PROSPECTUS Scale Sale

GRANTS PASS RESOURCE AREA JOSEPHINE MASTER UNIT

Medford Sale # ORM07-TS-13-07 September 12, 2013 (AF)

BID DEPOSIT REQUIRED: \$41,500.00

#1. JUMPING BEAN, Josephine County, O&C, PD

All timber designated for cutting in E½SW¼ Section 20, W½NE¼ Section 29, Lot 2, E½SW¼ Section 31, T. 34S. R. 5W., NE¼SW¼, S½SW¼ Section 4, SE¼SE¼ Section 5, Lot 1 Section 8, N½NE¼, NE¼NW¼, N½SE¼ Section 9, N½SW ¼, SE½ Section 15, E½SE¼ Section 20, Lots 1, 2, and 3, NE¼NE¼, S½NE¼, E½NW¼, NE¼SW¼, SE¼ Section 21, W½NW¼ Section 22, NW¼ Section 23, W½SW¼ Section 25, S½NE¼, E½SW¼, W½SE¼ Section 33, T. 35S. R. 5W., SE¼NE¼, E½SE¼ Section 1., T. 35S. R. 6W., Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
15,587	2,144	Douglas-fir	2,625	\$151.70	\$398,212.50
2,585	139	Incense-cedar	173	\$40.50	\$7,006.50
439	82	Ponderosa Pine	105	\$32.00	\$3,360.00
526	65	White Fir	78	\$57.60	\$4,492.80
486	37	Sugar Pine	45	\$32.40	\$1,458.00
19,623	2,467	Totals	3,026		\$414,529.80

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

<u>TIMBER AUCTION LOCATION</u> – The timber auction will be held at the Medford Interagency Office, located at 3040 Biddle Road, Medford, OR, at 9 a.m. on Thursday, September 12, 2013.

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

<u>CRUISE INFORMATION</u> - All timber within the timber sale, excluding temporary routes 1 and 2, have been cruised using the PCMTRE sampling method to select sample trees. The sample trees have been measured, utilizing the VOLT system of measurement to determine plot volume, which is then expanded to a total sale volume. The volume of all species in temporary routes 1 and 2 have been derived from individual tree measurements taken during a 100% cruise using form class tables for estimating board foot volume of trees in 16-foot logs. Maps showing the location and description of the PCMTRE plot centers are available at the Grants Pass Interagency Office.

With respect to merchantable trees of all conifer species: the average tree is 14.2 inches DBHOB; the average gross merchantable log contains 55 bd. ft.; the total gross volume is approximately 3,500 M bd. ft; and 86% recovery is expected. (Average DF is 14.4 inches DBHOB; average gross merchantable log DF contains 57 bd. ft.)

<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> – Twenty five (25) units containing two hundred seventy seven acres (277) acres must be partial cut. Two right-of-ways must be cleared.

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

ACCESS - Access to the sale area is available via public roads to the contract area: from Grants Pass, Oregon travel North on 7th street and continue under the freeway over pass at I-5 exit 58 and continue down the off ramp, turn right on Scenic Road and follow it on to the left, and it will then turn into Granite Hill Road, continue on Granite Hill Road at MP 3.0 turn left on to BLM road 35-5-20 to reach the southern most units, 20-2, 21-13 and 21s-2. To locate the rest of the units see Exhibit C2 sheets 1-3 and see Exhibit A, Jumping Bean Timber Sale Location Map, and Grants Pass Resource Area transportation maps for more detailed information on roads and unit locations. Among other conditions, Agreement No. M-1166 (with Indian Hill, LLC) requires completion of a License agreement between the Purchaser and Permitee; Agreement No. M-1538 (Josephine County Forestry) requires the completion of a License agreement between the Purchaser and Permitee; Memorandum of Understanding dated 25 May, 2000 (Oregon Department of Forestry) requires the completion of a License agreement between the Purchaser and Permitee;

<u>ROAD MAINTENANCE</u> – The Purchaser will be required to maintain 29.22 miles of BLM and Private roads utilized for timber harvest operations and pay a maintenance fee of \$0.65 per MBF for the use of BLM roads shown in Section 42(C)(4) and a rock wear fee of \$0.51 per MBF, for the use of BLM roads shown in Section 42(C)(5).

<u>ROAD CONSTRUCTION/RENOVATION</u> - The contract will require the Purchaser to renovate 29.01 miles of existing road and construct 45.41 stations of Temp Route. Among other items, decommission of temp routes as referenced in C-12 decommissioning 2605. Additional information is available in the timber sale prospectus.

<u>SOIL DAMAGE PREVENTION</u> - Pursuant to Section 26 of Form 5450-3, Timber Sale Contract, no tractor yarding/ground based yarding, road maintenance/renovation, temporary route/swing road, landing construction, and skid trail, landing, temporary route/swing road decommissioning shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of soil sample taken at 4"-6" to maintain form when compressed and by the inability of soil moisture at

the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable, as determined by the Authorized Officer, the waiver will be revoked. The Purchaser shall construct waterbars on tractor skid roads and block skid roads where they intersect with haul roads. Ripping of main skid roads required.

EQUIPMENT REQUIREMENTS -

- Yarding tractor not greater than 9 feet wide, as measured from the outer edges of standard width track shoes and equipped with integral arch and winch capable of lining logs 75 feet.
- Skyline yarder capable of one end log suspension, minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul, and yarding logs uphill approximately 1200 feet.
- 3. A minimum two hundred (200) flywheel horsepower tractor with mounted rippers and capable of ripping to a depth of eighteen (18) inches will be required for decommissioning temporary spurs, natural surface landings, and main tractor skid roads.

<u>SLASH DISPOSAL</u> – Appraised slash disposal consists of one hundred sixty five (165) acres of hand pile, cover, and burn and one hundred twelve (112) acres of lop and scatter.

<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:

- Comply with the Endangered Species Act, or;
- 2. Comply with a court order, or;
- 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.
- Seasonal operating constraints. (L-18, L-18a).
- Slash treatment concurrent with logging.
- 4. Cleaning of equipment to eliminate noxious weed seeds is required prior to move in of equipment onto federal lands.
- 5. Whole tree, (limbs, tops attached) yarding will be allowed unless unacceptable damage occurs, (L-6).
- 6. Mechanical harvesters may be used. Restrictions apply. Section 42(B)(5)L-7.
- 7. It estimated that fourteen (14) skyline corridors will need tail (lift) trees between 30 and 60 feet in units 1-2, 9-16, 21-10, 21-11,31-1B, and 33-10. Appraisal covers tree climbing costs.
- 8. Unit 21-15 line equipped shovel, (Yoader) necessary due to lack of adequate anchors on steep ground. Unit 9-2 Yoader necessary for a few settings.
- 9. Haul off temporary route # 3 on to the 35-5-9.2 road will need a truck turn around. Truck turn-around is nearby and adjacent to the 35-5-9.2 road.
- Haul across buried gas line under 35-5-4.3 road, (unit 8-2). Refer to Exhibit C for mitigation.
- 11. Temporary routes 1 and 2 have posted and painted boundaries. Temporary routes 3 thru

- 8 have a flagged centerline of red and white.
- 12. This contract contains provisions, (L-25), for the sale and removal of additional timber necessary to facilitate safe and efficient Purchaser operations. These provisions include: The designation and sale of additional timber, such as skid, corridor and guyline trees, at contract price, as necessary to facilitate safe and efficient logging. Such trees may be felled and removed when they are painted by the Authorized Officer; Sale of additional timber volume at current fair market value where the species of trees are not representative of the forest stands being thinned; Government reservation of trees previously marked for cutting (replacement) when the Authorized Officer determines that it is necessary in order to maintain stand densities consistent with objectives set forth in management prescriptions; The use of unilateral modifications executed by BLM for such additional and replacement timber; Revocation of the Purchaser's right to cut additional timber if the Authorized Officer determines that trees have been cut and removed that were not previously marked and approved for cutting and removal by the Authorized Officer; and, It is estimated that approximately 40 MBF of such additional timber may be removed under the contract, but is not included in the advertised sale volume nor was it included in the timber sale appraisal. This estimate is a net figure reduced by the estimate of the volume of trees previously marked for cutting, which the Authorized Officer may elect to reserve.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Grants Pass, Oregon travel North on 7th street and continue under the freeway over pass at I-5 exit 58 and continue down the off ramp, turn right on Scenic Road and follow it on to the left, and it will then turn into Granite Hill Road, continue on Granite Hill Road at MP 3.0 turn left on to BLM road 35-5-20 to reach the southern most units, 20-2, 21-13 and 21s-2. To locate the rest of the units see Exhibit C2 sheets 1-4.

<u>ENVIRONMENTAL ASSESSMENT</u> - An environmental assessment DOI-BLM-OR-M070-2012-003-EA was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford Interagency Office.

Seasonal Restriction Matrix Jumping Bean T.S. OR110-TS13-07 Unrestricted Restricted To Dry Condition/Season Waiver Required Outside of Operating Season Restriction due to N. Spotted Owl

<u>Dry Condtion Haul</u>- No hauling on natural surface roads, temporary routes, or rocked roads shall be conducted on the contract area between **October 15** of one calendar year and **May 15** of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If moisture conditions on the road are deemed acceptable and do not result in continuous mud splash or tire slide, fines being pumped through road surfacing from the subgrade and resulting in a layer of surface sludge, road drainage causing a visable increase in stream turbidities, surface rutting, or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events, Contracting Officer may approve a conditional waiver. If moisture conditions on the road resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

<u>Dry Condition Groundbased Yarding-</u>No tractor yarding/ground based yarding, road maintenance/renovation, temporary route/swing road construction, landing construction, or skid trail, landing, temporary route/swing road decommissioning shall be conducted on the contract area between **October 15** of one calendar year and **May 15** of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable, as determined by the Authorized Officer, the waiver will be revoked.

<u>Spotted Owl Restriction-</u> No road construction, road improvement, landing construction, felling, yarding, chainsaw operation, or prescribed fire operations shall be conducted within units 1-2, 21-10, 21-11, 23-4, 33-10, and 33-10A between March 1 and June 30 of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from Spotted Owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Spotted Owl nesting and/or fledging activities are not occurring during the year of harvest.

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Sale Area	Activity	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Falling and Bucking*																								
Units: All Units	Ground Based Yarding/Skid Trail Construction, Decommisioning																								
	Cable Yarding																								
	Loading, Hauling, Road Construction, Renovation & Maintenance																								
	Falling and Bucking*																								
21-11, 23-4, 33-	Cable and Ground Based Yarding/Skid Trail Construction, Decommisioning																								
Owl Restriction	Loading, Road Construction, Renovation & Maintenance																								

^{*} Operations will be suspended if unacceptable damage to residual trees occur.

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

- Sec. 41. TIMBER RESERVED FROM CUTTING The following timber on the contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of the Government.
- (A) <u>AR-1</u> All timber on the Reserve Areas as shown on Exhibit A and all orange painted/or posted trees which are on or mark the boundaries of the Reserve Areas.
- (B) <u>AR-2</u> All timber on the Reserve Areas shown on Exhibit A and all trees which are on or mark the boundaries of the Reserve Areas, except approximately one hundred thirty (130) conifer trees within the clearing limits marked with orange painted/or posted trees for temporary routes 9-16 and 15-15B as shown on Exhibit A.
- (C) <u>IR-1</u> Approximately eight thousand nine hundred twenty five (8,925) conifer trees marked with yellow paint in all variable density thin harvest units (1-2, 4-3, 4-4, 8-2, 9-2, 9-14, 9-15, 9-16, 15-13, 15-15A, 15-15B, 20-2, 20-13, 21-S2, 21-10, 21-11, 21-13, 21-15, 23-4, 25-17, 29-11, 31-1A, 31-1B, 33-10, and 33-10A) as shown on Exhibit A.
- (D) <u>IR-3M</u> All hardwood trees which are larger than eight (8) inches D.B.H.O.B. in all variable density thin harvest units shown on Exhibit A.
- (E) <u>IR-3M</u> All snags which are larger than sixteen (16) inches D.B.H.O.B. and all wind thrown trees in all variable density thin harvest units except hazard snags. Any felled hazard snags must remain where felled or as directed by the Authorized Officer.
- (F) IR-10 All trees marked with a band of orange paint about six feet from the ground and with a yellow, metal, SEED TREE tag in the partial cutting areas shown on Exhibit A. These trees are selected, genetically superior trees and are specially valued as a component of the tree improvement program. Any damage to such reserve trees caused by the Purchaser shall be charged for on the basis of the resulting total loss to the Government including any loss in value as a superior seed source
- (G) <u>IR-11M</u> All trees which were severed from the stump or cut into logs prior to the date this contract was entered into, and all pre-existing dead and down woody debris within all variable density thin harvest units as shown on Exhibit A.

Section 42

(A) Log Exports

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

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

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

- (a) Date of last export sale.
- (b) Volume of timber contained in last export sale.
- (c) Volume of timber exported in the past twelve (12) months from the date of last export sale.
- (d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.
- (e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.
- (f) Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

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

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

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

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

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 Purchasers 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) or more days, the Purchaser shall notify the Authorized Officer in writing of the date he plans to begin operations. This written notification must be received by the Authorized Officer no less than seven (7) days prior to the date the Purchaser plans to begin or resume operations. The Purchaser shall also notify the Authorized Officer in writing if he intends to cease operations for any period of seven (7) or more days.
- (2) <u>L-3</u> All trees designated for cutting in variable density thin harvest units shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees.
- (3) <u>L-5</u> All non-yellow marked conifer trees eight (8) inches or larger D.B.H.O.B. shall be felled and yarded in all variable density thin harvest units as shown on Exhibit A.
- (4) <u>L-6</u> In all variable density thin harvest units shown on Exhibit A, all trees designated for cutting shall be felled and yarded to approved landing locations either with tops attached or tree length where feasible due to tree size. If excessive stand damage occurs from bark slippage, girdling, broken tops, or damage to live crowns, as determined by the Authorized Officer, all trees shall be bucked into lengths not to exceed forty one (41) feet prior to being yarded.
- (5) <u>L-7</u> In tractor units 4-4, 8-2, 9-14, 9-15, 15-15A, 23-4, and tractor portions of units 1-2, 4-3, 9-16, 29-11 as shown on Exhibit A, harvest trees may be felled mechanically using a harvester, feller-processor or feller-buncher with the approval of the Authorized Officer and in accordance with the following specifications:
 - (a) Mechanized felling operations shall be limited to slopes of thirty-five (35) percent or less.
 - (b) Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(B)(9) of this contract.
 - Officer prior to the start of mechanized felling operations. Only purpose-built carriers with boom-mounted felling heads may be approved. The boom must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible. The purpose-built carrier may be of the articulated, rubber-tired design or the zero-clearance tail swing, leveling track-mounted design.

- (d) The harvest equipment shall walk on existing or created slash as directed by the Authorized Officer. If Purchaser is required to create slash to walk on, then the Purchaser shall not be required to tree length yard, or with tops attached.
- (6) <u>L-7MC</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						
Entire contract area	All temporary routes and swing roads will not exceed fourteen (14) feet in width.						
15-13, 15-15B, 20-2,	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.						
25-17, 31-1A, 31-1B, 33-10, 33-10A, and	A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimur flateral yarding capability of seventy-five (75) feet.						
and 29-11	Yarding corridors will be approximately one hundred fifty (150) feet apart and perpendicular to the contours. Corridors will be limited to one (1) per landing unless otherwise approved by the Authorized Officer. Corridor widths shall not exceed six (6) feet either side of the skyline centerline.						
Cable Units CONT.	Prior to falling any timber in the units, all tail/lift trees and/or intermediate support trees shall be identified by the Purchaser and approved by the Authorized Officer.						
	The carriage will be a minimum of fifteen (15) feet above the ground during lateral yarding.						
	Yarding corridors are not permitted up or down any draw.						
	Cable corridors that are hydrologically-connected to streams via ditchlines shall be water-barred and shall have slash placed over them prior to winter rain events to protect water quality.						
8-2, 9-14, 9-15,	Yarding tractor width will not be greater than nine (9) feet as measured from the outer edges of standard width track shoes. Skid roads shall not exceed a width of twelve (12) feet on average per unit.						

Designated Area	Yarding Requirements or Limitations
Units 1-2, 4-3, 9-16, and 29-11	The use of blades while yarding will not be permitted. Equipment shall walk over as much ground litter as possible to reduce compaction.
	The location of the tractor skid roads must be clearly designated approximately one hundred fifty (150) feet apart, where topography allows, and approved by the Authorized Officer prior to felling of timber to be yarded over the tractor skid roads.
	Yarding tractors will be equipped with integral arches capable of one-end suspension during skidding and winch systems capable of lining logs at least seventy-five (75) feet.
	No yarding will be allowed up or down draw bottoms.
	Landing size shall not exceed one-quarter (1/4) acre. Design landings with adequate drainage so that they are not hydrologically-connected to the ditchline of roads.
Tueston Heide CONT	Ground based equipment shall be limited to slopes less than thirty-five (35) percent, and existing skid trails shall be utilized to the greatest extent possible.
Tractor Units CONT.	Use of mechanized equipment off of designated skid roads shall require approval from the Authorized Officer. All operations shall maintain soil compaction of 12% or less across the harvest area.

- (7) <u>L-9</u> No yarding or loading is permitted in or through the reserve areas as shown on Exhibit A unless approved by the Authorized Officer.
- (8) <u>L-18</u> No hauling on natural surface roads, temporary routes, or rocked roads shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If moisture conditions on the road are deemed acceptable and do not result in continuous mud splash or tire slide, fines being pumped through road surfacing from the subgrade and resulting in a layer of surface sludge, road drainage causing a visible increase in stream turbidities, surface rutting, or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events, Contracting

Officer may approve a conditional waiver. If moisture conditions on the road resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

- (9) <u>L-18</u> No tractor yarding/ground based yarding, road maintenance/renovation, temporary route construction, landing construction, or skid trail, landing, temporary route decommissioning shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable, as determined by the Authorized Officer, the waiver will be revoked.
- (10) <u>L-18a</u> No road construction, road improvement, landing construction, felling, yarding, chainsaw operation, or prescribed fire operations shall be conducted within variable density thin harvest units 1-2, 21-10, 21-11, 23-4, 33-10 and 33-10A between March 1 and June 30 of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from Spotted Owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Spotted Owl nesting and/or fledging activities are not occurring during the year of harvest.
- (11) <u>L-19</u> Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain written approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed in writing by the Authorized Officer.
- (12) <u>L-20</u> During logging operations, the Purchaser shall keep road 35-5-4.4 where it passes through the contract area, clear of trees, rock, dirt, and other debris so far as is practicable. The road shall not be blocked by such operations for more than fifteen (15) minutes due to passage for nearby residents.
- (13) <u>L-23</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 pre-work conference between the Purchasers authorized representative and the Authorized Officers representative must be held at a location designated by the Authorized Officer before the logging plan will be approved.
- (14) <u>L-25</u> Before cutting and removing any trees necessary to facilitate logging in all units and adjacent reserve areas shown on Exhibit A, the Purchaser shall identify the

location of the skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding with cutting the following conditions must be met:

- (a) All skid and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contact and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of each skid and/or cable yarding road shall be limited to twelve (12) feet.
- (b) The Purchaser may immediately cut and remove additional timber to clear skid and/or cable yarding roads; and provide tailhold, tieback, guyline, lift, and intermediate support trees; and clear danger trees when the trees have been marked with red 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 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 Section 3.(b). of the contract or sufficient bonding has been provided in accordance with Section 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 Section 9 of the contract; or, the Authorized Officer determines that any tree that exceeds thirty six (36) inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 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 Section 8 or Section 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
- (f) The Government may reserve trees previously designated for cutting and removal by applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription(s). This may include the replacement of trees damaged by storm events, or insects or disease. 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.
- (15) <u>L-27</u> In variable density thin harvest units 4-3, 9-2, 9-16, 15-13, 15-15A, and 31-1B shown on Exhibit A, all trees designated for cutting which are within a tree length of the reserve patches inside these units shall be felled away from the reserve patches.
- (16) <u>L-27</u> In variable density thin harvest units 4-3, and 4-4 as shown on Exhibit A, all trees designated for cutting which are within a tree length of the mining ditch inside these units shall be felled away from the mining ditch.
- (17) <u>L-27</u> In all variable density thin harvest units shown on Exhibit A, all trees designated for cutting which are within a tree length of the streams and springs to be protected shall be felled away from those streams and springs.
- (18) <u>L-27</u> In all variable density thin harvest units shown on Exhibit A, all trees designated for cutting which are within a tree length of the unit boundaries shall be felled away from the boundaries and into the unit.

- (19) <u>L-27</u> In all tractor yarding units as shown on Exhibit A, all trees designated for cutting shall be directionally felled towards pre-approved skid trails.
- (C) Road Construction Maintenance Use
 - (1) <u>RC-1a</u> The Purchaser shall construct, improve and/or renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
 - (2) <u>RC-1b</u> Prior to removal of any timber, except right-of-way timber, the Purchaser shall complete all construction, improvement, or renovation of structures and roads, as specified in Exhibit C.
 - (3) RC-1d The Purchaser shall not commence work on road improvements, or renovation until receiving written notice to do so from the Authorized Officer. Work shall be commenced no later than 5 days after such notice, and shall be completed within 1 year after such notice.
 - (4) <u>RC-2</u> The Purchaser is authorized to use the roads listed below and shown on Exhibit D which are under the jurisdiction of the Bureau of Land Management, for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser comply with the conditions and pay the required maintenance fees described in Section 42(C)(7). The Purchaser shall pay current Bureau of Land Management maintenance fees for the sale of additional timber under modification to the contract.

Road No. and	Length Miles		Road Surface
Segment	Used	Road Control	Type
34-5-32(A)	0.64	BLM	BST
35-5-21(A)	1.67	BLM	BST
Total	2.31 miles		

(5) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit D which are under the jurisdiction of the Bureau of Land Management, Indian Hill LLC, Josephine County Forestry, and Oregon Department of Forestry for the removal of Government timber sold under the terms of this contract and the hauling of rock as required in Exhibit C, provided that the Purchaser comply with the conditions set forth in Section 42(C)(10) and pay the required rock wear fee described in Section 42(C)(8). The Purchaser shall pay current Bureau of Land Management rock wear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
34-5-29 (A-B)	1.37	BLM	ASC
35-5-3.2	0.49	BLM	ASC
35-5-3.3	0.52	BLM	ASC
35-5-3.3	0.40	BLM	NAT
35-5-4 (B-F)	1.79	BLM	ASC
35-5-4.1	0.31	BLM	ASC
35-5-4.3	0.30	BLM	NAT
35-5-4.4	0.19	BLM	ASC
35-5-6.1 (A)	0.25	JOCO	NAT
35-5-6.1 (B)	0.75	BLM	NAT
35-5-6.2	0.31	IH	NAT
35-5-8.1	0.30	BLM	NAT
35-5-8.1 (B)	1.28	JOCO	NAT
35-5-8.1 (C)	0.19	BLM	NAT
35-5-8.1 (D)	1.34	JOCO	NAT
35-5-8.1 (E)	0.20	ODF	NAT
35-5-8.1 (F)	0.28	JOCO	NAT
35-5-8.1 (G)	0.41	IH	NAT
35-5-8.1 (H)	0.05	BLM	NAT
35-5-8.1 (I)	0.16	JOCO	NAT
35-5-8.1 (J)	0.18	BLM	NAT
35-5-9 (A)	0.61	BLM	NAT
35-5-9.1	0.61	BLM	ABC
35-5-9.2 (A-B)	0.71	BLM	NAT
35-5-15	0.55	BLM	PRR
35-5-15.1	0.25	BLM	PRR
35-5-15.2	0.14	BLM	PRR
35-5-20 (A-B)	1.43	BLM	NAT
35-5-20.1	0.85	BLM	NAT
35-5-21.1 (A-C)	2.17	BLM	PRR

35-5-21.2 (A)	0.74	BLM	GRR
35-5-22	0.65	BLM	GRR
35-5-22.1	0.09	BLM	NAT
35-5-23.1 (A)	0.09	BLM	ASC
35-5-25.5	0.35	BLM	GRR
35-5-26 (A)	1.07	BLM	ASC
35-5-26.1 (A)	1.70	BLM	ASC
35-5-26.1 (B)	1.68	BLM	PRR
35-5-26.2 (A)	2.07	BLM	ABC
35-5-26.2 (B)	0.83	BLM	PRR
35-5-35 (A-B)	1.56	BLM	ASC
Total	29.22 miles		

(6) RC-2d The Purchaser shall be authorized to use other roads not included in Section 42(C)(4) and Section 42(C)(5); provided, that in the use of such roads, the Purchaser shall pay the Government current Bureau of Land Management road maintenance and/or rock wear fees for the particular surface type of the roads used.

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

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

Section 42(C)(7) and Section 42(C)(8) of this contract shall be amended to include adjustments of fee obligations.

(7) RC-2e The Purchaser is authorized to use the roads listed in Section 42(C)(4) which are under the jurisdiction of the Bureau of Land Management for the removal of Government timber sold under the terms of the contract; provided, that the Purchaser shall pay a road maintenance fee of \$0.65 per thousand board feet log scale per mile for the use of said roads. The total maintenance fee due shall be based upon volumes determined pursuant to Section 2 and 3 of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use

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

- (8) $\underline{RC-2e}_{(RW)}$ The Purchaser is authorized to use the roads listed in Section 42(C)(5) which are under the jurisdiction of the Bureau of Land Management for the removal of Government timber sold under the terms of the contract; provided, that the Purchaser shall pay a road rock wear fee of \$0.51 per thousand board feet log scale per mile for the use of said roads. The total rock wear fee due shall be based upon volumes determined pursuant to Section 2 and 3 of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Purchaser will be required to label, with a permanent ink marker, each load ticket with the corresponding unit number as directed by the Authorized Officer. The Authorized Officer shall establish an installment schedule of payment of the rock wear obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total rock wear payments made under this contract exceed the total rock wear payment due, such excess shall be returned to the Purchaser within 60 days after such determination is made.
- (9) RC-2e_(LA) The Purchaser shall pay an estimated road use fee and/or maintenance fee for each License Agreement specified in Section 42(C)(11), Section 42(C)(12), and Section 42(C)(13) per thousand board feet log scale per mile for the use of roads specified. The total fee due to each Licensor shall be based upon volumes determined pursuant to Section 2 and 3 of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use of such roads, the Purchaser (Licensee) shall give written notice to the Authorized Officer and Licensor of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. The Purchaser will be required to label, with a permanent ink marker, each load ticket with the corresponding unit number as directed by the Authorized Officer. The Purchaser (Licensee) shall comply with the terms of each License Agreement for the use of roads listed in Section 42(C)(11),

Section 42(C)(12), and Section 42(C)(13) for the payment of fees and final fee reconciliation with Licensor upon report of final volume removed as determined by the Authorized Officer.

- (10) RC-2h Except for road maintenance in accordance with Section 42(C)(4), the Purchaser shall perform any required road repair and maintenance work on roads used by him, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract, which is attached hereto and made a part hereof.
- (11) RC-3 In the use of roads 35-5-6.2, and 35-5-8.1 (Segment G) the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-1166 dated January 31, 1978 between the United States of America and Indian Hill LLC. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.
- (12) RC-3 In accordance with Section 42(C)(9), the use of road 35-5-8.1 (Segment E), the Purchaser shall comply with the conditions of the Memorandum of Understanding dated 25 May, 2000 between the United States of America and Oregon Department of Forestry. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.
- (13) RC-3 In the use of roads 35-5-6.1 (Segment A), and 35-5-8.1 (Segments B, D, F, and I), the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-1538 dated February 23, 1989 between the United States of America and Josephine County Forestry. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to

pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

- (14) RC-5 In the renovation of roads 35-5-6.2, and 35-5-8.1 (Segment G) as shown on Exhibit C, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement No. M-1166 dated January 31, 1978 between the United States and Indian Hill, LLC. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504.
- (15) RC-5 In the renovation of road 35-5-8.1 (Segment E) as shown on Exhibit C, the Purchaser shall comply with the conditions of the Memorandum of Understanding dated 25 May, 2000 between the United States and Oregon Department of Forestry. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504.
- (16) RC-5 In the renovation of roads 35-5-6.1 (Segment A), and 35-5-8.1 (Segments B, D, F, and I) as shown on Exhibit C, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement No. M-1538 dated February 23, 1989 between the United States and Josephine County Forestry. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504.
- (17) RC-8 The Purchaser shall be required to secure written approval to use vehicles or haul equipment over Government owned or controlled roads and/or structures when that vehicle or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

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

Details shall include:

- (a) Axle weights when fully loaded.
- (b) Axle spacing.
- (c) Transverse wheel spacing.
- (d) Tire size.
- (e) Outside width of vehicle.
- (f) Operating speed.
- (g) Frequency of use.
- (h) Special features (e.g., running tracks, overhang loads, etc.)

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

(D) Environmental Protection

- (1) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prior to October 15 of the same operating season, "winterize" all temporary routes, natural surface landings, cable corridors, skid trails, and other areas of exposed soils by properly installing any water bars, berms, sediment basins, gravel pads, hay bales, seed and/or mulch, and small dense woody debris to reduce sediment runoff and divert runoff water away from headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer.
- (2) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall hand seed and straw mulch (certified weed free) all natural surfaced landings, temporary routes, and main tractor skid roads in the riparian reserve with native grass seed at a rate of fifteen (15) pounds per acre and straw mulch applied at no less than two thousand (2000) pounds per acre or as directed by the Authorized Officer. Native grass seed and straw shall be supplied by the government if available. If the quantity of native grass seed is not available from the government a mixture of annual rye, native grass, and sterile wheatgrass shall be applied at a rate of fifteen (15) pounds per acre. The purchaser shall provide written certification that the seed is free of noxious weeds, unless the seed is provided by the Government. (Mixture requirements: seven (7) pounds annual rye, five (5) pounds native grass, three (3) pounds sterile wheatgrass). If straw mulch is provided by the Purchaser, it must have purple and yellow twine around the bales and/or certified weed free by Oregon Department of Agriculture approved label. Seed shall be applied from February 1 to April 1 or September 30 to November 1.
- (3) <u>E-1</u> In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall as directed by the Authorized Officer decommission/rehabilitate all skid trails within one hundred eighty (180) feet of streams, all temporary routes, and all natural surface landings outside of the road prism by one of the following methods:
 - (a) If the Authorized Officer deems ripping will not cause unacceptable damage to the root systems of residual trees the Purchaser shall discontinuously subsoil with winged ripper teeth, simultaneously water bar, place slash over, and barricade.

- 1. 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.
- 2. Rip to a depth of eighteen (18) inches, and no further than thirty six (36) inches apart.
- 3. Ripping of skid trails will occur before **October 15** of the year of harvest. Ripping of temporary routes and natural surface landings will occur before **October 15** of the year of activity fuels treatment completion.
- 4. Any step landings shall be re-contoured following use.
- (b) If the Authorized Officer deems ripping will cause an unacceptable amount of damage to the root systems of residual trees the Purchaser shall scarify to a depth of up to six (6) inches and simultaneously water bar, place slash over, and barricade.
 - All temporary routes shall be blocked after completion of rehabilitation activities. All rehabilitation shall occur within eighteen (18) months of harvest and during the dry season.
- (4) <u>E-1</u> In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall:
 - (a) On temporary route segments having a cut-and-fill slope shall, by use of an excavator, have the fill material pulled back and properly placed onto the road surface.
 - (b) Upon completion of pulling fill, implement necessary surface eroision measures of seeding and mulching as described in Sections 42(D)(1) and (D)(2) of this contract.
- (5) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall place material removed during excavation in locations where it cannot enter streams or other water bodies.
- (6) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not locate new landings in areas that contribute eroded fines to dry draws and swales. If landing location cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.

- (7) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall ensure that silt fencing or other sediment control measures are properly placed and maintained during use and periods of non-use when utilizing existing landings that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines.
- (8) <u>E-1</u> In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:
 - (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging, construction, chipping, grinding, shredding, rock crushing, and transportation equipment prior to entry on BLM lands.
 - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.
 - (c) Only equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of equipment as described above shall be treated the same as the initial move-in.
 - (d) Prior to initial move-in of any equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.
 - (e) Equipment would be visually inspected by the Authorized Officer to verify that the equipment has been reasonably cleaned. Requirements as outlined above may be waived by the Authorized Officer if move-in is from one "weed free area" to another "weed free area", as determined by the Authorized Officer.
- (9) <u>E-1</u> In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall not refuel equipment, store, or cause to have stored, any fuel or other petroleum products within one hundred fifty (150) feet of all riparian management or wet areas. All petroleum products shall be stored in durable containers and located so that any accidental releases will be contained and not drain into any stream system. Hyraulic fluid lines on heavy mechanized equipment would be in proper working condition in order to minimize potential for leakage into streams. Absorbent materials shall be onsite to allow for immediate containment of any accidental spills. Spilled fuel and oil shall be cleaned up and disposed of at an approved disposal site.
- (10) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous

substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.

- (11) <u>E-2</u> The water dips and/or water bars to be constructed as required by Sec. 26 of this contract, shall be constructed water dips and/or water bars on all main tractor skid roads, cable yarding corridors, and temporary routes. Construction for skid roads will be concurrent with yarding, in accordance with Exhibit W, or as directed by the Authorized Officer. Water bar construction for cable yarding corridors shall be as directed by the Authorized Officer. Skid roads shall be blocked where they intersect with haul roads.
- (12) <u>E-4</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, 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.a. 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 State, 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.a. of the contract within 15 days after the bill for collection is issued, subject to Section 3.g. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

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

as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

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

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

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

(13) <u>E-6</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

as limited in Section 42(B)(10) of the contract between March 1 and June 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting owls may not be allowed during this time period.

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

(E) Fire Prevention and Control

- (1) <u>F-1a Fire Prevention and Control</u>. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 - (a) Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the State of Oregon, Department of Forestry.
 - (b) Provide and maintain in good repair, on the contract area, the following equipment for use during closed fire season or periods of fire danger:
 - 1. <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 (3/4) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

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

- 3. F-2c At each landing during periods of operation one (1) tank truck. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute (ORS) 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.410 as amended or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.
- 4. <u>F-2d</u> Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area and Grants Pass, 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. F-2f A headlight for each person in the woods crew adequate to provide sufficient illumination for night fire fighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. It shall be equipped with a battery case so designed that it can be either carried in the hip pocket or fastened to the belt. The head of the light and the battery case shall be connected by insulated wires. At least one extra set of batteries shall be provided for each such headlight.
- 7. <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.

9. <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.

