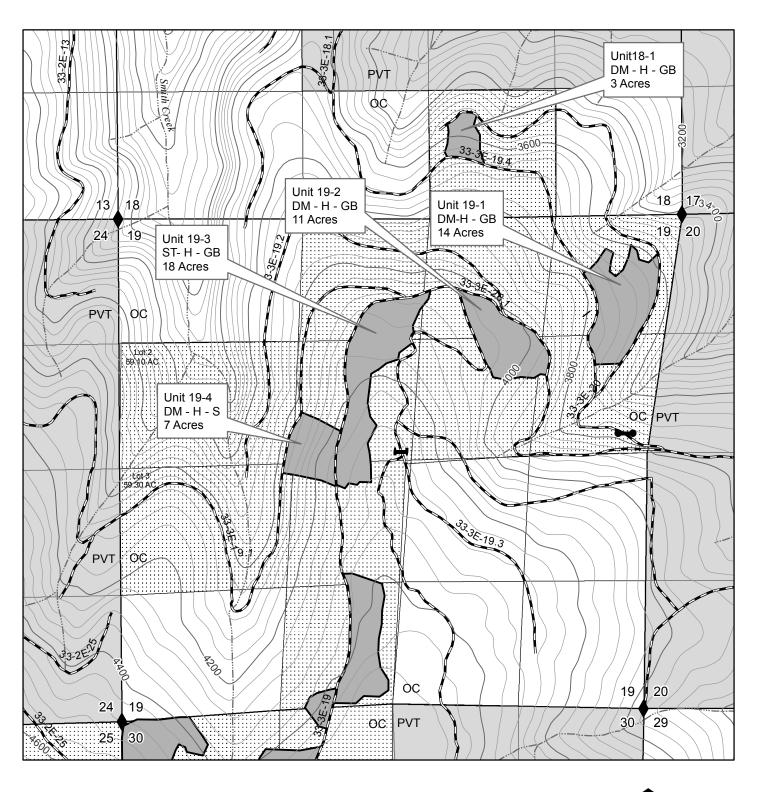
Medford District BLM April 2017 40 FOOT CONTOURS

1 inch = 1,000 feet





U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 17-01 T. 33S. R. 3E, SEC 18, 19 WILL. MER. SMITH B ROUND TIMBER SALE TIMBER SALE CONTRACT MAP CONTRACT NO. ORM05 -TS-17-01 EXHIBIT A PAGE 2 OF 4



Medford District BLM April 2017 40 FOOT CONTOURS

1 inch = 1,000 feet





U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 17-01 T. 33S. R. 2E., SEC 25, WILL. MER. T. 33S. R. 3E., SEC 18, 19, WILL. MER. SMITH B ROUND TIMBER SALE

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM05 -TS-17 -01 EXHIBIT A PAGE 3 OF4

Legend

••••• Temporary Spur Road Found Corner \odot Water Source - Road **(X)** Quarry ----- Stream Spring 100 ft. Index Contour 40 ft. Intermediate Contour Gate, Existing Barricade, Existing **Government Lot** (L) Log Landing **BLM Administered Land** Non-BLM Land MWWM Pre-designated Skid trails **Boundary of Cutting Area** Plant Site Protected Site

DM- H - GB

DENSITY MANAGEMENT, HARVEST TREE MARK (BLUE PAINT)
GROUND BASED LOG UNITS: 18-1, 19-1, 19-2, 19-6, 30-2

Reserve Area

DM - H - S

DENSITY MANAGEMENT, HARVEST TREE MARK (BLUE PAINT)
SKYLINE LOG: UNIT: 19-4, 30-1

ST - H - GB SELECTIVE THIN, HARVEST TREE MARK (BLUE PAINT)
GROUND BASED LOG: UNITS: 19-3, 19-5, 30-3

SDT - H - GB SMALL DIAMETER THIN, HARVEST TREE MARK (BLUE PAINT)
GROUND BASED LOG: UNIT: 25-1

U.S.D.I. BLM MEDFORD DISTRICT SALE NO. 17-01 T. 33S. R. 2E., SEC. 25, WILL. MER. T. 33S. R. 3E., SEC. 18, 19, 30, WILL. MER. SMITH B ROUND TIMBER SALE

TIMBER SALE CONTRACT MAP CONTRACT NO. OR M05-TS 17-01 EXHIBIT A PAGE 4 OF 4

Section		Unit	Reserve	Contract
Number	Unit Number	Acres	Acres	Acres
18	18-1	3	37	40
19	19-1, 19-2, 19-3, 19-4, 19-5, 19-6	63	415.4	478.4
25	25-1	40	198.4	238.4
30	30-1, 30-2, 30-3	38	120.4	158.4
	sum	144	771.2	915.2

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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
White Fir	702		
Douglas-fir	320		
Ponderosa Pine	65		
Incense-cedar	7		
Western Hemlock	5		
Sale Totals	1,099		

Unit Details (16' MB)

Unit	18-1	3 Acres	Value ner Acre · \$0 00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	9		
White Fir	31		
Unit Totals	40		

Unit 19-1	14 Acres	Value per Acre: \$0.00
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Species	Net Volume	Bid Price	Species Value
Douglas-fir	15		
Incense-cedar			
White Fir	58		
Unit Totals	73		

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

e per Acre : \$0.00 Species Value e per Acre : \$0.00 Species Value
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28

Unit Totals

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Unit	25-1	40 Acres	Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	57		
Incense-cedar	4		
Ponderosa Pine	65		
White Fir	90		
Unit Totals	216		

Unit 30-1 8 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar			
Western Hemlock			
White Fir	28		
Unit Totals	75		

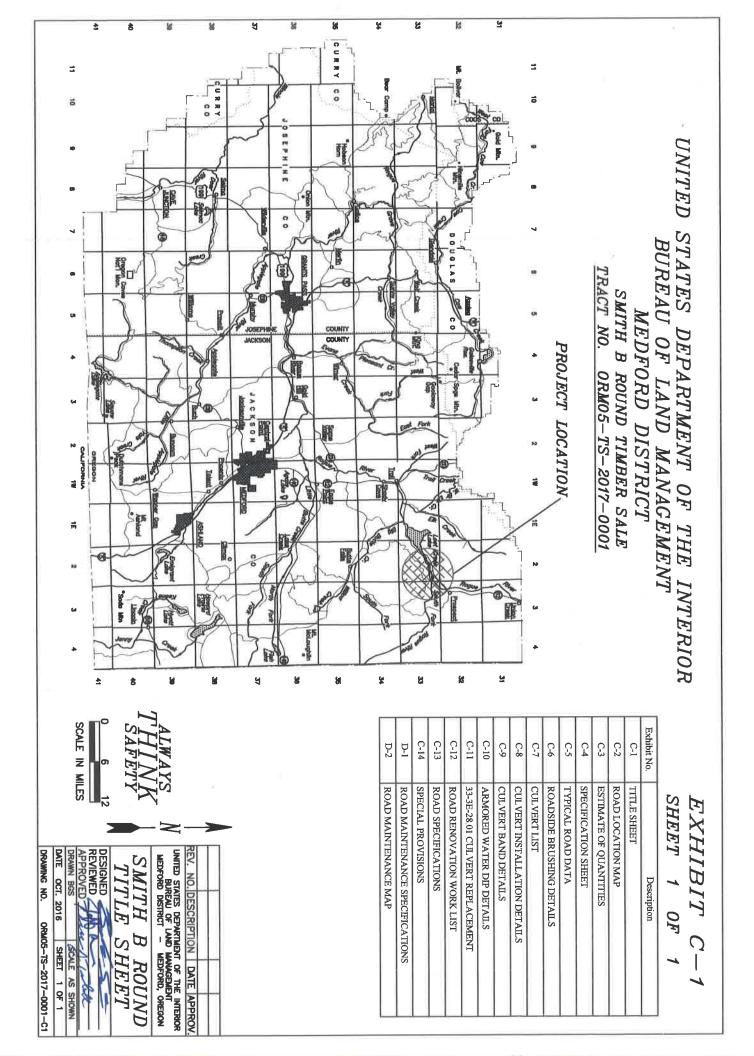
Unit 30-2 15 Acres Value per Acre: \$0.00

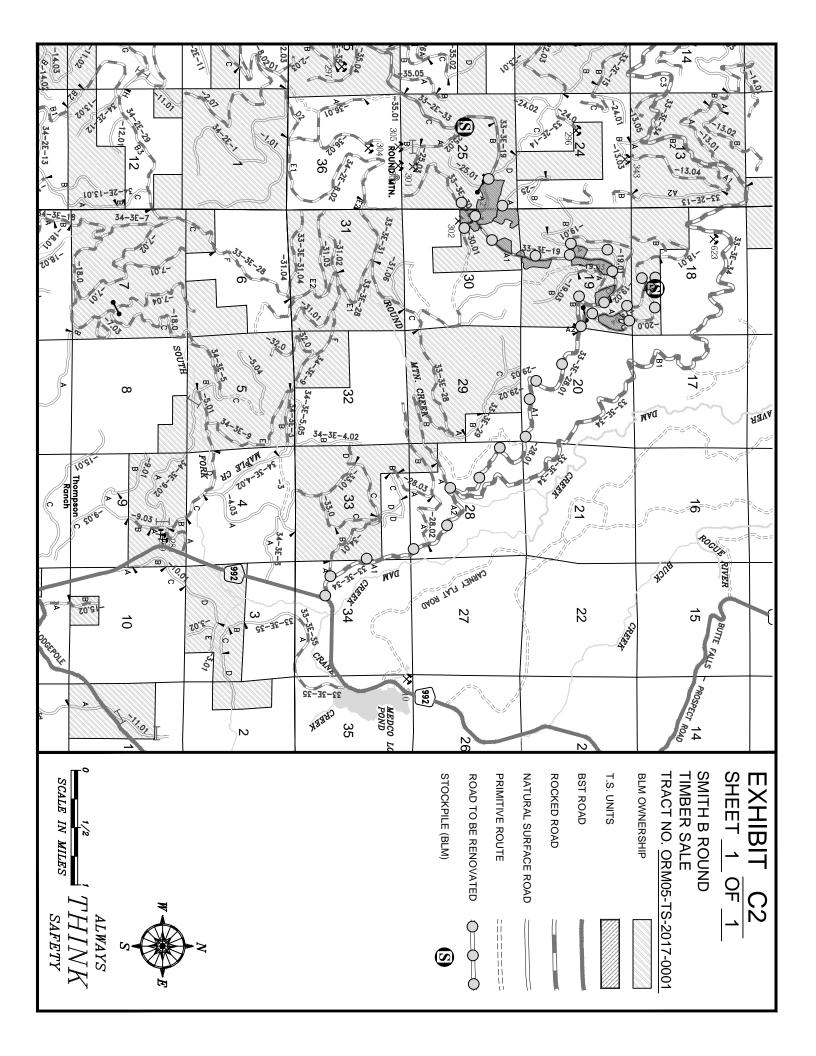
Species	Net Volume	Bid Price	Species Value
Douglas-fir	20		
Incense-cedar			
Western Hemlock	4		
White Fir	105		
Unit Totals	129		

Unit 30-3 15 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	32		
Incense-cedar	1		
Western Hemlock	1		
White Fir	91		
Unit Totals	125		