(F) Slash Disposal and Site Preparation

- (1) <u>SD-1</u> <u>Fire Hazard Reduction</u>. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchasers satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the States willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measure(s) required by this contract:
 - (a) Prior to commencement of any operation under this Section G of the contract, a slash disposal and 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 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.
 - (b) <u>SD-1a LOP AND SCATTER</u> Lop and scatter slash located in variable density thin harvest units 1-2, 9-2, 9-16, 15-13, 23-4, 25-17, 31-1A, and 31-1B as directed by the Authorized Officer. All cut slash (any material less than six inches in diameter) shall be lopped to no more than eight (8) feet in length and all top and side branches must be free of the central stem so that slash is reduced to the extent that it is within eighteen (18) inches of the ground at all points. All slash shall be arranged in a discontinuous pattern across the forest floor.
 - (c) <u>SD-1c HAND PILING</u> Hand pile slash in variable density thin harvest units 4-3, 4-4, 8-2, 9-14, 9-15, 15-15A, 15-15B, 20-2, 20-13, 21-10, 21-11, 21-13, 21-15, 21S-2, 29-11, 33-10, and 33-10A as directed by the Authorized Officer in accordance with the following specifications:

- 1. 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.
- 2. Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.
- 3. Pile all slash which is between one (1) and seven (7) inches in diameter on the large end and exceeds two (2) feet in length.
- 4. A six (6) foot by six (6) foot sheet of four (4) mil. black plastic shall be placed on 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 five (5) feet and no greater than eight (8) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located in any stream channel; on down logs, stumps, talus slopes, roadways, drainage ditches, turnouts, shoulders, cut banks, and within ten (10) feet of reserve trees, any other pile, or unit boundary. No portion of the pile will be under the crown of any living conifer tree.
- (a) <u>SD-1d</u> Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:
 - 1. 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.
- (b) <u>SD-1i LANDING PILES</u> Pile all slash located within fifty (50) feet on each side of log landing. Slash shall be piled by hand or machine. Finished piles shall be tight and free of earth and located at least fifteen (15) feet away from any reserve trees adjacent to landing. A minimum twenty (20) foot on the

ground shall be cleared of slash and other vegetation, litter, and debris around each landing pile to prevent escaped fire.

- 1. A ten (10) foot by ten (10) foot cover of four (4) mil. black plastic material shall cap each tractor 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. Landing piles shall be burned, chipped, or otherwise removed from these sites within eighteen (18) months of unit harvest completion.
- (2) <u>SD-2</u> Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop-up assistance as required herein. In accordance with written instructions to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or designated representative, assist in preparing units for burning, burning, mop-up, and patrol by furnishing, at the Purchaser's own expense, the services of personnel and equipment on each unit as shown below.
 - (a) Burn and mop-up piled units and landing piles as shown on Exhibit A in accordance with Section 42(F)(2)(a)(1), Section 42(F)(2)(a)(2), Section 42 (F)(2)(a)(3), and Section 42(F)(2)(a)(4).
 - 1. Prescribed fire plans shall be prepared for hand pile burning activities to ensure that resource and fire management objectives are met by setting parameters under which the burning may take place. Prescribed burning within the harvest units shall be conducted in a manner that will minimize damage to reserve trees, duff and soil, and to avoid loss of large, coarse woody debris and will be consistent with ecosystem management objectives. The Purchaser shall burn ninety (90) percent of piles for satisfactory completion of treatment, as directed by the Authorized Officer.
 - 2. Hand pile burning shall occur at least twelve (12) months after unit harvest has been completed. Piles shall be burned in the fall to spring season after one or more inches of precipitation has occurred to reduce the potential for fire spread and scorch and mortality to the residual trees and shrubs. Patrol and mop-up of burning piles shall occur when needed to prevent treated areas from re-burning or becoming and escaped fire. The timing of prescribed burns depends on these parameters and the availability of adequate fire suppression resources as a contingency plan in the event of escaped fire.

- 3. For Igniting and Burning Piles on Units 4-3, 4-4, 8-2, 9-14, 9-15, 15-15A, 15-15B, 20-2, 20-13, 21-10, 21-11, 21-13, 21-15, 21S-2, 29-11, 33-10, and 33-10A and All Landing Piles as described by the Authorized Officer
 - a. One (1) person to supervise crew(s) and equipment operators, and to serve as Purchaser's representative.
 - b. One (1) crew with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, ten (10) drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
 - c. All crews shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crew members.
 - d. All ignition personnel will be directly supervised by a BLM representative.
- 4. For Mop-up of Piles on Units 4-3, 4-4, 8-2, 9-14, 9-15, 15-15A, 15-15B, 20-2, 20-13, 21-10, 21-11, 21-13, 21-15, 21S-2, 29-11, 33-10, and 33-10A and All Landing Piles as described by the Authorized Officer
 - a. One (1) person to supervise crew(s) and equipment operators, and to serve as Purchaser's representative.
 - b. One (1) crew with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, ten (10) drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
 - c. All crews shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crew members.
 - d. All ignition personnel will be directly supervised by a BLM representative.

Aircraft and pilots used for Logging Residue Reduction or the suppression of escaped fires from Logging Residue Reduction operations, shall be acquired from a list of aircraft and pilots approved (i.e., carded for these specific activities) by the Office of Aircraft Services or the U.S. Forest Service. This list is available from BLM District Offices upon request.

All listed personnel shall be physically fit, experienced, and fully capable of functioning as required. All personnel shall arrive at the project area(s) with the following personal safety equipment: long sleeve natural fabric shirt, full length natural fabric trousers, minimum eight (8) inch top leather boots, hardhat, and leather gloves. All listed tools and equipment shall be in good usable condition. All power-driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power-driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop-up on each unit to be burned as shown on Exhibit A as required in Section 42(F) for ten (10) days for each piled unit and piled landing as directed by the Authorized Officer within a three (3) day period for each piled unit and piled landing beginning 8:00 a.m. the day following completion of ignition in that unit or until released from such services by the Authorized Officer, whichever occurs first.

In the event of a fire escapement, Purchaser's personnel and equipment shall, under supervision of the Authorized Officer or designated representative, take action to suppress, including control and mop-up, the escaped fire until released from such service by the Government. If it becomes necessary to suppress a fire which escapes from the prescribed fire area for a period beyond midnight of ignition day, then the Government shall, at its option: (1) reimburse Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for Western Area and at equipment rates shown in the current Oregon-Washington Interagency Fire Fighting Equipment Rental Rates schedule, until the Purchaser is released from such service by the Government, or (2) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

In situations where an escaped fire is controlled and contained by an adequate fire break (i.e., trail, road, stream, rock formation, etc.), the Government may permit the Purchaser to remove personnel for that day; provided that, all mop-up work on the escaped fire area is included with mop-up work on the prescribed fire area. In such an event, the Purchaser must sign a statement of agreement to complete mop-up work on all escaped fire areas concurrently with mop-up work on the prescribed fire area.

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.

- (3) <u>SD-5</u> Perform logging residue reduction and site preparation work on approximately two hundred seventy seven (277) acres of harvest area located in the harvest units as shown on Exhibit A.
 - (a) The required work shall consist of any treatment or combination of treatments listed in the table below as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treat	Cost/Acre		
Hand pile and Cover	0-20 piles/ac	L1	\$283.00
Hand pile and Cover	21-40 piles/ac	L2	\$371.00
Hand pile and Cover	41-60 piles/ac	L3	\$500.00
Hand pile and Cover	61-80 piles/ac	L4	\$608.00
Lop and Scatter			\$41.00
Hand pile Burn	21-40 piles/ac	L2	\$41.00

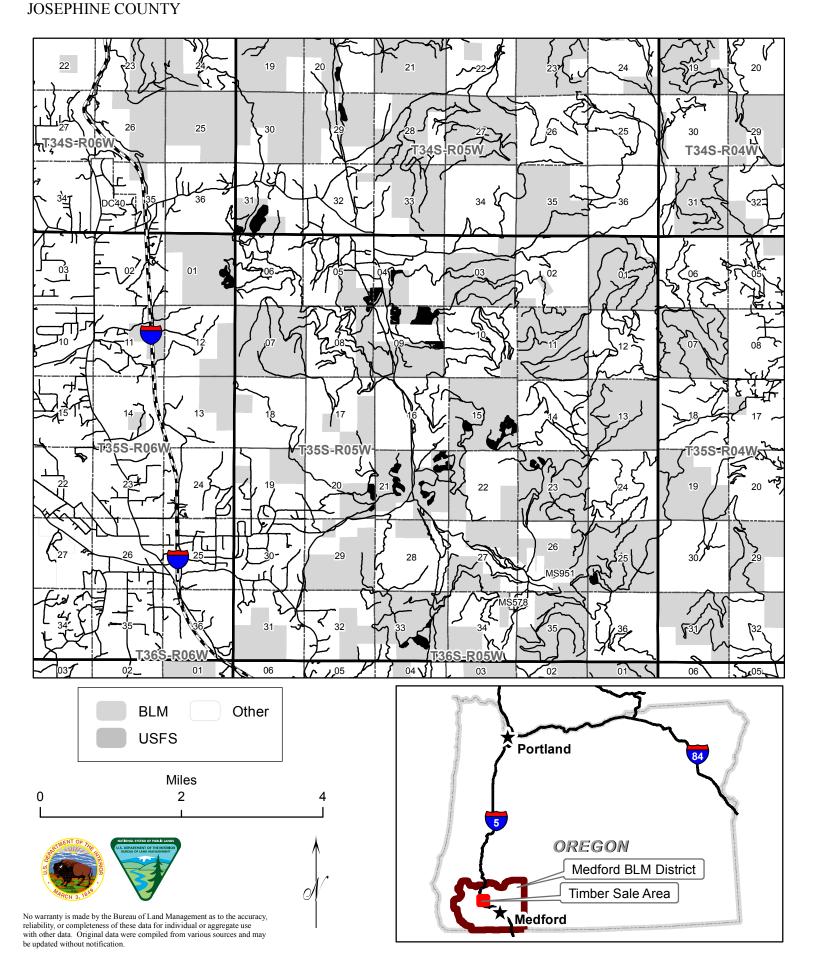
(b) The following treatments were assumed for appraisal purposes on this contract:

Appraised Treatment	Acres	Cost/Acre	Total Cost per Treatment
Hand Pile and Cover L2	165	\$371.00	\$61,215.00
Lop and Scatter	112	\$41.00	\$4,592.00
Hand pile Burn L2	165	\$41.00	\$6,765.00
Total Appraised Cost	\$72,572.00		

(c) The Total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatment designated

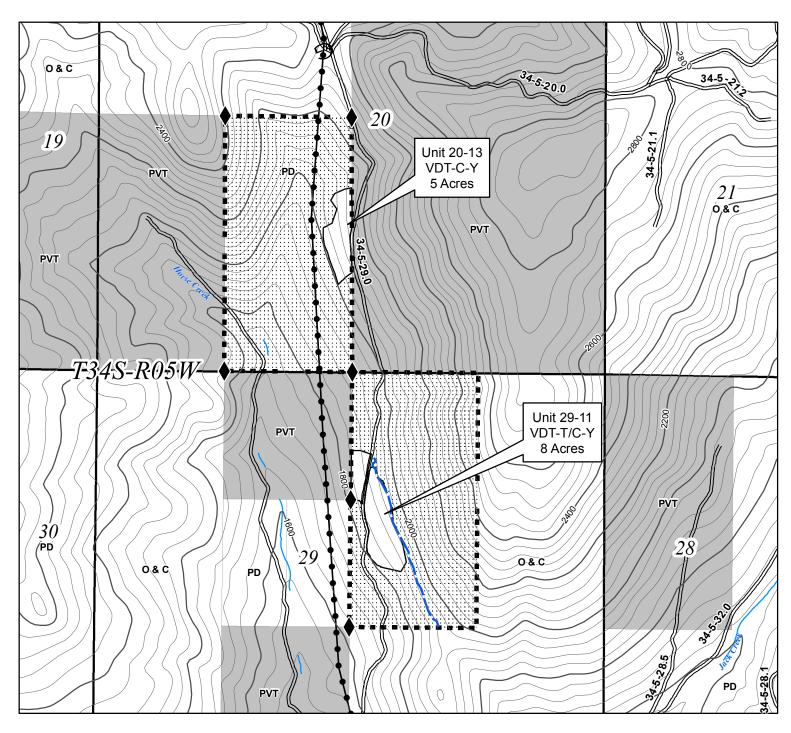
pursuant to section 42(F)(3)(a) differs from seventy two thousand five hundred seventy two dollars and 00/100 cents (\$72,572.00) as calculated by using the estimated acres determined by the Authorized Officer and the per acre cost listed in Section 42(F)(3)(a).

- (G) Equal Opportunity in Employment
 - (1) Certification of Non-segregated Facilities attached hereto and made a part hereof.



U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-13-07 T. 34 S., R. 5 W., SEC. 20 AND 29, WILL. MER. JUMPING BEAN TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 **EXHIBIT A** PAGE 1 OF 12





1 inch = 1,000 feet



United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200

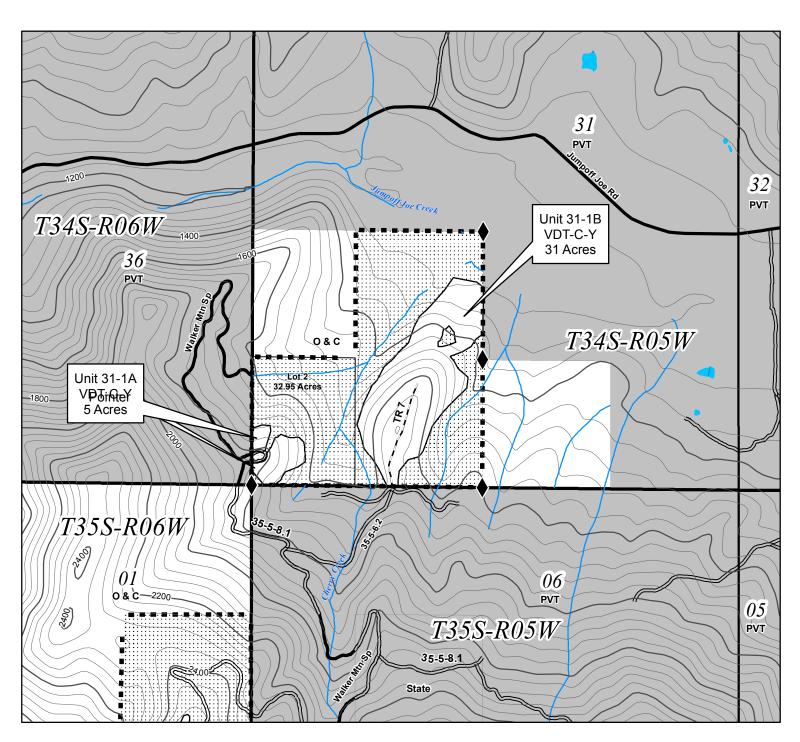


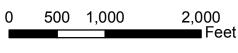


No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.

U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-13-07 T. 34 S., R. 5 W., SEC. 31, WILL. MER. JUMPING BEAN TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 2 OF 12





1 inch = 1,000 feet



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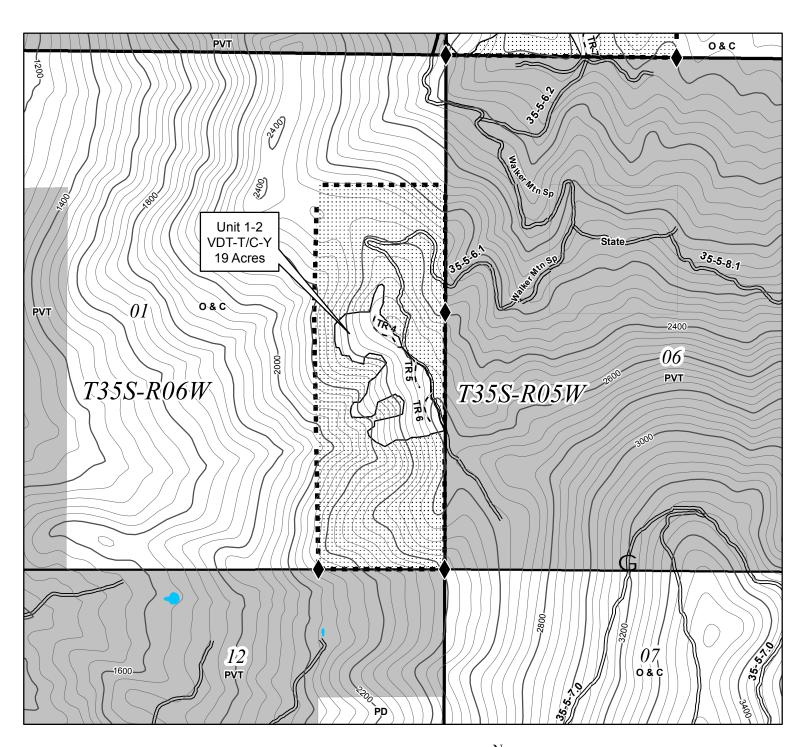




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U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-13-07 T. 35 S., R. 6 W., SEC.1, WILL. MER. JUMPING BEAN TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 3 OF 12





1 inch = 1,000 feet



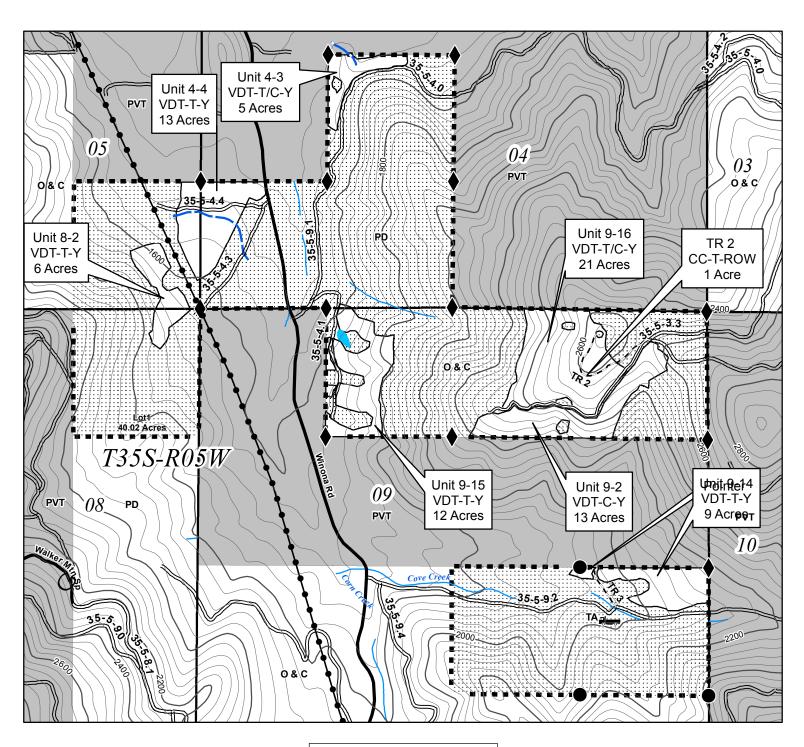
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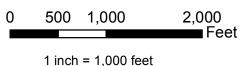




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TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 4 OF 12





**Note: Temprary Road # 2 (TR 2)
boundaries are posted
with right of way tags and
flagged in orange.

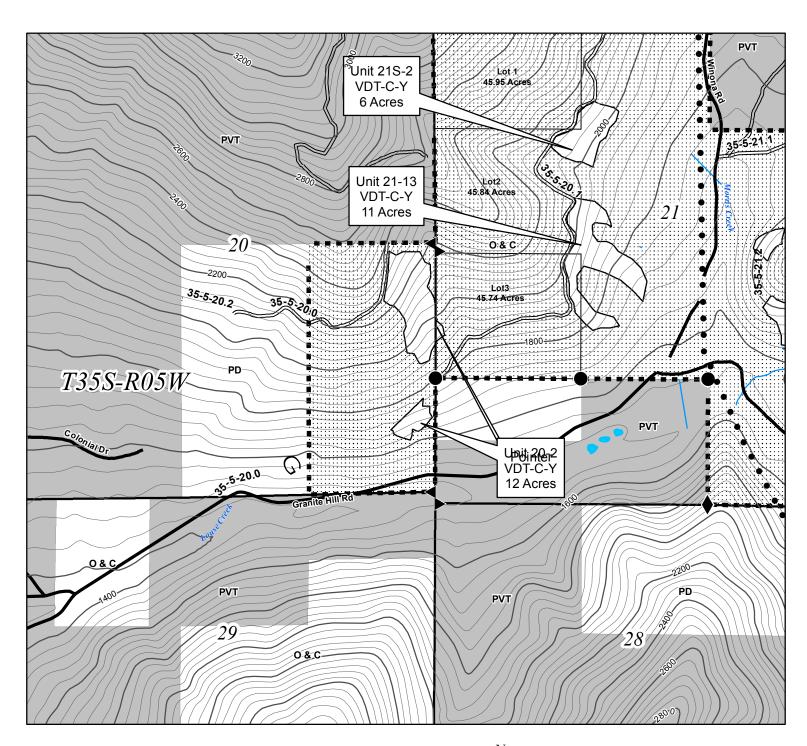


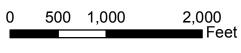
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TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 5 OF 12





1 inch = 1,000 feet



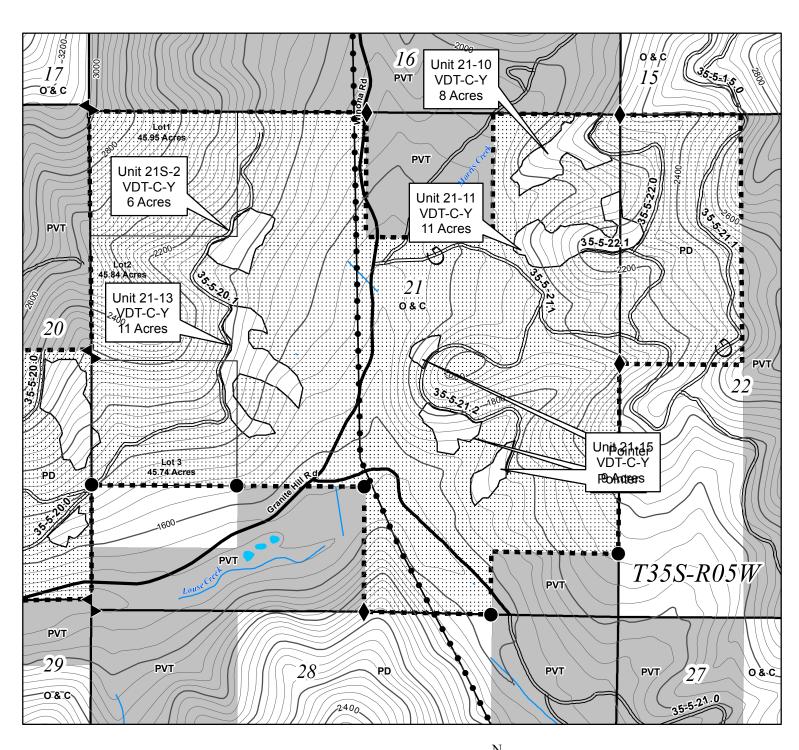
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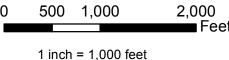




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TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 **EXHIBIT A** PAGE 6 OF 12







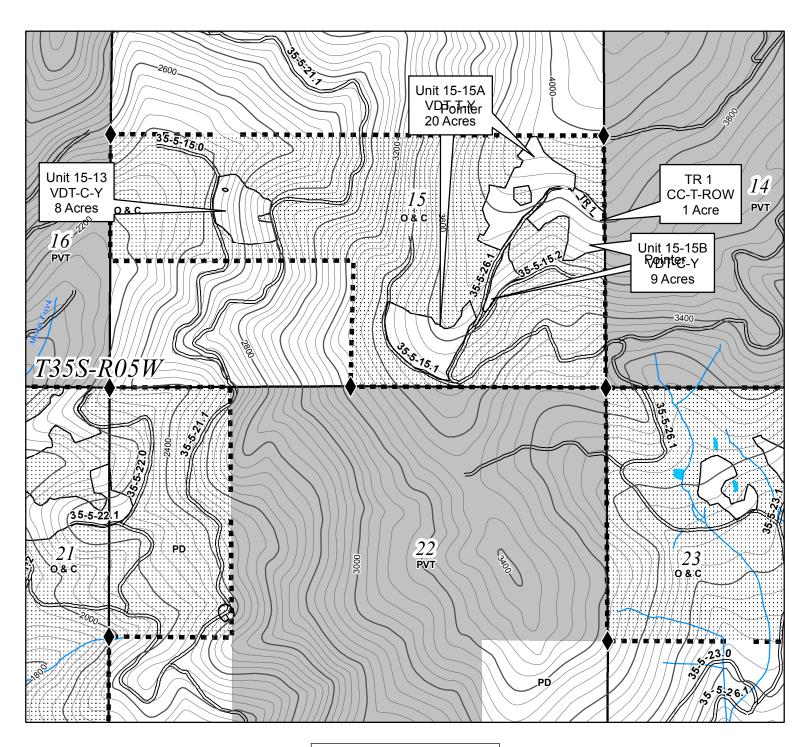
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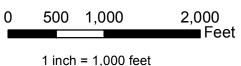




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TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 7 OF 12





**Note: Temporary Road # 1 (TR 1)
boundaries are posted
with right of way tags and
flagged in orange.



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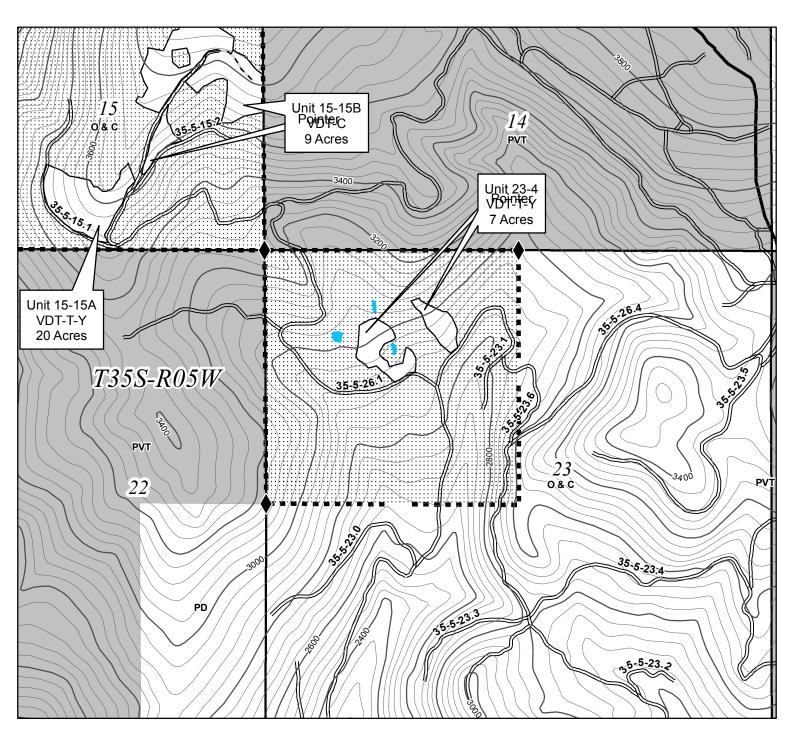




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U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-13-07 T. 35 S., R. 5 W., SEC. 23, WILL. MER. JUMPING BEAN TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 8 OF 12





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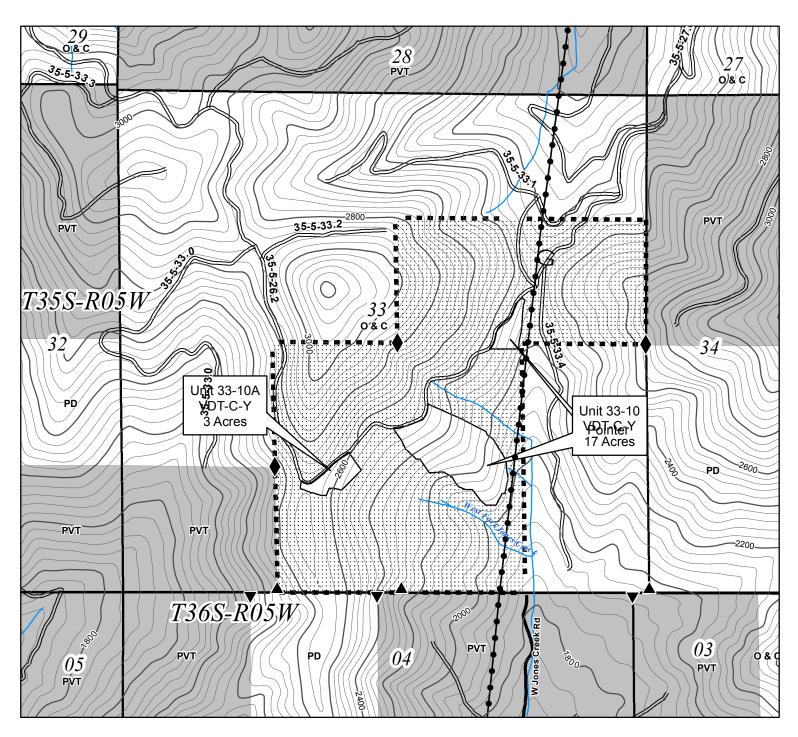


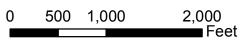


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U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-13-07 T. 35 S., R. 5 W., SEC. 33, WILL. MER. JUMPING BEAN TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 **EXHIBIT A** PAGE 9 OF 12





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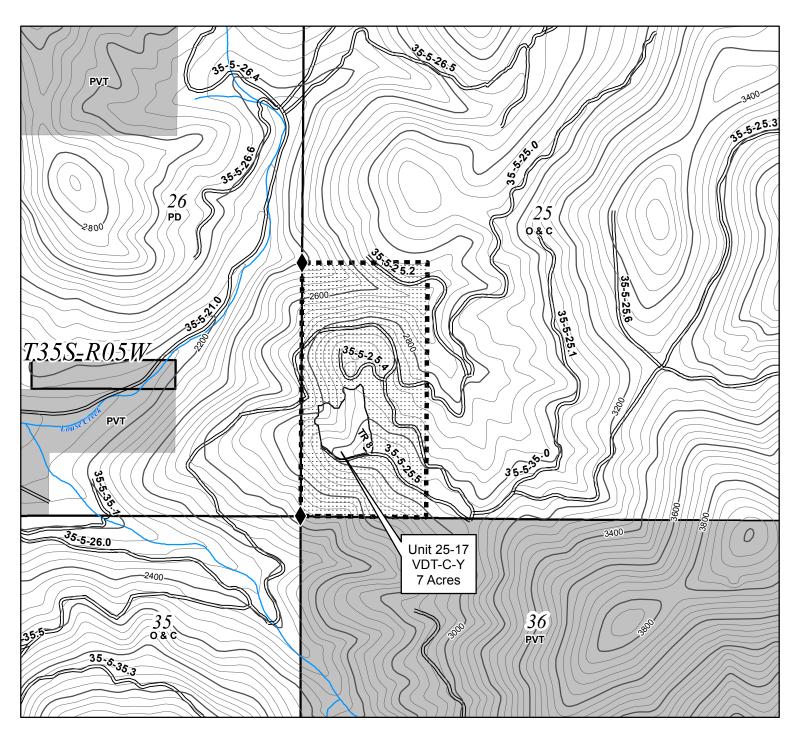




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U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-13-07 T. 35 S., R. 5 W., SEC. 25, WILL. MER. JUMPING BEAN TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 **EXHIBIT A** PAGE 10 OF 12





1 inch = 1,000 feet



United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200





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

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 11 OF 12

Legend

	Index 200 ft Contour		Contract Boundary
	Intermediate 40 ft Countour		Reserve Area
lack	Brass Cap Monument		Jumping Bean Timber Sale Units
>	Brass Cap Monument		Lot
	Brass Cap Monument		Sections
	Iron Rod		Township
G	Gate	Own	ership
~~	Stream		Federal
	Mining Ditch (Protection)		Non-Federal
\sim	County Roads	O&C	BLM O & C Land
\sim	Roads	PD	BLM Public Domain Land
	TR # - Temporary Route	PVT	Private Lands
~	Powerlines and Underground Gas Pipeline	State	State of Oregon Lands
	TA-Truck Turn Around		

Summary

	_	
Logging System	Harvet Type	Acres
VDT-C-Y	Variable Density Thinning-Cable Yard- Yellow Mark Reserve Tree	155
VDT-T-Y	Variable Density Thinning-Tractor Yard- Yellow Mark Reserve Tree	67
VDT-T/C-Y	Variable Density Thinning-Tractor and Cable YardYellow Mark Reserve Tree	53
CC-T-ROW	Clear Cut-Tractor Yard-Right Of Way	2
	Total Timber Sale Area	277
	Reserve Area	1833.5
	Total Contract Area	2110.5

^{***}Unit boundaries are flagged in orange ribbon, posted and painted orange. Unit acreages were determined by the Global Positioning System (GPS).

TIMBER SALE CONTRACT MAP CONTRACT NO. ORM07-TS-13-07 EXHIBIT A PAGE 12 OF 12

Unit Summary

	A 2422	Harvet	Paint	Logging
	Acres	Type	Color	System
1-2	19	VDT	Υ	T/C
4-3	5	VDT	Υ	T/C
4-4	13	VDT	Υ	Т
8-2	6	VDT	Υ	Т
9-2	13	VDT	Υ	С
9-14	9	VDT	Υ	Т
9-15	12	VDT	Υ	Т
9-16	21	VDT	Υ	T/C
15-13	8	VDT	Υ	С
15-15A	20	VDT	Υ	Т
15-15B	9	VDT	Υ	С
20-2	12	VDT	Υ	С
20-13	5	VDT	Υ	С
21-10	8	VDT	Υ	С
21-11	11	VDT	Υ	С
21-13	11	VDT	Υ	С
21-15	9	VDT	Υ	С
21S-2	6	VDT	Υ	С
23-4	7	VDT	Υ	Т
25-17	7	VDT	Υ	С
29-11	8	VDT	Υ	T/C
31-1A	5	VDT	Υ	С
31-1B	31	VDT	Υ	С
33-10	17	VDT	Υ	С
33-10A	3	VDT	Υ	С
TR 1	1	CC	ROW	Т
TR 2	1	CC	ROW	Т
Total	277			

VDT Variable Density Thin

T Tractor (Ground Base) Yard Area

C Cable Yard Area

Y Yellow Paint-Retention Tree Mark

ROW Right-of-Way Clearing Limits Posted & Painted in Orange

^{***}Unit boundaries are flagged in orange ribbon, posted and painted orange. Unit acreages were determined by the Global Positioning System (GPS).