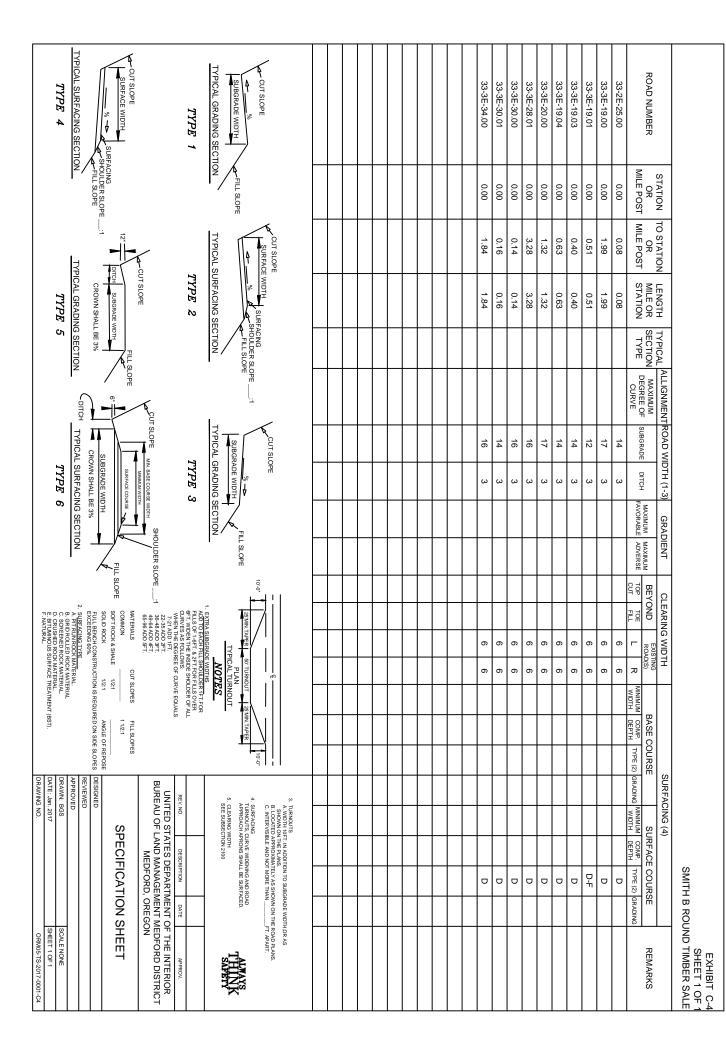
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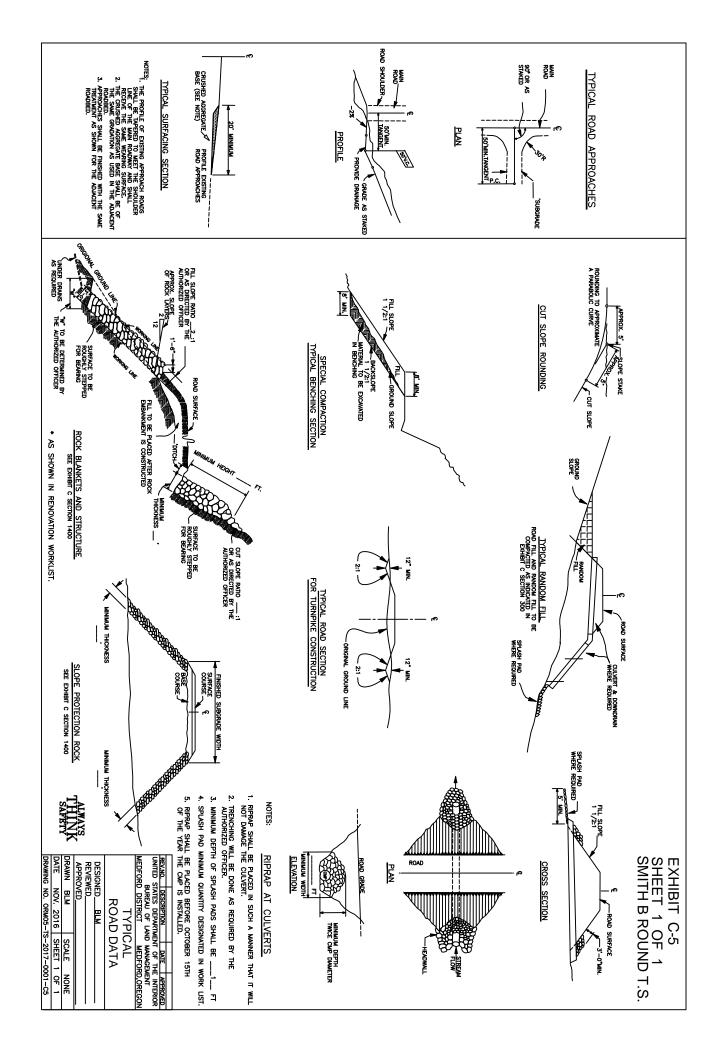


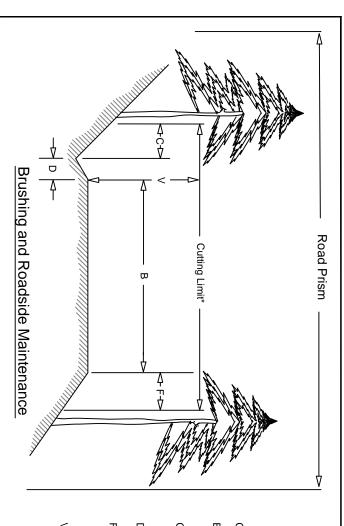


	* FOR QUAN			PAGE 1 TOTALS									33-3E-34.00	33-3E-30.01	33-3E-30.00	33-3E-28.01	33-3E-20.00	33-3E-19.04	33-3E-19.03	33-3E-19.00	33-2E-25.00	ROAD NUMBER	SPECIFICATION		ROAD NUMBER	
	FOR INFORMATIONAL USE ONLY, QUANTITIES SHOWN ARE NOT PAY ITEMS.	SIZE GRADE 4 inch (A 3 inch (B 2 inch (C 1 1/2 inch (D	ITEM 900										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MP/STA	귀	FR	ROM	
	MATIO S SHO		00										1.84	0.16	0.14	3.28	1.32	0.63	0.40	1.99	0.08	MP/STA	J 1	٦	ГО	
	NAL U WN AF	SIZE 1 1/2inch 1 inch 3/4inch	ITEM	10.35									1.84	0.16	0.14	3.28	1.32	0.63	0.40	1.99	0.08	MILE/STA		LEN	IGT⊦	I
	RE NO		ITEM 1200																			ACRE	200	CLEARING A		
)NLY,)T PA	GRADE C,C-1 D,F E,E-1 (Stockpile Rock)																	4	1	_	+	300	ROCK CO		EXCAVATION
	Y ITE	pile Rock		9											50				_	4		C.Y. L.F.	300 40	COMMON 18"		TON NO
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	antities ed for i Y per / d).																					MILE		ROA VEGE MANA(N N
	Armored water dip aggregate quantities calculated at 40 CY per AWD and are accounted for in aggregate column under 4" minus grade A and 20 CY per AWD are accounted under crushed surface (stockpiled).	SAFETY	ALW	ω															c	,		EA.		ARMORE DIF	D W S	ATER
	ited at gate of e acco	X.L.H	AYS																	\downarrow	\downarrow	EA.	Щ	WATE	R DI	PS
	column		Ý	120															120			C.Y.	700	PIT RUN RO	оск	AGG
				310											20	90			9	140		C.Y.	1200	CRUSHE SURFAC (STOCKPIL	E	AGGREGATE**
DATE: Jan. 2017 DRAWING NO. (ш	INTE	REV. NO.	50											2	34				14		C.Y.	1400	RIPRAP FO SPLASH PA CLASS (ADS	ті *
BGS Jan. 2017 G NO.	STIN	NITED ERIOR FORD	5	1.10											0.10	0.30				0.70)	ACRE	1800	SOIL STA	BILIZA	TION
ORM05-TS-2017-0001-C3	ESTIMATE OF QUANTITIES*	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON	DESCRIPTION	10.35									1.84	0.16	0.14	3.28	1.32	0.63	0.40	1.99	0.08	MILE	+	ROADSIDE SCA	BRUS	HING -
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EXHIBIT C-3 SHEET 1 OF 1 SMITH B ROUND TIMBER SALE





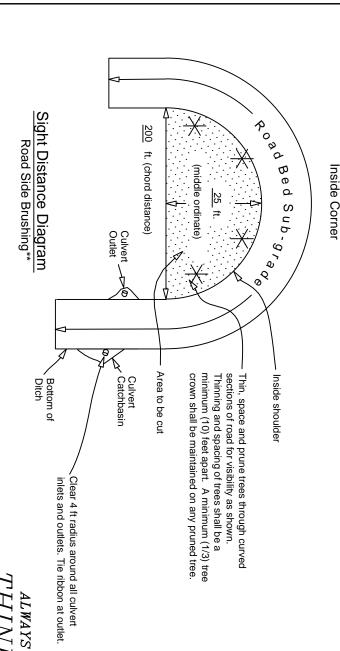


SHEET0

Cutting Limit = C + D + B + F

- B = Road Bed Subgrade (includes turnouts)
- C = 6 ft Distance to be brushed on cut slope beyond centerline of ditch. Cut all vegetation to max height of 6". Cut all vegetation to max. height of 1".
- D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".
- $F=6\ ft$ 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



REV. NO.	
/. NO. DESCRIPTION	
DATE	
APPROV.	

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

ROADSIDE BRUSHING DETAILS

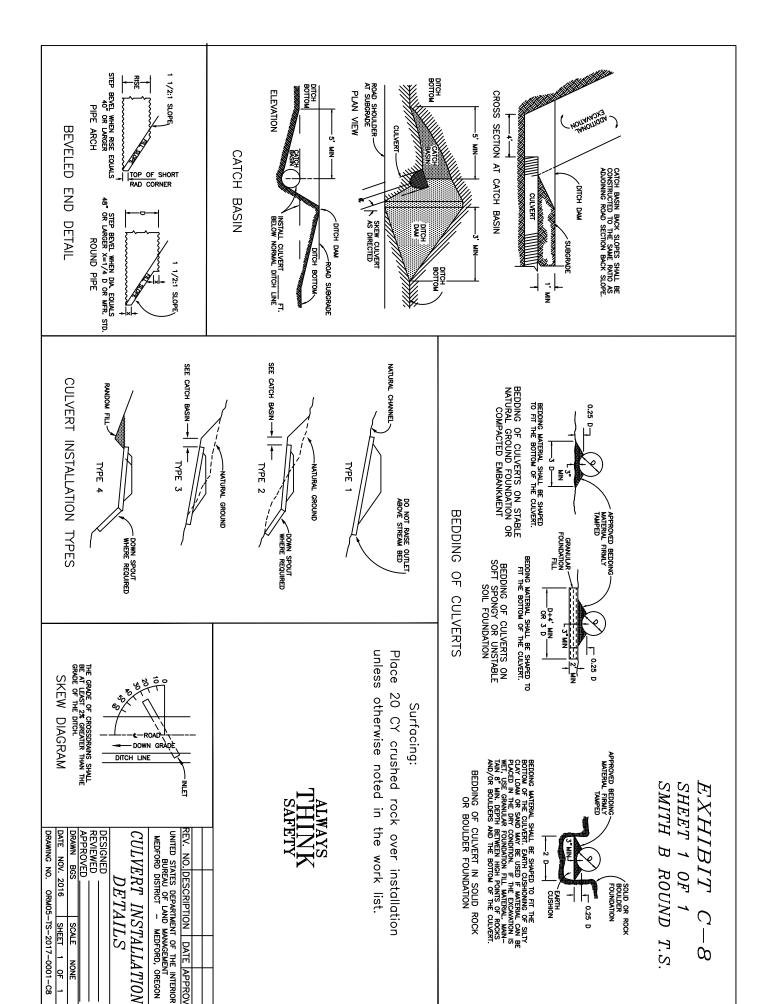
ORM05-TS-2017-0001-C6	DRAWING NO. ORMO5-
SHEET: 1 OF 1	DATE: NOV. 2016 :
SCALE: NONE	DRAWN: BGS S

revised 08/2010

All distances shown are horizontal except for V

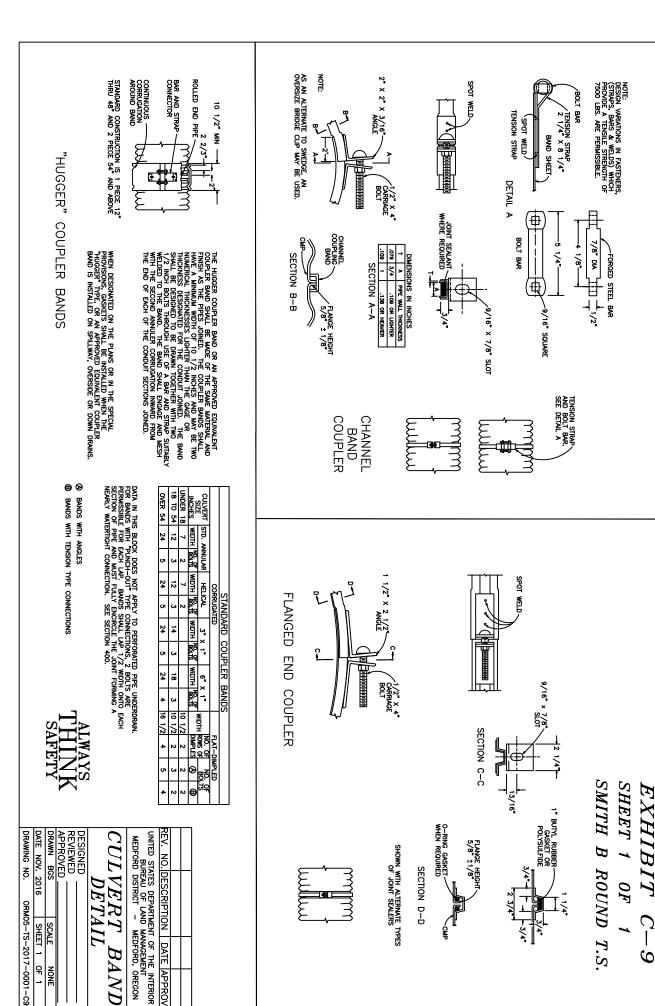
SAFETY

DRAWING NO. DRMOS-18-2017-0001-07										50 CY		(RIPRAP):	2	TOTAL	PROJECT 1	
DATE: Jan. 2017 SHEET 1 OF 1										Feet	50	CMP:	54"	TOTAL	PROJECT 1	
DRAWN: BGS SCALE: AS SHOWN										Feet	: 334	CMP:	24"	TOTAL	PROJECT 1	
CULVERT LIST										Feet	92	CMP:	18° 18°	TOTAL	PROJECT 1	
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT — MEDFORD, OREGON			++									++				
											+					
			\vdash					\vdash	\vdash			-				
ALWAYS																
	Installation Type 3	2										50	16	18*	3.20	33-3E-30.00
		2													3.20	
	Installation Type 3	2										44'	16	24"	2.89	
be aluminizea.	Installation Type 1	30										50'	14	54"	0.59	33-3E-28.01
C. All culverts and bands shall	Installation Type 3	2										36'	16	24"	1.60	
C-3 (Estimate of	Installation Type 3	2										40'	16	24"	1.57	
	Installation Type 3	2										42'	16 ,	18"	0.82	
will be staked in the field. B. Summary of auantities are	Installation Type 3	2										50'	16	24"	0.67	
Actual lengths and locations	Installation Type 3	2										40'	16	24"	0.51	
 A. Designed culvert lengths and locations are approximate. 	Installation Type 3	2										38'	16	24"	0.39	
NOTES:	Installation Type 3	2										42'	16	24"	0.00	33-3E-19.00
	REMARKS	SPLASH - CUBI YARDS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	N OR I	ANGLE	LENGTH SKEW	GAGE	SIZE	STATION OR M.P.	ROAD NO.
		PA	RECT. FLUME	-	FULL ROUND	ROUND	1/2 F	<u>'</u> ⊣	BUILT	AS E					DESIGNED	D
		DS.	0)	OUT	DOWNSPOUTS	DO\					S	LOCATIONS)CA		CULVERT	
EXHIBIT C-7 SHEET 1 OF 1 SMITH B ROUND																



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SHEET 1 OF 1



TYPICAL ARMORED WATER DIP CONSTRUCTION DETAIL

PLAN

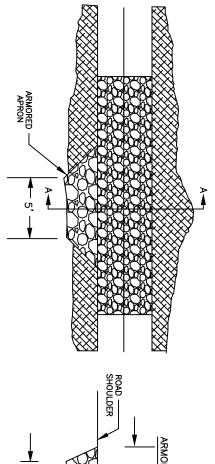
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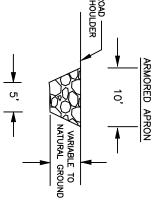
SMITH BSHEET 1 EXHIBIT

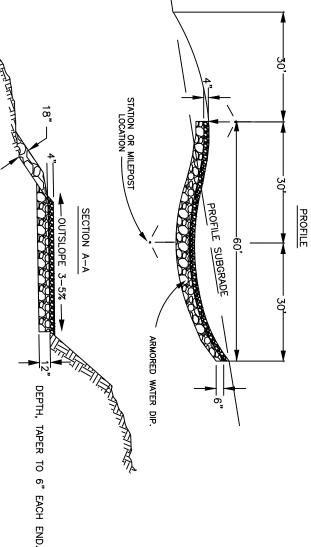
T.S

C - 100F 1 ROUND









છ THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.

- THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET.
- THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET.

બ

SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE.

4

- EXCAVATED MATERIAL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING IS NOT PERMITTED.
- PIT RUN ROCK MATERIAL SHALL BE PLACED ON FILL SLOPE OF ARMORED WATERDIP.
- SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED.

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- 8 EACH DIP SHALL BE REINFORCED WITH 40 CUBIC YARDS OF 4" MINUS ROCK, ON ROADWAY AND PIT RUN AT OUTFALL.
- 9 EACH DIP ON EXISTING ROCKED ROADS SHALL BE SURFACED WITH 20 CUBIC YARDS OF 3/4" MINUS ROCK, EXTENDING AND TAPERING IN DEPTH 20' ON EACH SIDE OF THE AWD, TO MEET THE EXISTING ROAD SURFACE. NATURAL SURFACE ROADS WILL ONLY USE THE 4" MINUS AGGREGATE.

EGEND



CUT/FILL SLOPES



SUBGRADE ARMOR MATERIAL (4" minus)



FILL SLOPE ARMOR MATERIAL PIT RUN OR OTHER APPROVED MATERIAL.



(3/4" minus – SURFACE COURSE AGGREGATE from BLM Stockpiles)

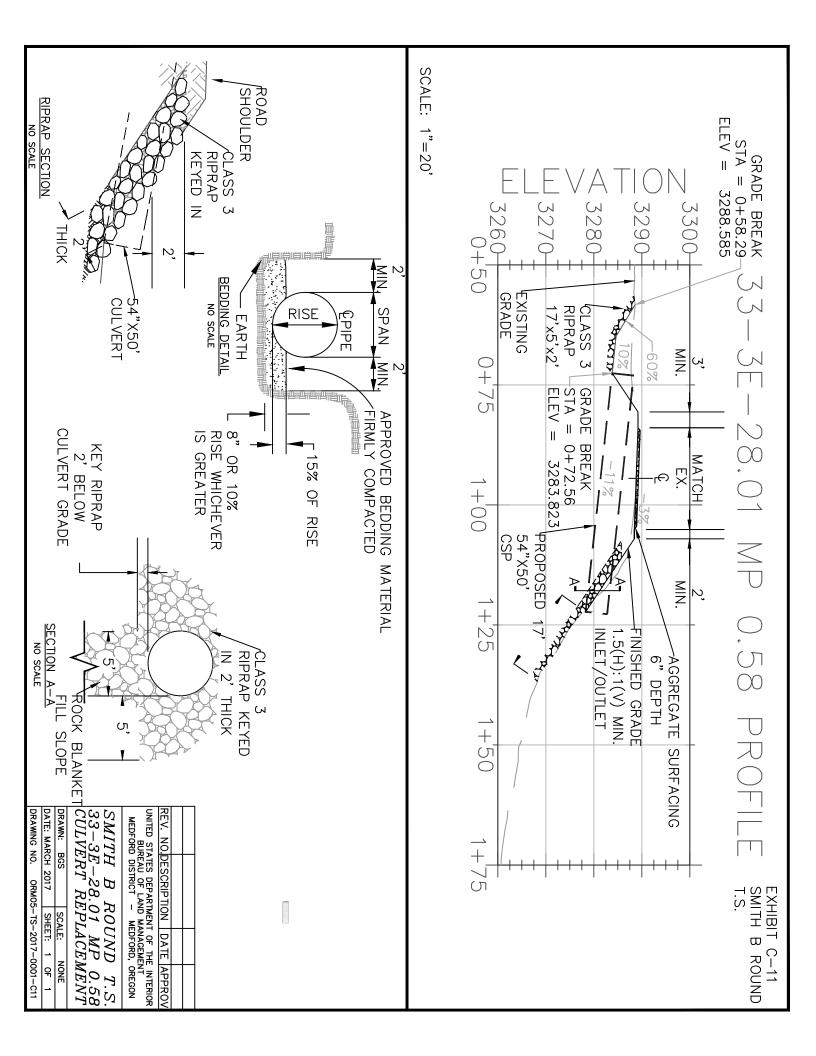
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UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT — MEDFORD, OREGON

WATER DIP DETAILS TYPICAL ARMORED

DRAWING NO. ORMO5	DATE DEC. 2016	DRAWN BGS
ORM05-TS-2017-0001-C10	SHEET 1 OF	SCALE NONE
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DRAWINGS NOT TO SCALE



Road Renovation Work List

Renovation: This consists of road work to be performed on the road prior to its use. The work includes, but not limited to; blading and/or rolling the road surface, pulling ditches, cleaning or enlarging catch basins and outlets, cleaning the entire barrel of all culverts, furnishing and replacing/installing corrugated metal pipes and/or culverts, maintaining and/or constructing water dips (WDs), maintaining and/or constructing armored water dips (AWDs) with 4" minus screened rock capped with ¾" minus government furnished crushed aggregate rock, spot rocking, and constructing barricades. All drainage structures including culverts, and water dips shall be inspected and required work performed so that water flow is not impeded, and brought to the design standard as shown on the plans. Remove all down trees from roadways.

Roadside Brushing: This consists of road work to be performed on the road prior to its use. The work includes, but not limited to; brushing 6 horizontal feet from the centerline of the ditch and 6 horizontal feet from the outside shoulder of the road prism, removing brush near inlet or outlet of CMPs, removing brush, limbs, and trees along the roadway to improve sight distance. Vegetation to be cut and disposed of will generally be 6 inches in diameter at breast height or less. Disposal from roadside brushing shall be lop and scatter unless otherwise noted as chipping in the work list. In sections where road crosses through private property, conifer trees shall be pruned rather than cut down. Brush shall be cut to meet regular specifications. Pruning shall be done according to C-14.10.

Jct. – JunctionCY – Cubic YardsAWD – Armored Water DipWD – Water DipCMP – Corrugated Metal PipeASC – Aggregate Surface CourseBST – Bituminous Surface TreatmentNAT – Natural Surface Roads

Road 33-2E-25.00 (Rd. Mtn. Sp. 1)

ASC

\mathbf{MP}	Remarks
0.00	Begin Road Renovation and Roadside Brushing. Jct. 33-3E-19.00.
0.05	Existing AWD.
0.08	End of Road Renovation and Roadside Brushing.

Road 33-3E-19.00 (Medco B)

ASC

- 0.00 Begin Road Renovation and Roadside Brushing. Replace existing 18" culvert with a 24" x 42' CSP with a 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type). Jct. w/33-3E-19.03 and 33-3E-28.01.
- 0.11 Existing culvert, cross drain.
- 0.12 Jct. w/ 33-3E-18.01(R).

- 0.24 Existing culvert, cross drain.
- 0.39 Replace existing 18" culvert with a 24" x 38' CSP with a 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type). Skew outlet 10' to the right of existing location.
- 0.51 Replace existing 18" culvert with a 24" x 40' CSP with a 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type). Skew outlet 15' to the right of existing location.
- 0.67 Replace existing 18" culvert with a 24" x 50' CSP with a 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type). Skew outlet 10' to the right of existing location.
- 0.82 Replace existing 18" culvert with a 18" x 42' CSP with a 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type). Skew outlet 8' to the right of existing location.
- 0.95 Existing culvert, cross drain.
- 1.10 Existing culvert, cross drain.
- 1.29 Existing culvert, cross drain.
- 1.45 Existing culvert, cross drain.
- 1.57 Replace existing 18" culvert with a 24" x 40' CSP with a 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type).
- 1.58 Jct. w/ 33-3E-30.01(L). End Seg. A1.
- 1.59 Jct. w/ 33-3E-30.00 (L).
- 1.60 Replace existing 18" culvert with a 24" x 36' CSP with a 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type).
- 1.67 Jct. w/ 33-2E-25.00(R).
- 1.77 Existing culvert, cross drain.
- 1.85 Jct. w/ 33-2E-25.01(L), Barricaded.
- 1.87 Existing culvert, cross drain.
- 1.89 Jct. 33-2E-25.01(L), Barricaded.
- 1.97 Jct. w/ 33-2E-14.00(R).
- 1.99 End Road Renovation and Roadside Brushing. Jct. w/ 33-2E-14.00(R). End Seg. A2.