Exhibit B

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

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

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	2,625		
Incense-cedar	173		
Ponderosa Pine	105		
White Fir	78		
Sugar Pine	45		
Sale Totals	3,026		

Unit Details (16' MB)

Unit	1-2	19 Acres	Value ner Acre · \$0 00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	178		
Incense-cedar	11		
Ponderosa Pine	7		
Sugar Pine	3		
White Fir	5		
Unit Totals	204		

Unit	15-13	8 Acres	Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	86		

Printed: 8/2/2013 8:15:35AM Page 2 of 9

Unit	15-15A	20 Acres	Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	188		
Incense-cedar	12		
Ponderosa Pine	7		
Sugar Pine	3		
White Fir	6		
Unit Totals	216		

Unit 15-15B 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	84		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	3		
Unit Totals	96		

Unit 20-13 5 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	3		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	1		
Unit Totals	54		

Unit 20-2 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	129		

Printed: 8/2/2013 8:15:35AM Page 3 of 9

Unit 21-10 8 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	86		

Unit 21-11 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	103		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	119		

Unit 21-13 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	103		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	119		

Unit 21-15 9 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	84		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	3		
Unit Totals	96		

Printed: 8/2/2013 8:15:35AM Page 4 of 9

Unit 21S-2 6 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	56		
Incense-cedar	4		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	2		
Unit Totals	65		

Unit 23-4 7 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	66		
Incense-cedar	4		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	76		

Unit 25-17 7 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	66		
Incense-cedar	4		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	76		

Unit 29-11 8 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	86		

Printed: 8/2/2013 8:15:35AM Page 5 of 9

Unit 31-1A 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	3		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	1		
Unit Totals	54		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	292		
Incense-cedar	19		
Ponderosa Pine	13		
Sugar Pine	8		
White Fir	9		
Unit Totals	341		

Unit 33-10 17 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	159		
Incense-cedar	10		
Ponderosa Pine	6		
Sugar Pine	3		
White Fir	5		
Unit Totals	183		

Unit 33-10A 3 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	28		
Incense-cedar	2		
Ponderosa Pine	1		
Sugar Pine			
White Fir	1		
Unit Totals	32		

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Unit 4-3 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	3		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	1		
Unit Totals	54		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	122		
Incense-cedar	8		
Ponderosa Pine	5		
Sugar Pine	2		
White Fir	4		
Unit Totals	141		

Unit 8-2 6 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	56		
Incense-cedar	4		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	2		
Unit Totals	65		

Unit 9-14 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	84		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	3		
Unit Totals	96		

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Unit 9-15 12 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	129		

Unit 9-16 21 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	197		
Incense-cedar	13		
Ponderosa Pine	8		
Sugar Pine	3		
White Fir	6		
Unit Totals	227		

Unit 9-2 13 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	122		
Incense-cedar	8		
Ponderosa Pine	5		
Sugar Pine	2		
White Fir	4		
Unit Totals	141		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	9		
Incense-cedar	6		
Ponderosa Pine	2		
White Fir			
Unit Totals	17		

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Medford Jumping Bean ORM07-TS-13-07

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	36		
Incense-cedar	1		
Ponderosa Pine	1		
Sugar Pine			
White Fir			
Unit Totals	38		

Printed: 8/2/2013 8:15:35AM Page 9 of 9

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT

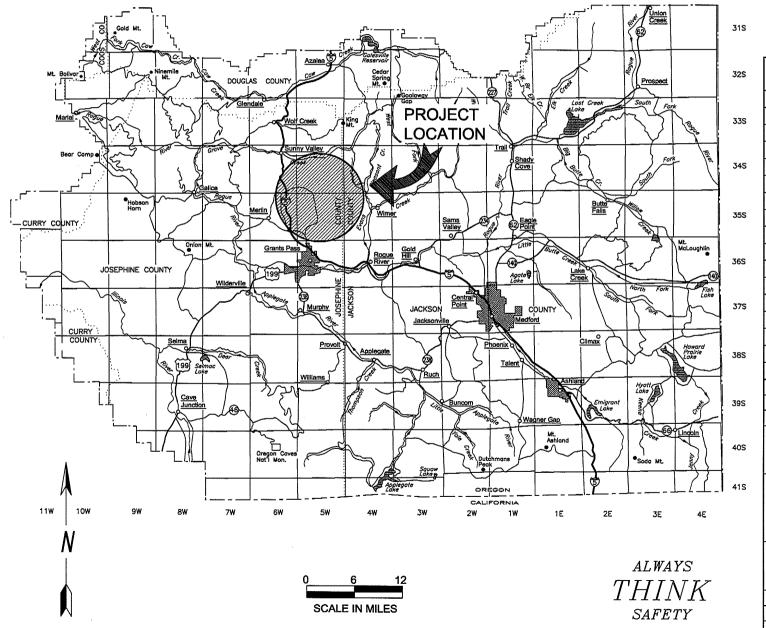


EXHIBIT C1 SHEET 1 OF 1

JUMPING BEAN TIMBER SALE TRACT NO. ORM07-TS-13-07

	1			
EXHIBIT				
NO.	DESCRIPTION			
C1	TITLE SHEET			
C2	OVERALL SALE & ROAD RE	NOVATION N	MAPS	
СЗ	ESTIMATE OF QUANTITIES		,	
C4	SPECIFICATION SHEET			
C5	TYPICAL ROAD DATA			
C6	CULVERT INSTALL DETAIL			
C7	CULVERT BAND DETAIL			
C8	DRAINAGE & EROSION CO	NTROL INSTA	ALLATION	
C9	ARMORED WATER DIP			
C10	ROADSIDE BRUSHING DET	ROADSIDE BRUSHING DETAIL		
C11	ROAD RENOVATION WORKLIST			
C12	WRITTEN SPECIFICATIONS			
C13	SPECIAL PROVISIONS	SPECIAL PROVISIONS		
C14	RAMP OVER NATURAL GAS	LINE		
D1	ROAD MAINTENANCE SPEC	IFICATIONS		
D2	ROAD MAINTENANCE MAP			
REV. NO	. DESCRIPTION	DATE	APPROV.	

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

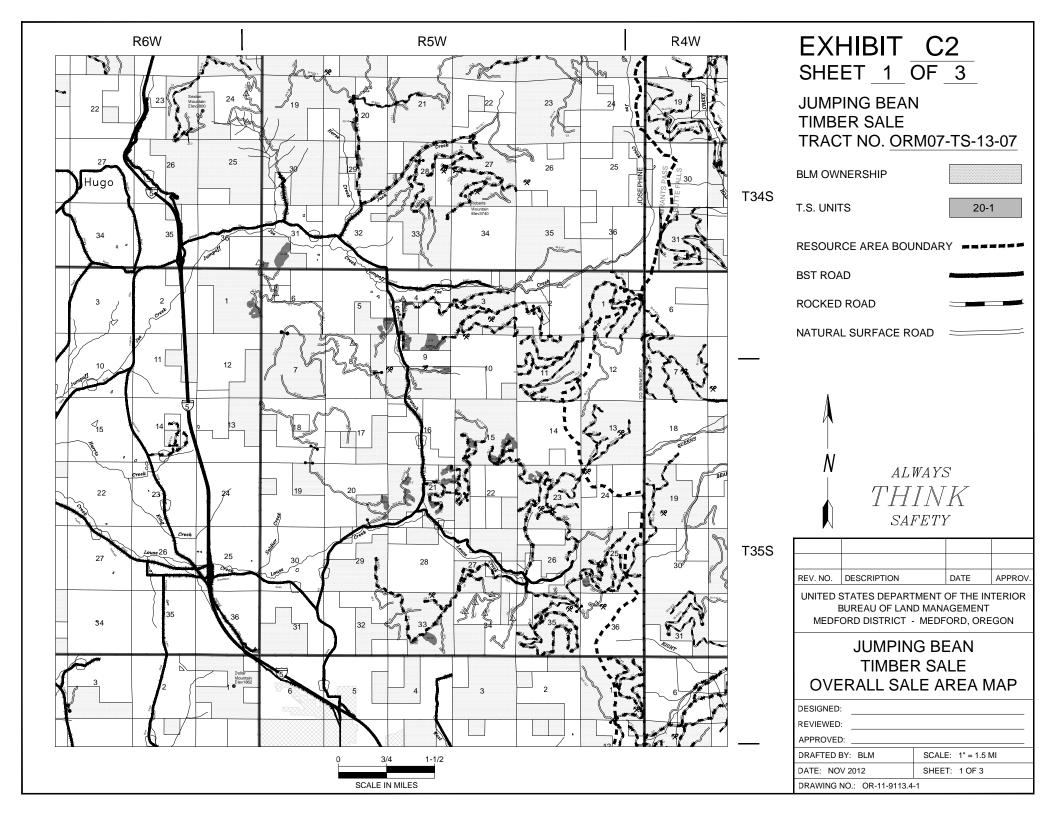
> JUMPING BEAN TIMBER SALE TITLE SHEET

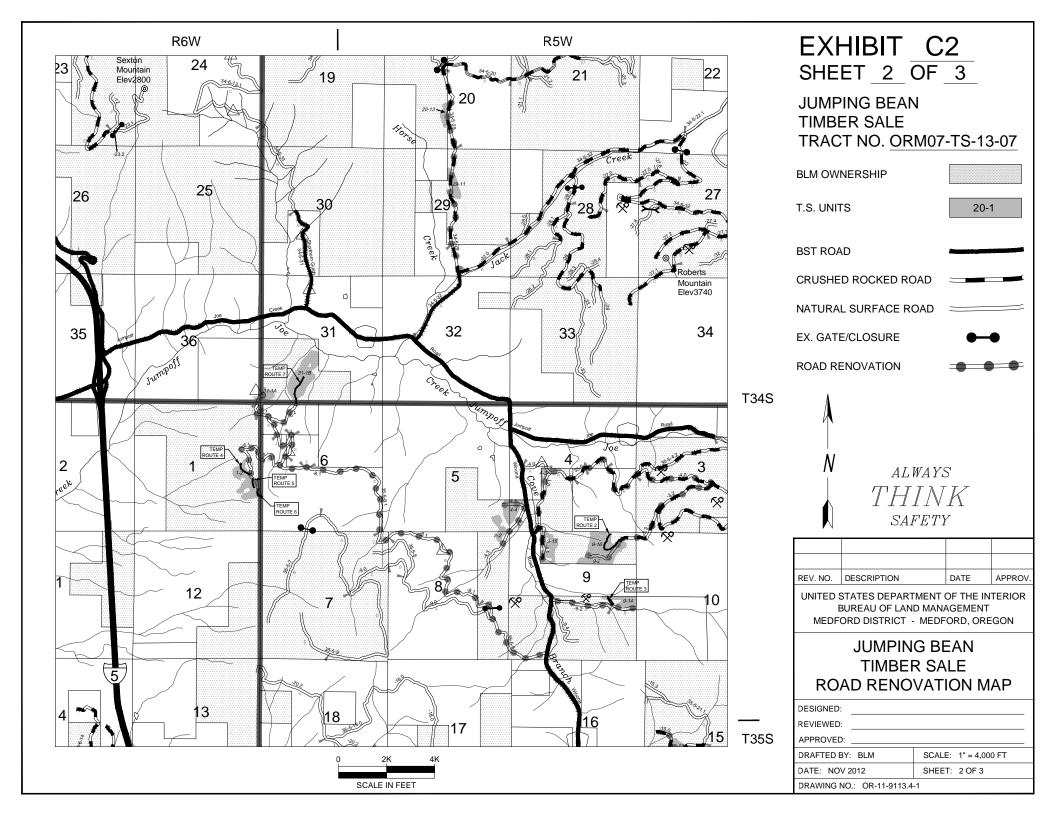
DESIGNED: CHANGE IN THE REVIEWED: JAMES DE TROY

DRAFTED BY: CW
DATE: FEB 2013

SCALE: 1" = 12 MI SHEET: 1 OF 1

DRAWING NO.: OR-11-9113.4-1





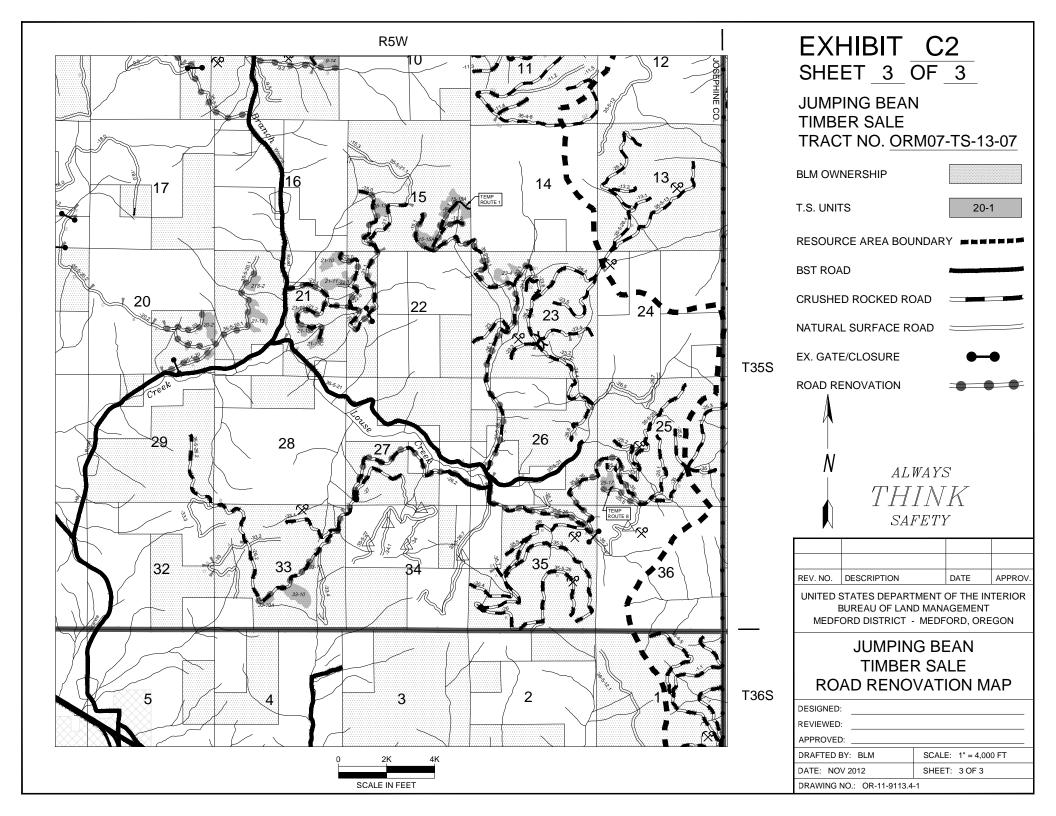


EXHIBIT C3 SHEET 1 OF 3

					EXCAV	/ATION				DR/	AINA	GE				RE	NOVAT	ION		AGGRE					MISC.			
							С		RUGA ZE	TED	MET.		IPE 1					NOIL					NOI	9 Ne	χïω	RUCT	S	ST.,
ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	ROCK	COMMON	18"	24"	30"	36"	ELBOWS	FL ROI		HA ROL		RESHAPE EX. ROAD SURFACE	DITCH & CULVERT CLEANING	SCARIFICATION	PIT RUN	CRUSHED BASE ROCK	BORROW MATERIAL	RIP RAP	SOIL STABILIZATION	ROADSIDE BRUSHING AND CHIPPING	RESHAPE EX. WATERDIPS	RECONSTE WATERBAR	CONSTRUCT WATERDIPS CONTINUOUS	RIPPING RMV., CONST., OR RECONST., BARRICADE
SPECIFICATION	V <i>NO.</i> —		-	200	30	00					400						500		700	1000			1800	2100			8000	
UNITS——	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	MILE	CY	CY	CY	CY	ACRE	MILE	EA	EA	EA M	I EA
34-5-29 (A-B)	0.00	1.37	1.37													1.37	1.37							1.37				
35-5-3.2	0.00	0.49	0.49													0.49	0.49							0.49				
35-5-3.3	0.00	0.92	0.92													0.92	0.92		80					0.92	1		2	
35-5-4 (B-F)	0.00	1.79	1.79											10		1.79	1.79							1.79				
35-5-4.1	0.00	0.31	0.31													0.31	0.31							0.31				
35-5-4.3	0.00	0.30	0.30													0.30	0.01				35			0.30		3		
35-5-4.4	0.00	0.19	0.19													0.19								0.19				
35-5-6.1(A-B)	0.00	1.00	1.00				30									1.00	1.00	0.32						0.32				
35-5-6.2	0.00	0.31	0.31													0.31	0.31					40		0.31	1	3		
35-5-8.1 (A-J)	0.00	4.18	4.18				204	236	6					20		4.18	4.18				60	686		4.18	1		15	
35-5-9 (A)	0.00	0.61	0.61				36	40								0.61	0.61							0.61				
35-5-9.1	0.00	0.61	0.61													0.61	0.61							0.61				
35-5-9.2 (A-B)	0.00	0.71	0.71														0.71							0.71				
TOTALS		SEE E	хнівіт с	3 - SHEET	3 OF 3	FOR G	UAN	TITY	тот	ALS																		—

RENOVATION NOTES

- 1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.
- 2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

AGGREGATE GRADATION REQUIREMENTS

ITEM 1000

,
GRADATION
Α
В
С
D

ITEM OOO

SIZE	GRADATION
3 inch	A,C,F
2 inch	B,D,G,H

 ITEM 1200

 SIZE
 GRADATION

 1 1/2 inch
 C,C-1

 1 inch
 D,D-1

 3/4 inch
 E,E-1

ALWAYS
THINK
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.

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

JUMPING BEAN TIMBER SALE ESTIMATE OF QUANTITIES

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: BLM	SCALE: NONE
DATE: JULY 2013	SHEET: 1 OF 3
DRAWING NO.: OR-11-9113.4	-1

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

EXHIBIT C3 SHEET 2 OF 3

					EXCA\	/ATION				DRA	AINAC	ЭΕ				RE	NOVAT	ON		AGGRE	EGATE						MIS	C.	
ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	ROCK	COMMON	18"	ORR SI. 24"		36"	ELBOWS BW		OOWNS	6 GA SPOUT HA ROL 18"	Г	RESHAPE EX.ROAD SURFACE	DITCH & CULVERT CLEANING	SCARIFICATION	PIT RUN	CRUSHED BASE ROCK	BORROW MATERIAL	RIPRAP	SOIL STABILIZATION	ROADSIDE BRUSHING AND CHIPPING	RESHAPE EX. WATERDIPS	RECONSTRUCT WATERBARS	CONSTRUCT WATERDIPS	CONTINUOUS RIPPING	RMV., CONST., OR RECONST.
SPECIFICATION	NO.—		_	200	30	00					400						500		700	1000			1800	2100			8000	0	
UNITS—	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	MILE	CY	CY	CY	CY	ACRE	MILE	EA	EA	EA	МІ	EA
35-5-15	0.00	0.55	0.55													0.55	0.55							0.55					
35-5-15.1	0.00	0.25	0.25													0.25	0.25							0.25					
35-5-15.2	0.00	0.14	0.14													0.14	0.14							0.14					
35-5-20 (A-B)	0.00	1.43	1.43													1.43	1.43							1.43					
35-5-20.1	0.00	0.85	0.85													0.85	0.85		100					0.85					
35-5-21.1 (A-C)	0.00	2.17	2.17													2.17	2.17			40				2.17					
35-5-21.2	0.00	0.74	0.74				34									0.74	0.74					113		0.74			2		1
35-5-22	0.00	0.65	0.65													0.65	0.65							0.65					
35-5-22.1	0.00	0.09	0.09													0.09	0.09		30					0.09		1			
35-5-23.1 (A)	0.00	0.09	0.09													0.09	0.09							0.09					
35-5-25.5	0.00	0.35	0.35													0.35								0.35					
35-5-26 (A)	0.00	1.07	1.07													1.07	1.07							1.07					
35-5-26.1 (A-B)	0.00	3.38	3.38													3.38	3.38							3.38					
TOTALS		SEE E	XHIBIT C	3 - SHEET	3 OF 3	FOR Q	UAN	TITY	TOTA	LS																			

RENOVATION NOTES

- 1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.
- 2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

AGGREGATE GRADATION REQUIREMENTS

ITEM 900 ITEM 1000 ITEM 1200 SIZE **GRADATION** SIZE **GRADATION** SIZE **GRADATION** 4 inch 3 inch A.C.F 1 1/2 inch 3 inch В 2 inch B,D,G,H 1 inch 2 inch С 3/4 inch 1 1/2 inch D

> ALWAYSTHINKSAFETY

C.C-1

D,D-1

E.E-1

REV. NO.	DESCRIPTION	DATE	APPROV.

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

JUMPING BEAN TIMBER SALE **ESTIMATE OF QUANTITIES**

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: BLM	SCALE: NONE
DATE: JULY 2013	SHEET: 2 OF 3
DRAWING NO.: OR-11-9113.4	-1

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

EXHIBIT C3 SHEET 3 OF 3

					EXCA\	/ATION				DRA	AINAC	GΕ				RE	NOVAT	ON		AGGRE	GATE				MISC.				
ROAD				CLEARING	×	COMMON	С	SI	UGA ⁻ ZE	TED			OOWN	6 GA SPOUT		RESHAPE EX. ROAD SURFACE	DITCH & CULVERT CLEANING	SCARIFICATION		CRUSHED BASE ROCK	BORROW MATERIAL	(AP	SOIL STABILIZATION	ROADSIDE BRUSHING AND CHIPPING	RESHAPE EX. WATERDIPS	RECONSTRUCT WATERBARS	CONSTRUCT WATERDIPS	CONTINUOUS RIPPING	RMV,, CONST,,
NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	AND GRUBBING	ROCK	COM	18"	24"	30"	36"	ELBOWS	18"	24"	18"	24"	RESH EX. R SURF	DITC CUL\ CLEA	SCAF	F S N	CRU! BASE ROCI	BORI	RIP RAP	SOIL	ROAI BRUS	RESH	RECO	CONS	CON.	ZMV G
SPECIFICATION	NO.—		_	200	30	00					400						500		700	1000			1800	2100			8000	0	
UNITS—	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	LF	EA	LF	LF	LF	LF	MILE	MILE	MILE	CY	CY	CY	CY	ACRE	MILE	EA	EA	EA	МІ	E
35-5-26.2 (A-B)	0.00	2.90	2.90													2.90	2.90							2.90					
35-5-35 (A-B)	0.00	1.56	1.56													1.56	1.56							1.56					
Temp Route 1	0.00	0.09	0.09	0.13		1757																	0.13				2	0.09	1
Temp Route 2	0.00	0.23	0.23	0.33		4492																	0.33				3	0.23	1
Temp Route 3	0.00	0.11	0.11	0.16		2150																40	0.16				2	0.11	2
Temp Route 4	0.00	0.07	0.07	0.10		74																	0.10				2	0.07	1
Temp Route 5	0.00	0.06	0.06	0.09		1442																	0.09					0.06	1
Temp Route 6	0.00	0.06	0.06	0.09		1173																	0.09					0.06	1
Temp Route 7	0.00	0.22	0.22	0.30		555																	0.30					0.22	1
Temp Route 8	0.00	0.03	0.03	0.04		585																	0.04					0.03	1
TOTALS																				40	00								
TOTALS			29.88	1.24		12,228	304	276						20		28.30	28.47	0.32	210	40	82	879	1.24	28.62	3	7	9	0.87	10

RENOVATION NOTES

- 1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.
- 2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

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

AGGREGATE GRADATION REQUIREMENTS

ITEM 1000

11 – 141 O	30
SIZE	GRADATION
4 inch	Α
3 inch	В
2 inch	С
1 1/2 inch	D

ITFM 900

SIZE GRADATION
3 inch A,C,F
2 inch B,D,G,H

ITEM 1200

SIZE GRADATION

1 1/2 inch C,C-1
1 inch D,D-1
3/4 inch E.E-1

ALWAYS
THINK
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV

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

JUMPING BEAN TIMBER SALE ESTIMATE OF QUANTITIES

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: BLM	SCALE: NONE
DATE: JULY 2013	SHEET: 3 OF 3
DRAWING NO.: OR-11-9113.4	-1

					ALIGNMENT	ROAD W	/IDTH ¹⁻³	GRAD	DIENT BRUSHING \			IG WI	IDTH SURFACING ³									
										DEV	OND		STING AD(S)			OURSE		SL	JRFACE	COUR	SE	1
												KO?	10(3)		NOT				TION			
ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	TYPICAL STATION TYPE	MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	TOP CUT	TOE FILL	L	R	MINIMUM	COMPACTION DEPTH	TYPE 2	GRADING	MINIMUM WIDTH	COMPACTION DEPTH	TYPE 2	GRADING	REMARKS
34-5-29 (A-B)	0.00	1.37	1.37	6		14'	3'					4	4							ASC		
35-5-3.2	0.00	0.49	0.49	6		14'	3'					4	4							ASC		
35-5-3.3	0.00	0.92	0.92	6		14'	3'					4	4							NAT		
35-5-4 (B-F)	0.00	1.79	1.79	6		14'	3'					4	4							ASC		
35-5-4.1	0.00	0.31	0.31	6		14'	3'					4	4							ASC		
35-5-4.3	0.00	0.30	0.30	6		16'	3'					4	4							NAT		
35-5-4.4	0.00	0.19	0.19	6		16'	3'					4	4							ASC		
35-5-6.1(A-B)	0.00	1.00	1.00	6		16'	3'					4	4							NAT		
35-5-6.2	0.00	0.31	0.31	6		14'	3'					4	4							NAT		
35-5-8.1(A-J)	0.00	4.18	4.18	6		14'	3'					4	4							NAT		
35-5-9 (A)	0.00	0.61	0.61	6		16'	3'					4	4							NAT		
35-5-9.1	0.00	0.61	0.61	6		14'	3'					4	4							ABC		
35-5-9.2 (A-B)	0.00	0.71	0.71	6		17'	3'					4	4							BST		
35-5-15	0.00	0.55	0.55	6		17'	3'					4	4							PRR		

NOTES

1. EXTRA SUB-GRADE WIDTHS

TO EACH FILL SHOULDER, ADD 1 FOOT FOR FILLS OF 1-6 FEET AND 2 FEET FOR FILLS OVER 6 FEET. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS WHEN THE DEGREE OF CURVE EQUALS:

7-21 ADD 1 FT.

22-35 ADD 2 FT.

36-48 ADD 3 FT.

49-64 ADD 4 FT.

65-96 ADD 5 FT.

MATERIALS	CUT SLOPE	FILL SLOPE
COMMON	1/2 : 1	1 1/2 : 1
SOFT ROCK & SHALE	1/2 : 1	1 1/2 : 1
SOLID ROCK	1/2 : 1	angle of repose

2. SURFACING TYPES

- A. PIT RUN ROCK
- B. GRID ROLLED ROCK MATERIAL
- C. SCREENED ROCK MATERIAL
- D. CRUSHED ROCK MATERIAL

3. TURNOUTS

- A. WIDTH 10 FT. IN ADDITION TO SUB-GRADE WIDTH, OR AS SHOWN ON THE PLANS.
- B. LOCATED APPROXIMATELY, AS SHOWN ON THE ROAD PLANS.
- C. INVISIBLE AND NOT MORE THAN 750 FT. APART.

4. SURFACING

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

5. CLEARING WIDTH SEE SUBSECTION 2100



REV. NO.	DESCRIPTION	DATE	APPROV.

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

JUMPING BEAN TIMBER SALE SPECIFICATION SHEET

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: BLM	SCALE: NONE
DATE: JULY 2013	SHEET: 1 OF 4
DRAWING NO.: OR-11-9113.4	-1

					ALIGNMENT	ROAD W	/IDTH ¹⁻³	GRADIENT BRUSHING WIDTH								S	URF/					
										DE.	OND	EXIST		1		OURSE		SL	JRFACE	COUR	SE	
												ROAD	ν(O)		NOL				NOT NO			
ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	TYPICAL STATION TYPE	MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	TOP CUT	TOE FILL	L	R	MINIMUM	COMPACTION DEPTH	TYPE ²	GRADING	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING	REMARKS
35-5-15.1	0.00	0.25	0.25	6		14'	3'					4	4							PRR		
35-5-15.2	0.00	0.14	0.14	6		14'	3'					4	4							PRR		
35-5-20 (A-B)	0.00	1.43	1.43	6		14'	3'					4	4							NAT		
35-5-20.1	0.00	0.85	0.85	6		17'	3'					4	4							NAT		
35-5-21.1 (A-C)	0.00	2.17	2.17	6		14'	3'					4	4							PRR		
35-5-21.2	0.00	0.74	0.74	6		17'	3'					4	4							GRR		
35-5-22	0.00	0.65	0.65	6		17'	3'					4	4							GRR		
35-5-22.1	0.00	0.09	0.09	6		17'	3'					4	4							NAT		
35-5-23.1 (A)	0.00	0.09	0.09	6		14'	3'					4	4							ASC		
35-5-25.5	0.00	0.35	0.35	6		14'	3'					4	4							GRR		
35-5-26 (A)	0.00	1.07	1.07	6		14'	3'					4	4							ASC		
35-5-26.1 (A-B)	0.00	3.38	3.38	6		17'	3'					4	4							ASC		
35-5-26.2 (A-B)	0.00	2.90	2.90	6		14'	3'					4	4							ABC	;	
35-5-35 (A-B)	0.00	1.56	1.56	6		16'	3'					4	4							ASC		

NOTES

1. EXTRA SUB-GRADE WIDTHS

TO EACH FILL SHOULDER, ADD 1 FOOT FOR FILLS OF 1-6 FEET AND 2 FEET FOR FILLS OVER 6 FEET. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS WHEN THE DEGREE OF CURVE EQUALS:

7-21 ADD 1 FT.

22-35 ADD 2 FT.

36-48 ADD 3 FT.

49-64 ADD 4 FT.

65-96 ADD 5 FT.

MATERIALS	CUT SLOPE	FILL SLOPE
COMMON	1/2 : 1	1 1/2 : 1
SOFT ROCK & SHALE	1/2 : 1	1 1/2 : 1
SOLID ROCK	1/2 : 1	angle of repose

2. SURFACING TYPES

- A. PIT RUN ROCK
- B. GRID ROLLED ROCK MATERIAL
- C. SCREENED ROCK MATERIAL
- D. CRUSHED ROCK MATERIAL

3. TURNOUTS

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- B. LOCATED APPROXIMATELY, AS SHOWN ON THE ROAD PLANS.
- C. INVISIBLE AND NOT MORE THAN 750 FT. APART.

4. SURFACING

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

5. CLEARING WIDTH SEE SUBSECTION 2100



REV. NO.	DESCRIPTION	DATE	APPROV.

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

JUMPING BEAN TIMBER SALE SPECIFICATION SHEET

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: BLM	SCALE: NONE
DATE: JULY 2013	SHEET: 2 OF 4
DRAWING NO.: OR-11-9113.4	-1

					ALIGNMENT	ROAD W	/IDTH ¹⁻³	GRAD	DIENT	BRU	JSHIN	IG WII	DTH			S	URFA					
										DEV	OND	EXIS ⁻ ROA				OURSE		SL	JRFACE	COUR	SE	
												ROA	D(S)		NOL				TION			
ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	TYPICAL STATION TYPE	MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	TOP CUT	TOE FILL	L	R	MINIMUM WIDTH	COMPACTION DEPTH	TYPE 2	GRADING	MINIMUM WIDTH	COMPACTION DEPTH	TYPE ²	GRADING	REMARKS
Temp Route 1	0.00	0.09	0.09	5		14'						4	4							NAT		
Temp Route 2	0.00	0.23	0.23	5		14'						4	4							NAT		
Temp Route 3	0.00	0.11	0.11	5		14'						4	4							NAT		
Temp Route 4	0.00	0.07	0.07	5		14'						4	4							NAT		
Temp Route 5	0.00	0.06	0.06	5		14'						4	4							NAT		
Temp Route 6	0.00	0.06	0.06	5		14'						4	4							NAT		
Temp Route 7	0.00	0.22	0.22	5		14'						4	4							NAT		
Temp Route 8	0.00	0.03	0.03	5		14'						4	4							NAT		

NOTES

1. EXTRA SUB-GRADE WIDTHS

TO EACH FILL SHOULDER, ADD 1 FOOT FOR FILLS OF 1-6 FEET AND 2 FEET FOR FILLS OVER 6 FEET. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS WHEN THE DEGREE OF CURVE EQUALS:

7-21 ADD 1 FT.

22-35 ADD 2 FT.

36-48 ADD 3 FT.

49-64 ADD 4 FT.

65-96 ADD 5 FT.

MATERIALS	CUT SLOPE	FILL SLOPE
COMMON	1/2 : 1	1 1/2 : 1
SOFT ROCK & SHALE	1/2 : 1	1 1/2 : 1
SOLID ROCK	1/2 : 1	angle of repose

2. SURFACING TYPES

- A. PIT RUN ROCK
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- C. SCREENED ROCK MATERIAL
- D. CRUSHED ROCK MATERIAL

3. TURNOUTS

- A. WIDTH 10 FT. IN ADDITION TO SUB-GRADE WIDTH, OR AS SHOWN ON THE PLANS.
- B. LOCATED APPROXIMATELY, AS SHOWN ON THE ROAD PLANS.
- C. INVISIBLE AND NOT MORE THAN 750 FT. APART.

4. SURFACING

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

5. CLEARING WIDTH SEE SUBSECTION 2100

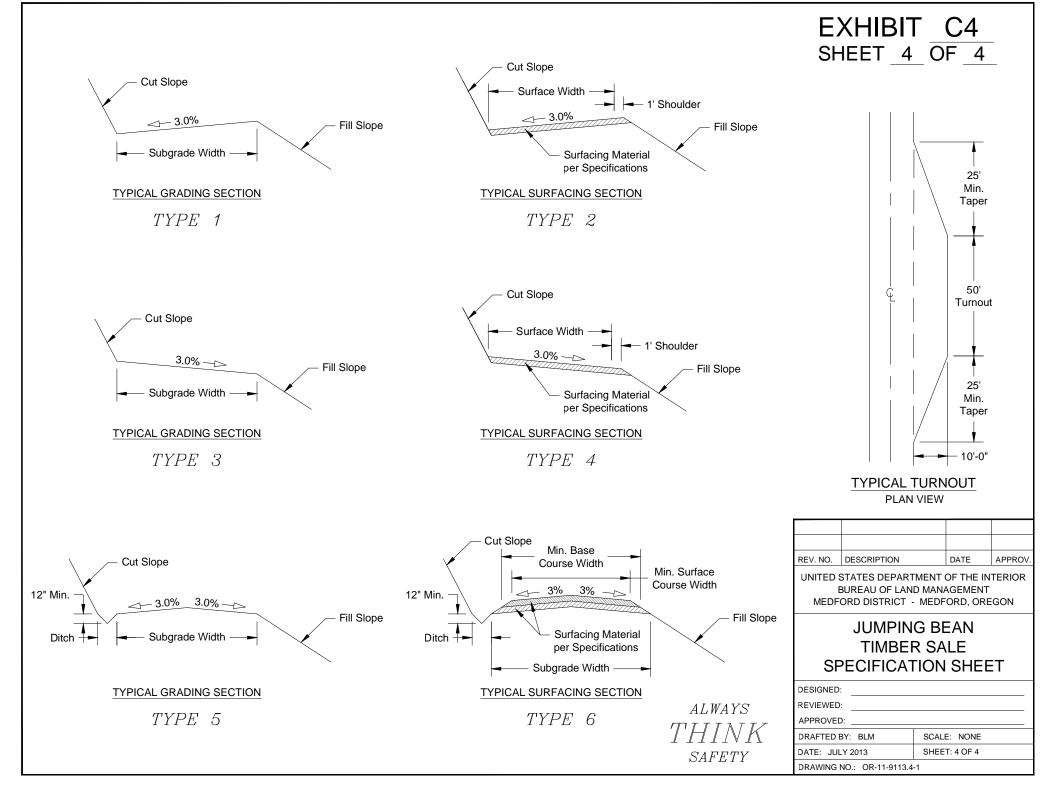


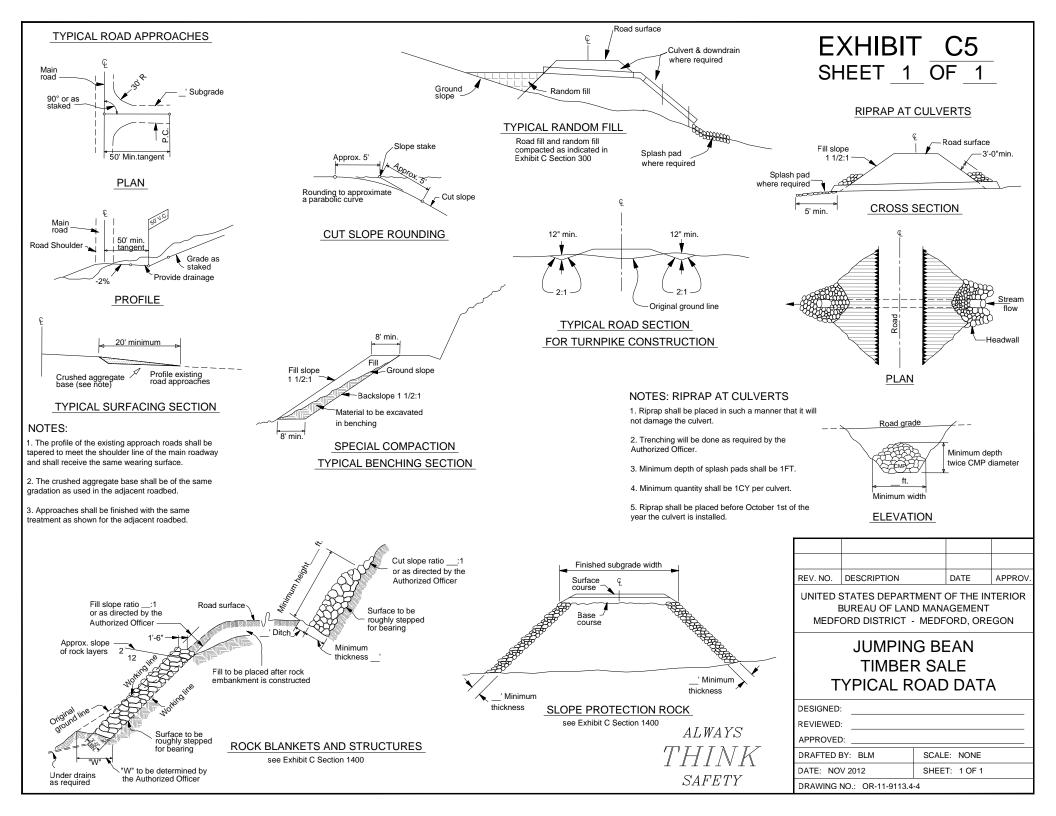
REV. NO.	DESCRIPTION	DATE	APPROV.