Road 33-3E-19.01 (Powerhouse View Upper)

ASC

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. w/ 33-3E-19.00.
- 0.19 Remove existing culvert, cross drain. Construct AWD. (See Exhibit C-10; Armored Water Dip Construction sheet for details).

- 0.28 Approximately 50cy stockpile.
- 0.32 Remove existing culvert, cross drain. Construct AWD. (See Exhibit C-10; Armored Water Dip Construction sheet for details).
- 0.41 AWD.
- 0.51 Remove existing culvert, cross drain. Construct AWD. (See Exhibit C-10; Armored Water Dip Construction sheet for details). End Road Renovation and Roadside Brushing.

Road 33-3E-19.03 (Powerhouse Spur)

ASC

MP Remarks

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. w/ 33-3E-28.00.
- 0.22 Existing culvert, cross drain.
- 0.40 End Road Renovation and Roadside Brushing.

Road 33-3E-19.04 (14 Stings ML)

ASC

MP Remarks

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. w/ 33-3E-20.00.
- 0.07 Existing culvert, cross drain.
- 0.19 Existing culvert, cross drain.
- 0.25 Existing culvert, cross drain.
- 0.31 Existing culvert, cross drain.
- 0.40 Existing culvert, cross drain.
- 0.48 Existing culvert, cross drain.
- 0.55 Existing culvert, cross drain.
- 0.63 End Road Renovation and Roadside Brushing. Existing culvert, cross drain.

Road 33-3E-20.00 (14 Stings Lower)

ASC

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. w/ 33-3E-28.01.
- 0.01 Existing Pipe Gate.
- 0.14 Existing culvert, cross drain.
- 0.19 Existing culvert, cross drain.
- 0.21 Existing culvert, cross drain.
- 0.24 Jct. w/ 33-3E-19.04.
- 0.31 Existing culvert, cross drain.
- 0.38 Existing culvert, cross drain.
- 0.44 Existing culvert, cross drain.
- 0.52 Existing culvert, cross drain.
- 0.57 Existing culvert, cross drain.
- 0.66 Existing culvert, cross drain.
- 0.71 Existing culvert, cross drain.

- 0.73 Existing culvert, cross drain.
- 0.79 Existing culvert, cross drain.
- 0.84 Existing culvert, cross drain.
- 0.91 Existing culvert, cross drain.
- 0.96 Existing culvert, cross drain.
- 1.04 Existing culvert, cross drain.
- 1.13 Existing culvert, cross drain.
- 1.20 Existing culvert, cross drain.
- 1.24 Approximately 300cy stockpile.
- 1.27 Existing culvert, cross drain.
- 1.32 End Road Renovation and Roadside Brushing. End of Road.

Road 33-3E-28.01 (Medco B)

ASC

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. 33-3E-34.00.
- 0.18 Existing culvert, cross drain.
- 0.25 Existing culvert, cross drain.
- 0.36 Existing culvert, cross drain.
- 0.44 Existing culvert, cross drain.
- 0.53 Existing culvert, cross drain.
- 0.59 Replace existing 18" culvert with a 54" x 50' CSP. Refer to drawing Exhibit C-11 for splash pad and armoring details. Place surfacing material for 50' each side of center line of culvert and to the dimensions shown on the drawing Exhibit C-11. Culvert installation shall be a Type 1 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type).
- 0.68 Existing culvert, cross drain.
- 0.84 Existing culvert, cross drain.
- 0.89 Existing culvert, cross drain.
- 1.00 Existing culvert, cross drain.
- 1.09 Jct. w/ pvt. Rd. Left.
- 1.15 Existing culvert, cross drain.
- 1.22 Existing culvert, cross drain.
- 1.64 Existing culvert, cross drain.
- 1.70 Existing culvert, cross drain.
- 1.78 Existing culvert, cross drain.
- 1.86 Existing culvert, cross drain.
- 1.87 Jct. w/ pvt. Rd. Right. Barricaded.
- 1.96 Jct. w/ pvt. Rd. Left.
- 2.09 Pump Chance, right.
- 2.14 Existing culvert, cross drain.
- 2.40 Existing culvert, cross drain.
- 2.50 Existing culvert, cross drain.
- 2.53 End Segment A1. Jct. w/ 33-3E-20.00, right.

- 2.59 End Segment A2.
- 2.77 Existing culvert, cross drain.
- 2.89 Replace existing 18" culvert with a 24" x 44' CSP with 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type). Drop outlet location 4' from existing.
- 3.04 Existing culvert, cross drain.
- 3.17 Replace existing 18" culvert with a 24" x 44' CSP with 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type). Dig out, outlet 25'.
- 3.18 End Segment B. Jct. w/ 33-3E-19.02, right.
- 3.28 End Road Renovation and Roadside Brushing. End of Road. End Segment C. Jct. w/ 33-3E-19.00 and 33-3E-19.03, left.

Road 33-3E-30.00 (Thunder Road)

ASC

MP Remarks

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. w/ 33-3E-19.00. Replace existing 18" culvert with a 18" x 50' CSP with 2 cubic yard splash pad. Place 20cy of surfacing material. Culvert installation shall be a Type 3 (refer to Exhibit C-8; Culvert Installation Details Sheet for installation type).
- 0.14 End Road Renovation and Roadside Brushing.

Road 33-3E-30.01 (Rocky Road)

ASC

MP Remarks

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. w/ 33-3E-19.00.
- 0.16 End Road Renovation and Roadside Brushing. Quarry, approximately 250cy stockpile.

Road 33-3E-34.00 (Medco A Road)

ASC

- 0.00 Begin Road Renovation and Roadside Brushing. Jct. w/ Butte Falls/Prospect Hwy. Existing culvert, cross drain.
- 0.06 Existing culvert, cross drain.
- 0.17 Existing culvert, cross drain.
- 0.17 Existing culvert, cross drain.
- 0.18 Jct. w/ 33-3E-34.01, Left.
- 0.28 Existing culvert, cross drain.
- 0.40 Existing culvert, cross drain.
- 0.47 Existing culvert, cross drain.
- 0.56 Existing culvert, cross drain.
- 0.69 End Segment A1A.

Smith B Round Timber Sale Exhibit C-12 Page 6 of 6

- 0.77 Existing culvert, cross drain.
- 0.79 Jct. pvt. rd. Left.
- 0.80 Existing culvert, cross drain.
- 0.81 Jct. pvt. Rd. Right.
- 0.98 Existing culvert, cross drain.
- 1.00 Existing culvert, cross drain. Jct. pvt. Rd. Right.
- 1.13 Existing culvert, cross drain.
- 1.44 Existing culvert, cross drain.
- 1.56 Existing culvert, cross drain.
- 1.60 Jct. pvt. rd. Right.
- 1.78 Existing culvert, cross drain.
- 1.82 Existing culvert, cross drain.
- 1.83 Existing culvert, cross drain. Jct. 33-3E-28.00, Left.
- 1.84 End Road Renovation and Roadside Brushing. Jct. w/ 33-3E-28.01, Left.

TABLE OF CONTENTS

SECTION	DESCRIPTION
100	General
200	Clearing and Grubbing
300	Excavation and Embankment
400	Pipe Culverts
500	Renovation and Improvement of Existing Roads
600	Watering
900	Aggregate Base Course - Screened Rock
1200	Aggregate Surface Course - Crushed Rock
1400	Slope Protection
1700	Erosion Control
1800	Soil Stabilization
2100	Roadside Brushing

GENERAL – 100

101 - Prework Conference(s):

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

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

102 - Definitions:

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

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

ACI - American Concrete Institute

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

<u>ASTM</u> - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

work.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

102a - Tests Used in These Specifications:

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

<u>AASHTO T 27</u> 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.

<u>AASHTO T 205</u> <u>Rubber balloon.</u> 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.

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

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

The towing vehicle and roller or self-propelled unit meeting the above requirements

shall be considered a vibratory roller unit.

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

CLEARING AND GRUBBING - 200

- This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans and as staked on the ground.
- Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- Where clearing limits for roadside vegetation maintenance sections have not been staked or shown on the plans, the limits shall extend 6 horizontal feet back from the center line of the ditch and 6 feet outside of the shoulder of the road prism.
- Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsections 202 and 202b as shown on the plans, as staked on the ground, and as

posted.

- 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 shall consist of decking at a location designated by the Authorized Officer.
- Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204c, and 204d between the top of the cut slope and the toe of the fill slope.
- 204a Stumps including those overhanging cut banks, shall be removed within the required excavation limits.
- 204c On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.
- Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- Clearing and grubbing debris shall be disposed of by chipping in accordance with Subsection 209, and/or scattering in accordance with Subsection 210, and/or piling in accordance with Subsection 211 at the road locations specified in Exhibit C-7.
- Not withstanding Subsections 204, 204a, 204d, 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.
- Clearing and grubbing debris shall be reduced to chips of an acceptable size and disposed of by scattering.

- Disposal of clearing and grubbing debris can be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- Disposal of clearing and grubbing debris on non-government property by scattering this material outside of clearing limits will be permitted provided the Purchaser obtains a written permit from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the permit and a written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.
- Disposal of clearing and grubbing debris can be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.
- No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.

- Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- Borrow shall consist of suitable material required for the construction of embankments or for other portions of the work; such material shall be obtained from sources selected by the Purchaser at his option and approved by the Authorized Officer.
- Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other 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.
- 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.
- Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.
- Layers of embankment material as specified under Subsections 305a, and 305b shall be moistened or dried to an uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f, 103g, 103h, and 103i.
- 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.
- 306g All fill slopes shall be compacted to (75) percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.

- 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.
- When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of (2) feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.
- Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics from sources shown on the plans.
- Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed 6 inches in depth until the required thickness shown on the plans is attained.
 - Each layer shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.
- Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- 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.

- In the construction of channel changes and stream-crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.
- Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- The finished grading shall be approved in writing by the Authorized Officer for the total project. The Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of the grading operations.

PIPE CULVERTS - 400

- 401 This work shall consist of furnishing and installing pipe culverts, full round downspouts, and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer from established construction stakes. 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.
- Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade. Grade culverts shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.

- Corrugated-**aluminized** steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274, or AASHTO M 289 as specified on the plans.
- Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.
- 406a "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.
- Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- 410 Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram included in the plans and the Culvert Installation Detail Sheet.
- Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled with selected granular or fine readily compactable soil material.
- Pipe culverts and pipe-arch culverts shall be bedded on a selected granular crushed rock material from stockpiles shown on the map 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.

- Side-fill material for pipe culverts shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel, and to 1 foot over the pipe with fine, readily compactable soil, crushed rock material from stockpiles shown on the plans, or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.
- For pipe culverts, side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe, and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 6 inches in depth and 1 pipe diameter/span, or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of (85) percent of the maximum density, is attained as determined by AASHTO T 99, Method C.
- Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- The pipe culverts after being bedded and backfilled as required by these specifications shall be protected by a 2-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.
- Construction of catch basins and ditch dams conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for grade culverts and culverts at the locations specified in Exhibit C-7.
- Construction of splash pads conforming to lines, grades, dimensions and typical diagram shown on the plans, shall be required for grade culverts and culverts at the locations specified in Exhibit C-7.
- Record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.
- Remove and dispose of old culverts in a legal manner, and for any fees required. The

Purchaser shall remove the old culverts from the work site within three (3) working days of completion of the culvert replacement work for each road.

- Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site in a manner that will avoid damage to adjacent property. Provide for downstream water flow with no more that 10% increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

- This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans, and as marked on the ground with stakes.
- The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes at the locations specified in Exhibit C-12.
- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 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 at the locations described in Exhibit C-12.
- Minimum compaction required shall be 1 hour of continuous rolling for each 3 stations of road, or fraction thereof, as measured along the centerline per layer of material.
- The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall

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

- Existing drainage structures at the locations specified in Exhibit C-7 shall be replaced with structures of the type, gauge, diameter, and length shown on the plans and in accordance with the placement requirements set forth under section 400 of these specifications.
- Vegetation encroaching on the roadbed and the drainage ditches of existing roads at the locations specified in Exhibit C-12 shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.
- The finished grading shall be approved in writing by the Authorized Officer 3 days prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of the grading operations.

WATERING - 600

- This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.
- Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods.
- Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the road bed.
- Water required under these specifications can be obtained locations indicated below:

Willamette Meridian

Common Name	Section	T	R	Road Location
Beaver Dam Creek	33	33S	03E	33-3E-34.01
Smith Creek PC	33	33S	03E	33-3E-19.04

Use of water sources are subject to applicable State water regulations. In the event that the required water is not available at the locations specified, water shall be obtained from a source approved by the Authorized Officer. A reduction shall be made in the total purchase price to reflect additional hauling distance based on rental rates from current BLM Timber Appraisal Cost Schedules.

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

AGGREGATE BASE COURSE - 900 SCREENED ROCK MATERIAL

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

<u>Table 903</u> <u>SCREENED ROCK MATERIAL GRADATION REQUIREMENTS</u>

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

Sieve Designation	Gradation			
Besignation	A	В	С	D
4 inch	100			
3 inch	95-100	100		
2 inch		95-100	100	
1-1/2 inch			95-100	100
1 inch				95-100
No. 4	11-44	16-49	21-54	26-59
No. 200	2-15	2-15	0-15	0-15

- Screened rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions as determined by AASHTO T 96.
- 904a Screened rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.
- The roadbed as shaped and compacted under sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of screened rock materials. Notification for final inspection, prior to rocking, shall be 72 hours prior to that inspection and shall be 10 days prior to start of rock operations.
- 906 Screened rock material shall be placed in layers not to exceed 6 inches in thickness. Where the required total thickness is more than 6 inches, the rock material shall be shaped and compacted in two or more layers of approximately equal thickness.
- 906a Screened rock materials used to repair or reinforce a soft, muddy, frozen, yielding, or rutted subgrades shall not be construed as surfacing under this specification.

- Filler or binder material obtained from sources shown on the plans and approved by the Authorized Officer shall be uniformly blended with the screened rock material on the road. Filler or binder materials shall be free from stones, vegetative matter, and other deleterious materials.
- 908 Screened rock material shall be blade-processed and spread to required dimensions.

 Processing shall be performed in such a manner as to minimize aggregate segregation.
- Screened rock material, bladed and shaped as specified, shall be moistened or dried to optimum moisture content for maximum compaction and compacted to full width by compaction equipment conforming to the requirements of Subsections 103f, 103g, 103h, and 103i. Minimum compaction shall be 6 passes over each full-width layer, or fraction thereof.

AGGREGATE SURFACE COURSE - 1200 CRUSHED ROCK MATERIAL

- This work shall consist of hauling and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the purchaser's expense.
- Crushed rock materials used in this work shall consist of quarry rock, stone, gravel, or other approved materials obtained from sources (BLM stockpiles) shown on the plans Exhibit C-2.
- 1208a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1209 Shaping and compacting of roadbed and/or base course shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsection 500 for placing on the roadbed and Subsections 900 for placing on the base course.

- 1210 Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed and base course in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the ground. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved in writing by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 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, 103g, 103h, or 103i. Minimum compaction shall be 6 passes over each full-width layer, or fraction thereof.
- The Purchaser is authorized to remove crushed rock material, from BLM stockpiles for placement on culvert replacements, spot rocking, and for capping armored water dips in accordance with the requirements and details shown on the plans and maps. The Purchaser shall maintain records of material removed from each of the stockpile sites designated on the maps. These records shall be submitted to the Authorized Officer upon completion of the surfacing operations.

SLOPE PROTECTION - 1400

This work shall consist of furnishing, hauling, and placing stone materials for culvert splash pads 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 culvert splash pads at the purchaser's expense and as directed by the Authorized Officer.

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

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

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

- 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 1405¹

Class	Range of Intermediate Dimensions ² (inches)	Range of Rock Mass ³ (pounds)	% of Rock Equal or Smaller by Count
0	6-8	18-42	100
	5-6	10-18	85
	2-5	1-10	50
	0-2	0-1	15

1	9-15	59-270	100
	7-11	28-110	85
1	5-8	10-42	50
	3-6	2-18	15
	15-21	270-750	100
2	11-15	110-270	85
2	8-11	42-110	50
	6-8	10-42	15
	21-27	750-	100
		1600	100
3	15-19	270-560	85
	11-14	110-220	50
	8-10	42-81	15
	27-33	1600-	100
		2900	100
4	19-23	560-990	85
	14-17	220-400	50
	9-12	59-140	15

¹Gradation includes spalls and rock fragments to provide a stable, dense mass.

²The intermediate dimension is the longest straight-line distance across the rock that is perpendicular to the rock's longest axis on the rock face with the largest projection plane.

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

EROSION CONTROL - 1700

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

³Rock mass is based on a specific gravity of 2.65 (165#/cu.ft.) and 85 percent of the cubic volume as calculated using the intermediate dimension.

- 1704 The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.
- 1705 The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 21,780 square feet (0.50 acres) after October 15 without prior approval by the Authorized Officer.
- 1706 The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right-of-way shall not exceed 21,780 square feet (0.50 acres) after October 15 without prior approval by the Authorized Officer.
- 1707 Completed and partially completed segments of the road at the locations specified in Exhibit C-12 carried over the winter and early spring periods shall be stabilized by seeding and mulching in accordance with Section 1800.
- 1708 Newly constructed roads to be carried over the winter period, shall be blocked to vehicular traffic.
- 1708a Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.
- 1711 The Purchaser shall construct energy dissipators (splash pads) for pipe culverts conforming to the requirements and details shown on the respective exhibits and on the plans.

SOIL STABILIZATION – 1800

- 1801 This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications. This work is required for road acceptance under Section 18 of this contract.
- 1802 Soil stabilization work consisting of seeding and mulching shall be performed on existing roads and designated locations in accordance with these specifications at the locations specified in Exhibit C-7.

- 1802a Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, landings, disturbed areas, and disposal sites in accordance with these specifications and as shown on the plans.
- 1803 Soil stabilization work as specified under 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 in accordance with Subsection 1707 and then complete the requirements of Section 1800 the next construction season. The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

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

- 1810 Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.
- 1811 The Purchaser shall furnish and apply to approximately **1.10** 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:

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

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

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

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

- 1814 The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.
- 1815 The seed and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 1815b.
- 1815b Dry Method Blowers, mechanical seeders, seed drills, landscape seeders, 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.

- Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- 1822 No materials shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 1824 Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING - 2100

- This work shall consist of the removal of vegetation from the road prism variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet (C-6) of this exhibit, at designated locations as shown in the plans.
- 2102 Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.
- Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at D.B.H. shall be cut to a maximum height of 1 inch above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs below the 2 inch area will be severed from the trunk.
- 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 inches of the trunk to produce a smooth vertical face.
- 2106 Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot in height, shall be cut within these areas.
- 2108 Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 Debris resulting from this operation shall be scattered (unless otherwise noted in the work list) downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.
- 2110 Vegetation 6 inches and smaller in diameter shall be chipped where indicated in the work list. Chips shall be scattered downslope from the roadway. Vegetation over 6 inches in diameter shall be disposed of by direction of the Authorized Officer.
- 2114 Sections of roadway to have vegetation removed will be marked at start and stop points with red-topped painted stakes.
- 2115 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2116 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

SPECIAL PROVISIONS

1. CULVERTS / CMPs:

When removing culverts unless constructing armored water dips, pull slopes back to
the natural slope, or at least 2:1, to minimize sloughing, erosion, and the potential
for the stream to undercut stream banks during periods of high stream flows.
 Remove excess sediment from stream channels during culvert removal,
replacement, and installation activities. Apply seed and mulch to all disturbed or
exposed soils at each stream culvert removal site.

2. DAMAGE:

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

3. DUST ABATEMENT:

- The application of dust abatement materials such as Lignin, Mag-chloride, or approved petroleum based dust abatement products shall be restricted from application just after severely wet weather, at stream crossings, or other locations that could result in direct delivery to a water body.
- All dust abatement applications shall be approved by the Authorized Officer prior to application.

4. PERMITS:

- All permits required are the responsibility of the Purchaser.

5. WATER SOURCE:

- The Purchaser is responsible for obtaining water and associated rights and permits.

6. EQUIPMENT

Construction equipment shall be washed prior to entering BLM lands. Removal of all dirt, grease, and plant parts that may carry noxious weed seeds or vegetative parts is required. Equipment shall be inspected by CO prior to entering BLM lands. Provide 48 hours' notice of inspection to BLM prior to mobilization.

7. SOIL STABILIZATION:

 All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, if available. BLM will furnish certified weed free straw, if available. The Purchaser shall supply certified weed free straw in not available from the BLM.

8. ROAD RENOVATION:

- Road renovation shall generally take place between May 15th and October 15th of the same year. Waivers may be granted from the Authorized Officer for working outside of this time period. Seasonal restrictions for stream work and wildlife may still apply.

9. STREAMS:

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

10. ROADSIDE BRUSHING

- While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. All culvert inlets and outlets shall be brushed for a radius of 4 feet.
- While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C-12) shall have the branches pruned rather than being felled.

11. COMMERCIAL AGGREGATE/ROCK

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

12. WET SEASON HAUL

A) The Purchaser may wet season haul, with the Authorized Officer's approval on the following roads 33-3E-19.01 A1-A2, 33-3E-28.01 A1-C, and the 33-3E-34.00 A1A-A2. If the use of these roads during the wet season causes or begins to cause road damage or the transport of sediment into streams, the Authorized Officer may suspend wet season haul or require additional erosion control devices to prevent

Exhibit C-14 Smith B Round Timber Sale Page 3 of 3

- damage or off-site transportation of sediment. Additional rock may be required at the Purchaser's expense to repair any damage that occurs to the road during wet season haul.
- B) The Purchaser shall have the option to rock road numbers 33-3E-19.01 A, 33-3E-19.04 A, and/or 33-3E-20.00 A for wet weather haul. Purchaser option rocking depths will be determined and approved by the Authorized Officer. Any costs for rocking and installation of additional drainage features will be at the Purchaser's expense and shall be completed in accordance with the plans and specifications show in Exhibit C of this contract.

SECTION	DESCRIPTION
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance

GENERAL - 3000

The Purchaser shall be required to maintain all roads as shown on the Exhibit D-2 map of this

3001

	contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
3001a	The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3403 and 3403a.
3002	The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
3003	The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
3004	The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.
	OPERATIONAL MAINTENANCE - 3100
3101	The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
3103	The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
3104	The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
3104a	Removal of bank slough and slide material includes placement of material at the nearest

designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.

3104b

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

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

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

3105

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

3106

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

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

3107

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

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

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

SEASONAL MAINTENANCE - 3200

- The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 31 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the preceding operating seasons.
- 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.
- The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

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

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

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

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

OTHER MAINTENANCE - 3400

The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.

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.

The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one- half gallon per yd² of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds³ of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd² when a specified lesser rate is approved by the Authorized Officer. The Purchaser shall secure any necessary water permits and pay all required water fees for use of the 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 10 miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering based on equipment rental rates from the current BLM Road Cost Guide.

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.

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.