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

JUMPING BEAN TIMBER SALE SPECIFICATION SHEET

DESIGNED:		
REVIEWED:		
APPROVED:		
DRAFTED BY: BLM	SCALE: NONE	
DATE: JULY 2013	SHEET: 3 OF 4	
DRAWING NO : OR-11-0113 4-1		

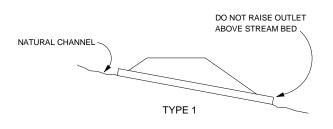


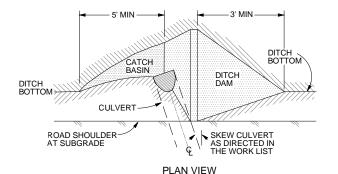


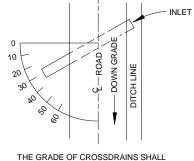
CULVERT INSTALLATION TYPES

CATCH BASIN

EXHIBIT C6 SHEET 1 OF 2





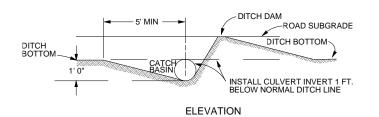


SKEW DIAGRAM

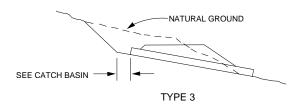
NATURAL GROUND

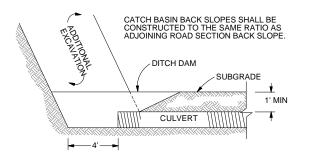
DOWNSPOUT
WITH ANCHORS
WHERE REQUIRED

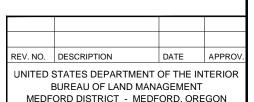
TYPE 2

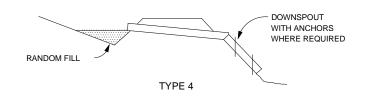


THE GRADE OF CROSSDRAINS SHALL BE AT LEAST 2% GREATER THAN THE GRADE OF THE DITCH.









CROSS SECTION AT CATCH BASIN

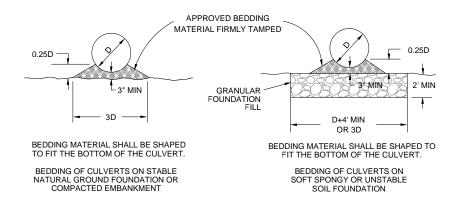
JUMPING BEAN TIMBER SALE CULVERT INSTALL DETAIL

ALWAYS		
THINK		
SAFETY		

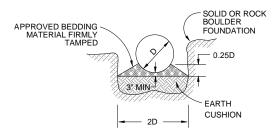
DESIGNED:		
REVIEWED:		
APPROVED:		
DRAFTED BY: CLS	SCALE: NONE	
DATE: APR 2013	SHEET: 1 OF 2	
DRAWING NO.: OR-11-9113.4-4		

EXHIBIT C6 SHEET 2 OF 2

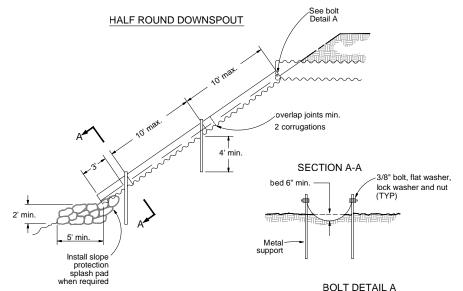
BEDDING OF CULVERTS



BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION



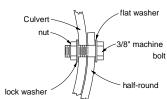
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAINTAIN 8" DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS AND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



NOTES:

- 1. The half round shall be one diameter size larger and of the same material and coating as the culvert it is attached to.
- 2. The half round shall be fabricated from 16 gauge metal with 2 2/3" x 1/2" corrugations.
- 3. Supports may be steel bar, angle iron, or approved equivalent metal posts.





Join pipe culvert to starter section as shown. Field drill 5/8" dia. thru starter section and culvert and install 3/8" x 2" bolts, flat washers, lock washers and nuts.

REV. NO.	DESCRIPTION	DATE	APPROV.

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

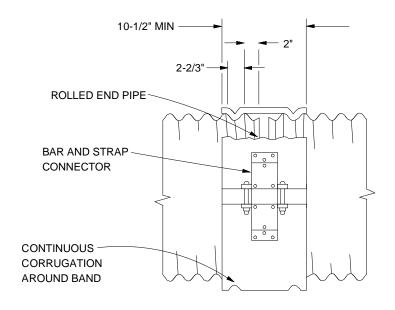
JUMPING BEAN TIMBER SALE **CULVERT INSTALL DETAIL**

	DESIGNED:	
VO	REVIEWED:	
YS	APPROVED:	
NK	DRAFTED BY: CLS	SCALE: NONE
. V .AL. AS.	DATE: APR 2013	SHEET: 2 OF 2
TTY	DRAWING NO.: OR-11-9113.4	-4

ALWATHLSAFE

EXHIBIT C7
SHEET 1 OF 1

CSP "HUGGER" COUPLER BANDS



STANDARD CONSTRUCTION IS A ONE PIECE BAND FOR 12" THRU 48" PIPES AND A TWO PIECE BAND FOR 54" PIPES AND ABOVE

THE HUGGER COUPLER BAND OR AN APPROVED EQUIVALENT COUPLER BAND SHALL BE MADE OF THE SAME MATERIAL AND FINISH AS THE PIPES JOINED. THE COUPLER BANDS SHALL BE A MINIMUM OF 10-1/2 INCHES WIDE AND BE 16 GUAGE OR HEAVIER. THE BAND SHALL BE DESIGNED TO BE DRAWN TOGETHER WITH A MINIMUM OF TWO (2) 1/2 INCH BOLTS THROUGH USE OF A BAR AND STRAP SUITABLY WELDED TO THE BAND. THE BAND SHALL ENGAGE AND MESH WITH THE SECOND ANNULER CORRUGATION INWARD FROM THE END OF EACH OF THE CONDUIT SECTIONS JOINED.

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



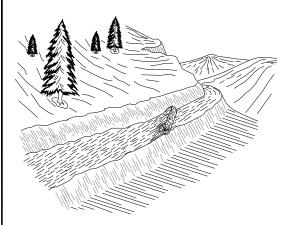
REV. NO.	DESCRIPTION	DATE	APPROV

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

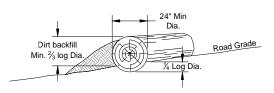
JUMPING BEAN TIMBER SALE CULVERT BAND DETAIL

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: ELF	SCALE: NONE
DATE: FEB 2013	SHEET: 1 OF 1

DRAWING NO.: OR-11-9113.4-4



LOG BARRICADE



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

BARRICADE LOCATION

M.P. / STA.

0.01

0.01

0.01 & 0.12

0.01

0.01

0.01

0.01

ROAD NUMBER

TEMP ROUTE 1

TEMP ROUTE 2

TEMP ROUTE 3

TEMP ROUTE 4

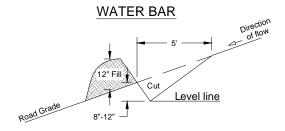
TEMP ROUTE 5

TEMP ROUTE 6

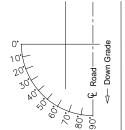
TEMP ROUTE 7

TEMP ROUTE 8

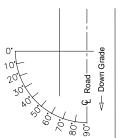




- 1. Water bars shall be constructed as shown above.
- 2. Exact location will be flagged by the Authorized Officer prior to construction.
- 3. All water bars shall be skewed 30 degrees.
- 4. Upon completion of skidding logs, for the logging season, each skid road will have cross drainage constructed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



SKEW DIAGRAM



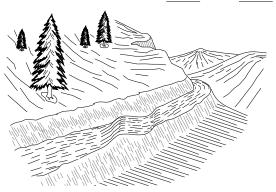
WATER DIP/BAR SPACING*

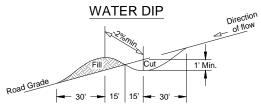
ROAD GRADE	LOAM OR CLAY LOAM	DECOMPOSED GRANITE
%	FEET	FEET
4-6	400	300
7-9	300**	200**
10-14	200	150
15-20	150	90
21-40	90	50
41-60	50	25

- * Distances are maximum.
- ** On grades in excess of 10%, construct water bars.

ALWAYS THINKSAFETY

EXHIBIT C8 SHEET 1 OF 1





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

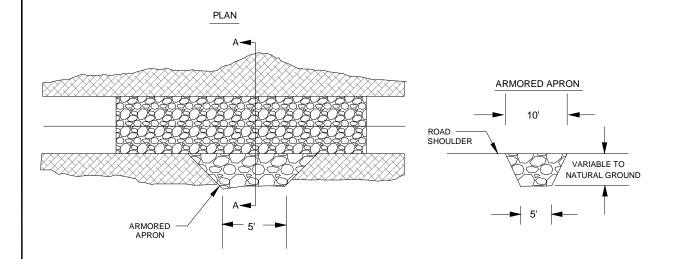
REV. NO. DESCRIPTION DATE APPROV				
REV. NO. DESCRIPTION DATE APPROV				
REV. NO. DESCRIPTION DATE APPROV				
	REV. NO.	DESCRIPTION	DATE	APPROV

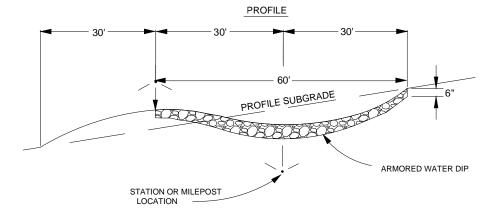
UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** MEDFORD DISTRICT - MEDFORD, OREGON

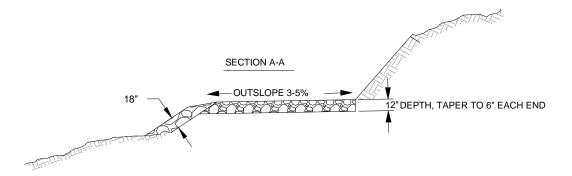
JUMPING BEAN TIMBER SALE **DRAINAGE & EROSION CONTROL DETAILS**

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: BLM	SCALE: NONE
DATE: JULY 2013	SHEET: 1 OF 1
DDAWING NO - OD 44 0442 4	4

EXHIBIT C9 SHEET 1 OF 1







NOTES

- 1) THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
- 2) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET.
- 3) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILLSLOPE SHOULDER IS 1.5 FEET.
- 4) SKEW DIP MINIMUM 15-30 DEGREES FROM PERPENDICULAR TO CENTERLINE.
- 5) EXCAVATED MATERIAL SHALL BE UTILIZED IN CONSTRUCTION OF WATER DIP. SIDECASTING IS NOT PERMITTED.
- 6) PIT RUN ROCK MATERIAL SHALL BE PLACED ON FILL SLOPE AND SUBGRADE OF ARMORED WATERDIP.
- 7) SEE ROAD RENOVATION WORKLIST FOR WATER DIPS TO BE ARMORED.
- 8) EACH DIP SHALL BE REINFORCED WITH 40 CUBIC YARDS OF 3" MINUS ROCK, ON ROADWAY AND PIT RUN AT OUTFALL.

LEGEND



CUT/FILL SLOPES



SUBGRADE ARMOR MATERIAL

(3" minus)



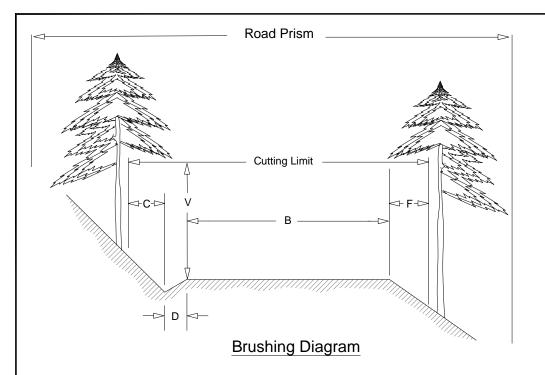
FILL SLOPE ARMOR MATERIAL 12" MINUS OR OTHER APPROVED MATERIAL.

REV. NO.	DESCRIPTION	DATE	APPROV

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

JUMPING BEAN TIMBER SALE ARMORED WATER DIP

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: CMW	SCALE: NONE
DATE: FEB 2013	SHEET: 1 OF 1
DRAWING NO.: OR-11-9113.4	-1



SHEET 1 OF 1

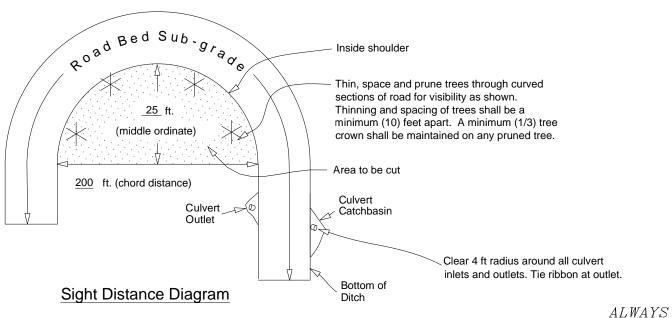
Cutting Limit = C + D + B + F

- B = Road Bed Subgrade (includes turnouts)
 Cut all vegetation to max. height of 1".
- C = 4 ft Distance to be brushed on cut slope beyond centerline of ditch. Cut all vegetation to max height of 6".
- D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".
- F = Distance to be brushed on fill slope beyond outside shoulder Cut all vegetation to max. height of 6".

THINK SAFETY

V = 14 ft - Height of vertical cutting limit





REV. NO.	DESCRIPTION	DATE	APPROV.

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

JUMPING BEAN TIMBER SALE ROADSIDE BRUSHING DETAIL

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: CMW	SCALE: NONE
DATE: FEB 2013	SHEET: 1 OF 1
DRAWING NO.: OR-11-9113.4-4	

All distances shown are horizontal except for V

JUMPING BEAN TIMBER SALE

Road Renovation Work List

0.80

Existing 18" CMP

ABC = Aggregate Base Course	ASC = Aggregate Surface Course	BST = Bituminous
CY = Cubic Yard	CMP = Corrugated Metal Pipe	GRR = Grid Rolled Rock

NAT = Natural Road Surface PRR= Pit Run Rock

This work list consists of work to be performed to the road prior to its use. All work shall comply with the contract specifications and drawings.

34-5-29 (A-B) Horse Creek ASC

	ASC
0.00	Jct. with 34-5-32. Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.04	Existing 18" CMP
0.08	Existing 18" CMP
0.18	Existing 18" CMP
0.23	Existing 18" CMP
0.24	End Segment A Property Line
0.29	Existing 18" CMP
0.35	Existing 18" CMP
0.39	Existing 18" CMP
0.49	Existing 18" CMP
0.53	Existing 18" CMP
0.64	Existing 18" CMP Begin Unit 29-11
0.73	Existing 18" CMP
0.78	Unit 29-11

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0.88	End Unit 29-11
0.94	Existing 18" CMP
1.03	Existing 18" CMP
1.09	Existing 18" CMP
1.10	Existing 16" CMP in ditch line for driveway
1.17	End Segment B Property Line
1.18	Existing 18" CMP
1.26	Begin Unit 20-13
1.29	Existing 18" CMP
1.36	Existing 18" CMP
1.37	End Road Renovation at Unit 20-13 boundary

34-5-32 Jack Creek BST

Junction with county road Jump Off Joe Road. **BLM maintenance**. Existing 20' bituminous surface with ditch. Junction 34-5-29 to left. End bituminous surface begin 14' aggregate surface. **End BLM maintenance**.

35-5-3.2 Orofino Gulch ASC

0.00	Begin road renovation which includes brushing; blading, watering, rolling and reshaping road surface; cleaning ditch lines; and
	cleaning all culvert inlets and outlets.
0.04	Spur Road Left

0.09 Existing 18" CMP 0.15 Existing 18" CMP 0.28 Existing 18" CMP

0.34	Existing 18" CMP
0.40	Existing 18" CMP
0.47	Existing 18" CMP
0.49	End road renovation. Junction road 35-5-3.2 left, Junction road 35-5-3.3 right

0.00

35-5-3.3 Orofino Gulch SP ASC/NAT

0.00	Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; cleaning all culvert inlets and outlets, constructing water dips and reconstructing existing water dip.
0.06	Existing 18" CMP
0.21	Existing 18" CMP repair inlet.
0.26	Existing 18" CMP
0.32	Existing 18" CMP
0.44	Existing 18" CMP
0.52	Existing saddle. End aggregate surface. Begin natural surface. Jct. Temp Route 1 to right, Begin Unit 9-2 on left
0.54	Begin Unit 9-16 on right
0.59	Construct Water Dip with armor, place 40 cy.
0.66	Existing Water Dip, reconstruct after harvest,
0.86	Construct Water Dip with armor, place 40 cy.
0.90	End Unit 9-16
0.92	End road renovation at end of Unit 9-2

35-5-4 (B-F) Orofino ASC

Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch

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	lines; installation of ½ culvert, and cleaning all culvert inlets and outlets. Segment A is not being used, has been
	obliterated
0.07	Existing 18" CMP
0.15	Existing 18" CMP
0.17	Existing 18" CMP, with ½ round. End segment B
0.24	Existing 18" CMP
0.29	End segment C
0.30	Existing 24" CMP, with ½ round.
0.32	Existing 18" CMP
0.41	Existing 18" CMP
0.50	Existing 18" CMP
0.54	Existing 18" CMP
0.56	End segment D
0.66	Existing 18" CMP
0.74	Existing 18" CMP
0.82	Existing 36" CMP with ½ round
0.86	Existing 18" CMP
0.92	Existing 18" CMP
0.99	Existing 18" CMP
1.04	End segment E
1.08	Existing 18" CMP
1.15	Existing 18" CMP
1.21	Existing 18" CMP, with ½ round
1.27	Existing 18" CMP
1.32	Existing 24" CMP, with ½ round
1.40	Existing 18" CMP
1.48	Spur road to right.
1.50	Existing 18" CMP, remove and dispose of 3 foot of CMP on outlet. Install 10' of ½ round downspout with
	anchors.
1.62	Existing 18" CMP
1.79	Jct. road 35-5-3.2 to right and road 35-5-4 to left. End road renovation.

35-5-4.1 Orofino Gulch SP ASC

0.00	Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch
	lines; and cleaning all culvert inlets and outlets. Junction road 35-4-9.1 to left.
0.09	Begin Unit 9-15
0.13	Existing 18" CMP, End Unit 9-15, driveway to right
0.22	Begin Unit 9-15
0.23	Existing 18" CMP
0.25	End Unit 9-15
0.28	Begin Unit 9-15
0.30	Existing 18" CMP
0.31	End road renovation at Unit 9-15 boundary
	35-5-4.3
	NAT
	NOTE: Notify Gas Company Prior to any Heavy Equipment Work. Avista 1-541-912-0184 Tim Blume
0.00	Let with Winene Deed and drivey year Deein meed reproved in which includes howshing, bloding, westering realling and
0.00	Jct. with Winona Road and driveway. Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface, and reconstructing water bars.
0.01	Existing ditch, reconstruct after harvest.
0.02	Existing water bar, reconstruct after harvest.
0.10	Existing water bar, reconstruct after harvest.
0.15	Existing water bar, reconstruct after harvest.
0.17	Spur left
0.25	Powerlines overhead. Protect Brass Cap to right, unable to locate on the ground.
0.27	Avista Natural Gas line, contact Tim Blume 541-912-0184 before beginning work. Place approximately 35 CY of
0.27	Tribultiment out me, contact the braine out 712 viol before beginning work. There approximately 55 CT of

0.29	on-site borrow material to cover gas line. Place material 10' each side of gas main with 2 additional feet of cover for entire road width to protect the gas line, see Exhibit C14 for details. Begin borrow material
0.20	End road renovation.
	35-5-4.4
	ASC
0.00	Junction Winona Road. Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface.
0.01	Junction road 35-5-4.3 to left. Reconstruct ditch entrance after harvest.
0.19	End road renovation at Unit 4-4 boundary
	35-5-6.1 (A-B)
	NAT
0.00	Jct. 35-5-8.1 Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.05	Existing 18" CMP Begin scarification
0.25	Property Line End Segment A install 18" CMP approximately 30'
0.37	End scarification
0.79	Begin Unit 1-2
1.00	End road renovation at Unit 1-2 boundary
	35-5-6.2 NAT
0.00	Jct. 35-5-8.1 Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface;

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	cleaning ditch lines; cleaning all culvert inlets and outlets, reconstructing water bars and water dips.
0.05	Existing water bar, reconstruct after harvest
0.09	Existing water bar, reconstruct after harvest
0.12	Existing 36" CMP
0.16	Existing water bar, reconstruct after harvest
0.27	Existing water dip, reconstruct after harvest
0.31	End road renovation at Unit 31-1B boundary, Begin Temp Route 7.
	35-5-8.1 (A- J)
	Walker Mtn SP
	NAT
0.00	Junction road 35-5-9 to left. Begin roadside brushing and blading. Begin Segment A
0.03	Existing BLM gate.
0.06	Existing 18" CMP, place 10cy pit-run material at outlet and install 10'x 18" of ½ round downspout.
0.21	Existing water dip reconstruct after harvest
0.24	Remove and replace existing 18" CMP with 24"x36' CMP
0.28	Existing 18" CMP, construct splash pad at outlet (2 cys)
0.29	Spur road right construct armored water dip (40 cys)
0.30	Property Line begin segment B
0.36	Install 18" CMP x 40' +/- with riprap splash pad (2 cys)
0.42	Existing 24" CMP
0.51	Existing water dip, reconstruct after harvest
0.58	Existing 24" CMP
0.78	Existing 24" CMP
0.84	Existing 18" CMP. cutbank failure, remove and dispose of 50cy material.
	Construct Water Dip with armor, place 80 cy.
0.91	Install 18"x32' CMP.

Existing 18" CMP
Install 18"x30' CMP construct splash pad (2cys)

0.95 1.03

1.07	Existing 18" CMP
1.14	Jeep trail on left.
1.15	Existing 18" CMP
1.16	Junction spur road to right.
1.21	Existing 18" CMP
1.24	Construct Water Dip with armor, place 40 cy.
1.28	Existing 18" CMP, remove and replace with 18" x 40' lower outlet add 10' ½ round down spout.
1.32	Existing 18" CMP
1.41	Existing 18" CMP, replace with 24" x 40' CMP
1.50	Construct Water Dip with armor, place 40 cy.
1.57	Install 18"x34' CMP
1.58	Begin Segment C
1.64	Remove and replace existing 18" CMP with 18"x34' CMP
1.69	Existing 36" CMP
1.73	Junction road to left.
1.74	Begin blading 3'x1' ditch.
1.77	Begin Segment D
1.84	Existing 18" CMP, repair inlet
1.89	Construct Water Dip with armor, place 40 cy.
1.94	Existing 24" CMP
2.00	Remove and replace CMP with 24" x 60' CMP (turn out right)
2.12	Existing 18" CMP remove and replace with 24' x 60' with splash pad, repair road washout at outlet
2.14	Construct Water Dip with armor, place 40 cy.
2.21	Existing 18" CMP
2.25	Remove slide material (5 cys)
2.30	Construct Water Dip with armor, place 40 cy.
2.32	Existing 18" CMP
2.38	Junction road to right. Jeep road
2.41	Existing 18" CMP.
2.53	Existing 18" CMP
2.63	Existing 24" CMP

2.68	Remove existing 18" CMP, Construct Water Dip with armor, place 40 cy.
2.79	Remove existing 18" CMP, Construct Water Dip with armor, place 40 cy.
2.81	Junction road to left.
2.85	Existing 18" CMP with downspout.
2.93	Construct Water Dip with armor, place 40 cy.
3.01	Existing 18" CMP
3.04	Existing 18" CMP
3.05	Existing 24" CMP
3.08	Existing 18" CMP
3.11	Begin Segment E
3.17	Fill slope failure 35'x4'x8' approximately 60 cys of borrow material needed to repair fill slope.
3.18	Junction road 35-5-6.2 to left
3.19	Existing 30" CMP
3.21	Install 18"x34' CMP
3.26	Construct Water Dip with armor, place 40 cy.
3.31	Junction road to right. Remove and dispose of culvert debris pieces from the left. Begin Segment F
3.32	Construct Water Dip with armor place 40 cy
3.37	Construct Water Dip with armor, place 40 cy.
3.40	Disposal site right old spur
3.46	Construct Water Dip with armor, place 40 cy.
3.51	Existing 18" CMP
3.54	Existing 30" CMP
3.55	Construct Water Dip with armor, place 40 cy.
3.59	Begin Segment G
3.69	Construct Water Dip with armor, place 40 cy.
3.87	Existing 18" CMP
3.92	Remove and replace existing 18" CMP with 24"x40' CMP.
3.96	Existing 18" CMP
4.00	Existing 18" CMP Begin Segment H
4.05	Junction road to left. To Indian Hills Begin Segment I
4.12	Unit Boundary 31-1A Begin Segment J

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4.21 End of road renovation, Unit Boundary

35-5-9 (A) Walker Mtn NAT

0.00	Junction Winona Road. Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.14	Existing 24" CMP
0.18	Existing 24" CMP
0.23	Jeep road to left.
0.25	Existing 18" CMP
0.31	Existing 18" CMP
0.42	Existing 18" CMP
0.49	Install 18" x 36' CMP. Spur road to left.
0.53	Remove and replace existing 18" CMP with 24" x 40' CMP
0.61	End road renovation. Junction road 35-5-8.1 to right.

35-5-9.1 Orofino Gulch ABC

0.00	Junction Winona Road. Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.04	Junction road 35-5-4.1 to right.
0.08	Spur road to right
0.09	Existing 24" CMP
0.12	Existing 18" CMP
0.20	Existing 18" CMP

0.32	Spur road to right.
0.37	Existing 18" CMP
0.43	Existing 18" CMP
0.58	Existing 18" CMP, with ½ round
0.61	End road renovation at jct. of 35-5-4 road End Unit 4-3 at MP 0.32 Segment B.

0.00

35-5-9.2 (A-B) Cove Creek BST

0.00	Junction Winona Road. Begin road renovation which includes brushing; cleaning ditch lines; and cleaning all culvert inlets and outlets. Existing chipseal, protect buried phone and electric lines.
0.02	Junction road 35-5-9.4 to right.
0.07	Cable Gate Private
0.08	Existing 18" CMP
0.18	Existing 18" CMP
0.25	Existing 18" CMP
0.40	Remove and dispose 18" culvert debris pieces from the left side of the road.
0.46	Existing 18" CMP
0.47	End Segment A
0.51	Existing 60" CMP temp spur to left into unit 9-14
0.69	Existing 18" CMP
0.71	Existing 36" CMP, Unit Boundary 9-14. End road renovation.

35-5-15 Morris Creek Spur 1 PRR

Jct. with 35-5-21.1. Begin road renovation which includes brushing; blading; watering, rolling and reshaping road

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0.22 0.36 0.41 0.55	surface; cleaning ditch lines; and cleaning all culvert inlets and outlets. Existing 18" CMP ³ / ₄ plugged Existing 18" CMP Begin Unit 15-13 End road renovation at Unit 15-13 boundary.
	35-5-15.1 Queen Louse PRR
0.00	Jct. 35-5-26.1 Begin Unit 15-15A Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.05	Existing 18" CMP
0.13	Existing 18" CMP
0.24	Existing 18" CMP
0.25	End road renovation at Unit 15-15A boundary.
	35-5-15.2 Upper Louse Ck SP PRR
0.00	Jct. 35-5-26.1 Begin Unit 15-15B Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines.
0.14	End road renovation at Unit 15-15B boundary

35-5-20 (A-B) Phantom Walker NAT

0.00	Jct. with Granite Hill Road at MP 3. Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.02	Existing BLM gate.
0.37	Begin Unit 20-2
0.46	End Unit 20-2
0.50	Junction road 35-5-20.1 to right
0.51	End Segment A
0.64	Existing 18" CMP
0.99	Junction road 35-5-20.2 to left.
1.01	Begin Segment B
1.34	Begin Unit 20-2
1.40	Tree Cross road
1.43	End road renovation at Unit 20-2 boundary

35-5-20.1 Phantom Walker SP NAT

0.00	Jct. road 35-5-20 to left. Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; cleaning all culvert inlets and outlets, and placement of pit run material.
0.08	Existing 18" CMP
0.12	Begin PRR placement (6" depth x 14' width, approximately 100 cys).
0.14	Existing 18" CMP
0.18	End PRR placement.
0.32	Begin Unit 21-13
0.56	End. Unit 21-13

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0.70	Existing 36" CMP
0.70	Begin Unit 21S-2
0.79	Existing 18" CMP
0.85	End road renovation at Unit 21S-2 boundary

35-5-21 (A) Granite Hill Road BST

0.00	End Josephine County maintenance. Begin BLM maintenance
0.13	Existing 24" CMP
0.33	Existing 18" CMP
0.45	Existing 24" CMP
0.58	Existint18" CMP
0.76	Gravel pit left
0.76	Existing 18" CMP
0.87	Existing 18" CMP
0.91	Spur left
1.02	Existing 18" CMP half round
1.11	Dip
1.17	Existing 18" CMP
1.29	Existing 18" CMP
1.33	Spur driveway left
1.33	Existing 18" CMP
1.35	Existing 18" CMP
1.47	Crack in road
1.56	Existing 18" CMP
1.63	Existing 8'X6' pipe arch
1 67	Ict w/ 35-5-26 End RLM maintenance

35-5-21.1 (A-C) Morris Creek ML PRR

0.00	Jct. Winona Existing 17' Pit run surface with ditch. Begin road renovation which includes brushing; blading; watering,
	rolling and reshaping road surface; cleaning ditch lines; cleaning all culvert inlets and outlets; and placing spot rock.
0.01	Existing 5x12 concrete box culvert.
0.06	Existing 5x9 concrete box culvert.
0.07	Existing steel pipe gate.
0.13	Existing 18"CMP.
0.18	Existing 24"CMP.
0.25	Existing 18"CMP.
0.32	Existing 18"CMP.
0.36	Existing 28"CMP.
0.37	Existing 24"CMP.
0.38	Junction right 35-5-21.2.
0.48	Existing 18"CMP.
0.50	Begin Spot rocking, approximately 40 cys.
0.52	End Spot rocking
0.57	Existing 18"CMP.
0.60	Existing 18"CMP.
0.61	Junction left 35-5-22.
0.71	Existing 30" CMP
0.86	Existing 18" CMP
0.94	Existing 18" CMP
1.00	Gate #213
1.02	Existing 18" CMP
1.08	Existing 18" CMP
1.10	End Segment A 1.10
1.12	Existing 18" CMP
1.17	Existing 18" CMP

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1.26	Existing 18" CMP	
1.29	Existing 24" CMP	
1.33	Existing 18" CMP	
1.50	Existing 18" CMP 95% plugged	
1.69	End Segment B, Property Line	
1.70	Jct. 35-5-15 to left	
1.82	Existing 18" CMP	
1.98	Existing 18" CMP	
2.09	Begin Unit 15-13	
2.10	Existing 18" CMP	
2.17	End road renovation at Unit 15-13 boundary	0.48 of Segment C is being used

35-5-21.2 Morris Creek A GRR

0.00	Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; cleaning all culvert inlets and outlets; repair culvert inlet, install culvert, place rip rap, construct water dips, place approximately 30 cys of fill material, and remove and replace earth berm.
0.04	Existing 18"CMP. Repair inlet.
0.22	Existing 18" CMP
0.30	Begin Unit 21-15
0.35	End Unit 21-15
0.42	Begin Unit 21-15
0.49	Install 18"x34' CMP with 5 cy class 3 rip rap for splash pad.
0.53	Construct Water Dip with armor, approximately 40 cys.
0.54	End Unit 21-15
0.59	Existing 18"CMP.
0.60	Existing 24"CMP. Place approximately 30 cys. of material at outlet 75% plugged and road wash
0.63	Existing earth berm barricade. Remove and reconstruct after harvest

0.65 0.68 0.74	Existing 18"CMP. Begin Unit 21-15 Construct Water Dip with armor, approximately 40 cys. End road renovation at Unit 21-15 boundary
	35-5-22 Morris Creek B GRR
0.00	Jct. Rd 35-5-21.1 Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.01	Existing 18"CMP
0.05	Existing 18"CMP
0.15	Existing 18" CMP
0.17	Existing 24" CMP
0.23	Junction of 35-5-22 and left Junction 35-5-22.1 Begin Unit 21-11
0.30	End Unit 21-11
0.36	Existing 18" CMP
0.45	Existing 36" CMP
0.57	Begin Unit 21-10
0.65	End road renovation at Unit 21-10 boundary
	35-5-22.1
	Morris Creek C
	NAT
0.00	Jct. with Rd 35-5-22 @MP 0.23 Begin Unit 21-11 Heavy Brush Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; placing pit run material, construct water bar, and cleaning all culvert inlets and outlets.
0.01	Place 30 cubic yards pit run material

0.04	Construct Water Bar
0.09	End road renovation at Unit 21-11 boundary
	35-5-23.1(A) N Fork Louse CK SP ASC
0.00	Jct. 35-5-26.1 @ MP 1.79 Heavy Brush Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.02	Existing 18" CMP
0.07	Begin Unit 23-4
0.09	End road renovation at Unit 23-4 boundary
	35-5-25.5 Old Baldy Rd Spur GRR
0.00	Jct. with 35-5-35 at MP 1.56. Heavy Brush Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface.
0.26	Begin Unit 25-17
0.35	End road renovation at Unit 25-17 boundary
35-5-26 (A) Louse Mtn ASC	

Jct. of 35-5-21 Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.