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

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

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

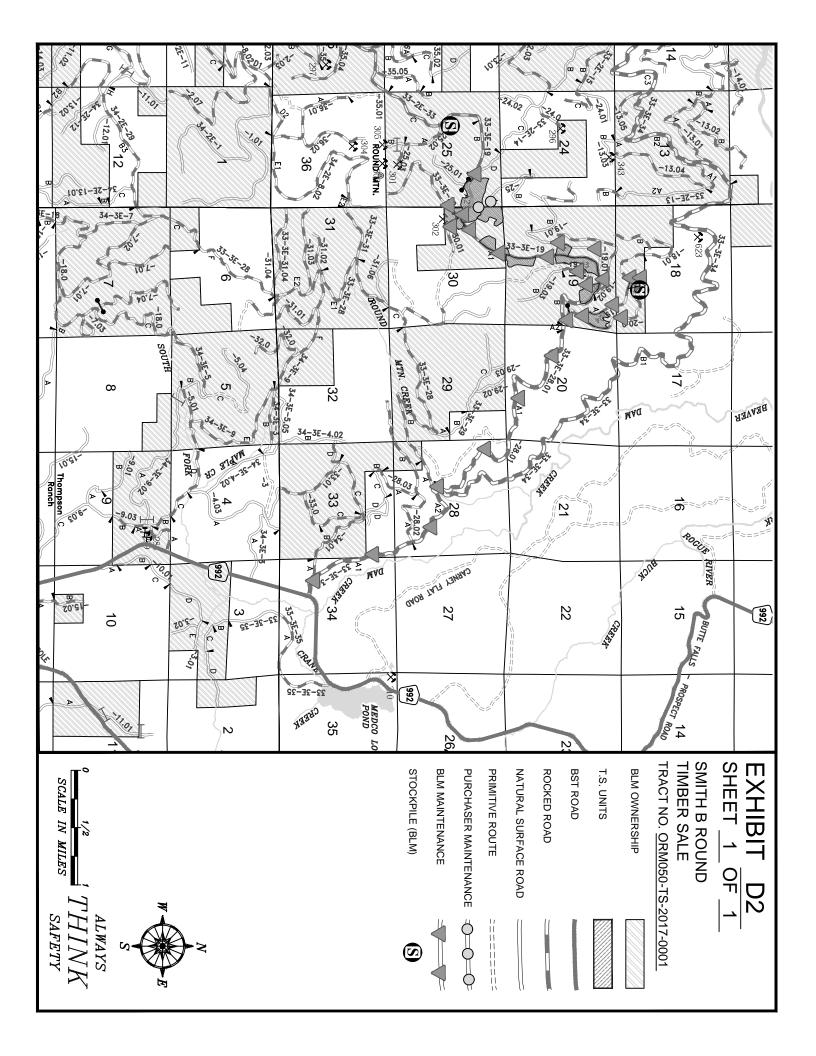
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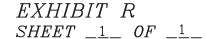
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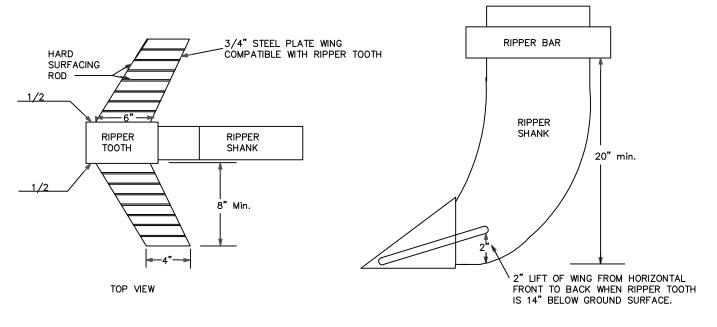
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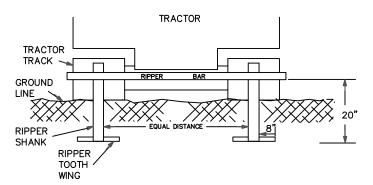






SIDE VIEW



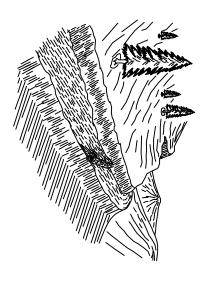


NOTES: TYPICAL RIPPER TOOTH CONSTRUCTION

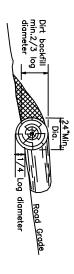
- 1. USE HARD SURFACING ROD FOR ALL EDGE AND SURFACE REINFORCEMENT.
- 2. WELD THAT ATTATCHES WINGS TO RIPPER TEETH MUST BE COMPATIBLE WITH METAL IN TEETH AND WINGS.
- RIPPER SHANKS AND RIPPER TEETH MAY BE NEW OR USED.
- WINGS SHALL PROVIDE TWO (2) INCHES OF LIFT FROM THE HORIZONTAL WHEN TEETH ARE EXTENDED FOURTEEN (14) INCHES BELOW THE GROUND SURFACE.

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CHEF, BRAN	CH OF ENGINEERING (R DISTRICT ENGINEES	1
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DATE: October 2	2009	SHEET	1 OF 1
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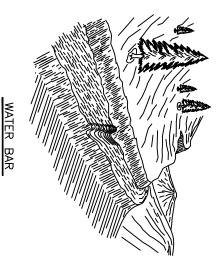




- 2:1 LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.

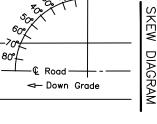
 ALL BARRICADES SHALL BE SKEWED 30 DEGREES THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.

 THE MINIMUM SMALL END DIAMETER OF THE LOG
- BARRICADE SHALL BE 24".



Level line

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



WATER BAR SPACING *

41-60	21-40	15-20	10-14	7–9	4-6	%	ROAD LC GRADE CL	
50	90	150	200	300**	400	FEET	LOAM OR CLAY LOAM	
25	50	90	150	200**	300	FEET	DECOMPOSED GRANITE	

* DISTANCES ARE MAXIMUM.

** ON GRADES IN EXCESS OF 10%
CONSTRUCT WATER BARS.

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

CONTROL INSTALLATION DRAINAGE & EROSION

DEAMING NO DEL11	DATE October 2009 SHEET	DRAWN DCM SCALE	APPROVED	REVIEWED	DESIGNED BLM
OR-11-9113.4-8		SCALE NONE			LM



United States of America

Department of the Interior

Bureau Of Land Management

Timber Sale Appraisal

District: Medford

Sale Name: Smith B Round

Sale Date: 06/22/2017

Appraisal Method: 16' MBF

Contract #: ORM05-TS-17-01

Job File #: M11331

Master Unit: Jackson

Planning Unit: Butte Falls

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Timber - Sale - Summary

Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	33S	2E	25	E1/2NE1/4.
O&C	33S	3E	18	SW1/4SE1/4.
O&C	33S	3E	19	NE1/4, E1/2SW1/4, E1/2NW1/4.
O&C	33S	3E	30	N1/2NW1/4, SW1/4NW1/4.

Cutting Volume (16' MBF)

	Cutting volume (10 MBF)											
Unit	WF	DF	PP	IC	WH				Total	Regen	Partial	ROW
18-1	31	9							40	0	3	0
19-1	58	15		0					73	0	14	0
19-2	38	42		1	0				81	0	11	0
19-3	132	29		0	0				161	0	18	0
19-4	56	18							74	0	7	0
19-5	53	44		0					97	0	11	0
19-6	20	7		1					28	0	2	0
25-1	90	57	65	4					216	0	40	0
30-1	28	47		0	0				75	0	8	0
30-2	105	20		0	4				129	0	15	0
30-3	91	32		1	1				125	0	15	0
Totals	702	320	65	7	5				1,099	0	144	0

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Logging Costs per 16' MBF		Profit & R	isk
Stump to Truck Transportation	\$ 113.92 \$ 49.99	Total Profit & Risk Basic Profit & Risk 10 % + Addition	
Road Construction Road Amortization	\$ 58.75 \$ 0.00	Back Off Tract Feat	0 %
Road Maintenance Other Allowances :	\$ 8.40	Avg Log White Fir: 100 bf Recovery White Fir: 92 %	All : 100 bf All : 90 %
Fuels Treatment	\$ 15.01	Salvage White Fir: 0 %	All : 0 %
Other Costs Total Other Allowances :	\$ 9.09 \$ 24.10	Avg Volume (16' MBF per Acre) Avg Yarding Slope	8 10 %
		Avg Yarding Distance (feet) Avg Age	400 125
		Volume Cable	14 %
		Volume Ground Volume Aerial	86 % 0 %
		Road Construction Stations	0.00
		Road Improvement Stations	0.00
		Road Renovation Stations	0.00
		Road Decomission Stations	0.00
		Cruise	
		Cruised By ner,	Parks, Siemer, Worman, Rentz
		Date	10/01/2016
Total Logging Costs per 16' MBF	\$ 255.16	Type of Cruise	3P
Utilization Centers	s	County, State	Jackson, OR
Center #1 : White City, OR	35 Miles	Net Volu	me
Center #2	0 Miles	Green (16' MBF)	1,099
Weighted distance to Utilization Centers Length of Contract	35 t	Salvage (16' MBF)	0
Cutting and Removal Time	36 Months	White Fir Peeler	15
Personal Property Removal Time	1 Months	Export Volume	0
		Scaling Allowance (\$0.75 per 16' MBF)	\$824.25

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Medford Smith B Round ORM05-TS-17-01

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
WF	1,625	702	\$ 470.95	\$ 56.51	\$ 255.16			\$ 159.30	\$ 111,828.60
DF	713	320	\$ 583.83	\$ 70.06	\$ 255.16			\$ 258.60	\$ 82,752.00
PP	477	65	\$ 233.41	\$ 28.01	\$ 255.16			\$ 23.30	\$ 1,514.50
IC	83	7	\$ 453.58	\$ 54.43	\$ 255.16			\$ 144.00	\$ 1,008.00
WH	40	5	\$ 448.26	\$ 53.79	\$ 255.16			\$ 139.30	\$ 696.50
Totals	2,938	1,099							\$ 197,799.60

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Douglas-fir			5.0	68.0	25.0	2.0
White Fir			2.0	70.0	25.0	3.0
Incense-cedar				49.0	45.0	6.0
Western Hemlock				28.0	68.0	4.0
Ponderosa Pine				30.0	63.0	7.0

Marginal Log Volume

Species	Grade #7	Grade #8
Douglas-fir		
White Fir		
Incense-cedar		
Western Hemlock		
Ponderosa Pine		

Appraised By: Parks, Corey **Date:** 10/31/2016

Area Approval By: Date:

District Approval By: Date:

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Prospectus

Appraisal Method: (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
White Fir	1,625	702	584	1,133
Douglas-fir	713	320	266	494
Ponderosa Pine	477	65	42	123
Incense-cedar	83	7	5	15
Western Hemlock	40	5	4	10
Total	2,938	1,099	901	1,775

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
1,217	2,938	414	16.6	1,204	12,046	100

Merch	Cull	Total	Logs per	Net	Gross	Recovery
Logs	Logs	Logs	Tree	Volume	Volume	
12,046	346	12,392	4.2	1,099	1,217	90 %

White Fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
765	1,625	470	18.0	762	7,636	100

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
7,636	124	7,760	4.8	702	765	92 %

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Cutting Areas

	Regen	Partial Cut	Right Of Way	Total
Unit	Acres	Acres	Acres	Acres
18-1		3		3
19-1		14		14
19-2		11		11
19-3		18		18
19-4		7		7
19-5		11		11
19-6		2		2
25-1		40		40
30-1		8		8
30-2		15		15
30-3		15		15
Totals :		144		144

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Exhibit B

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

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

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
White Fir	702		
Douglas-fir	320		
Ponderosa Pine	65		
Incense-cedar	7		
Western Hemlock	5		
Sale Totals	1,099		

Unit Details (16' MB)

Unit	18-1	3 Acres	Value ner Acre · \$0 00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	9		
White Fir	31		
Unit Totals	40		

Unit 19-1	14 Acres	Value per Acre: \$0.00
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Species	Net Volume	Bid Price	Species Value
Douglas-fir	15		
Incense-cedar			
White Fir	58		
Unit Totals	73		

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BUREAU	OF LAND MAN	AGEMENT	
Jnit 19-2	11 Acres	Value per A	cre: \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	42		
Incense-cedar	1		
Western Hemlock			
White Fir	38		
Unit Totals	81		
Unit 19-3	18 Acres	Value per A	cre : \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	29		
Incense-cedar			
Western Hemlock			
White Fir	132		
Unit Totals	161		
Jnit 19-4	7 Acres	Value per A	cre : \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	18		
White Fir	56		
Unit Totals	74		
Jnit 19-5	11 Acres	Value per A	cre : \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	44		
Incense-cedar			
White Fir	53		
Unit Totals	97		
Jnit 19-6	2 Acres	Value per A	cre : \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	7	-	,

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1

20

28

Incense-cedar

Unit Totals

White Fir

Unit	25-1	40 Acres	Value per Acre: \$0.00

Species	Net Bid Volume Price		Species Value
Douglas-fir	57		
Incense-cedar	4		
Ponderosa Pine	65		
White Fir	90		
Unit Totals	216		

Unit 30-1 8 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar			
Western Hemlock			
White Fir	28		
Unit Totals	75		

Unit 30-2 15 Acres Value per Acre: \$0.00

Species	Net Species Volume		Species Value
Douglas-fir	20		
Incense-cedar			
Western Hemlock	4		
White Fir	105		
Unit Totals	129		

Unit 30-3 15 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	32		
Incense-cedar	1		
Western Hemlock	1		
White Fir	91		
Unit Totals	125		