0.00

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0.04	Existing 6 ½' Arch Pipe
0.10	Junction Road 35-5-26.2 to right
0.19	Existing 18" CMP
0.23	Junction Road 35-5-26.7 to left
0.31	Existing 24" CMP
0.38	Existing 18" CMP
0.46	Existing 18" CMP
0.51	Junction Road 35-5-35.1 to left.
0.56	Existing 18" CMP
0.65	Existing 18" CMP
0.82	Existing 18" CMP
0.95	Existing 18" CMP
1.07	Junction Road 35-5-35 to left. End road renovation.

35-5-26.1 (A-B) N Fork Louse Ck A-ASC B- PRR

0.00	Jct. 35-5-21 Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface;
	cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.27	Existing 18" CMP
0.36	Existing 18" CMP
0.43	Existing 18" CMP
0.51	Existing 18" CMP
0.67	Existing 5'X7' Plate arch
0.73	Existing 18" CMP
0.80	Existing 18" CMP
0.87	Existing 18" CMP
0.95	Existing 18" CMP
0.99	Existing 18" CMP

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1.05	Existing 18" CMP
1.10	Existing 18" CMP
1.17	Existing 18" CMP
1.25	Existing 36" CMP
1.29	Existing 18" CMP
1.34	Jct. 35-5-23 to left
1.40	Existing 18" CMP
1.44	Existing 18" CMP
1.64	Existing 18" CMP
1.70	End Segment A
1.73	Jct. w/ 35-5-23.1 right
1.74	Existing 18" CMP
1.79	Begin Unit 23-4
1.83	End Unit 23-4
1.87	Existing 18" CMP
1.93	Existing 18" CMP
1.98	Existing 18" CMP
2.07	Existing 18" CMP
2.11	driveway to left
2.24	Existing 18" CMP
2.32	Existing 18" CMP
2.38	Existing 18" CMP
2.44	Spur left
2.51	Spur left & right
2.51	Existing 18" CMP
2.71	Existing 18" CMP
2.92	Jc.t 35-5-15.1 to left
2.92	Begin Unit 15-15A
3.01	Existing 18" CMP
3.05	End Unit 15-15A
3.07	Jct 35-5-15.2 to right

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3.11 3.18 3.23 3.29 3.38	Existing 18" CMP Existing 18" CMP Begin Unit 15-15A Existing 18" CMP End road renovation at Unit 15-15A. Begin Temp Route 8
	35-5-26.2 (A-B) Jones Creek A-ABC B- PRR
0.00	Begin road renovation which includes brushing; blading; watering, rolling and reshaping road surface; cleaning ditch lines; replace ½ round anchors, and cleaning all culvert inlets and outlets.
1.61	Jct. road 35-5-27 to left
1.01	Jet. road 35-5-33.1 to right.
2.07	End Segment A
2.08	Existing 18" CMP
2.15	Natural gas pipeline, protect.
	Junction road 35-5-33.4 to left
2.20	Power line
2.21	Existing 18" CMP
2.25	Begin Unit 33-10
2.31	Existing 18" CMP, with ½ round
2.38	End Unit 33-10
2.39	Existing 18" CMP, with ½ round. Replace stakes to secure ½ round.
2.50	Existing 18" CMP, with ½ round
2.57	Begin Unit 33-10
2.66	End Unit 33-10
2.68	Existing 18" CMP
2.78	Begin Unit 33-10A
2.88	Spur to left

2.90 End road renovation at Unit 33-10A boundary

35-5-35 (A-B) Old Baldy Road ASC

0.00	Jct. with 35-5-26 to right. Begin road renovation which includes brushing; blading; watering, rolling and reshaping
	road surface; cleaning ditch lines; and cleaning all culvert inlets and outlets.
0.06	Jct. with 35-5-35.2 to right Indian Hills Gated
0.07	Existing 48" CMP
0.08	End Segment A
0.21	Existing 30" CMP
0.28	Existing 18" CMP
0.33	Existing 18" CMP
0.43	Existing 16" CMP jack open inlet
0.54	Existing 18" CMP
0.62	Existing 18" CMP
0.70	Existing 18" CMP
0.80	Existing 18" CMP
0.91	Existing 18" CMP
1.00	Existing 18" CMP
1.08	Existing 18" CMP
1.16	Jct. 35-5-25 to left
1.20	Jct. 35-5-25.4 to right with existing 18" cross CMP
1.30	Existing 18" CMP
1.42	Existing 18" CMP
1.56	Jct. 35-5-25.5 to right End road renovation.

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Temp Route 1 Unit 15-15B

0.00 0.01 0.09	Begin with jct. 35-5-26.1 Begin construction of Temp Route light clearing and grubbing, stumps, 25-35% side slopes 2-8% side slope. Decommission, water bar, seed and mulch, and barricade after use. Construct Barrier End construction of Temp Route in Unit 15-15B
	Temp Route 2 Unit 9-16
0.00	Begin with jct. 35-5-3.3 Begin construction of Temp Route through an old clear cut unit, medium clearing and grubbing, stumps, 25-35% side slopes. Decommission, water bar, seed and mulch, and barricade after use.
0.01	Construct Barrier
0.11 0.23	Edge of timber End construction of Temp Route in Unit 9-16.
0.2 0	Temp Route 3 Unit 9-14
0.00	Begin with jct. 35-5-9.2. Begin Temp Route on an existing roadbed. Decommission, water bar, pull bank of stream channel, seed and mulch, and barricade after use.
0.01	Construct Barrier
0.06	spur to right, in addition to the standard temporary route decommissioning, work will include reconnection of the stream channel crossing, by pulling the banks of the stream channel back 2 to 1 from bankfull, and armoring channel.
0.09	Existing water bar, reconstruct after harvest
0.10	Existing water bar, reconstruct after harvest
0.11	End Unit 9-14 boundary, Construct Barrier

Temp Route 4 Unit 1-2

	Unit 1-2
0.00	Begin with jct. 35-5-6.1B Begin construction of Temp Route medium clearing and grubbing, stumps, 35-40% side slopes. Decommission, water bar, seed and mulch, and barricade after use.
0.01	Construct Barrier
0.07	End construction of Temp Route in Unit 1-2.
	Temp Route 5 Unit 1-2
0.00	Begin with jct. 35-5-6.1B Begin construction of Temp Route medium clearing and grubbing, stumps, 35-50% side slopes. Decommission, seed and mulch, and barricade after use.
0.01	Construct Barrier
0.06	End construction of Temp Route in Unit 1-2.
	Temp Route 6 Unit 1-2
0.00	Begin with jct. 35-5-6.1B Begin construction of Temp Route medium clearing and grubbing, stumps, 35-40% side slopes. Decommission, seed and mulch, and barricade after use.
0.01	Construct Barrier
0.06	End construction of Temp Route in Unit 1-2.
	Temp Route 7 Unit 31-1B

Begin with jct. 35-5-6.2 Begin construction of Temp Route medium clearing and grubbing, stumps, ridge top,

0.00

	decommission after harvest. Decommission, seed and mulch, and barricade after use.
0.01	Construct Barrier
0.22	End construction of Temp Route in Unit 31-1B.

Temp Route 8 Unit 25-17

0.00	Begin with jct. 35-5-25.5 Begin construction of Temp Route medium clearing and grubbing, stumps, 35% side slopes.
	Decommission, water bar, seed and mulch, and barricade after use.
0.01	Construct Barrier
0.03	End construction of Temp Route in Unit 25-17.

All temporary routes would be blocked and decommissioned with-in 18 months of harvest, after landing and hand pile burning is complete. Decommissioning would include sub-soiling of the entire roadbed to a depth of 18 inches or bedrock, installing water bars as necessary to ensure surfacing drainage, and seeding and mulching of all bare soil.

Fill material used in the construction of temporary route beds will be pulled back, properly placed, and stabilized on a sub-soiled running surface for re-establishment of the original ground line.

WRITTEN SPECIFICATIONS GENERAL – 100

101 - Prework Conference(s):

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

The purpose 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.

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Pioneer Road - 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.

Road Renovation - 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.

Specifications - A general term applied to all directions, provisions, and requirements

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pertaining to performance of the work.

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

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

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

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

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

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

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

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

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

<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.

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102a - Tests Used in	n These Specifications:
AASHTO T 11	Quantity of rock finer than No. 200 sieve.
AASHTO T 27	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
AASHTO T 89	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
AASHTO T 90	Plastic limits and plasticity index of soil. a. Plastic limit - lowest water content at which the soil remains plastic. b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
AASHTO T 96	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
AASHTO T 99	Relationship between soil moisture and maximum density of soil. Method A - 4" mold, soil passing a No. 4 Sieve. 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 19.00mm (3/4 inches) sieve. 56 blows/layer & 5 layers.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
<u>AASHTO T 180</u>	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop.
<u>AASHTO T 191</u>	<u>Sand Cone.</u> Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
<u>AASHTO T 205</u>	<u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil.
AASHTO T 210	Durability of aggregates based on resistance to produce fines.
AASHTO T 224	Correction for coarse particles in the soil.
AASHTO T 310	Determination of density of soil and soil-aggregates in place by

nuclear methods.

Reducing field samples of aggregate to testing size by mechanical

AASHTO T 248

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splitter, quartering, or miniature stockpile sampling.

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

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

- 103 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 gangtype compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.
- 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.
- Where clearing limits have not been posted, 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 structures have not been staked, the limits shall extend 10 feet out from the outside edge of the structure.
- 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 202a, 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 204c and 204e. Undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excluded.
- On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 204e Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections. Such debris will, however, be permitted to remain under waste material from full-bench construction on steep side slopes.

Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210 and at the following road locations:

Road No.	From M.P.	То М.Р.
Temp Route #1	0.00	0.09
Temp Route #2	0.00	0.23
Temp Route #3	0.00	0.11
Temp Route #4	0.00	0.07
Temp Route #5	0.00	0.06
Temp Route #6	0.00	0.06
Temp Route #7	0.00	0.22
Temp Route #8	0.00	0.03
Total	3.00	0.87

- Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 210a Disposal of clearing and grubbing debris on non-government property by scattering and/or piling 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.
- 212 No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, leveling, ditching, grading, out-sloping, 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 typical cross sections shown on the plans.
- Excavation shall also consist of the excavation of temporary route and landing cut sections, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the temporary routes in accordance with these specifications and conforming to the typical cross sections shown on the plans.
- 303 Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- Embankment construction shall consist of the placement of excavated materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the temporary routes and landings in accordance with these specifications and conforming to the typical cross sections shown on the plans.
- 305a Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 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. Temporary route embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.
- Minimum compaction for each layer of embankment and selected temporary route excavation material placed at optimum moisture shall be 6 passes over each full-width layer or fraction thereof.
- 306g All fill slopes shall be compacted to 85% of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- The top of cut slopes shall be rounded by blending into the adjacent terrain for a distance not less than 1 foot and not more than 3 feet beyond the top of the cut. Rounding shall be performed in soils that can be shaped without ripping or blasting.

- When heavy clays, muck, clay shale, or other deleterious material for forming the temporary route 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 excavated 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 306g. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 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 end dumped and disposed of as directed by 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 not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.

PIPE CULVERTS - 400

- This work shall consist of furnishing and installing pipe culverts and half round downspouts 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.
- 402 The pipe culverts shall be installed on the following roads and location locations:

Road No.	M.P.
35-5-4	1.50
35-5-6.1 (A-B)	0.25
35-5-8.1	0.06, 0.24, 0.36, 0.91, 1.03, 1.28, 1.57, 1.64, 2.00, 2.12, 3.21, & 3.92
35-5-9A	0.49, & 0.53
35-5-21.2	0.49

- Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade, except grades shall not exceed 10 percent. 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.
- 405a Corrugated aluminized steel-welded pipe culverts shall conform to the requirements of AASHTO M 274.
- 406a "Hugger"-type coupling bands shall only be used with annular corrugated pipe culverts, or helically corrugated pipe culverts having annular reformed ends.

 Annular reformed ends shall consist of 2 annular corrugations.

406d - Pipe culverts at the following locations:

Road No.	M.P.
35-5-6.1 (A-B)	0.25
35-5-8.1(A-J)	0.24, 0.36, 0.91, 1.03, 1.28, 1.57, 1.64, 2.00, 2.12, 3.21, & 3.92
35-5-9 (A)	0.49, & 0.53
35-5-21.2	0.49

shall be connected with "Hugger"-type coupling bands as shown on the plans.

407a - Half round downspouts conforming to the material and construction requirements shown on Exhibit C's shall be constructed for culverts as shown on the plans at the following locations:

Road No.	M.P.
35-5-4	1.50
35-5-8.1(A-J)	0.06, & 1.28

- 408 Pipe culverts and shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- 410 Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411 Trenches necessary for the installation of pipe culverts shall conform to the 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.

413 - Pipe culverts shall be bedded on a fine readily compactable soil material having a depth of not less than 10 percent of the diameter or height of the drainage structure concerned or a minimum depth of:

Pipe Corrugation Depth	Minimum Bedding Depth
1/2 inch	1 inch
1 inch	2 inches
2 inches	3 inches

Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.

- The invert grade of the bedding shall be cambered in accordance with the requirements and details shown on the plans and as directed by the Authorized Officer.
- 416 Side-fill material for pipe culverts shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel, and to 1 foot over the pipe with fine, readily compactable soil 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.
- 418 Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- The pipe culverts after being bedded and backfilled as required by these specifications shall be protected by a 2-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.
- 423 Construction of catch basins conforming to lines, grades, dimensions and typical

diagrams shown on Exhibit C6, included in the plans, shall be required for culverts at the following locations:

Road No.	M.P.
35-5-6.1(A-B)	0.25
35-5-8.1(A-J)	0.36, 0.91, 1.03, 1.57, & 3.21
35-5-9(A)	0.49
35-5-21.2	0.49

- 427 The Purchaser shall record culvert sizes, lengths and location actually installed, where they vary from the plans, on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.
- The Purchaser shall be responsible for removal and disposal of the old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the project site prior to acceptance of road construction for each road renovation.
- Dewatering: Keep excavation site dewatered so that installation of culverts are completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site and in a manner that will avoid damage to adjacent property. Provide for downstream 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 OF EXISTING ROADS - 500

- This work shall consist of reconditioning and preparing the roadbed and shoulders, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications and as marked on the ground with stakes.
- The existing road surface shall be scarified to its full width and to a depth of 6 inches to eliminate surface irregularities, bladed, shaped, watered, and rolled to the lines, grades, dimensions, and typical cross sections shown on the plans at the following location(s):

Road No.	From M.P.	То М.Р.
35-5-6.1(A-B)	0.05	0.37

- 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 surfaces 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, and 103i and in accordance with the following table:

Road No.	From M.P.	To M.P.	Subsection 504
34-5-9 (A-B)	0.00	1.37	504a
35-5-3.2	0.00	0.49	504a
35-5-3.3	0.00	0.52	504a
35-5-4 (B-F)	0.00	1.79	504a
35-5-4.1	0.00	0.31	504a
35-5-4.4	0.00	0.19	504a
35-5-9.1	0.00	0.61	504a
35-5-23.1	0.00	0.09	504a

504 – (Continued):

Road No.	From M.P.	To M.P.	Subsection 504
35-5-23.1	0.00	0.09	504a
35-5-26 (A)	0.00	1.07	504a
35-5-26.1(A)	0.00	1.70	504a
35-5-35(A-B)	0.00	1.56	504a

Minimum compaction required shall be 6 passes over each full-width layer, or fraction thereof, as measured along the centerline per layer of material.

506 - The inlet end of all existing drainage structures

Road No.	From M.P.	То М.Р.
34-5-29 (A-B)	0.00	1.37
35-5-3.2	0.00	0.49
35-5-3.3	0.00	0.92
35-5-4 (B-F)	0.00	1.79
35-5-4.1	0.00	0.31
35-5-6.1(A-B)	0.00	1.00
35-5-6.2	0.00	0.31
35-5-8.1(A-J)	0.00	4.21
35-5-9 (A)	0.00	0.61
35-5-9.1	0.00	0.61
35-5-9.2(A-B)	0.00	0.71

506 – (Continued):

Road No.	From M.P.	То М.Р.
35-5-15	0.00	0.55
35-5-15.1	0.00	0.25
35-5-20 (A-B)	0.00	1.43
35-5-20.1	0.00	0.85
35-5-21.1	0.00	2.17
35-5-21.2	0.00	0.74
35-5-22	0.00	0.65
35-5-22.1	0.00	0.09
35-5-23.1	0.00	0.09
35-5-25.5	0.00	0.35
35-5-26(A)	0.00	1.07
35-5-26.1(A-B)	0.00	3.38
35-5-26.2 (A-B)	0.00	2.90
35-5-35 (A-B)	0.00	1.56

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

507 - Existing drainage structures at the following locations:

Road No.	M.P.
35-5-8.1(A-J)	0.24, 1.28, 1.64, 2.00 2.12, & 3.92
35-5-9 (A)	0.53

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 within the drainage ditches of existing roads at the following locations:

Road No.	From M.P.	То М.Р.
34-5-29 (A-B)	0.00	1.37
35-5-3.2	0.00	0.49
35-5-3.3	0.00	0.92
35-5-4 (B-F)	0.00	1.79
35-5-4.1	0.00	0.31
35-5-6.1(A-B)	0.00	1.00
35-5-6.2	0.00	0.31
35-5-8.1(A-J)	0.00	4.21
35-5-9 (A)	0.00	0.61
35-5-9.1	0.00	0.61
35-5-9.2(A-B)	0.00	0.71
35-5-15	0.00	0.55
35-5-15.1	0.00	0.25

508 – (Continued):

Road No.	From M.P.	To M.P.
35-5-15.2	0.00	0.14
35-5-20 (A-B)	0.00	1.43
35-5-20.1	0.00	0.85
35-5-21.1	0.00	2.17
35-5-21.2	0.00	0.74
35-5-22	0.00	0.65
35-5-22.1	0.00	0.09
35-5-23.1	0.00	0.09
35-5-25.5	0.00	0.35
35-5-26(A)	0.00	1.07
35-5-26.1(A-B)	0.00	3.38
35-5-26.2 (A-B)	0.00	2.90
35-5-35 (A-B)	0.00	1.56

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 2 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 roadbeds, backfills, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.
- Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods.
- Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the road bed.
- The Purchaser shall secure the necessary water permits and pay all required water fees for use of water sources selected by the Purchaser and approved by the Authorized Officer.

AGGREGATE BASE COURSE - 700 PITRUN ROCK MATERIAL

- 701 This work shall consist of furnishing, hauling and placing one or more layers of pitrun rock material on roadbeds and waterdips approved for placing pitrun materials in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans.
- Pitrun rock materials used in this work may be obtained from source selected by the Purchaser at his option, providing the materials furnished comply with these specifications and the source is approved in writing by the Authorized Officer prior to use.
- Pitrun rock materials shall consist of talus rock, bank run or river run gravels, partly decomposed granite or basalt, cinders, or other approved materials. The materials shall be reasonably free from vegetative matter or other deleterious material.
- Pitrun rock material shall be placed in layers of sufficient thickness to accommodate the material, except that the maximum thickness of any layer shall not exceed 6 inches.
- Oversize material that cannot be accommodated in the layer shall be removed at the source or on the road, and shall be disposed of as directed by the Authorized Officer.
- The roadbed as shaped and compacted under Section 500 of these specifications shall be approved in writing by the Authorized Officer prior to placement of pitrun rock material. Notification for final inspection prior to rocking shall be 72 hours prior to the inspection and shall be 10 days prior to start of surfacing operations.
- 709 Pitrun rock material shall be placed on roadbed waterdip, blade processed and spread to required dimensions.
- 710 Pitrun rock material shall be compacted by routing construction and hauling equipment over the full width of each layer placed.
- 712 Pitrun rock material shall be surface bladed during the compaction operation to remove irregularities and to produce a smooth running surface.

AGGREGATE SURFACE COURSE - 1200 CRUSHED ROCK MATERIAL

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

TABLE 1204

AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

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

GRADATION

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

1205 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.

- 1206 Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.
- That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

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

- Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsections 300 and 500. Notification for final inspection prior to rocking shall be 72 hours prior to the inspection and shall be 10 days prior to start of surfacing operations.
- Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1212 Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to

Exhibit C12 Sale Name: Jumping Bean Page 24 of 30

the requirements of Subsections 103f, 103g, or 103i. Minimum compaction shall be 6 passes over each full-width layer, or fraction thereof.

Each layer of crushed aggregate surface rock placed, processed, and shaped in accordance with these specifications shall be uniformly moistened or dried to the optimum moisture content suitable for maximum compaction and compacted to full width until a uniform density of not less than 85 percent of the maximum density is attained.

SOIL STABILIZATION - 1800

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

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas and then complete the requirements of Soil Stabilization 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.
- 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.
- 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.

- 1811 The Purchaser shall apply to approximately 1.30 acres designated for treatment as specified under Subsections 1802a and 1806a, Government furnished native grass seed and Purchaser furnished mulch material at the following rate of application:
 - a. Two Stage Dry:

Native Grass Seed	10 lbs./acre
Mulch (weed free)	2,000 lbs./acre

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

The Purchaser shall furnish and apply to the area designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806a, native 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, or other approved mechanical seeding equipment may be used when seed are to be applied in dry form.
- The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- 1821 Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- Twine, rope, sacks, and other debris resulting from the soil-stabilization operations shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING - 2100

- 2101 This work shall consist of the removal of vegetation from the road prism variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.
- 2102 Roadside brushing may be performed mechanically with self-powered, self-propelled equipment or manually with hand tools, including chain saws.
- Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at DBH 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 sloped and all limbs below the 1 inch area will be severed from the trunk.
- Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. Limbs below the 1 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- Trees in excess of 6 inches in diameter at DBH shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prismvariable 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.
- Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- Vegetative growth capable of growing 1foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- 2107 Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot in height, shall be cut within these areas.
- 2108 Self-propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in

excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.

2113 - Roadside brushing shall be accomplished as shown on the plans and as listed below:

Road No.	From M.P.	To M.P.
34-5-29 (A-B)	0.00	1.37
35-5-3.2	0.00	0.49
35-5-3.3	0.00	0.92
35-5-4 (B-F)	0.00	1.79
35-5-4.1	0.00	0.31
35-5-4.3	0.00	0.30
35-5-4.4	0.00	0.19
35-5-6.1(A-B)	0.00	1.00
35-5-6.2	0.00	0.31
35-5-8.1(A-J)	0.00	4.21
35-5-9 (A)	0.00	0.61
35-5-9.1	0.00	0.61
35-5-9.2(A-B)	0.00	0.71
35-5-15	0.00	0.55
35-5-15.1	0.00	0.25
35-5-15.2	0.00	0.14
35-5-20 (A-B)	0.00	1.43
35-5-20.1	0.00	0.85

2113 – (Continued):

Road No.	From M.P.	То М.Р.
35-5-21.1	0.00	2.17
35-5-21.2	0.00	0.74
35-5-22	0.00	0.65
35-5-22.1	0.00	0.09
35-5-23.1	0.00	0.09
35-5-25.5	0.00	0.35
35-5-26(A)	0.00	1.07
35-5-26.1(A-B)	0.00	3.38
35-5-26.2 (A-B)	0.00	2.90
35-5-35 (A-B)	0.00	1.56

- 2115 Sections of roadway to have vegetation removed will be marked at start and stop points with one piece each of white and red ribbon tied to red-topped painted stakes.
- 2116 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2117 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the current version of the Manual on Uniform Traffic Devices.

DECOMMISSIONING - 2600

- 2601 Decommissioning includes ripping, installing water bars, placement of slash and soil stabilization material, and blocking road from access by vehicles. This work is required for road acceptance under Section 18 of this contract.
- Decommissioning shall be performed on all temporary routes in accordance with these specifications.
- Decommissioning work shall be completed after timber extraction, logging activities, and after road use.
- Fill material used in the construction of temporary route beds will be pulled back, properly placed, and stabilized on a sub-soiled running surface for reestablishment of the original ground line.
- 2606 Stockpiled slash shall be used to protect exposed areas created by the Purchaser's decommissioning operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. All slash stockpiles created by the purchaser shall be utilized for decommissioning operations. Where slash is not available or no longer remaining, exposed soil areas shall be stabilized in accordance with section 1800 Soil Stabilization.
- 2608 Protect areas mulched and treated with slash placement from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.
- Access shall be blocked with barricades as shown on the typical detail sheet and at locations listed on Exhibit C11.
- All vegetation and slash shall be removed from the immediate area designated for excavation. Temporary routes shall be cleared of all vegetation and slash prior to ripping. The resultant slash shall be stockpiled in a manner that will allow retrieval and uniform spreading in accordance with section 2606. No vegetation or slash shall be mixed with excavated material to be placed.
- Water bars shall be installed across full width of temporary routes. Water bars shall be constructed as shown on Exhibit C8.
- 2614 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with section 1800 and placement of slash described in section 2606 on temporary routes, disturbed areas, landings, cut banks, fill slopes and other areas disturbed by the purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.

SPECIAL PROVISIONS

- 1. Before the initial start of road renovation, construction, reconstruction, or surfacing operations, or after a shutdown of 7 or more days, the Purchaser shall notify the Authorized Officer 48 hours in advance of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer if they intend to cease operations for any period of 30 or more days.
- 2. 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. All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, **if available**. Certified weed free straw mulch will be the responsibility of the contractor.
- 4. All stream channel culvert inlets shall be cleaned between **July 1**st **and September 15**th in accordance with Oregon Department of Fish and Wildlife (ODFW) in-stream work period guidelines.
- 5. 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.
- 6. Roadside brushing cutting limits beneath or adjacent to bridges shall extend 8 feet horizontally from each side of the outermost projected line of the bridge including abutments, curbs, rails or decks. Cut brush and trees shall be removed from beneath the bridge and from the stream channel.
- 7. While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. All debris resulting from roadside brushing activities shall be scattered downslope. 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.
- 8. While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C10) shall have the branches pruned rather than being felled.
- 9. All stumps, designated by the Authorized Officer, which would interfere with normal blading and road renovation operations (including turnouts), shall be removed in such a way as to not cause damage to the drainage ditch or the road bed. Stumps that are ground-down, shall be ground to a minimum of 3 inches below existing grade.

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10. Decommissioning of temporary spurs: fill material used in the construction of temporary route beds will be pulled back, properly placed, and stabilized on a sub-soiled running surface for re-establishment of the original ground line.

EXHIBIT C14 35-5-4.3 ROAD SHEET 1 OF 1 CAUTION!!! EX. GAS MAIN! VERIFY LOCATION PRIOR TO ROAD RENOVATION (APPROX. MP 0.27) EX. ROAD WIDTH VARIES (14'±) 2:1 FILL SLOPE (4'±) NOTES: 6:1 FILL SLOPE (12'±) 1) BORROW MATERIAL FOR FILL IS LOCATED AT MP 0.29. 2) RAMP MUST BE PROPERLY CONSTRUCTED AND COMPACTED BEFORE ANY MATERIAL IS HAULED OVER THE EXISTING GAS MAIN. EX. EDGE 3) UPON COMPLETION OF TIMBER EXTRACTION, AND/OR OF ROAD BEFORE ROAD WILL BE ACCEPTED, REMOVE RAMP AND 6:1 FILL GRADE ROAD SURFACE BACK TO ITS ORIGINAL OR - FX ROAD SLOPE (12'±) BETTER CONDITION. CENTERLINE MATCH EXISTING ROAD WIDTH (14'±) EX. EDGE SLOPE (4'±) MATCH EXISTING ADDITIONAL ROAD WIDTH (14'±) 2' COVER REQUIRED FOR HAUL – 4'± -PLAN VIEW COVER **CROSS-SECTION** REV. NO. DESCRIPTION DATE - 20' MIN. LENGTH CENTERED OVER GAS LINE -UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** MEDFORD DISTRICT - MEDFORD, OREGON ADDITIONAL JUMPING BEAN 2' COVER REQUIRED FOR HAUL **TIMBER SALE BORROW MATERIAL RAMP OVER EXISTING GAS MAIN** EX. 3' COVER EX. ROAD DESIGNED: GRADE EXISTING GAS MAIN REVIEWED: ALWAYSAPPROVED: PROFILE VIEW DRAFTED BY: ELF SCALE: 1" = 5' DATE: JULY 2013 SHEET: 1 OF 1 SAFETY DRAWING NO.: OR-11-9113.4-1

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General road maintenance specifications are designated by numeric symbols according to the type of work performed as follows:

SECTION	DESCRIPTION
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance
3500	Decommissioning

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GENERAL - 3000

- The Purchaser shall be required to maintain all roads listed and/or referenced in Section 42, as shown on the Exhibit D maps of this contract, and in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- The Purchaser shall be required to provide maintenance on roads in accordance with Subsection 3403.
- 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.
- The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- The Purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 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.

Page 3 of 7

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.

- The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

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

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

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

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

Exhibit D-1 Sale Name: Jumping Bean Page 4 of 7

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.

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 1st each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the proceeding operating seasons.
- 3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.
- 3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

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 expiration of Purchaser's right to cut and remove timber (Sec. 4) and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no

longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions (Sections 3000, 3100, 3200 and 3300 of the maintenance specifications) have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

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

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

OTHER MAINTENANCE - 3400

- The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.
- The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one- half gallon per yd² of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds³ of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd² when a specified lesser rate is approved by the Authorized Officer.

The following roads shall be watered:

Road Number	From Sta./M.P.	to Sta./M.P.
34-5-29 (A-B)	0.00	1.37
35-5-3.2	0.00	0.49
35-5-3.3	0.00	0.52
35-5-4(B-F)	0.00	1.79
35-5-4.1	0.00	0.31
35-5-4.4	0.00	0.19
35-5-9.1	0.00	0.61

Sale Name: Jumping Bean

Page 6 of 7

35-5-23.1(A)	0.00	0.09
35-5-26(A)	0.00	1.07
35-5-26.1(A)	0.00	1.70
35-5-26.2(A)	0.00	2.07
35-5-35 (A-B)	0.00	1.56

• Other roads as needed

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

DECOMMISSIONING – 3500

- Decommissioning shall consist of, any fill material used in the construction of temporary route beds will be pulled back, properly placed, and stabilized on a sub-soiled running surface for re-establishment of the original ground line, along with ripping, installing water bars, seed and mulching, and blocking temporary routes from access by vehicles. This work is required for road acceptance under Section 18 of this contract.
- 3503 Decommissioning shall be performed on temporary routes in accordance with these specifications, and as shown on the plans at the following locations:

Road No or Site	From Sta/MP	To Sta/MP
Temp Route 1	0.00	0.09
Temp Route 2	0.00	0.23
Temp Route 3	0.00	0.12
Temp Route 4	0.00	0.07
Temp Route 5	0.00	0.06
Temp Route 6	0.00	0.06
Temp Route 7	0.00	0.22
Temp Route 8	0.00	0.03

3504 - Decommissioning work shall be completed at the end of timber hauling. All decommissioning work shall be performed during the following seasonal periods to address soil moisture:

From: May 15th	To: October 15th

3507 - Culverts not designated as salvage by the Authorized Officer for the Government shall become the property of the Purchaser. The Purchaser shall be responsible for disposal of materials in a legal manner and for payment of any fees required.

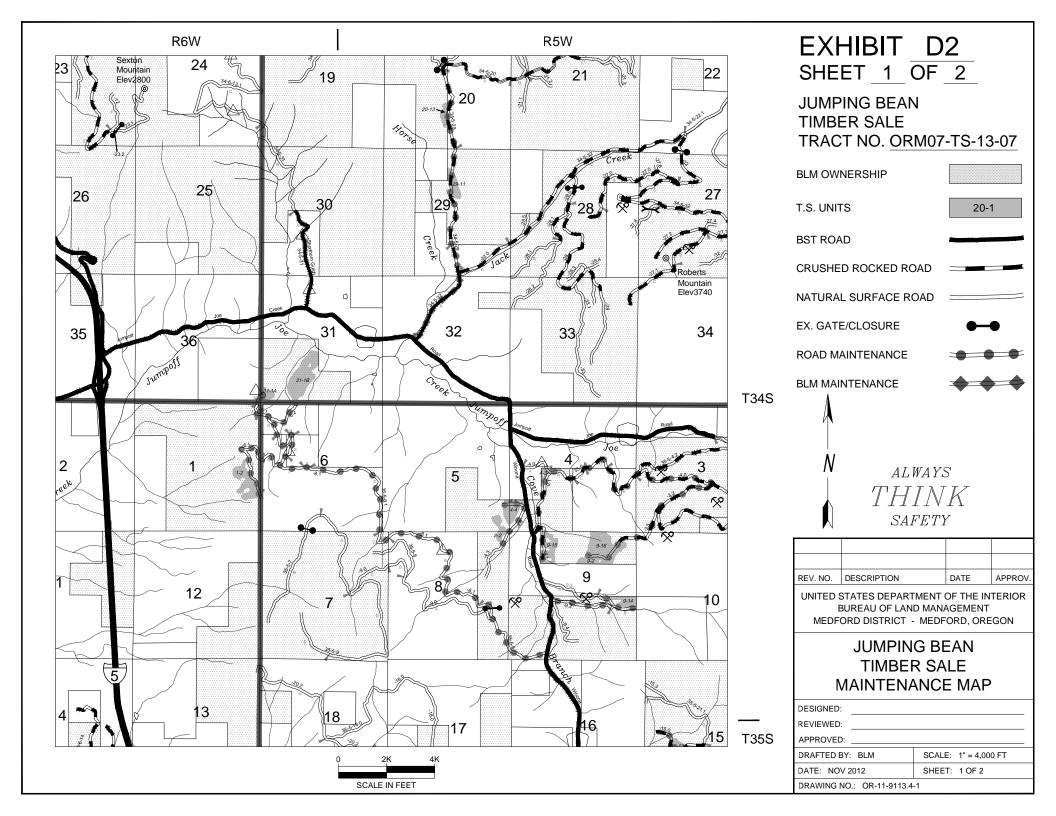
Exhibit D-1

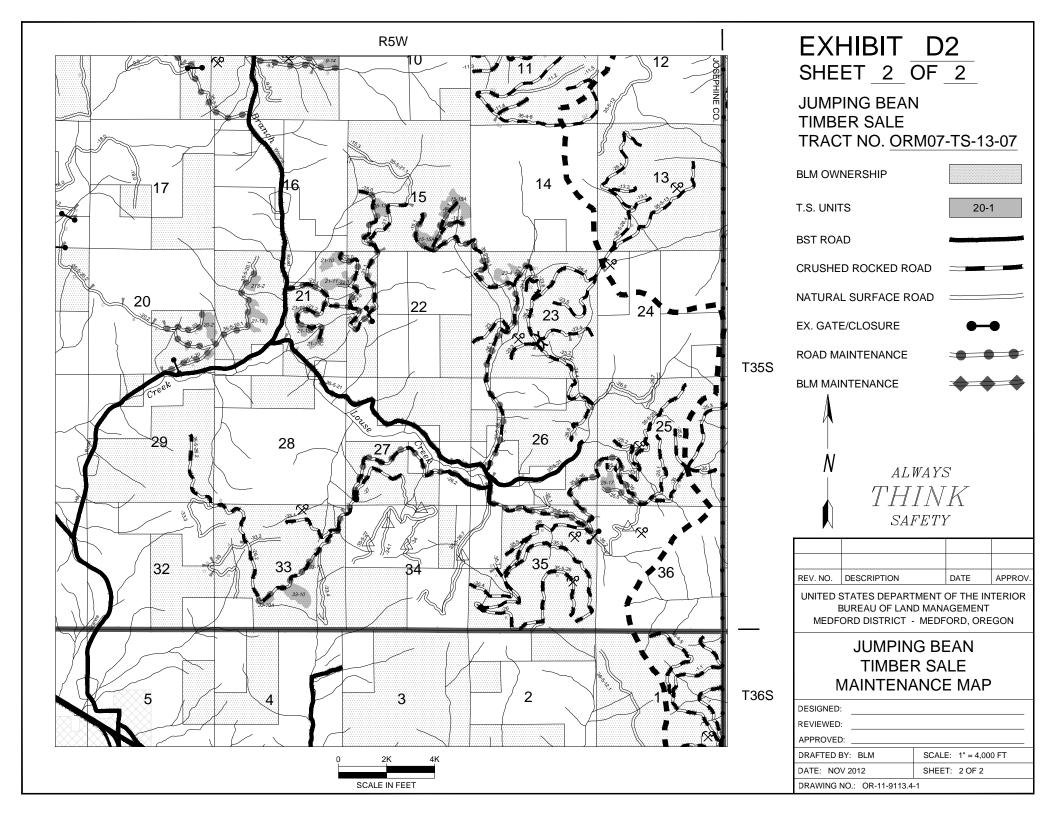
Sale Name: Jumping Bean

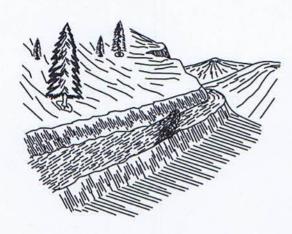
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Sale of material on site is not allowed unless authorized in writing by the Authorized Officer.

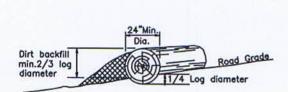
- 3508 Protect mulched areas from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.
- 3509 Access shall be blocked with barricades as shown on the typical detail sheet as shown on Exhibit C8.
- Water bars shall be installed across full width of temporary routes at locations listed on the Exhibit C11 worklist and shall be constructed as shown on Exhibit C8. No water bar will be installed closer than 50 feet to a draw crossing.
- Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 on designated roadways, disturbed areas, and other areas disturbed by the Purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.







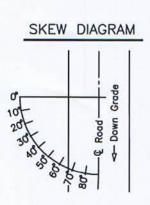
LOG BARRICADE

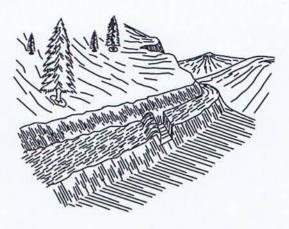


- LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
 EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
 ALL BARRICADES SHALL BE SKEWED 30 DEGREES.

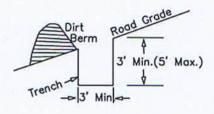
 THE FRONT CLASSICAL CONSTRUCTION OF THE PRIOR CLASSICAL CONSTRUCTION.
- 4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND
- FROM THE CUT BANK TO THE FILL SLOPE.

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





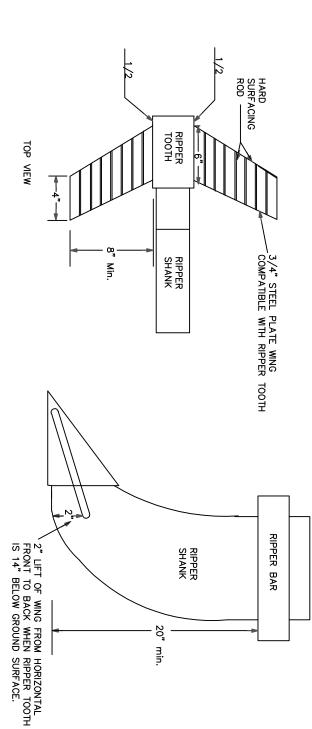
TRENCH BARRICADE (Optional)



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

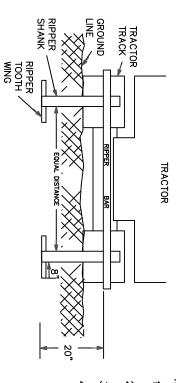
Note: Trench barricade may be installed if log minimum dimensions are not readily available.





SIDE VIEW

TYPICAL RIPPER POSITION



NOTES: TYPICAL RIPPER TOOTH CONSTRUCTION

- USE HARD SURFACING ROD FOR ALL EDGE AND SURFACE REINFORCEMENT.
- 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.

 OR USED.

 WINGS SHALL PROVIDE TWO (2) INCHES OF LIFT FROM THE HORIZONTAL WHEN TEETH ARE EXTENDED FOURTEEN (14) INCHES BELOW THE GROUND SURFACE.

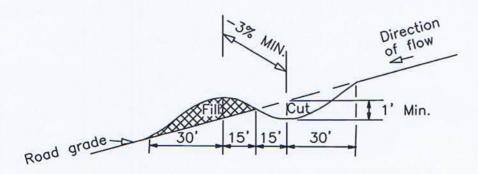
DISTRICT	MEDFORD	E AREA	RESOURCE	ASHLAND
INTERIOR	OF THE INTE	DEPARTMENT OF THE I	D STATES I	UNITE

WING RIPPER DETAIL

DESIGNED		
REVIEWED		
APPROVED		
CHEF, BRANCH OF ENGINEERING OR DISTRICT ENGINEERIN	DISTRICT ENGINEER	
DRAWN: JWR	SCALE: NONE	NONE
DATE: October 2009	SHEET	1 OF 1
DRAWING NO.		



WATER BAR



- 1. WATER BARS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
- 2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
- 3. ALL WATER BARS SHALL BE SKEWED 30 DEGREES.
- 4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.



United States of America

Department of the Interior

Bureau Of Land Management

Timber Sale Appraisal

District: Medford

Sale Name: Jumping Bean

Sale Date: 09/12/2013

Appraisal Method: 16' MBF

Contract #: ORM07-TS-13-07

Job File #: 291

Master Unit: Josephine

Planning Unit: Grants Pass

Contents

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Stump to Truck Costs	22
Other Allowances Costs	23
Consolidated Comments	25

Timber - Sale - Summary

Legal Description

Forest Type	Township	Range	Section	Subdivision
PD	34S	5W	20	E1/2SW1/4
O&C	34S	5W	29	W1/2NE1/4
O&C	348	5W	31	Lot 2, E1/2SW1/4
PD	35S	5W	4	NE1/4SW1/4, S1/2SW1/4
O&C	35S	5W	5	SE1/4SE1/4
PD	35S	5W	8	Lot 1
O&C	35S	5W	9	N1/2NE1/4, NE1/4NW1/4, N1/2SE1/4
O&C	35S	5W	15	N1/2SW1/4, SE1/4
PD	35S	5W	20	E1/2SE1/4
O&C	35S	5W	21	Lots 1, 2, 3, NE1/4NE1/4, S1/2NE1/4, E1/2NW1/4, NE1/4SW1/4, SE1/4
PD	35S	5W	22	W1/2NW1/4
O&C	35S	5W	23	NW1/4
O&C	35S	5W	25	W1/2SW1/4
O&C	35S	5W	33	S1/2NE1/4, E1/2SW1/4, W1/2SE1/4
O&C	35S	6W	1	SE1/4NE1/4, E1/2SE1/4

Cutting Volume (16' MBF)

				****	an.	1		_		
Unit	DF	IC	PP	WF	SP		Total	Regen	Partial	ROW
1-2	178	11	7	5	3		204	0	19	0
4-3	47	3	2	1	1		54	0	5	0
4-4	122	8	5	4	2		141	0	13	0
8-2	56	4	2	2	1		65	0	6	0
9-2	122	8	5	4	2		141	0	13	0
9-14	84	5	3	3	1		96	0	9	0
9-15	113	7	4	3	2		129	0	12	0
9-16	197	13	8	6	3		227	0	21	0
15-13	75	5	3	2	1		86	0	8	0
15-15A	188	12	7	6	3		216	0	20	0
15-15B	84	5	3	3	1		96	0	9	0
20-2	113	7	4	3	2		129	0	12	0
20-13	47	3	2	1	1		54	0	5	0
21S-2	56	4	2	2	1		65	0	6	0
21-10	75	5	3	2	1		86	0	8	0
21-11	103	7	4	3	2		119	0	11	0
21-13	103	7	4	3	2		119	0	11	0
21-15	84	5	3	3	1		96	0	9	0
23-4	66	4	3	2	1		76	0	7	0
25-17	66	4	3	2	1		76	0	7	0
29-11	75	5	3	2	1		86	0	8	0
31-1A	47	3	2	1	1		54	0	5	0
31-1B	292	19	13	9	8		341	0	31	0
33-10	159	10	6	5	3		183	0	17	0
33-10A	28	2	1	1	0		32	0	3	0
TR-1	9	6	2	0			17	0	0	1
TR-2	36	1	1	0	0		38	0	0	1
Totals	2,625	173	105	78	45		3,026	0	275	2

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\$2,269.50

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Logging Costs per 16' MBF				Profit & Risk			
Trai	mp to Truck asportation d Construction	\$ \$ \$	200.73 47.31 52.42	Total Profit & Risk Basic Profit & Risk Back Off	8 % + Additional Risk	0 %	8 %	
Roa	d Amortization	\$	0.20		Tract Features			
Roa	d Maintenance	\$	10.66	Avg Log Douglas	s-fir : 57 bf	All : 55 bf		
Oth	er Allowances :			Recovery Douglas	-fir : 86 %	All: 86 %		
	Fuels Treatment	\$ 23	.98	Salvage Douglas-	-fir : 0 %	All:0%		
ı	Misc	\$ 0	.11	Avg Volume (16' MBF	per Acre)		11	
ı	Other Costs	\$9	.81	Avg Yarding Slope			0	%
l	XXX	\$	3 -	Avg Yarding Distance (fee	t)		300	
ŀ	Total Other Allowances :		\$ 33.90	Avg Age			0	
L	Total Other Anowances .		\$ 66. 50	Volume Cable				%
				Volume Ground				%
				Volume Aerial			0.00	%
				Road Construction Station			0.00	
				Road Improvement Station				
				Road Renovation Stations			0.00	
				Road Decomission Station	ns Cruise		0.00	
				Cruised By	D.Caulfield, A	Franks G.C	'annon	
				Date	D.Caumeia, i		6/2013	
	14		245.22	Type of Cruise	F	CMTRE and		
101	al Logging Costs per 16' MBF	\$	345.22	County, State	•	Josephir		
	Utilization Centers		20 251	County, State		ососран	, 010	
	nter #1 : Glendale, OR nter #2		30 Miles 0 Miles		Net Volume			
	ighted distance to Utilization Centers		0 Miles	Green (16' MBF)			3,026	
WC	Length of Contract			Salvage (16' MBF)			0	
~	o o		26 M (1	Douglas-fir Peeler			26	
	tting and Removal Time		36 Montl	Export Volume			0	
Per	sonal Property Removal Time		1 Mont	Scaling Allowance (\$0.75	ner 16' MRF)	\$2.7	260.50	

Scaling Allowance (\$0.75 per 16' MBF)

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Medford Jumping Bean ORM07-TS-13-07

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Stumpage Summary

Stumpage Computation (16' MBF)

Species	Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Cost	(+) Marginal Log Value	(-) Back Off	Appraised Price	Appraised Value
DF	15,587	2,625	\$ 537.92	\$ 43.03	\$ 345.22	\$ 2.00		\$ 151.70	\$ 398,212.50
IC	2,585	173	\$ 404.96	\$ 32.40	\$ 345.22			\$ 40.50	\$ 7,006.50
PP	439	105	\$ 320.33	\$ 25.63	\$ 345.22			\$ 32.00	\$ 3,360.00
WF	526	78	\$ 437.82	\$ 35.03	\$ 345.22			\$ 57.60	\$ 4,492.80
SP	486	45	\$ 324.15	\$ 25.93	\$ 345.22			\$ 32.40	\$ 1,458.00
Totals	19,623	3,026							\$ 414,529.80

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Douglas-fir			1.0	55.0	38.0	6.0
White Fir				48.0	41.0	11.0
Incense-cedar				23.0	54.0	23.0
Sugar Pine				49.0	38.0	13.0
Ponderosa Pine				53.0	44.0	3.0

Marginal Log Volume

Species	Grade #7	Grade #8
Douglas-fir	15	27
White Fir		
Incense-cedar		
Sugar Pine		
Ponderosa Pine		

Appraised By: Franks, Annie **Date:** 07/19/2013

Area Approval By: Caulfield, Dave Date: 07/23/2013

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
Douglas-fir	15,587	2,625	2,144	4,675
Incense-cedar	2,585	173	139	349
Ponderosa Pine	439	105	82	178
White Fir	526	78	65	139
Sugar Pine	486	45	37	84
Total	19,623	3,026	2,467	5,425

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
3,500	19,623	178	14.2	3,360	60,695	55

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
60,695	2,251	62,946	3.2	3,026	3,500	86 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
3,045	15,587	195	14.2	2,916	50,838	57

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
50,838	2,157	52,995	3.4	2,625	3,045	86 %

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Cutting Areas

	Regen	Partial Cut	Right Of Way	Total
Unit	Acres	Acres	Acres	Acres
1-2		19		19
4-3		5		5
4-4		13		13
8-2		6		6
9-2		13		13
9-14		9		9
9-15		12		12
9-16		21		21
15-13		8		8
15-15A		20		20
15-15B		9		9
20-2		12		12
20-13		5		5
21S-2		6		6
21-10		8		8
21-11		11		11
21-13		11		11
21-15		9		9
23-4		7		7
25-17		7		7
29-11		8		8
31-1A		5		5
31-1B		31		31
33-10		17		17
33-10A		3		3
TR-1			1	1
TR-2			1	1
Totals :		275	2	277

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Exhibit B

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

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

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	2,625		
Incense-cedar	173		
Ponderosa Pine	105		
White Fir	78		
Sugar Pine	45		
Sale Totals	3,026		

Unit Details (16' MB)

IInit .	1-2	19 Acres	Value ner Acre · \$0 00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	178		
Incense-cedar	11		
Ponderosa Pine	7		
Sugar Pine	3		
White Fir	5		
Unit Totals	204		

Unit	15-13	8 Acres	Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	86		

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Unit 1	15-15A	20 Acres	Value per Acre: \$0.00
--------	--------	----------	------------------------

Species	Net Volume	Bid Price	Species Value
Douglas-fir	188		
Incense-cedar	12		
Ponderosa Pine	7		
Sugar Pine	3		
White Fir	6		
Unit Totals	216		

Unit 15-15B 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	84		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	3		
Unit Totals	96		

Unit 20-13 5 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	3		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	1		
Unit Totals	54		

Unit 20-2 12 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	129		

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Unit	21-10	8 Acres	Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	86		

Unit 21-11 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	103		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	119		

Unit 21-13 11 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	103		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	119		

Unit 21-15 9 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	84		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	3		
Unit Totals	96		

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Unit 21S-2 6 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	56		
Incense-cedar	4		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	2		
Unit Totals	65		

Unit 23-4 7 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	66		
Incense-cedar	4		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	76		

Unit 25-17 7 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	66		
Incense-cedar	4		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	76		

Unit 29-11 8 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	75		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	2		
Unit Totals	86		

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Unit 31-1A 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	3		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	1		
Unit Totals	54		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	292		
Incense-cedar	19		
Ponderosa Pine	13		
Sugar Pine	8		
White Fir	9		
Unit Totals	341		

Unit 33-10 17 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	159		
Incense-cedar	10		
Ponderosa Pine	6		
Sugar Pine	3		
White Fir	5		
Unit Totals	183		

Unit 33-10A 3 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	28		
Incense-cedar	2		
Ponderosa Pine	1		
Sugar Pine			
White Fir	1		
Unit Totals	32		

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Unit 4-3 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	47		
Incense-cedar	3		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	1		
Unit Totals	54		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	122		
Incense-cedar	8		
Ponderosa Pine	5		
Sugar Pine	2		
White Fir	4		
Unit Totals	141		

Unit 8-2 6 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	56		
Incense-cedar	4		
Ponderosa Pine	2		
Sugar Pine	1		
White Fir	2		
Unit Totals	65		

Unit 9-14 9 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	84		
Incense-cedar	5		
Ponderosa Pine	3		
Sugar Pine	1		
White Fir	3		
Unit Totals	96		

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Unit 9-15 12 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	113		
Incense-cedar	7		
Ponderosa Pine	4		
Sugar Pine	2		
White Fir	3		
Unit Totals	129		

Unit 9-16 21 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	197		
Incense-cedar	13		
Ponderosa Pine	8		
Sugar Pine	3		
White Fir	6		
Unit Totals	227		

Unit 9-2 13 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	122		
Incense-cedar	8		
Ponderosa Pine	5		
Sugar Pine	2		
White Fir	4		
Unit Totals	141		

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	9		
Incense-cedar	6		
Ponderosa Pine	2		
White Fir			
Unit Totals	17		

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Medford Jumping Bean ORM07-TS-13-07

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

Species	Net Volume	Bid Price	Species Value
Douglas-fir	36		
Incense-cedar	1		
Ponderosa Pine	1		
Sugar Pine			
White Fir			
Unit Totals	38		

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Sale Volume Totals

277 Acres 0 Regen 275 Partial 2 R/W	27	Units
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SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Net	16' MBF GM	16' MBF Gross	32' MBF Net	32' MBF GM	32' MBF Gross	CCF Net	CCF GM	CCF Gross
Douglas-fir	15,587	50,838	2,157	2,625	2,916	3,045	2,144	2,377	2,485	4,675	5,175	5,395
Incense-cedar	2,585	5,525	14	173	188	189	139	151	151	349	379	381
Ponderosa Pine	439	1,768	53	105	121	127	82	94	99	178	205	215
White Fir	526	1,425	27	78	85	89	65	71	74	139	152	158
Sugar Pine	486	1,139	0	45	50	50	37	41	41	84	94	94
Totals	19,623	60,695	2,251	3,026	3,360	3,500	2,467	2,734	2,850	5,425	6,005	6,243

Unit Totals

Unit: 1-2	9 Acres	0 Regen	19 Partial	0 R/W
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_	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	1,071	3,487	146	207	198	178
Incense-cedar	177	376		13	13	11
Ponderosa Pine	30	120	3	8	8	7
White Fir	36	98	2	6	6	5
Sugar Pine	34	78		3	3	3
Unit Totals	1,348	4,159	151	237	228	204

Unit: 4-3 5 Acres 0 Regen 5 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	282	918	38	54	52	47
Incense-cedar	46	99		3	3	3
White Fir	10	26		2	2	1
Ponderosa Pine	8	32	1	2	2	2
Sugar Pine	9	21		1	1	1
Unit Totals	355	1,096	39	62	60	54

Unit: 4-4 13 Acres 0 Regen 13 Partial 0 R/W

	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	733	2,386	100	141	135	122
Incense-cedar	121	257		9	9	8
Ponderosa Pine	20	82	2	6	6	5

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Unit Totals	922	2,846	103	162	156	141
Sugar Pine	23	54		2	2	2
White Fir	25	67	1	4	4	4

Unit: 8-2	6 Acres		0 Reger	1	6 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	338	1,101	46	65	63	56
Incense-cedar	56	119		4	4	4
Ponderosa Pine	9	38	1	3	3	2
White Fir	11	31	1	2	2	2
Sugar Pine	11	25		1	1	1
Unit Totals	425	1,314	48	75	73	65

Unit: 9-2	13 Acres		0 Regen	1	13 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	733	2,386	100	141	135	122
Incense-cedar	121	257		9	9	8
Ponderosa Pine	20	82	2	6	6	5
White Fir	25	67	1	4	4	4
Sugar Pine	23	54		2	2	2
Unit Totals	922	2,846	103	162	156	141

Unit: 9-14	9 Acres		0 Regen	ı	9 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	507	1,652	69	98	94	84
Incense-cedar	84	178		6	6	5
Ponderosa Pine	14	57	2	4	4	3
White Fir	17	47	1	3	3	3
Sugar Pine	16	37		2	2	1
Unit Totals	638	1,971	72	113	109	96

Unit: 9-15	12 Acres		0 Reger	ı	12 Partial	0 R/W
	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	676	2,202	92	131	125	113
Incense-cedar	112	238		8	8	7
Ponderosa Pine	19	76	2	5	5	4
White Fir	23	62	1	4	4	3
Sugar Pine	21	50		2	2	2

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Unit Totals	851	2,628	95	150	144	129
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Unit: 9-16	21 Acres		0 Regen		21 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,183	3,854	161	228	219	197
Incense-cedar	195	416		14	14	13
Ponderosa Pine	33	133	4	9	9	8
White Fir	40	109	2	7	7	6
Sugar Pine	37	87		4	4	3
Unit Totals	1,488	4,599	167	262	253	227

Unit: 15-13	8 Acres		0 Reger	1	8 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	451	1,468	61	87	83	75
Incense-cedar	74	158		5	5	5
Ponderosa Pine	13	51	1	4	3	3
White Fir	15	41	1	3	2	2
Sugar Pine	14	33		1	1	1
Unit Totals	567	1,751	63	100	94	86

Unit: 15-15A	20 Acres		0 Regen	1	20 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,127	3,671	153	218	208	188
Incense-cedar	186	396		13	13	12
Ponderosa Pine	31	126	4	9	9	7
White Fir	38	103	2	6	6	6
Sugar Pine	35	83		4	4	3
Unit Totals	1,417	4,379	159	250	240	216

Unit: 15-15B	9 Acres		0 Reger	1	9 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	507	1,652	69	98	94	84
Incense-cedar	84	178		6	6	5
Ponderosa Pine	14	57	2	4	4	3
White Fir	17	47	1	3	3	3
Sugar Pine	16	37		2	2	1
Unit Totals	638	1,971	72	113	109	96

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Unit: 20-2	12 Acres		0 Regen		12 Partial	0 R/W	
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net	
Douglas-fir	676	2,202	92	131	125	113	
Incense-cedar	112	238		8	8	7	
Ponderosa Pine	19	76	2	5	5	4	
White Fir	23	62	1	4	4	3	
Sugar Pine	21	50		2	2	2	
Unit Totals	851	2,628	95	150	144	129	

Unit: 20-13	5 Acres		0 Reger	ı	5 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	282	918	38	54	52	47
Incense-cedar	46	99		3	3	3
White Fir	10	26		2	2	1
Ponderosa Pine	8	32	1	2	2	2
Sugar Pine	9	21		1	1	1
Unit Totals	355	1,096	39	62	60	54

Unit: 21S-2	6 Acres		0 Reger	1	6 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	338	1,101	46	65	63	56
Incense-cedar	56	119		4	4	4
Ponderosa Pine	9	38	1	3	3	2
White Fir	11	31	1	2	2	2
Sugar Pine	11	25		1	1	1
Unit Totals	425	1,314	48	75	73	65

Unit: 21-10	8 Acres		0 Regen	1	8 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	451	1,468	61	87	83	75
Incense-cedar	74	158		5	5	5
Ponderosa Pine	13	51	1	4	3	3
White Fir	15	41	1	3	2	2
Sugar Pine	14	33		1	1	1
Unit Totals	567	1,751	63	100	94	86

Unit: 21-11	11 Acres		0 Regen		11 Partial	0 R/W
SpeciesName	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
	Trees	Logs	Logs	Gross	GM	Net

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Unit Totals	779	2,408	87	138	132	119
Sugar Pine	19	45		2	2	2
White Fir	21	57	1	4	3	3
Ponderosa Pine	17	69	2	5	5	4
Incense-cedar	102	218		7	7	7
Douglas-fir	620	2,019	84	120	115	103

Unit: 21-13

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	620	2,019	84	120	115	103
Incense-cedar	102	218		7	7	7
Ponderosa Pine	17	69	2	5	5	4
White Fir	21	57	1	4	3	3
Sugar Pine	19	45		2	2	2
Unit Totals	779	2,408	87	138	132	119

Unit: 21-15 9 Acres 0 Regen 9 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull	16' MBF Gross	16' MBF GM	16' MBF Net
•			Logs		_	
Douglas-fir	507	1,652	69	98	94	84
Incense-cedar	84	178		6	6	5
Ponderosa Pine	14	57	2	4	4	3
White Fir	17	47	1	3	3	3
Sugar Pine	16	37		2	2	1
Unit Totals	638	1,971	72	113	109	96

Unit: 23-4 7 Acres 0 Regen 7 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	394	1,285	54	76	73	66
Incense-cedar	65	139		5	5	4
Ponderosa Pine	11	44	1	3	3	3
White Fir	13	36	1	2	2	2
Sugar Pine	12	29		1	1	1
Unit Totals	495	1,533	56	87	84	76

Unit: 25-17 7 Acres 0 Regen 7 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	394	1,285	54	76	73	66
Incense-cedar	65	139		5	5	4
Ponderosa Pine	11	44	1	3	3	3

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Unit Tota	ls 495	1,533	56	87	84	76
Sugar Pine	12	29		1	1	1
White Fir	13	36	1	2	2	2

Unit: 29-11	8 Acres		0 Reger	1	8 Partial	0 R/W
	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	451	1,468	61	87	83	75
Incense-cedar	74	158		5	5	5
Ponderosa Pine	13	51	1	4	3	3
White Fir	15	41	1	3	2	2
Sugar Pine	14	33		1	1	1
Unit Totals	567	1,751	63	100	94	86

Unit: 31-1A	5 Acres		0 Reger	1	5 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	282	918	38	54	52	47
Incense-cedar	46	99		3	3	3
Ponderosa Pine	8	32	1	2	2	2
White Fir	10	26		2	2	1
Sugar Pine	9	21		1	1	1
Unit Totals	355	1,096	39	62	60	54

Unit: 31-1B	31 Acres		0 Regen	l	31 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,747	5,686	238	337	324	292
Incense-cedar	288	614		20	20	19
Ponderosa Pine	49	196	5	14	12	13
White Fir	59	160	3	7	9	9
Sugar Pine	55	128		8	8	8
Unit Totals	2,198	6,784	246	386	373	341

Unit: 33-10	17 Acres		0 Reger	1	17 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	958	3,120	130	185	177	159
Incense-cedar	158	337		11	11	10
Ponderosa Pine	27	107	3	8	7	6
White Fir	32	88	2	6	5	5
Sugar Pine	30	70		3	3	3

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Unit Totals 1,205	3,722	135	213	203	183
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Unit: 33-10A	3 Acres		0 Reger	1	3 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	169	551	23	33	31	28
Incense-cedar	28	59		2	2	2
White Fir	6	16		1	1	1
Ponderosa Pine	5	19	1	1	1	1
Sugar Pine	5	12				
Unit Totals	213	657	24	37	35	32

Unit: TR-1	1 Acres	Acres 0 Regen			0 Partial	1 R/W	
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net	
Douglas-fir	15	60	10	11	10	9	
Incense-cedar	26	70	13	7	6	6	
Ponderosa Pine	4	19	3	3	3	2	
White Fir	2	2					
Unit Totals	47	151	26	21	19	17	

Unit: TR-2	1 Acres		0 Reger	1	0 Partial	1 R/W	
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net	
Douglas-fir	75	309	40	43	40	36	
Incense-cedar	3	10	1	1	1	1	
Ponderosa Pine	3	10	2	1	1	1	
Sugar Pine	1	2					
White Fir	1	1					
Unit Totals	83	332	43	45	42	38	

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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
\$ 607,404.33	3,026	\$ 200.73

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Short Twr<40	GM MBF	2,217	\$ 193.19	\$ 428,302.23
Track Skidder	GM MBF	1,034	\$ 137.46	\$ 142,133.64
Shovel	GM MBF	109	\$ 144.06	\$ 15,702.54
Subtotal				\$ 586,138.41

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Directional Falling	MBF	303	\$ 14.64	\$ 4,435.92
Subtotal				\$ 4,435.92

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Yarder / Loader	25	\$ 150.00	\$ 3,750.00
Yarder / Loader	41	\$ 150.00	\$ 6,150.00
Skidder	63	\$ 110.00	\$ 6,930.00
Subtotal			\$ 16,830.00

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Other Allowances Costs

Total (16' MBF)

Total Other	Net	Cost / Net	Total Buy Out
Allowances Costs	Volume	Volume *	Cost
\$102,578.28	3,026	\$33.90	\$0.00

Fuels Treatment

Detail (16' MBF)

Cost Item	Total	Cost /	Buy	Buy Out
Cost Item	Cost	Net Vol *	Out	Cost
Hand Pile, Cvr - Level 2	\$ 61,215.00	\$ 20.23	N	\$ 0.00
Hand Pile Brn-Level 2	\$ 6,765.00	\$ 2.24	N	\$ 0.00
Lop and Scatter-Lvl 2	\$ 4,592.00	\$ 1.52	N	\$ 0.00
Subtotal	\$ 72,572.00	\$ 23.98		\$ 0.00

Misc

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Waterbar corridors	\$ 328.14	\$ 0.11	N	\$ 0.00
Subtotal	\$ 328.14	\$ 0.11		\$ 0.00

Other Costs

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Skid Location	\$ 328.14	\$ 0.11	N	\$ 0.00
Skid Construction	\$ 150.00	\$ 0.05	N	\$ 0.00
Landing Construction	\$ 2,025.00	\$ 0.67	N	\$ 0.00
Hand Seeding @ 17 lb seed per hour	\$ 1,980.00	\$ 0.65	N	\$ 0.00
Mulching (2 hours/5 bales)	\$ 5,400.00	\$ 1.78	N	\$ 0.00
Waterbar Skids	\$ 900.00	\$ 0.30	N	\$ 0.00
Additional Tractor Time	\$ 300.00	\$ 0.10	N	\$ 0.00
Equipment Washing	\$ 1,110.00	\$ 0.37	N	\$ 0.00
Equipment Washing	\$ 500.00	\$ 0.17	N	\$ 0.00
Ripping	\$ 3,735.00	\$ 1.23	N	\$ 0.00
Additional Tractor Time	\$ 600.00	\$ 0.20	N	\$ 0.00
Lift Tree	\$ 2,100.00	\$ 0.69	N	\$ 0.00
Additional Tractor Time	\$ 4,050.00	\$ 1.34	N	\$ 0.00
Landing Clean up	\$ 6,500.00	\$ 2.15	N	\$ 0.00
Subtotal	\$ 29,678.14	\$ 9.81		\$ 0.00

XXX

Detail (16' MBF)

Cost Item	Total	Cost /	Buy	Buy Out
	Cost	Net Vol *	Out	Cost
	\$ -	\$ -		\$ 0.00

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Medford Jumping Bean ORM07-TS-13-07

Subtotal	\$ -	\$ -	\$ 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 Jumping Bean ORM07-TS-13-07

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Consolidated Comments

General	

Yarding & Loading

STUMP TO TRUCK:

Short Twr <40: All cable units except 21-15

Track Skidder: All tractor units

Shovel: Line equipped shovel (Yoader), unit 21-15

OTHER YARD & LOADING COSTS:

Directional Falling: Estimate no more than 303 MBF of directional falling

ADDITIONAL MOVE-INS:

Yarder/Loader: YARDER: Estimate no more than 25 hours of move time @\$150/hour Yarder/Loader: LOADER: Estimate no more than 41 hours of move time @\$150/hour

Skidder: Estimate no more than 63 hours of move time @\$110/hour

Road Costs

(see Engineering Appraisal for details).

Transportation

Estimate one-way mileage of 30 miles

(see Transportation appendix for details).

Other Allowances

FUELS TREATMENT:

Hand Pile, Cvr - Level 2 (21-40 piles/acre): Estimate no more than 165 acres Hand Pile Brn - Level 2 (21-40 piles/acre): Estimate no more than 165 acres

Lop and Scatter- Lvl 2: Estimate no more than 112 acres

OTHER COSTS:

Skid Location: Estimate no more than two days for skid location
Skid Construction: Estimate no more than 10 acres of skid construction
Landing Construction: Estimate no more than 27 hours for landing construction

Hand Seeding: Estimate no more than 9 acres to hand seed

Mulching: Estimate no more than 9 acres of mulching (ripped skid and temp roads and landings)

Waterbar Skids: Estimate no more than 12 hours to waterbar skids and temp roads Additional Tractor Time: Estimate no more than 4 hours to block skid roads Equipment Washing: \$370/piece of equipment for yarder, loader, shovel Equipment Washing: \$250/piece of equipment for skidder, tractor

Ripping: Estimate no more than 9 acres of ripping (skid and temp roads and landings)

Additional tractor time: Estimate no more than 8 hours to construct/improve temp routes in unit 31-1B

Lift Tree: Estimate no more than 14 lift trees

Additional Tractor Time: Landing cat for Yoader unit 21-15, estimate needed for 54 hours

Landing Clean Up: Estimate no more than 65 hours

MISC:

Waterbar corridor: Hand waterbar cable corridors. Estimate no more than 18 hours

Prospectus

Scale for Payment Sale

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Sale: Jumping Bean Sale Date: 09-12-13 Prep. By : C Wedekind

Tract No: TS 13-07

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1) Road Use - Amortization: (1) \$599.00/3026 MBF = \$0.20/MBF 1/(R-3b)\$ (Tot Sale Vol)

2) Road Maintenance Obligation:

$$\frac{\$813.75}{(2.1)} + \frac{\$0.00}{(3.1)} + \frac{\$0.00}{(3.2)} + \frac{\$1538.29}{(5.1)} = \frac{\$2352.04}{(R-2)}$$

3) Other Maintenance Payments:

\$0.00

4). Purchaser Maintenance Allowances:

(5.2A) Move In	\$778.31
(5.2B) Culverts, Catch Basins, Downspouts	\$4431.52
(5.2C) Grading, Ditching	\$19360.85
(5.2D) Slide Removal and Slump Repair	\$132.10
(5.2E) Dust Palliative (Water)	\$5198.40
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00

Total (5.2) =
$$\frac{$29901.18}{(R-2 \& Ex. D)}$$

$$(2)+3)+4)$$
 Total = \$32,253.22/3026 MBF = $(30.66/MBF)$ 1/

Costs are estimates only and do not include Profit and Risk. 1/ Enter on Timber Sale Summary Form OSO 5420-1.