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Sale Volume Totals

144 Acres	0 Regen	144 Partial	0 R/W	13 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
White Fir	1,625	7,636	124	702	762	765	584	635	638	1,133	1,229	1,237
Douglas-fir	713	2,914	75	320	357	365	266	297	303	494	552	566
Ponderosa Pine	477	1,187	99	65	71	73	42	47	49	123	135	140
Incense-cedar	83	176	19	7	8	8	5	6	7	15	17	18
Western Hemlock	40	133	29	5	6	6	4	5	5	10	11	12
Totals	2,938	12,046	346	1,099	1,204	1,217	901	990	1,002	1,775	1,944	1,973

Unit Totals

Unit: 18-1	3 Acres	0 Regen	3 Partial	0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	57	304	6	34	33	31
Douglas-fir	13	49	1	10	10	9
Unit Totals	70	353	7	44	43	40

Unit: 19-1	14 Acres		0 Reger	1	14 Partial	0 R/W
	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
White Fir	91	574	12	63	63	58
Douglas-fir	8	85	1	17	17	15
Incense-cedar	1	4	1			

14

80

80

73

Unit: 19-2	11 Acres	0 Reger	1	11 Partial	0 R/W
			1/LMDE	4613600	1613400

663

Unit Totals

100

	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	37	233	3	47	47	42
White Fir	130	379	8	42	42	38
Incense-cedar	6	14	5	1	1	1
Western Hemlock	3	9	2			
Unit Totals	176	635	18	90	90	81

Unit: 19-3	18 Acres		0 Reger	1	18 Partial	0 R/W
	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net

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Unit Totals	374	1,471	31	177	176	161
Incense-cedar	3	2	1			
Western Hemlock	1	4	1			
Douglas-fir	41	153	2	31	31	29
White Fir	329	1,312	27	146	145	132

Unit: 19-4	7 Acres		0 Reger	1	7 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	103	554	11	61	61	56
Douglas-fir	39	98	1	20	20	18
Unit Totals	142	652	12	81	81	74

Unit: 19-5	11 Acres		0 Reger	1	11 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	99	519	11	57	57	53
Douglas-fir	44	246	3	49	49	44
Incense-cedar	2	3	1			
Unit Totals	145	768	15	106	106	97

Unit: 19-6	2 Acres		0 Reger	1	2 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	49	195	4	22	21	20
Douglas-fir	19	41	1	8	8	7
Incense-cedar	6	8	3	1	1	1
Unit Totals	74	244	8	31	30	28

Unit: 25-1	40 Acres		0 Reger	1	40 Partial	0 R/W
	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
White Fir	417	1,577		96	96	90
Ponderosa Pine	477	1,187	99	73	71	65
Douglas-fir	405	1,459	55	72	64	57
Incense-cedar	53	119		4	4	4
Unit Totals	1,352	4,342	154	245	235	216

Unit: 30-1	8 Acres		0 Reger	ı	8 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	41	262	4	53	53	47
White Fir	34	290	6	31	31	28

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Western Hemlock	1	2	1			
Incense-cedar	1	1				
Unit Totals	77	555	11	84	84	75

Unit: 30-2	15 Acres		0 Regen	<u>l</u>	15 Partial	0 R/W	
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net	
White Fir	171	1,034	21	114	114	105	
Douglas-fir	24	109	2	22	22	20	
Western Hemlock	31	97	21	4	4	4	
Incense-cedar	1	3	1				
Unit Totals	227	1,243	45	140	140	129	

Unit: 30-3	15 Acres		0 Regen 15 Partial 0 R/		0 R/W	
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	145	898	18	99	99	91
Douglas-fir	42	179	2	36	36	32
Incense-cedar	10	22	7	2	2	1
Western Hemlock	4	21	4	2	2	1
Unit Totals	201	1,120	31	139	139	125

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Stump to Truck Costs

Total (16' MBF)

Total Stump to	Net	Cost / Net
Truck Costs	Volume	Volume
\$ 125,194.44	1,099	\$ 113.92

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Wheel Skidder	GM MBF	802	\$ 93.39	\$ 74,898.78
Short Twr<40	GM MBF	165	\$ 162.48	\$ 26,809.20
Cut To Length	GM MBF	237	\$ 97.58	\$ 23,126.46
Subtotal				\$ 124,834.44

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Subtotal				

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Dozer	1	\$ 360.00	\$ 360.00
Subtotal			\$ 360.00

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Other Allowances Costs

Total (16' MBF)

Total Other	Net	Cost / Net	Total Buy Out
Allowances Costs	Volume	Volume *	Cost
\$26,485.00	1,099	\$24.10	\$0.00

Fuels Treatment

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Hand Pile, Cvr - Level 3	\$ 13,675.00	\$ 12.44	N	\$ 0.00
Lop and Scatter-Lvl 3	\$ 2,820.00	\$ 2.57	N	\$ 0.00
Subtotal	\$ 16,495.00	\$ 15.01		\$ 0.00

Other Costs

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Ripping	\$ 415.00	\$ 0.38	N	\$ 0.00
Waterbar Skids	\$ 5,625.00	\$ 5.12	N	\$ 0.00
Hand Seeding @ 17 lb seed per hour	\$ 2,460.00	\$ 2.24	N	\$ 0.00
Equipment Washing	\$ 740.00	\$ 0.67	N	\$ 0.00
Equipment Washing	\$ 750.00	\$ 0.68	N	\$ 0.00
Subtotal	\$ 9,990.00	\$ 9.09		\$ 0.00

^{*} Cost / Net Volume has been rounded to the nearest \$0.01 Subtotals may not tie to Sale Total Cost / Net Volume.

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Medford Smith B Round ORM05-TS-17-01

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Consolidated Comments

General
Yarding & Loading
Wheel Skidder = manual falling / bucking (units 18-2,19-1,19-2,19-3,19-5,19-6,30-2,30-3).
Cut to length = harvester, forwarder, mechanical harvesting (25-1).
Short tower = yoader manual falling / bucking (30-1,19-4).
Additional move-in = ripping cat @\$90/hr * 4 hrs
Road Costs
(see Engineering Appraisal for details).
Transportation
(see Transportation appendix for details).
Other Allowances
ripping = new landings

Prospectus

hand seed = seed & mulch(temp roads, new landings, pre-designated skid trails, designated skid trail @ first 100')

Extra profit and risk due to low yarder volume.

waterbar = pre-designated and designated skids

Equipment washing #1 = loader, yoader Equipment washing #2 = skidder, de-limber, cat

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Version: 5.2.0.74

Indated: 4/13/2016

Summary of All Roads and Projects Update	sion: 5.2.0.74 ed: 4/13/2016
T.S. Contract Name: Smith B Round Tract No: Sale Date: Prepared by: B. Sikes Ph: x2286 Print Date: 3/24/2017 7:47:08 AM Construction: 0.00 sta	
Improve: 0.00 sta Renov: 546.47 sta Decom: 0.00 sta Temp: 0.00 sta	
200 Clearing and Grubbing: 0.0 acres	. \$0.00
300 Excavation:	. \$0.00
400 Drainage:	. \$30,299.88
500 Renovation: Blading 10.35 mi	. \$15,065.02
700-1200 Surfacing:	. \$8,851.20
1300 Geotextiles:	\$0.00
1400 Slope Protection:	. \$1,700.03
1800 Soil Stabilization: 1.1 acres	. \$958.86
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 15.0 acres	. \$6,486.75
2300 Engineering: 0.00 sta	. \$0.00
2400 Minor Concrete:	. \$0.00
2500 Gabions:	. \$0.00
8000 Miscellaneous:	. \$1,200.00
Mobilization: Const. \$0.00 Surf. \$0.00	. \$0.00
Quarry Development:	. \$0.00
Total: 1,099 mbf @ \$58.746/mbf = Notes:	\$64,561.73
Quantities shown are estimates only and not pay items.	

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

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-2E-25.00 Road Name: Rd. Mtn Sp. 1 Road Renovation: 0.08 mi 14 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$89.92
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.1 acres	\$57.66
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total:	\$147.58

Notes:

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

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-19.00 Road Name: Medco B Road Renovation: 1.99 mi 17 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 288 lf DownSpout: 0 lf PolyPipe: 0 lf	\$16,965.10
500 Renovation:	\$2,901.70
700-1200 Surfacing:	\$3,393.60
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.7 acres	\$725.24
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 2.9 acres	\$1,672.14
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total: Notes:	\$25,657.78

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

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-19.01 Road Name: PowerhouseView Upper Road Renovation: 0.51 mi 12 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.51 mi	\$743.65
700-1200 Surfacing:	\$2,791.20
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.7 acres	\$403.62
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,200.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total:	\$5,138.47

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

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-19.03 Road Name: Powerhouse Sp	
Road Renovation: 0.40 mi 14 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$583.26
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.6 acres	\$345.96
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total:	\$929.22

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-19.04 Road Name: 14 Stings ML	
Road Renovation: 0.63 mi 14 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$918.63
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.9 acres	\$518.94
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total: Notes:	\$1,437.57

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-20.00 Road Name: 14 Stings Lower Road Renovation: 1.32 mi 17 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$1,924.74
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.9 acres	\$1,095.54
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total:	\$3,020.28
Notes:	

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-28.01 Road Name: Medco B Road Renovation: 3.28 mi 16 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 88 lf DownSpout: 0 lf PolyPipe: 0 lf	\$10,686.92
500 Renovation:	\$4,782.70
700-1200 Surfacing:	\$2,181.60
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$1,700.03
1800 Soil Stabilization: 0.3 acres	\$175.22
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 4.8 acres	\$1,383.84
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total: Notes:	\$20,910.30

Notes:

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-30.00 Road Name: Thunder Road Road Renovation: 0.14 mi 16 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 50 lf DownSpout: 0 lf PolyPipe: 0 lf	\$2,647.86
500 Renovation: Blading 0.14 mi	\$204.14
700-1200 Surfacing:	\$484.80
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$58.41
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.2 acres	\$115.32
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total: Notes:	\$3,510.53

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-30.01 Road Name: Rocky Road Road Reposition: 0.16 min 14 ft Subranda 2 ft ditab	
Road Renovation: 0.16 mi 14 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.16 mi	\$233.30
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.2 acres	\$115.32
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total: Notes:	\$348.62

T.S. Contract Name: Smith B Round Sale Date: Road Number: 33-3E-34.00 Road Name: Medco A Road Road Renovation: 1.84 mi 16 ft Subgrade 3 ft ditch 4/13/2016	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 1.84 mi	\$2,682.98
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 2.7 acres	\$778.41
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00	\$0.00
Quarry Development:	\$0.00
Total:	\$3,461.39
Notes:	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

33-2E-25.00

T.S. Contract Name:	Smith B Round S	ale Date:			
Road Number 33-2E-25.00 33-3E-19.00 33-3E-19.01 33-3E-19.04 33-3E-20.00 33-3E-28.01 33-3E-30.00 33-3E-30.00 33-3E-30.01 33-3E-34.00	Const Improv	Renov 4.22 105.07 26.93 21.12 33.26 69.70 173.18 7.39 8.45 97.15	Decomm	Temp	
Total Sta:		546.47			
33-2E-25.00 33-3E-19.00 33-3E-19.01 33-3E-19.04 33-3E-20.00 33-3E-28.01 33-3E-30.00 33-3E-30.00 33-3E-30.00	Totals:	Clearing acres 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Haul sta-yds 0	Haul yd-mi	
400 Drainage					
Road Number 33-3E-19.00 33-3E-28.01 33-3E-30.00	Culvert P 288 lf 88 lf 50 lf	olypipe 0 lf 0 lf 0 lf	Downspout 0 lf 0 lf 0 lf	: - -	
Total Drainage:	426 lf			-	
54" x 50' Cul Excavator - L Vibratory rol	3-3E-28.01 vert				12 hr 4 hr
500 Renovation		Blade Mile	es Slide	СУ	

0.08

Continuation of Construction Quantities

33-3E-19.00		1.99	0
33-3E-19.01		0.51	0
33-3E-19.03		0.40	0
33-3E-19.04		0.63	0
33-3E-20.00		1.32	0
33-3E-28.01		3.28	0
33-3E-30.00		0.14	0
33-3E-30.01		0.16	0
33-3E-34.00		1.84	0
	Totals:	10.35	0

Surfacing (Loose Cubic Yards)

Note: Due to slight rounding differences between total LCY vs. subtotaled LCY, Totals shown here may not be exactly as shown in the road summaries and worksheets.