1) Road Use Fees - Amortization

R/W		Rd Use V	ol Roa	ad Use	
Number	Road Number	Fee x M	BF = Oblig	gation	
MU 25/5/	00 35-5-8.1	Sea. E	1.00	599	\$599.00

(1.1) Subtotal \$599.00

2) BLM Maintenance - Timber Haul 1/ 2/

Road Number	A Surf		Maint	Vol		Total
and Segment	N Type	Mi	x Fee x	MBF	=	Maint
34-5-32 (A)	A BST	0.64	0.65	140		\$58.24
35-5-21 (A)	A BST	1.67	0.65	696		\$755.51

(2.1) Subtotal \$813.75

- $\ensuremath{\text{1/}}$ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
- 2/ Include lump sum logging damage repair

3) Third Party Maintenance and Rockwear

		MAINT	CENANCE (3.1)	R	OCKWEAR	(3.2)	1/ 2/
Agrmnt	Road						
Number	Number	Mi x	Fee x MBF =	Maint	Fee x	MBF =	Rkwear
M-1166	35-5-8.1 Seg G	0.41			0.00	395	\$0.00
M-1166	35-5-6.2	0.31			0.00	341	\$0.00
M-1538	35-5-8.1 I	3.06			0.00	395	\$0.00
M-1538	35-5-8.1 BD&F	2.90			0.00	599	\$0.00
M-1538	35-5-6.1	0.25			0.00	204	\$0.00
MU ODF5/0	0035-5-8.1 Seg E	0.20			0.00	599	\$0.00
MU ODF5/0	0035-5-8.1 Seg E	0.20			0.00	1	\$0.00
(3.1)	Subtotal \$0.00	<u>)</u>	(3.2)	Subtotal	\$0.00	<u>)</u>	

- 1/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
- 2/ Include lump sum logging damage repair

4) Other Maintenance Payments - USFS or Others Perform Maintenance

Fee Fee Vol Maint Agency Road Number MBF/Mi x Mi = /MBF x Hauled = Cost

(4.1) Subtotal \$0.00

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)/1/2

Road No 1/	Α		RkWear	Vol	Total
and Segment	N	Mi 2	x Fee x	MBF	= RkWear
34-5-29 (A-B)	А	1.37	0.51	140	\$97.82
35-5-3.2	Α	0.49	0.51	406	\$101.46
35-5-3.3	Α	0.52	0.51	406	\$107.67
35-5-4 (B-F)	Α	1.79	0.51	406	\$370.64
35-5-4.1	Α	0.31	0.51	129	\$20.39
35-5-4.4	Α	0.19	0.51	141	\$13.66
35-5-9.1	Α	0.61	0.51	460	\$143.11
35-5-23.1 (A)	Α	0.09	0.51	76	\$3.49
35-5-26 (A)	Α	1.07	0.51	76	\$41.47
35-5-26.1 (A)	Α	1.70	0.51	405	\$351.14
35-5-26.2 (A)	Α	2.07	0.51	215	\$226.98
35-5-35 (A-B)	A	1.56	0.51	76	\$60.47

(5.1) Subtotal \$1538.29

- 1/ All surfaced roads have a rockwear fee which includes an allowance for rock haul
- 2/ Include lump sum logging damage repair

Purchaser Operational Maintenance

Cost allowances must be limited to work required under timber sale Exhibit D. If purchaser maint. such as dust control/damage repair is performed on BLM maint. roads, add appropriate mandatory Ex. D provisions. Note in prospectus.

Move In

	No	Move	e Cost/	Dist	Sub-
Equipment 1/	Units	x in	x 50 Mi	x Factor	= total
Motor Grader:	1	1	\$356.00	0.6727	\$239.48
Back Hoe:	1	1	\$356.00	0.6727	\$239.48
Loader:			\$356.00	0.59	\$0.00
Water Truck:	1	1	\$217.00	0.6727	\$145.98
Dump Truck 2/:	1	1	\$228.00	0.6727	\$153.38

(5.2A) Total \$778.31

1/ Equipment limited to that allowed in Exhibit D.

Culvert Maintenance - Including Catchbasins and Downpipes 1/

$$\frac{\text{Miles x Cost/Mi}}{16.41} = \frac{\text{Subtotal}}{270.05} + \frac{4431.52}{16.41}$$

(5.2B) Total \$4431.52

1/ Does not include purchase or installation of culvert pipe.

Grading (Includes Ditches and Shoulders) 1/

	Miles	X	Cost/Mi	X	Freq	=	Subtotal
Blade Road:	16.41		519.72		2	9	\$17057.21
Blade Ditch:	16.41		140.38		1		\$2303.64

(5.2C) Total \$19360.85

1/ Watch for double allowance on roadway preparation for dust palliative application.

Slide and Slough removal, Slump Repair (15 sta-yds. ea.) 1/

Type	No Slide	S	Hours		Equip		
Equipment	/Slumps	X	Each	х	Cost	=	Subtotal
Grader:	0		0		139.10		\$0.00
Loader:	0		0		91.63		\$0.00
Backhoe:	2		1		66.05		\$132.10

(5.2D) Total \$132.10

1/ Maximum haul is 15 sta. yds. Use grader or front end loader only.

Dust Palliative (Water) 1/

Spreading Hours

						No	F	req		Truck
Miles	/	MPH	=	Hours	х	Days	x /	'Day	=	Hours
16.41		15		1.1		30		0		0
Load & Haul	=			1.0		30		1		30
Return trip	=			1.0		30		1		30
							Total	Hour	s =	= 60

Truck Cost: $$86.64/Hr. \times 60.0 \text{ Hours} = 5198.40

(5.2E) Total \$5198.40

1/ Allow water for all BLM maintaintained non-oiled roads.

Surface Repair (Aggregate)

Production Cost:	0 C.Y. x \$0	0.00/C.Y.	=	\$0.00
Haul to Stockpile:	0 C.Y. x \$3	8.72/C.Y. x	0.00 Mi =	\$0.00
Stockpile:	0 C.Y. x \$1	L.26/C.Y.	=	\$0.00
Load from Stockpile:	0 C.Y. x \$1	L.39/C.Y.	=	\$0.00
Haul from Stockpile:	0 C.Y. x \$3	8.72/C.Y. x	0.00 Mi =	\$0.00
Process with Grader:	0 C.Y. x \$1	L.40/C.Y.	=	\$0.00

(5.2F) Total \$0.00

Other

```
Fallen Timber Cutting: 1/ 0.0 Hours x $0.00/Hour = $0.00
Brush Cutting/Tree Trimming: 2/ 0.0 Hours x $0.00/Hour = $0.00
Oil/Asphalt Materials: 3/
                                Lump Sum = $0.00
Signing for Dust Palliatives: 4/ Lump Sum = $0.00
                                Lump Sum = $0.00
                                Lump Sum = $0.00
                                Lump Sum = $0.00
```

(5.2G) Total \$0.00

- 1/ Exhibit D Subsection 3104.
- 2/ Exhibit D Subsection 3107. 3/ Exhibit D Subsection 3401.
- 4/ Exhibit D Subsection 3405b.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of All Roads and Projects T.S. Contract Name: Jumping Bean Tract No: TS 13-07 Sale Date: 09-12-13 Prepared by: C Wedekind Ph: 471-6633 Print Date: 7/23/2013 6:44:39 AM Construction: 0.00 sta
Improve: 0.00 sta Renov: 1531.73 sta Decom: 0.00 sta Temp: 45.41 sta
200 Clearing and Grubbing: 6.9 acres
300 Excavation: 12,263 cy
400 Drainage:
500 Renovation:
Surfacing:
1300 Geotextiles:
1400 Slope Protection:
1800 Soil Stabilization: 1.2 acres
1900 Cattleguards:
2100 RoadSide Brushing: 28.0 acres
2300 Engineering: 0.00 sta \$0.00
2400 Minor Concrete: \$0.00
2500 Gabions: \$0.00
8000 Miscellaneous: \$12,440.73
Mobilization: Const. \$5,577.69 Surf. \$2,571.85
Quarry Development:
Total: 3,026 mbf @ \$52.419/mbf = \$158,620.11
Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are COMPACTED in place cubic yards.

File T:\GP-GL\ENGINEERING\Timber Sales\2013 TS\Jumping Bean TS\Z_misc\Jumping Bean.mdb

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13	
Road Number: 34-5-29 (A-B) Road Name: Horse Creek Road Renovation: 1.37 mi 14 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 1.37 mi	\$3,095.24
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.3 acres	\$370.19
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$128.46 Surf. \$0.00	\$128.46
Quarry Development:	\$0.00
Total: Notes:	\$3,593.89

Road Number: 34-5-29 (A-B) Road Name: Horse Creek

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

\$0.00 Subtotal:

Section 500 Renovation:

Blading: $$519.72/mi \times 1.37 mi = 712.02 Pull Ditches: \$140.38/mi x 1.37 mi = \$192.32 Compaction: $$1329.15/mi \times 1.37 mi = $1,820.94$ Clean Culverts: $$270.05/mi \times 1.37 mi = 369.97

Subtotal: \$3,095.24

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal:

Subtotal:

Subtotal:

\$0.00

\$0.00

Section 1400 Slope Protection:

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattlequards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 1.33 acres = \$370.19

Subtotal: \$370.19

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

\$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.30% of total Costs = \$128.46

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$128.46 Road Number: 34-5-29 (A-B) Horse Creek Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,593.89

Roa	. Contract Name: Jumping Bean Sale Date: 09-12-13 d Number: 35-5-15 Road Name: Morris Creek Spur 1 d Renovation: 0.55 mi 17 ft Subgrade 3 ft ditch 5/1/2013	
200	Clearing and Grubbing: 0.0 acres	\$0.00
300	Excavation:	\$0.00
400	<pre>Drainage:</pre>	\$0.00
500	Renovation: Blading 0.55 mi	\$1,242.62
Sur	facing:	\$0.00
130	O Geotextiles:	\$0.00
140	O Slope Protection:	\$0.00
180	O Soil Stabilization: 0.0 acres	\$0.00
190	O Cattleguards:	\$0.00
210	O RoadSide Brushing: 0.5 acres	\$139.17
230	0 Engineering: 0.00 sta	\$0.00
240	0 Minor Concrete:	\$0.00
250	O Gabions:	\$0.00
800	0 Miscellaneous:	\$0.00
Mob	ilization: Const. \$51.22 Surf. \$0.00	\$51.22
Qua	rry Development:	\$0.00
Not	Total:	\$1,433.01

Notes:

Section 500 Renovation:

Section 2100 Roadside Brushing:

Road Nu	mber: 35	5-5-15 I	Road	Name:	Morris	Creek	Spur	1
---------	----------	----------	------	-------	--------	-------	------	---

Section 200 Clearing and Grubbing:		
	Subtotal:	\$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Blading: \$519.72/mi x 0.55 mi = \$285.85 Pull Ditches: \$140.38/mi x 0.55 mi = \$77.21 Compaction: \$1329.15/mi x 0.55 mi = \$731.03

Clean Culverts: \$270.05/mi x 0.55 mi = \$148.53

Subtotal: \$1,242.62

Surfacing:

Section 1300 Geotextiles:

Subtotal: \$0.00

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattlequards:

Subtotal: \$0.00

Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 0.50 acres = \$139.17

Subtotal: \$139.17

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:
Construction - 0.92% of total Costs = \$51.22

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$51.22

Road Number: 35-5-15 Morris Creek Spur 1 Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,433.01

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-15.1 Road Name: Queen Louse Road Renovation: 0.25 mi 14 ft Subgrade 3 ft ditch 5/1/201	3
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$564.83
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	\$55.67
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$23.00 Surf. \$0.00	\$23.00
Quarry Development:	\$0.00
Total: Notes:	\$643.49

Noda Gonger accross Northbridge		
Road Number: 35-5-15.1 Road Name: Queen Louse		
Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Blading: \$519.72/mi x 0.25 mi = \$129.93 Pull Ditches: \$140.38/mi x 0.25 mi = \$35.10 Compaction: \$1329.15/mi x 0.25 mi = \$332.29 Clean Culverts: \$270.05/mi x 0.25 mi = \$67.51	Subtotal:	\$564.83
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 0.20 acres = \$55.67	Subtotal:	\$55.67
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.41% of total Costs = \$23.00 Surfacing - 0.00% by rock volume = \$0.00	Subtotal	¢22 00

Subtotal: \$23.00

Road Number: 35-5-15.1 Queen Louse Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$643.49

Roa	C. Contract Name: Jumping Bean Sale Date: 09-12-13 dd Number: 35-5-15.2 Road Name: Upper Louse CK SP dd Renovation: 0.14 mi 14 ft Subgrade 3 ft ditch 5/1/2013	
200	Clearing and Grubbing: 0.0 acres	\$0.00
300	Excavation:	\$0.00
400	Drainage:	\$0.00
500	Renovation:	\$278.50
Sur	facing:	\$0.00
130	0 Geotextiles:	\$0.00
140	0 Slope Protection:	\$0.00
180	0 Soil Stabilization: 0.0 acres	\$0.00
190	0 Cattleguards:	\$0.00
210	0 RoadSide Brushing: 0.1 acres	\$27.83
230	0 Engineering: 0.00 sta	\$0.00
240	0 Minor Concrete:	\$0.00
250	0 Gabions:	\$0.00
800	0 Miscellaneous:	\$0.00
Mob	pilization: Const. \$11.36 Surf. \$0.00	\$11.36
Qua	rry Development:	\$0.00
N 7 - <i>⊢</i>	Total:	\$317.68
NOL	es:	

Notes:

Road Number: 35-5-15.2 Road Name: Upper Louse CK SP		
Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
<pre>Section 500 Renovation: Blading: \$519.72/mi x 0.14 mi = \$72.76 Pull Ditches: \$140.38/mi x 0.14 mi = \$19.65 Compaction: \$1329.15/mi x 0.14 mi = \$186.08</pre>		
	Subtotal:	\$278.50
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Brushing width Left: 4ft. Right: 4ft.		
RoadSide Brushing Light: \$278.34/acre x 0.10 acres = \$27.83	Subtotal:	\$27.83
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:		

Mobilization:

Construction - 0.20% of total Costs = \$11.36 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$11.36

Subtotal: \$0.00

Road Number: 35-5-15.2 Upper Louse CK SP Continued:

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$317.68

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-20 (A-B) Road Name: Phantom Walker Road Renovation: 1.43 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$3,230.80
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: 1.4 acres	\$389.68
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$134.20 Surf. \$0.00	\$134.20
Quarry Development:	\$0.00
Total:	\$3,754.68

Notes:

Poad	Mumbor.	35-5-20	/ A _ D \	Road Name:	Dhantom	Walker
Road	number.	35-5-20	(A-B)	Road Name.	Phantom	waiker

Road Namber 33 5 20 (A B) Road Name Interest water		
Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
<pre>Section 500 Renovation: Blading: \$519.72/mi x 1.43 mi = \$743.20 Pull Ditches: \$140.38/mi x 1.43 mi = \$200.74 Compaction: \$1329.15/mi x 1.43 mi = \$1,900.68 Clean Culverts: \$270.05/mi x 1.43 mi = \$386.17</pre>	Subtotal:	\$3,230.80
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 1.40 acres = \$389.68	Subtotal:	\$389.68
Section 2300 Engineering:	Subtotal:	·
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 2.41% of total Costs = \$134.20		

Construction - 2.41% of total Costs = \$134.20 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$134.20

Road Number: 35-5-20 (A-B) Phantom Walker Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,754.68

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-20.1 Road Name: Phantom Walker SP Road Renovation: 0.85 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
<pre>400 Drainage:</pre>	\$0.00
500 Renovation:	\$1,920.41
Surfacing:	\$400.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.8 acres	\$222.67
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$94.27 Surf. \$216.30	\$310.57
Quarry Development:	\$0.00
Total:	\$2,853.65

Notes:

Road Number: 35-5-20.1 Road Name: Phantom Walker SP

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $$519.72/mi \times 0.85 mi = 441.76 Pull Ditches: \$140.38/mi x 0.85 mi = \$119.32 Compaction: $$1329.15/mi \times 0.85 mi = $1,129.78$ Clean Culverts: $$270.05/mi \times 0.85 mi = 229.54

Subtotal: \$1,920.41

Section 700 Pitrun Quarry Name: commercial

Comment: Pit Run

Length TopW BotW Depth CWid Other #TOs Width F.W.L Taper 100cy

Rock Volume = 100cy

Production: $$2.60/cy \times 100cy = 260.00 Processing: $$1.40/cy \times 100cy = 140.00

Subtotal: \$400.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Section 1800 Soil Stabilization: Subtotal: \$0.00

Subtotal:

Subtotal:

Subtotal:

Subtotal:

Subtotal:

\$0.00

\$0.00

\$0.00

\$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 0.80 acres = \$222.67

\$222.67

Section 2300 Engineering:

Section 2400 Minor Concrete:

Section 2500 Gabions:

Section 8000 Miscellaneous: Subtotal: \$0.00 Road Number: 35-5-20.1 Phantom Walker SP Continued

Mobilization:

Construction - 1.69% of total Costs = \$94.27 Surfacing - 8.41% by rock volume = \$216.30

Subtotal: \$310.57

Quarry Development:

Based on 8.41% of total rock volume

Subtotal: \$0.00

Total: \$2,853.65

.S. Contract Name: Jumping Bean Sale Date: 09-12-13 oad Number: 35-5-21.1 (A-C) Road Name: Morris Creek ML oad Renovation: 2.17 mi 16 ft Subgrade 3 ft ditch 5/1/	/2013
00 Clearing and Grubbing: 0.0 acres	\$0.00
00 Excavation:	\$0.00
OO Drainage:	\$0.00
00 Renovation: Blading 2.17 mi	\$4,902.68
urfacing:	\$160.00
300 Geotextiles:	\$0.00
400 Slope Protection:	\$0.00
800 Soil Stabilization: 0.0 acres	\$0.00
900 Cattleguards:	\$0.00
100 RoadSide Brushing: 2.1 acres	\$584.51
300 Engineering: 0.00 sta	\$0.00
400 Minor Concrete:	\$0.00
500 Gabions:	\$0.00
000 Miscellaneous:	\$0.00
obilization: Const. \$209.33 Surf. \$86.52	\$295.85
uarry Development:	\$0.00
Tot	tal: \$5,943.05

Notes:

Road Number: 35-5-21.1 (A-C) Road Name: Morris Creek ML

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$519.72/mi x 2.17 mi = \$1,127.79 Pull Ditches: \$140.38/mi x 2.17 mi = \$304.62 Compaction: \$1329.15/mi x 2.17 mi = \$2,884.26 Clean Culverts: \$270.05/mi x 2.17 mi = \$586.01

Subtotal: \$4,902.68

Section 700 Pitrun Quarry Name: commercial

Comment: crushed rock 1" minus

Rock Volume = 40cy

Production: \$2.60/cy x 40cy = \$104.00 Processing: \$1.40/cy x 40cy = \$56.00

Subtotal: \$160.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 2.10 acres = \$584.51

Subtotal: \$584.51

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Road Number: 35-5-21.1 (A-C) Morris Creek ML Continued

Mobilization:

Construction - 3.75% of total Costs = \$209.33 Surfacing - 3.36% by rock volume = \$86.52

Subtotal: \$295.85

Quarry Development:

Based on 3.36% of total rock volume

Subtotal: \$0.00

Total: \$5,943.05

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-21.2 Road Name: Morris Creek A Road Renovation: 0.74 mi 12 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$838.88
500 Renovation: Blading 0.74 mi	\$1,671.88
Surfacing: Quarry Name: commercial 113 cy	\$452.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.7 acres	\$194.84
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,000.00
Mobilization: Const. \$154.12 Surf. \$244.42	\$398.54
Quarry Development:	\$0.00
Total:	\$4,556.14
Notes:	

Notes:

Road Number: 35-5-21.2 Road Name: Morris Creek A

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Aluminized MP 0.49 18 inch 16 qa 34 lf x 22.43/1f x 1.1 = \$838.88

Subtotal: \$838.88

Section 500 Renovation:

Blading: \$519.72/mi x 0.74 mi = \$384.59 Pull Ditches: \$140.38/mi x 0.74 mi = \$103.88 Compaction: \$1329.15/mi x 0.74 mi = \$983.57 Clean Culverts: \$270.05/mi x 0.74 mi = \$199.84

Subtotal: \$1,671.88

Section 700 Pitrun Quarry Name: commercial

Comment: rip rap

LengthTopWBotWDepthCWid#TOsWidthF.W.LTaperOther113cy

Rock Volume = 113cy

Production: \$2.60/cy x 113cy = \$293.80 Processing: \$1.40/cy x 113cy = \$158.20

Subtotal: \$452.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 0.70 acres = \$194.84

Subtotal: \$194.84

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Road Number: 35-5-21.2 Morris Creek A Continued

Section 8000 Miscellaneous:

water dip const

construct water dip Tractor D6 w/winch

 $2 EA \times $300.00/EA = 600.00

remove and replace earthen barrier Tractor D6 w/winch

 $1 EA \times $400.00/EA = 400.00

Subtotal: \$1,000.00

Mobilization:

Construction - 2.76% of total Costs = \$154.12

Surfacing - 9.50% by rock volume = \$244.42

Subtotal: \$398.54

Quarry Development:

Based on 9.50% of total rock volume

Subtotal: \$0.00

Total: \$4,556.14

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-22 Road Name: Morris Creek B Road Renovation: 0.65 mi 12 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 0.65 mi	\$1,468.55
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	\$167.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$60.63 Surf. \$0.00	\$60.63
Quarry Development:	\$0.00
Total:	\$1,696.18

Notes

Section 200 Clearing and Grubbing:

Subtotal:

\$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$519.72/mi x 0.65 mi = \$337.82 Pull Ditches: \$140.38/mi x 0.65 mi = \$91.25 Compaction: \$1329.15/mi x 0.65 mi = \$863.95 Clean Culverts: \$270.05/mi x 0.65 mi = \$175.53

Subtotal: \$1,468.55

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: $$278.34/acre \times 0.60 acres = 167.00

Subtotal: \$167.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.09% of total Costs = \$60.63 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$60.63

Road Number: 35-5-22 Morris Creek B Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,696.18

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-22.1 Road Name: Morris Creek C Road Renovation: 0.09 mi 12 ft Subgrade 2 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$203.34
Surfacing:	\$120.00
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	\$27.83
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$125.00
Mobilization: Const. \$17.65 Surf. \$64.89	\$82.54
Quarry Development:	\$0.00
Total:	\$558.71

Notes:

Road Number: 35-5-22.1 Road Name: Morris Creek C

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

\$0.00 Subtotal:

Section 500 Renovation:

Blading: $$519.72/mi \times 0.09 mi = 46.77 Pull Ditches: \$140.38/mi x 0.09 mi = \$12.63 Compaction: $$1329.15/mi \times 0.09 mi = 119.62 Clean Culverts: $$270.05/mi \times 0.09 mi = 24.30

Subtotal: \$203.34

Section 700 Pitrun Quarry Name: commercial

Comment: pit run

Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 30cy

Rock Volume = 30cy

Production: $$2.60/cy \times 30cy = 78.00 Processing: $$1.40/cy \times 30cy = 42.00

Subtotal: \$120.00

Section 1300 Geotextiles:

Subtotal: \$0.00

\$0.00

\$27.83

\$0.00

\$0.00

Subtotal:

Subtotal:

Subtotal:

Section 1400 Slope Protection:

Section 1800 Soil Stabilization: Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 0.10 acres = \$27.83

Section 2300 Engineering:

Subtotal:

Section 2400 Minor Concrete:

Section 2500 Gabions: Subtotal: \$0.00 Road Number: 35-5-22.1 Morris Creek C Continued

Section 8000 Miscellaneous:

construct water bar

reconstruct water bar Tractor D6 w/winch

1 EA x \$125.00/EA = \$125.00

Subtotal: \$125.00

Mobilization:

Construction - 0.32% of total Costs = \$17.65

Surfacing - 2.52% by rock volume = \$64.89

Subtotal: \$82.54

Quarry Development:

Based on 2.52% of total rock volume

Subtotal: \$0.00

Total: \$558.71

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-23.1 (A) Road Name: N. Fork Louse Ck SP Road Renovation: 0.09 mi 12 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$203.34
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	\$55.67
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$9.60 Surf. \$0.00	\$9.60
Quarry Development:	\$0.00
Total:	\$268.61
MOLED.	

Notes:

nodd Gonger doeron werneneee		
Road Number: 35-5-23.1 (A) Road Name: N. Fork Louse Ck SP		
Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Blading: \$519.72/mi x 0.09 mi = \$46.77 Pull Ditches: \$140.38/mi x 0.09 mi = \$12.63 Compaction: \$1329.15/mi x 0.09 mi = \$119.62 Clean Culverts: \$270.05/mi x 0.09 mi = \$24.30	Subtotal:	\$203.34
Surfacing:	Subcocal.	\$203 . 34
Surfacing.	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
<pre>Section 2100 Roadside Brushing: RoadSide Brushing Medium: \$556.68/acre x 0.10 acres = \$55.67</pre>	Subtotal:	\$55.67
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.17% of total Costs = \$9.60 Surfacing - 0.00% by rock volume = \$0.00	Subtotal:	\$9.60
Quarry Development: Based on 0.00% of total rock volume	Subtotal:	\$0.00

Total: \$268.61

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-25.5 Road Name: Old Baldy Rd Spur Road Renovation: 0.35 mi 12 ft Subgrade 3 ft ditch	5/1/2013	
200 Clearing and Grubbing: 0.0 acres		\$0.00
300 Excavation:		\$0.00
<pre>400 Drainage:</pre>		\$0.00
500 Renovation:		\$647.10
Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing: 0.3 acres		\$334.01
2300 Engineering: 0.00 sta		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$36.37 Surf. \$0.00		\$36.37
Quarry Development:		\$0.00
Not og :	Total:	\$1,017.48

Notes:

Road Number:	35-5-25.5	Road Name:	Old	Baldy	Rd	Spur	
Soution 200							

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
<pre>Section 500 Renovation: Blading: \$519.72/mi x 0.35 mi = \$181.90 Compaction: \$1329.15/mi x 0.35 mi = \$465.20</pre>	Subtotal:	\$647.10
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
<pre>Section 2100 Roadside Brushing: RoadSide Brushing Heavy: \$1113.36/acre x 0.30 acres = \$334.01</pre>	Subtotal:	\$334.01
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.65% of total Costs = \$36.37 Surfacing - 0.00% by rock volume = \$0.00	Subtotal:	\$36.37
Quarry Development: Based on 0.00% of total rock volume		40.00

Subtotal: \$0.00

Total: \$1,017.48

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-26 (A) Road Name: Louse Mtn Road Renovation: 1.07 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$2,417.45
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.0 acres	\$278.34
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$99.93 Surf. \$0.00	\$99.93
Quarry Development:	\$0.00
Total:	\$2,795.72
NOTES.	

Notes:

Road Number:	35-5-26	(A)	Road	Name:	Louse	Mtn	
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Section 200 Clearing and Grubbing:		
	Subtotal:	\$0.00

Section 300 Excavation:

Subtotal:

Subtotal:

\$0.00

\$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$519.72/mi x 1.07 mi = \$556.10 Pull Ditches: \$140.38/mi x 1.07 mi = \$150.21 Compaction: \$1329.15/mi x 1.07 mi = \$1,422.19 Clean Culverts: \$270.05/mi x 1.07 mi = \$288.95

Subtotal: \$2,417.45

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Section 1800 Soil Stabilization:

Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 1.00 acres = \$278.34

Subtotal: \$278.34

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Mobilization:

Construction - 1.79% of total Costs = \$99.93 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$99.93

Road Number: 35-5-26 (A) Louse Mtn Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$2,795.72

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-26.1 (A-B) Road Name: N Fork Louse Ck Road Renovation: 3.38 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 3.38 mi	\$7,636.43
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 3.3 acres	\$918.52
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$317.12 Surf. \$0.00	\$317.12
Quarry Development:	\$0.00
Total: Notes:	\$8,872.07

Road Number: 35-5-26.1 (A-B) Road Name: N Fork Louse Ck

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

\$0.00 Subtotal:

Section 500 Renovation:

Blading: $$519.72/mi \times 3.38 mi = $1,756.65$ Pull Ditches: $$140.38/mi \times 3.38 mi = 474.48 Compaction: $$1329.15/mi \times 3.38 mi = $4,492.53$ Clean Culverts: \$270.05/mi x 3.38 mi = \$912.77

Subtotal: \$7,636.43

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

\$0.00

Subtotal:

Subtotal:

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattlequards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 3.30 acres = \$918.52

Subtotal: \$918.52

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

\$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 5.69% of total Costs = \$317.12

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$317.12 Road Number: 35-5-26.1 (A-B) N Fork Louse Ck Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$8,872.07

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-26.2 (A-B) Road Name: Jones Creek Road Renovation: 2.90 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$6,551.97
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: 2.8 acres	\$779.35
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$271.76 Surf. \$0.00	\$271.76
Quarry Development:	\$0.00
Total:	\$7,603.08

Notes:

Road Number: 35-5-26.2 (A-B) Road Name: Jones Creek

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

\$0.00 Subtotal:

Section 500 Renovation:

Blading: $$519.72/mi \times 2.90 mi = $1,507.19$ Pull Ditches: \$140.38/mi x 2.90 mi = \$407.10 Compaction: $$1329.15/mi \times 2.90 mi = $3,854.54$ Clean Culverts: $$270.05/mi \times 2.90 mi = 783.15

Subtotal: \$6,551.97

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattlequards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 2.80 acres = \$779.35

Subtotal: \$779.35

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

\$0.00

Subtotal:

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 4.87% of total Costs = \$271.76

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$271.76 Road Number: 35-5-26.2 (A-B) Jones Creek Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$7,603.08

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-3.2 Road Name: Orfino Gulch Road Renovation: 0.49 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$1,107.06
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.5 acres	\$139.17
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$46.20 Surf. \$0.00	\$46.20
Quarry Development:	\$0.00
Total:	\$1,292.42

Notes:

Road Number: 35-5-3.2 Road Name: Orfino Gulch

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$519.72/mi x 0.49 mi = \$254.66 Pull Ditches: \$140.38/mi x 0.49 mi = \$68.79 Compaction: \$1329.15/mi x 0.49 mi = \$651.28 Clean Culverts: \$270.05/mi x 0.49 mi = \$132.32

Subtotal: \$1,107.06

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 0.50 acres = \$139.17

Subtotal:

Section 2300 Engineering:

\$139.17

\$0.00

Subtotal:

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.83% of total Costs = \$46.20 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$46.20

Road Number: 35-5-3.2 Orfino Gulch Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,292.42

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-3.3 Road Name: Orfino Gulch SP Road Renovation: 0.92 mi 14 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$2,078.56
Surfacing:	\$320.00
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	\$250.51
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$775.00
Mobilization: Const. \$126.92 Surf. \$173.04	\$299.97
Quarry Development:	\$0.00
Total:	\$3,724.03

Notes:

Road Number: 35-5-3.3 Road Name: Orfino Gulch SP

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$519.72/mi x 0.92 mi = \$478.14 Pull Ditches: \$140.38/mi x 0.92 mi = \$129.15 Compaction: \$1329.15/mi x 0.92 mi = \$1,222.82 Clean Culverts: \$270.05/mi x 0.92 mi = \$248.45

Subtotal: \$2,078.56

Section 700 Pitrun Quarry Name: commercial

Comment: rip rap

LengthTopWBotWDepthCWid#TOsWidthF.W.LTaperOther80cy

Rock Volume = 80cy

Production: $$2.60/\text{cy} \times 80\text{cy} = 208.00 Processing: $$1.40/\text{cy} \times 80\text{cy} = 112.00

Subtotal: \$320.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattlequards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 0.90 acres = \$250.51

Subtotal: \$250.51

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Road Number: 35-5-3.3 Orfino Gulch SP Continued

Section 8000 Miscellaneous:

water dip

construct water dip tractor D6 w/winch

2 ea x \$300.00/ea = \$600.00

water dip reconstruct Tractor D6 w/winch

1 ea x \$175.00/ea = \$175.00

Subtotal: \$775.00

Mobilization:

Construction - 2.28% of total Costs = \$126.92

Surfacing - 6.73% by rock volume = \$173.04

Subtotal: \$299.97

Quarry Development:

Based on 6.73% of total rock volume

Subtotal: \$0.00

Total: \$3,724.03

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-35 (A-B) Road Name: Old Baldy Road Road Renovation: 1.56 mi 12 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$3,524.51
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.5 acres	\$417.51
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$146.12 Surf. \$0.00	\$146.12
Quarry Development:	\$0.00
Total:	\$4,088.14
MOLEO.	

Notes:

Road Number:	35-5-35	(A-B)	Road Name:	Old	Baldy R	load
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Section 200 Clearing and Grubbing:

Section 300 Excavation:

Subtotal:

Subtotal:

Subtotal:

Subtotal:

\$0.00

\$0.00

\$0.00

Section 400 Drainage: \$0.00 Subtotal:

Section 500 Renovation:

Blading: $$519.72/mi \times 1.56 mi = 810.76 Pull Ditches: \$140.38/mi x 1.56 mi = \$218.99 Compaction: $$1329.15/mi \times 1.56 mi = $2,073.47$ Clean Culverts: $$270.05/mi \times 1.56 mi = 421.28

Subtotal: \$3,524.51

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Section 1400 Slope Protection:

\$0.00 Subtotal:

Section 1800 Soil Stabilization:

\$0.00

Section 1900 Cattlequards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 1.50 acres = \$417.51

Subtotal: \$417.51

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.62% of total Costs = \$146.12

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$146.12 Road Number: 35-5-35 (A-B) Old Baldy Road Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$4,088.14

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-4 (B-F) Road Name: Orofino Road Renovation: 1.79 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$148.50
500 Renovation: Blading 1.79 mi	\$4,044.15
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: 1.7 acres	\$473.18
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$172.95 Surf. \$0.00	\$172.95
Quarry Development:	\$0.00
Total:	\$4,838.78

Road Number: 35-5-4 (B-F) Road Name: Orofino

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Half Round MP 1.05 18 inch 10 ea x \$14.85/ea = \$148.50

Subtotal: \$148.50

Section 500 Renovation:

Blading: \$519.72/mi x 1.79 mi = \$930.30 Pull Ditches: \$140.38/mi x 1.79 mi = \$251.28 Compaction: \$1329.15/mi x 1.79 mi = \$2,379.18 Clean Culverts: \$270.05/mi x 1.79 mi = \$483.39

Subtotal: \$4,044.15

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 1.70 acres = \$473.18

Subtotal: \$473.18

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 3.10% of total Costs = \$172.95

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$172.95

Road Number: 35-5-4 (B-F) Orofino Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$4,838.78

T.S. Contract Name: Jumping Bean Sale I Road Number: 35-5-4.1 Road Name: Orofin Road Renovation: 0.31 mi 12 ft Subgr	no Gulch SP	
200 Clearing and Grubbing: 0.0 acres Clearing:0.0 sta Grubbing:0.0 a Slash Treatment:0.0 acres		\$0.00
300 Excavation:		\$0.00
<pre>400 Drainage:</pre>		\$0.00
500 Renovation:		\$700.38
Surfacing:		\$0.00
1300 Geotextiles:		\$0.00
1400 Slope Protection:		\$0.00
1800 Soil Stabilization: 0.0 acres		\$0.00
1900 Cattleguards:		\$0.00
2100 RoadSide Brushing: 0.3 acres		\$83.50
2300 Engineering: 0.00 sta		\$0.00
2400 Minor Concrete:		\$0.00
2500 Gabions:		\$0.00
8000 Miscellaneous:		\$0.00
Mobilization: Const. \$29.06 Surf. \$0.00)	\$29.06
Quarry Development:		\$0.00
Not og '	Total:	\$812.94
Notes:		

Notes:

Section 1800 Soil Stabilization:

	Road	Number:	35-5-4.1	Road Name:	Orofino	Gulch SF
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Section 200 Clearing and Grubbing:		
	Subtotal:	\$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:
Blading: \$519.72/mi x 0.31 mi = \$161.11

Pull Ditches: $$140.38/mi \times 0.31 mi = 43.52 Compaction: $$1329.15/mi \times 0.31 mi = 412.04 Clean Culverts: $$270.05/mi \times 0.31 mi = 83.72

Subtotal: \$700.38

Surfacing:
Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.
RoadSide Brushing Light: \$278.34/acre x 0.30 acres = \$83.50
Subtotal: \$83.