Quarry Name: Commercial					
Grid Rolled / Pitrun		Roadway	Turnouts	Other	
33-3E-19.01		0	0	120	120
	Totals:	0	0	120	120
Quarry Name: BLM					
Screened		Roadway	Turnouts	Other	
33-3E-19.01		0	0	60	60
33-3E-28.01		0	0	90	90
33-3E-19.00		0	0	140	140
33-3E-30.00		0	0	20	20
	Totals:	0	0	310	310

1300 Geotextiles

Totals: No Quantities

1400 Slope Protection Slope Protection Class 4 33-3E-28.01

L.C.Y.s 27

Totals: 27

1800 Soil stabilization - a 33-3E-19.00 33-3E-28.01	acres	Dry W/O D Mulch 0.0 0.0	Ory/with Mulch 0.7 0.3	Hydro Mulch
33-3E-30.00		0.0	0.1	
	Totals: Small Quant	0.0 tity Factor	1.1 of 1.53	0.0

1900 Cattleguards

Totals: No Quantities

acres
0.1
2.9
0.7

Continuation of Con	struction Qua	ntities
33-3E-19.03		0.6
33-3E-19.04		0.9
33-3E-20.00		1.9
33-3E-28.01		4.8
33-3E-30.00		0.2
33-3E-30.01		0.2
33-3E-34.00		2.7
	Totals:	15.0
2300 Engineering		stations
	Totals:	0.00
2400 Minor Concrete	m-t-1	Wa Overstitian
	Totals:	No Quantities
2500 Gabions	Totals:	No Quantities
8000 Miscellaneous Construct Armored Wa AWD	ter Dip 33-	3E-19.01

Sale: Smith B Round

Sale Date:

Prep. By : B. Sikes

Tract No:

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1.1) Road Use - Amortization: \$0.00/1099 MBF = \$0.00/MBF	
Road Maintenance Obligation: (2.1) BLM Maintenance	\$6,461.43 .46
(5.1) Purchaser Maintenance Rockwear	\$1,170.46 \$0.00 \$1,156.44 \$0.00 \$8,788.32
Purchaser Maintenance Allowances:	
(5.2A) Move In	\$371.70
(5.2B) Culverts, Catch Basins, Downspouts	\$0.00
(5.2C) Grading, Ditching	\$57.64
(5.2D) Slide Removal and Slump Repair	\$0.00
(5.2E) Dust Palliative (Water)	\$17.91
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	\$447.25
(2.1-5.2G) Cost/MBF (\$8,788.32 + \$447.25) /1099 MBF =	\$8.40/MBF
(5.2H) Decommissioning	\$0.00
(5.2H) Cost/MBF \$0.00/1099 MBF =	\$0.00/MBF
Total Cost/MBF (Excluding Road Use) \$9,235.58/1099 MBF =	\$8.40/MBF

1) Road Use Fees - Amortization

Details

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

Subtotal by agreement number

(1.1) Subtotal \$0.00

2) BLM Maintenance - Timber Haul

	MA	INTENA	ANCE (2.3	1)		ROCKWEA	R (2.2)	
Road Number A	Surf		Maint	Vol				
and Segment N	Type	Mi	x Fee x	MBF	= Maint	Fee x	MBF =	Rkwear
33-3E-28.01B-CN	ASC	0.70	0.95	986	\$655.69	0.60	986	\$414.12
33-3E-19.00A1 N	ASC	1.58	0.95	670	\$1,005.67	0.60	670	\$635.16
33-3E-30.01 N	ASC	0.16	0.95	50	\$7.60	0.60	50	\$4.80
33-3E-30.00 N	ASC	0.14	0.95	50	\$6.65	0.60	50	\$4.20
33-3E-19.00A2 N	ASC	0.41	0.95	150	\$58.43	0.60	150	\$36.90
33-3E-19.01 N	ASC	0.51	0.95	34	\$16.47	0.60	34	\$10.40
33-3E-19.03 N	ASC	0.40	0.95	71	\$26.98	0.60	71	\$17.04
33-3E-19.04(1)N	ASC	0.20	0.95	55	\$10.45	0.60	55	\$6.60
33-3E-20.00(2)N	ASC	0.30	0.95	58	\$16.53	0.60	58	\$10.44
33-3E-20.00(1)N	ASC	0.24	0.95	113	\$25.76	0.60	113	\$16.27
33-3E-20.00(3)N	ASC	0.78	0.95	20	\$14.82	0.60	20	\$9.36
33-3E-19.04(2)N	ASC	0.43	0.95	20	\$8.17	0.60	20	\$5.16
33-3E-28.01A1AN	ASC	1.09	0.95	1099	\$1,138.01	0.00	1099	\$0.00
33-3E-28.01A1BN	ASC	1.44	0.95	1099	\$1,503.43	0.00	1099	\$0.00
33-3E-28.01A2 N	ASC	0.06	0.95	985	\$56.15	0.00	985	\$0.00
33-3E-34.00A1AN	ASC	0.69	0.95	1099	\$720.39	0.00	1099	\$0.00
33-3E34.00A1B N	ASC	0.26	0.95	1099	\$271.45	0.00	1099	\$0.00
33-3E-34.00A1CN	ASC	0.18	0.95	1099	\$187.93	0.00	1099	\$0.00
33-3E-34.00A2 N	ASC	0.70	0.95	1099	\$730.84	0.00	1099	\$0.00
(0.1) - 1				,		t 150 4	_	

(2.1) Subtotal \$6,461.43 (2.2) Subtotal \$1,170.46

3) Third Party Maintenance and Rockwear

	MAINTE	NANCE (3.1)	ROCKWEAR (3.2)
Agrmnt	Road		
Number	Number	Mi x Fee x MBF =	Maint Fee x MBF = Rkwear
M-2000C	33-3E-34.00A1B	0.26	0.60 1099 \$171.44
M-2000EA	33-3E-34.00A2	0.70	0.00 1099 \$0.00
M-2000EA	33-3E-34.00A1C	0.18	0.00 1099 \$0.00
M-2000EA	33-3E-34.00A1A	0.69	0.00 1099 \$0.00
M-2000EA	33-3E-28.01A1A	1.09	0.00 1099 \$0.00
M-2000F	33-3E-28.01A2	0.06	0.60 985 \$35.46
M-2000F	33-3E-28.01A1B	1.44	0.60 1099 \$949.54

Subtotal of maintenance fees by agreement number:

Subtotal of rockwear fees by agreement number:

M-2000C \$171.44 M-2000EA* \$0.00 M-2000F \$985.00

^{*} No rockwear fees are to be paid due to rock being placed on road at culvert Replacement on 33-3E-28.01A1A at milepost 0.58.

(3.2) Subtotal \$1,156.44

4) Other Maintenance Payments - USFS or Others Perform Maintenance

(4.1) Subtotal \$0.00

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)

Road No	A		RkWea	ar	Vol		Total
and Segment	N	Μi	x Fee	x	MBF	=	RkWear
33-2E-25.00	N	0.0	8 0.00		179		\$0.00

(5.1) Subtotal \$0.00

Purchaser Operational Maintenance

Move In

	I.	Io	Mor	ve	Cost	t/	Dist		Sub-
Equipment	Units >	in	х	50	Mi x	Fact	or =	tota	1
Motor Grader	: 1	-	1	\$48	33.00	(0.63	\$304	.29
Back Hoe:				\$14	19.00	(0.63	\$0	0.00
Loader:				\$48	33.00	(0.63	\$0	0.00
Water Truck:	1	-	L	\$10	07.00	(0.63	\$67	.41
Dump Truck:				\$11	13.00	(0.63	\$0	0.00
Excavator:				\$48	33.00	(0.63	\$0	0.00
Roller:				\$48	33.00	(0.63	\$0	0.00

(5.2A) Total \$371.70

Culvert Maintenance - Including Catch basins and Downpipes

$$\frac{\text{Miles x Cost/Mi} = \text{Subtotal}}{\$334.17} \$0.00$$

(5.2B) Total \$0.00

Grading (Includes Ditches and Shoulders)

Miles	X	Cost/Mi	x Freq	= Subtotal		
Blade	w/	Ditch:	0.08	\$720.50	1	\$57.64
Blade	w/o	Ditch:	0.00	\$446.73	0	\$0.00

(5.2C) Total \$57.64

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

Type	No Slides	НС	urs	Εç	_{[uip}		
Equipment	/Slumps	х	Each	x	Cost	=	Subtotal
Grade	: 0			0	\$147	. 33	\$0.00
Loader:	0		0	\$1	.07.45		\$0.00
Backhoe:	0		0	\$	76.21		\$0.00

(5.2D) Total \$0.00

Dust Palliative (Water)

Spreading Hours

	No		Freq			Truck							
	Miles	/	MPH	=	=	Hours	х	Days	х	/Day	=	Hours	
	1.00		5			0.2		1		1		0	
Load & Haul = Total Hours =						0.0		0		0		0	

Truck Cost: $$89.57/Hr. \times 0.2 \text{ Hours} = 17.91

(5.2E) Total <u>\$17.91</u>

Surface Repair (Aggregate)

Production Cost:	0.0 CY x \$0.00/CY	=	\$0.00
Haul to Stockpile:	0.0 CY x (($\$2.21/CY \times 0.00 \text{ Mi}$) + $\$0.74$)	=	\$0.00
Stockpile:	0.0 CY x \$1.01/CY	=	\$0.00
Load from Stockpile:	0.0 CY x \$1.11/CY	=	\$0.00
Haul from Stockpile:	0.0 CY x (($\$2.21/CY x 0.00 Mi$) + $\$0.74$)	=	\$0.00
Process with Grader:	0.0 CY x \$0.90/CY	=	\$0.00
Compaction:	$0.0 \text{ CY } \times \$1.34/\text{CY}$	=	\$0.00

(5.2F) Total $\frac{$0.00}{}$

Other

Fallen Timber Cutting:	0.0 Hours x \$0.00/Hour	=\$0.00
Brush Cutting/Tree Trimming:	0.0 Hours x \$0.00/Hour	=\$0.00
Oil/Asphalt Materials:	Lump Sum	=\$0.00
Signing for Dust Palliatives:	Lump Sum	=\$0.00
	Lump Sum	=\$0.00

(5.2G) Total \$0.00

Decommissioning

(5.2H) Total <u>\$0.00</u>

Form 5440-9 (December 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Name of Bidder	
Tract Number	
ORM05-TS-2017.0001	
Sale Name	
Smith B Round	
Sale Notice (dated)	
8/24/2017	
BLM District	
Medford	

SCALE SALE

				-	
		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 \$ 19,800.00 and is enclosed in the form of \Box cash \Box money order \Box bank draft \Box cashier's check \Box certified check \Box bid bond of corporate surety on approved list of the United States Treasury \Box 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
White Fir	MBF	702	X \$159.30	= \$111,828.60	X	=
Douglas-fir	MBF	320	X \$258.60	= \$82,752.00	х	=
Ponderosa Pine	MBF	65	X \$23.30	= \$1,514.50	х	=
Incense cedar	MBF	7	X \$144.00	= \$1,008.00	х	=
Western Hemlock	MBF	5	X \$139.30	= \$696.50	х	=
Total		1,099				
TOTAL PURCHASE PRICE				\$197,799.60		

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

Bid submitted on (date)						
(Check appropriate box, sign in ink, and complete the following)						
Signature, if firm is individually owned	Name of firm (type or print)					
Signatures, if firm is a partnership or L.L.C.	Business address, include zip code (type or print)					
Corporation organized under the state laws of	(To be completed following oral bidding)					
Corporation organized under the state laws or	(10 be completed following oral bidding)					
	I HEREBY confirm the above oral bid					
Signature of Authorized Corporate Signing Officer	By (signature)					
Title	Date					
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed					
together with the required bid deposit made payable to the Department of the Interior – BLM.	envelope marked on the outside:					
IIICHOI – DLIVI.	(1) "Bid for Timber" (2) Vegetative Resource Other Than Timber					
Oral Auction - Submit to Sales Supervisor prior to closing of qualifying	(3) Time bids are to be opened					
period for tract.	(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 the purpose 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.