Subtotal: \$83.50 Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 0.52% of total Costs = \$29.06

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$29.06

Road Number: 35-5-4.1 Orofino Gulch SP Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$812.94

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-4.3 Road Name: no name Road Renovation: 0.30 mi 14 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation: 35 cy	\$422.52
400 Drainage:	\$0.00
500 Renovation: Blading 0.30 mi	\$556.06
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.3 acres	\$83.50
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$375.00
Mobilization: Const. \$53.27 Surf. \$0.00	\$53.27
Quarry Development:	\$0.00
Total:	\$1,490.36
Notes:	

Notes:

Road Number: 35-5-4.3 Road Name: no name

Section 200 Clearing and Grubbing:

Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation: Comment: Construct borrow material ramp over Natural Gas line Excavation - Common: \$1.72/cy x 35 cy = \$60.20 Layer Embankment - Common: \$0.24/cy x 35 cy = \$8.40 Slope Rounding: \$0.26/lf x 30 lf = \$7.80 Compaction - Common: \$0.76/cy x 35 cy = \$26.60 End Hauling - 100 to 500 ft: \$0.14/sta-yd x 37 sta-yd = \$5.18 Remove borrow material ramp Excavator 215B (1 CY) 2 hr x \$82.89/hr = \$165.78 Dump truck 10 cy 2 hr x \$74.28/hr = \$148.56		
Dump cluck to cy 2 m x \$74.20/m - \$140.50	Subtotal:	\$422.52
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Blading: \$519.72/mi x 0.30 mi = \$155.92 Pull Ditches: \$140.38/mi x 0.01 mi = \$1.40 Compaction: \$1329.15/mi x 0.30 mi = \$398.75	Subtotal:	\$556.06
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 0.30 acres = \$83.50	Subtotal:	\$83.50
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00

Road Number: 35-5-4.3 no name Continued

Section 8000 Miscellaneous:

water bar

Water bar Tractor D6 w/winch 3 EA x \$125.00/EA = \$375.00

Subtotal: \$375.00

Mobilization:

Construction - 0.96% of total Costs = \$53.27 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$53.27

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,490.36

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-4.4 Road Name: No Name Road Renovation: 0.19 mi 12 ft Subgrade 2 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 0.19 mi	\$351.29
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	\$55.67
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$15.09 Surf. \$0.00	\$15.09
Quarry Development:	\$0.00
Total: Notes:	\$422.04

Road Constituction Worksheet		
Road Number: 35-5-4.4 Road Name: No Name		
Section 200 Clearing and Grubbing:	Subtotal:	\$0.00
Section 300 Excavation:	Subtotal:	\$0.00
Section 400 Drainage:	Subtotal:	\$0.00
Section 500 Renovation: Blading: \$519.72/mi x 0.19 mi = \$98.75 Compaction: \$1329.15/mi x 0.19 mi = \$252.54	Subtotal:	\$351.29
Surfacing:	Subtotal:	\$0.00
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 0.20 acres = \$55.67	Subtotal:	\$55.67
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 0.27% of total Costs = \$15.09 Surfacing - 0.00% by rock volume = \$0.00	Subtotal:	\$15.09
Quarry Development: Based on 0.00% of total rock volume	Subtotal:	\$0.00

Total: \$422.04

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-6.1 (A-B) Road Name: No Name Road Renovation: 1.00 mi 12 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$740.19
500 Renovation: Blading 1.00 mi	\$2,536.48
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.0 acres	\$278.34
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$131.78 Surf. \$0.00	\$131.78
Quarry Development:	\$0.00
Total: Notes:	\$3,686.79

Road Number: 35-5-6.1 (A-B) Road Name: No Name

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Aluminized MP 0.25 18 inch 16 ga 30 lf x 22.43/lf x 1.1 = \$740.19

Subtotal: \$740.19

Section 500 Renovation:

Blading: $$519.72/mi \times 1.00 mi = 519.72

Scarification: \$866.20/mi x 0.32 mi = \$277.18 Pull Ditches: \$140.38/mi x 1.00 mi = \$140.38 Compaction: \$1329.15/mi x 1.00 mi = \$1,329.15 Clean Culverts: \$270.05/mi x 1.00 mi = \$270.05

Subtotal: \$2,536.48

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 1.00 acres = \$278.34

Subtotal: \$278.34

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.36% of total Costs = \$131.78

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$131.78

Road Number: 35-5-6.1 (A-B) No Name Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,686.79

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-6.2 Road Name: No Name Road Renovation: 0.31 mi 12 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 0.31 mi	\$700.38
Surfacing:	\$160.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.3 acres	\$83.50
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$550.00
Mobilization: Const. \$55.38 Surf. \$86.52	\$141.90
Quarry Development:	\$0.00
Total:	\$1,635.78

Notes:

Road Number: 35-5-6.2 Road Name: No Name

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$519.72/mi x 0.31 mi = \$161.11 Pull Ditches: \$140.38/mi x 0.31 mi = \$43.52 Compaction: \$1329.15/mi x 0.31 mi = \$412.04 Clean Culverts: \$270.05/mi x 0.31 mi = \$83.72

Subtotal: \$700.38

Section 700 Pitrun Quarry Name: commercial

Comment: rip rap

LengthTopWBotWDepthCWid#TOsWidthF.W.LTaperOther40cy

Rock Volume = 40cy

Production: \$2.60/cy x 40cy = \$104.00 Processing: \$1.40/cy x 40cy = \$56.00

Subtotal: \$160.00

Section 1300 Geotextiles:

Subtotal: \$0.00

\$0.00

\$83.50

\$0.00

Subtotal:

Subtotal:

Subtotal:

Section 1400 Slope Protection:

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 0.30 acres = \$83.50

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Section 2500 Gabions:

Subtotal: \$0.00

Road Number: 35-5-6.2 No Name Continued

Section 8000 Miscellaneous:

water bar

reconstruct water bar Tractor D6 w/winch

 $3 EA \times $125.00/EA = 375.00

reconstruct water dip Tractor D6 w/winch

 $1 EA \times $175.00/EA = 175.00

Subtotal: \$550.00

Mobilization:

Construction - 0.99% of total Costs = \$55.38

Surfacing - 3.36% by rock volume = \$86.52

Subtotal: \$141.90

Quarry Development:

Based on 3.36% of total rock volume

Subtotal: \$0.00

Total: \$1,635.78

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-8.1 (A-J) Road Name: Walker Mtn SP Road Renovation: 4.18 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$12,476.02
500 Renovation:	\$9,443.87
Surfacing:	\$1,200.40
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 4.1 acres	\$1,141.19
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$2,750.00
Mobilization: Const. \$1,001.27 Surf. \$1,613.62	\$2,614.90
Quarry Development:	\$0.00
Total: Notes:	\$29,626.39

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: 35-5-8.1 (A-J) Road Name: Walker Mtn SP

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Aluminized MP 0.24,1.41, 2.00..24 inch 16 ga 236 lf x \$28.67/lf x 1.1 = \$7,442.73 Aluminized MP 0.36,0.91,1.03...18 inch 16 ga 204 lf x \$22.43/lf x 1.1 = \$5,033.29 Subtotal: \$12,476.02

Section 500 Renovation:

Blading: \$519.72/mi x 4.18 mi = \$2,172.43 Pull Ditches: \$140.38/mi x 4.18 mi = \$586.79 Compaction: \$1329.15/mi x 4.18 mi = \$5,555.85 Clean Culverts: \$270.05/mi x 4.18 mi = \$1,128.81

Subtotal: \$9,443.87

Section 700 Pitrun Quarry Name: borrow

Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 60cy

Rock Volume = 60cy

Production: $$2.60/\text{cy} \times 60\text{cy} = 156.00 Processing: $$1.40/\text{cy} \times 60\text{cy} = 84.00

riprap Quarry Name: rip rap

Comment: rip rap

<u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 686cy

Rock Volume = 686cy

Processing: $$1.40/cy \times 686cy = 960.40

Subtotal: \$1,200.40

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$278.34/acre x 4.10 acres = \$1,141.19

Subtotal: \$1,141.19

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Road Number: 35-5-8.1 (A-J) Walker Mtn SP Continued

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Water dips

reconstruct water dips Tractor D6 w/winch

1 ea x \$125.00/ea = \$125.00

construct water dips Tractor D6 w/winch

15 ea $\times $175.00/ea = $2,625.00$

Subtotal: \$2,750.00

Mobilization:

Construction - 17.95% of total Costs = \$1,001.27

Surfacing - 62.74% by rock volume = \$1,613.62

Subtotal: \$2,614.90

Quarry Development:

Based on 62.74% of total rock volume

Subtotal: \$0.00

Total: \$29,626.39

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-9 (A) Road Name: Walker Mtn Road Renovation: 0.61 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$2,149.71
500 Renovation: Blading 0.61 mi	\$1,378.17
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	\$167.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$136.96 Surf. \$0.00	\$136.96
Quarry Development:	\$0.00
Total: Notes:	\$3,831.85

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: 35-5-9 (A) Road Name: Walker Mtn

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Aluminized MP 0.49 18 inch 16 ga 36 lf x \$22.43/lf x 1.1 = \$888.23 Aluminized MP 0.53 24 inch 16 ga 40 lf x \$28.67/lf x 1.1 = \$1,261.48

Subtotal: \$2,149.71

Section 500 Renovation:

Blading: \$519.72/mi x 0.61 mi = \$317.03 Pull Ditches: \$140.38/mi x 0.61 mi = \$85.63 Compaction: \$1329.15/mi x 0.61 mi = \$810.78 Clean Culverts: \$270.05/mi x 0.61 mi = \$164.73

Subtotal: \$1,378.17

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: $$278.34/acre \times 0.60 acres = 167.00

Subtotal: \$167.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.46% of total Costs = \$136.96

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$136.96

Road Number: 35-5-9 (A) Walker Mtn Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,831.85

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-9.1 Road Name: Orofino Gulch Road Renovation: 0.61 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$1,378.17
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	\$167.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$57.28 Surf. \$0.00	\$57.28
Quarry Development:	\$0.00
Total:	\$1,602.45

Notes:

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Section 500 Renovation:

Section 1800 Soil Stabilization:

Road	Number:	35-5-9.1	Road	Name:	Orofino	Gulch

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

70.0

Blading: \$519.72/mi x 0.61 mi = \$317.03 Pull Ditches: \$140.38/mi x 0.61 mi = \$85.63

Compaction: $$1329.15/mi \times 0.61 mi = 85.63 Clean Culverts: $$270.05/mi \times 0.61 mi = 164.73

Subtotal: \$1,378.17

Surfacing:
Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

\$0.00

Subtotal:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 0.60 acres = \$167.00

Subtotal: \$167.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Subcocar. 50.00

Construction - 1.03% of total Costs = \$57.28

Mobilization:

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$57.28

Road Number: 35-5-9.1 Orofino Gulch Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,602.45

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: 35-5-9.2 (A-B) Road Name: Cove Creek Road Renovation: 0.71 mi 16 ft Subgrade 3 ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
<pre>400 Drainage:</pre>	\$0.00
500 Renovation:	\$1,235.10
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.7 acres	\$197.62
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$53.11 Surf. \$0.00	\$53.11
Quarry Development:	\$0.00
Total:	\$1,485.83
TACLED.	

Notes:

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road N	Number:	35-5-9.	2 (A-B)	Road Na	ame: Cove	Creek
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Section 200 Clearing and Grubbing:		
	Subtotal:	\$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Subtotal: \$0.00

Section 500 Renovation:

Comment: no blading chipseal
Pull Ditches: \$140.38/mi x 0.71 mi = \$99.67

Compaction: \$1329.15/mi x 0.71 mi = \$943.70 Clean Culverts: \$270.05/mi x 0.71 mi = \$191.74

Subtotal: \$1,235.10

Surfacing:
Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 4ft. Right: 4ft. RoadSide Brushing Light: \$278.34/acre x 0.71 acres = \$197.62

Subtotal: \$197.62

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:
 Construction - 0.95% of total Costs = \$53.11

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$53.11

Road Number: 35-5-9.2 (A-B) Cove Creek Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,485.83

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 1 Road Name:	
Temporary Road: 0.09 mi 12 ft Subgrade ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.1 acres	\$3,508.05
300 Excavation: 1,757 cy	\$3,343.54
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$76.48
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$862.75
Mobilization: Const. \$288.79 Surf. \$0.00	\$288.79
Quarry Development:	\$0.00
Total: Notes:	\$8,079.62

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 1 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Medium: \$30.57/sta x 4.00 sta = \$122.28

Grubbing - Medium: $$822.91/acre \times 4.00 acres = $3,291.64$

Scatter: \$724.08/acre x 0.13 acres = \$94.13

Subtotal: \$3,508.05

Section 300 Excavation:

Excavation - Common: $$1.72/\text{cy} \times 1,757 \text{ cy} = $3,022.04$

Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 4.0 sta = \$75.52

End Hauling - 100 to 500 ft: $$0.14/sta-yd \times 1,757 sta-yd = 245.98

Subtotal: \$3,343.54

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$588.34/acre x 0.13 acres = \$76.48

Includes Small Quantity Factor of 1.60

Subtotal: \$76.48

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Decommission Temp Route

Tractor D6 w/winch 1 hr x \$124.51/hr = \$124.51

excavator 225 (1.5 CY) 2 hr x \$94.61/hr = \$189.22

Construct water bar

Tractor D6 w/winch 2 ea x \$124.51/ea = \$249.02

Construct Barricade

Tractor D6 w/winch 1 ea x \$300.00/ea = \$300.00

Subtotal: \$862.75

Road Number: temp 1 Continued

Mobilization:

Construction - 5.18% of total Costs = \$288.79

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$288.79

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$8,079.62

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 2 Road Name: Temporary Road: 0.23 mi 12 ft Subgrade ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.3 acres	\$5,227.39
300 Excavation: 4,492 cy	\$8,584.32
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$194.15
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,616.19
Mobilization: Const. \$579.08 Surf. \$0.00	\$579.08
Quarry Development:	\$0.00
Total:	\$16,201.14

Notes:

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 2 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: \$15.28/sta x 12.14 sta = \$185.50

Grubbing - Light: \$395.63/acre x 12.14 acres = \$4,802.95

Scatter: $$724.08/acre \times 0.33 acres = 238.95

Subtotal: \$5,227.39

Section 300 Excavation:

Excavation - Common: $$1.72/\text{cy} \times 4,492 \text{ cy} = $7,726.24$

Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 12.1 sta = \$229.20 End Hauling - 100 to 500 ft: $$0.14/\text{sta-yd} \times 4,492 \text{ sta-yd} = 628.88

Subtotal: \$8,584.32

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$588.34/acre x 0.33 acres = \$194.15

Includes Small Quantity Factor of 1.60

Subtotal: \$194.15

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Decommission Temp Route

Tractor D6 w/winch 3 hr x \$124.51/hr = \$373.53

Excavator 225 (1.5 cy) 6 hr x \$94.61/hr = \$567.66

Construct water bar

Tractor D6 w/winch 3 ea x \$125.00/ea = \$375.00

Construct Barricade

Tractor D6 w/winch 1 ea x \$300.00/ea = \$300.00

Subtotal: \$1,616.19

Road Number: temp 2 Continued

Mobilization:

Construction - 10.38% of total Costs = \$579.08

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$579.08

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$16,201.14

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 3 Road Name:	
Temporary Road: 0.11 mi 12 ft Subgrade ft ditch 5/1/2013	
200 Clearing and Grubbing: 5.8 acres	\$6,594.29
300 Excavation: 2,150 cy	\$4,108.69
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing: Quarry Name: commercial 40 cy	\$160.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.2 acres	\$94.13
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$863.73
Mobilization: Const. \$438.18 Surf. \$86.52	\$524.70
Quarry Development:	\$0.00
Total: Notes:	\$12,345.55

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 3 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: $$15.28/sta \times 5.81 sta = 88.78

Grubbing - Light: $$395.63/acre \times 5.81 acres = $2,298.61$

Scatter: $$724.08/acre \times 5.81 acres = $4,206.90$

Subtotal: \$6,594.29

Section 300 Excavation:

Excavation - Common: $$1.72/\text{cy} \times 2,150 \text{ cy} = $3,698.00$

Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 5.8 sta = \$109.69 End Hauling - 100 to 500 ft: $$0.14/sta-yd \times 2,150 sta-yd = 301.00

Subtotal: \$4,108.69

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Section 700 Pitrun Quarry Name: commercial

Comment: rip rap for stream bed

Other Length TopW BotW Depth CWid #TOs Width F.W.L Taper 40cy

Rock Volume = 40cy

Production: $$2.60/cy \times 40cy = 104.00 Processing: $$1.40/cy \times 40cy = 56.00

Subtotal: \$160.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$588.34/acre \times 0.16 acres = 94.13

Includes Small Quantity Factor of 1.60

Subtotal: \$94.13

Section 1900 Cattlequards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00 Road Number: temp 3 Continued

Section 8000 Miscellaneous:

Decommission Temp Route

Tractor D6 w/winch 1 hr x \$124.51/hr = \$124.51 Excavator 225(1.5 cy) 2 hr x \$94.61/hr = \$189.22

Construct waterbar

Tractor D6 w/winch 2 ea x \$125.00/ea = \$250.00

Construct Barrier

Tractor D6 w/winch 1 Ea x \$300.00/Ea = \$300.00

Subtotal: \$863.73

Mobilization:

Construction - 7.86% of total Costs = \$438.18

Surfacing - 3.36% by rock volume = \$86.52

Subtotal: \$524.70

Quarry Development:

Based on 3.36% of total rock volume

Subtotal: \$0.00

Total: \$12,345.55

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 4 Road Name:	
Temporary Road: 0.07 mi 12 ft Subgrade ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.1 acres	\$1,592.78
300 Excavation: 74 cy	\$207.50
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$58.83
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,038.24
Mobilization: Const. \$107.40 Surf. \$0.00	\$107.40
Quarry Development:	\$0.00
Total: Notes:	\$3,004.74

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 4 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: \$15.28/sta x 3.70 sta = \$56.54

Grubbing - Light: \$395.63/acre x 3.70 acres = \$1,463.83

Scatter: \$724.08/acre x 0.10 acres = \$72.41

Subtotal: \$1,592.78

Section 300 Excavation:

Excavation - Common: $$1.72/cy \times 74 cy = 127.28

Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 3.7 sta = \$69.86

End Hauling - 100 to 500 ft: $$0.14/sta-yd \times 74 sta-yd = 10.36

Subtotal: \$207.50

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$588.34/acre x 0.10 acres = \$58.83

Includes Small Quantity Factor of 1.60

Subtotal: \$58.83

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Decommission Temp Route

Tractor D6 w/winch 1 hr x \$124.51/hr = \$124.51

Excavator 225 (1.5 cy) 2 hr x \$94.61/hr = \$189.22

Reconstruct water bars

Tractor D6 w/winch 1 hr x \$124.51/hr = \$124.51

Construct Barricade

Tractor D6 w/winch 2 Ea x \$300.00/Ea = \$600.00

Subtotal: \$1,038.24

Road Number: temp 4 Continued

Mobilization:

Construction - 1.93% of total Costs = \$107.40

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$107.40

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,004.74

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 5 Road Name:	
Temporary Road: 0.06 mi 12 ft Subgrade ft ditch 5/1/2013 200 Clearing and Grubbing: 0.1 acres	\$1,367.75
300 Excavation: 1,442 cy Haul: 1,442 sta-yds	\$2,741.97
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$52.95
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$519.12
Mobilization: Const. \$173.55 Surf. \$0.00	\$173.55
Quarry Development:	\$0.00
Total: Notes:	\$4,855.34

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 5 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: $$15.28/sta \times 3.17 sta = 48.44

Grubbing - Light: $$395.63/acre \times 3.17 acres = $1,254.15$

Scatter: $$724.08/acre \times 0.09 acres = 65.17

Subtotal: \$1,367.75

Section 300 Excavation:

Excavation - Common: $$1.72/\text{cy} \times 1,442 \text{ cy} = $2,480.24$

Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 3.2 sta = \$59.85

End Hauling - 100 to 500 ft: \$0.14/sta-yd x 1,442 sta-yd = \$201.88

Subtotal: \$2,741.97

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$588.34/acre \times 0.09 acres = 52.95

Includes Small Quantity Factor of 1.60

Subtotal: \$52.95

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Decommission Temp Route

Tractor D6 w/winch 1 hr x \$124.51/hr = \$124.51

Excavator 225 (1.5 cy) 1 hr x \$94.61/hr = \$94.61

Construct Barricade

Tractor D6 w/winch 1 ea x \$300.00/ea = \$300.00

Subtotal: \$519.12

Road Number: temp 5 Continued

Mobilization:

Construction - 3.11% of total Costs = \$173.55

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$173.55

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$4,855.34

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 6 Road Name:	
Temporary Road: 0.06 mi 12 ft Subgrade ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.1 acres	\$1,367.75
300 Excavation: 1,173 cy	\$2,241.63
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$52.95
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$519.12
Mobilization: Const. \$155.00 Surf. \$0.00	\$155.00
Quarry Development:	\$0.00
Total: Notes:	\$4,336.45

Notes:

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 6 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: \$15.28/sta x 3.17 sta = \$48.44

Grubbing - Light: $$395.63/acre \times 3.17 acres = $1,254.15$

Scatter: \$724.08/acre x 0.09 acres = \$65.17

Subtotal: \$1,367.75

Section 300 Excavation:

Excavation - Common: $$1.72/\text{cy} \times 1,173 \text{ cy} = $2,017.56$

Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 3.2 sta = \$59.85

End Hauling - 100 to 500 ft: $$0.14/sta-yd \times 1,173 sta-yd = 164.22

Subtotal: \$2,241.63

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$588.34/acre x 0.09 acres = \$52.95

Includes Small Quantity Factor of 1.60

Subtotal: \$52.95

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Decommission temp route

Tractor D6 w/winch 1 hr x \$124.51/hr = \$124.51

Excavator 225 (1.5 cy) 1 hr x \$94.61/hr = \$94.61

Construct Barricade

Tractor D6 w/winch 1 Ea x \$300.00/Ea = \$300.00

Subtotal: \$519.12

Road Number: temp 6 Continued

Mobilization:

Construction - 2.78% of total Costs = \$155.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$155.00

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$4,336.45

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 7 Road Name:	
Temporary Road: 0.21 mi 12 ft Subgrade ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.3 acres	\$505.37
300 Excavation: 555 cy	\$1,241.68
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$176.50
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$927.46
Mobilization: Const. \$105.68 Surf. \$0.00	\$105.68
Quarry Development:	\$0.00
Total: Notes:	\$2,956.69

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 7 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: \$15.28/sta x 11.09 sta = \$169.46 Grubbing - Light: \$395.63/acre x 0.30 acres = \$118.69

excavator 225 4 hr x \$94.61/hr = \$378.44 barricade 1 ea x \$300.00/ea = \$300.00

Scatter: $$724.08/acre \times 0.30 acres = 217.22 Subtotal: \$505.37 Section 300 Excavation: Excavation - Common: $$1.72/cy \times 555 cy = 954.60 Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 11.1 sta = \$209.38 End Hauling - 100 to 500 ft: $$0.14/sta-yd \times 555 sta-yd = 77.70 Subtotal: \$1,241.68 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Subtotal: \$0.00 Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$588.34/acre \times 0.30 acres = 176.50 Includes Small Quantity Factor of 1.60 Subtotal: \$176.50 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Decommission Temp Route D6 with winch 2 hr x \$124.51/hr = \$249.02

Subtotal: \$927.46

Road Number: temp 7 Continued

Mobilization:

Construction - 1.89% of total Costs = \$105.68

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$105.68

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$2,956.69

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13 Road Number: temp 8 Road Name:	
Temporary Road: 0.03 mi 12 ft Subgrade ft ditch 5/1/2013	
200 Clearing and Grubbing: 0.0 acres	\$678.20
300 Excavation: 585 cy	\$1,088.86
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$23.53
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$519.12
Mobilization: Const. \$85.62 Surf. \$0.00	\$85.62
Quarry Development:	\$0.00
Total:	\$2,395.33
MOCCD.	

Notes:

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: temp 8 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: \$15.28/sta x 1.58 sta = \$24.14 Grubbing - Light: \$395.63/acre x 1.58 acres = \$625.10

Excavator 225 (1.5 cy) 1 hr x \$94.61/hr = \$94.61

Tractor D6 w/winch 1 EA x \$300.00/EA = \$300.00

Construct Barricade

Scatter: $$724.08/acre \times 0.04 acres = 28.96 Subtotal: \$678.20 Section 300 Excavation: Excavation - Common: $$1.72/cy \times 585 cy = $1,006.20$ Subgrade Compaction: 4 Sta/hr \$18.88/sta. x 0.0 sta = \$0.76 End Hauling - 100 to 500 ft: $$0.14/sta-yd \times 585 sta-yd = 81.90 Subtotal: \$1,088.86 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Subtotal: \$0.00 Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$588.34/acre \times 0.04 acres = 23.53 Includes Small Quantity Factor of 1.60 Subtotal: \$23.53 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Decommision temp route Tractor D6 w/winch 1 hr x \$124.51/hr = \$124.51

Subtotal:

\$519.12

Road Number: temp 8 Continued

Mobilization:

Construction - 1.53% of total Costs = \$85.62 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$85.62

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$2,395.33

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13

Average Mobilization distance = 30 miles Factor = 0.67

Mobilization: Construction

Graders-all: 1 ea x (0.67 x \$356.00/ea + 30 mi x \$13.91/mi) = \$655.82

Brush Cutter: 1 ea x (0.67 x \$356.00/ea) = \$238.52

Loaders < 3cy: 1 ea x (0.67 x \$356.00/ea + 30 mi x \$7.58/mi) = \$465.92

Rollers & Comp: 1 ea x (0.67 x \$356.00/ea + 30 mi x \$15.10/mi) = \$691.52

Excavators: 1 ea x (0.67 x \$688.00/ea + 30 mi x \$22.59/mi) = \$1,138.66

RTBackhoes 24/30: 1 ea x (0.67 x \$356.00/ea + 30 mi x \$4.93/mi) = \$386.42

Tractors <= D7: 1 ea x (0.67 x \$522.00/ea + 30 mi x \$29.75/mi) = \$1,242.24

Dump Truck >10cy: 1 ea x (0.67 x \$228.00/ea + 30 mi x \$4.56/mi) = \$289.56

Water Truck: 1 ea x (0.67 x \$217.00/ea + 30 mi x \$4.33/mi) = \$275.29

Fire Equipment: 1 ea x $(0.67 \times $132.00/ea + 30 \text{ mi x } $3.51/mi) = 193.74

Subtotal: \$5,577.69

Mobilization: Surfacing

Fire Equipment: lea x (0.67 x \$132.00/ea + 30 mi x \$3.51/mi) = \$193.74 Graders-all: lea x (0.67 x \$356.00/ea + 30 mi x \$13.91/mi) = \$655.82 Loaders < 3cy: lea x (0.67 x \$356.00/ea + 30 mi x \$7.58/mi) = \$465.92 Rollers & Comp: lea x (0.67 x \$356.00/ea + 30 mi x \$15.10/mi) = \$238.52 Dump Truck >10cy: lea x (0.67 x \$228.00/ea + 30 mi x \$4.56/mi) = \$289.56 Water Truck: lea x (0.67 x \$217.00/ea + 30 mi x \$4.33/mi) = \$275.29

Subtotal: \$2,571.85

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: Jumping Bean Sale Date: 09-12-13

Road Number	Const	Improv	Renov	Decomm	Temp
34-5-29 (A-B)	001100		72.34	2000	10
35-5-15			29.04		
35-5-15.1			13.20		
35-5-15.2			7.39		
35-5-20 (A-B)			75.50		
35-5-20 (A-B) 35-5-20.1			44.88		
35-5-21.1 (A-C)			114.58		
35-5-21.2			39.07		
35-5-22			34.32		
35-5-22.1			4.75		
35-5-23.1 (A)			4.75		
35-5-25.5			18.48		
35-5-26 (A)			56.50		
35-5-26.1 (A-B)			178.46		
35-5-26.2 (A-B)			153.12		
35-5-3.2			25.87		
35-5-3.3			48.58		
35-5-35 (A-B)			82.37		
35-5-4 (B-F)			94.51		
35-5-4.1			16.37		
35-5-4.3			15.84		
35-5-4.4			10.03		
35-5-6.1 (A-B)			52.80		
35-5-6.2			16.37		
35-5-8.1 (A-J)			220.70		
35-5-9 (A)			32.21		
35-5-9.1			32.21		
35-5-9.2 (A-B)			37.49		
temp 1					4.75
temp 2					12.14
temp 3					5.81
temp 4					3.70
temp 5					3.17
temp 6					3.17
temp 7					11.09
temp 8					1.58
cemp o					1.50
Total Sta:			1,531.73		45.41
			_,		
200 Clearing and Gr	ubbing		Clearing	Grubbing	Slash
5			stations	acres	acres
temp 1			4.00	4.0	0.1
temp 2			12.14	12.1	0.3
temp 3			5.81	5.8	5.8
temp 4			3.70	3.7	0.1
temp 5			3.17	3.2	0.1
temp 6			3.17	3.2	0.1
temp 7			11.09	0.3	0.3
temp 8			1.58	1.6	0.0
cemp o			1.50	1.0	0.0
		Totals:	44.66	33.9	6.9
		100010-	11.00	55.7	0.5

300 Excavation	Excav	Haul
	C.Y.s	sta-yds
35-5-4.3	35	37
temp 1	1,757	1,757
temp 2	4,492	4,492
temp 3	2,150	2,150
temp 4	74	74
temp 5	1,442	1,442
temp 6	1,173	1,173
temp 7	555	555
temp 8	585	585
Totals:	12,263	12,265
Remove borrow material ramp 35-5-		,
		2 hr
400 Drainage		
35-5-21.2 MP 0.49	Aluminized	d 18 inch 16 ga 34 lf
35-5-6.1 (A-B) MP 0.25		d 18 inch 16 ga 30 lf
35-5-8.1 (A-J) MP 0.24,1.41, 2.00.		5
35-5-8.1 (A-J) MP 0.36,0.91,1.03		
35-5-9 (A) MP 0.49		d 18 inch 16 ga 36 lf
35-5-9 (A) MP 0.53		d 24 inch 16 ga 40 lf
35-5-4 (B-F) MP 1.05		d 18 inch 10 lf
33 3 1 (2 1) 111 1.03	marr mount	4 10 111011 10 11
500 Renovation	Miles S	Slide cy
34-5-29 (A-B)	1.37	0
35-5-15	0.55	0
35-5-15.1	0.25	0
35-5-15.2	0.14	0
35-5-20 (A-B)	1.43	0
35-5-20.1	0.85	0
35-5-21.1 (A-C)	2.17	0
35-5-21.2	0.74	0
35-5-22	0.65	0
35-5-22.1	0.09	0
35-5-22.1 35-5-23.1 (A)	0.09	0
35-5-25.5	0.09	0
35-5-26 (A)		0
35-5-26 (A) 35-5-26.1 (A-B)	1.07	
35-5-26.1 (A-B) 35-5-26.2 (A-B)	3.38 2.90	0
		0
35-5-3.2	0.49 0.92	0 0
35-5-3.3		
35-5-35 (A-B)	1.56	0
35-5-4 (B-F)	1.79	0
35-5-4.1	0.31	0
35-5-4.3	0.30	0
35-5-4.4	0.19	0
35-5-6.1 (A-B)	1.00	0
35-5-6.2	0.31	0
35-5-8.1 (A-J)	4.18	0
35-5-9 (A)	0.61	0
35-5-9.1	0.61	0

Totals: 28.30

Surfacing (Cubic Yards)

Quarry Name: commercial 700 Pitrun 35-5-20.1 35-5-21.1 (A-C) 35-5-21.2 35-5-22.1 temp 3 35-5-3.3 35-5-6.2		Roadway 0 0 0 0 0 0	Turnouts 0 0 0 0 0 0 0 0 0	Other 100 40 113 30 40 80 40	100 40 113 30 40 80 40
To	tals:	0	0	443	443
Quarry Name: borrow 700 Pitrun 35-5-8.1 (A-J)	otals:	Roadway 0 	Turnouts 00	Other 60 60	60
Quarry Name: rip rap riprap 35-5-8.1 (A-J)	otals:	Roadway 0	Turnouts 00	Other 686	686
1300 Geotextiles	otals:	No Quanti	ties		
1400 Slope Protection					
To	otals:	0			
temp 1 temp 2 temp 3 temp 4 temp 5 temp 6 temp 7 temp 8	res	Dry W/O Mulch 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Dry/with Mulch 0.1 0.3 0.2 0.1 0.1 0.1 0.0	Hydro Mulch	
To	tals:	0.0	1.2	0.0	
1000 7 7					

1900 Cattleguards

Totals: No Quantities

2100 RoadSide Brushing		acres
34-5-29 (A-B) 35-5-15 35-5-15.1 35-5-15.2 35-5-20 (A-B) 35-5-20.1 35-5-21.1 (A-C) 35-5-21.2 35-5-22 35-5-22 35-5-22.1 35-5-23.1 (A) 35-5-25.5 35-5-26.1 (A-B) 35-5-26.2 (A-B) 35-5-3.2 35-5-3.3 35-5-3.3 35-5-4.1 35-5-4.1 35-5-4.1 35-5-4.1 35-5-6.1 (A-B) 35-5-6.2 35-5-8.1 (A-J) 35-5-9.1 35-5-9.2 (A-B)		1.3 0.5 0.2 0.1 1.4 0.8 2.1 0.7 0.6 0.1 0.3 1.0 3.3 2.8 0.5 0.9 1.5 1.7 0.3 0.3 0.3 0.3
	Totals:	28.0
2300 Engineering		stations
	Totals:	0.00
2400 Minor Concrete	Totals:	No Quantities
2500 Gabions	Totals:	No Quantities

8000 Miscellaneous	
Construct Barricade temp 2	
Tractor D6 w/winch	1 ea
Construct Barricade temp 6	
Tractor D6 w/winch	1 Ea
Construct Barricade temp 5	
Tractor D6 w/winch	1 ea
Construct Barricade temp 1	
Tractor D6 w/winch	1 ea
Construct Barricade temp 8	
Tractor D6 w/winch	1 EA
Construct Barricade temp 4	
Tractor D6 w/winch	2 Ea
Construct Barrier temp 3	
Tractor D6 w/winch	1 Ea
construct water bar 35-5-22.1	_
reconstruct water bar Tractor D6 w/winch	1 EA
Construct water bar temp 1	
Tractor D6 w/winch	2 ea
Construct water bar temp 2	2
Tractor D6 w/winch	3 ea
Construct waterbar temp 3	0
Tractor D6 w/winch	∠ ea
Decommision temp route temp 8	1 1
Tractor D6 w/winch	
Excavator 225 (1.5 cy)	1 111
Decommission Temp Route temp 3 Tractor D6 w/winch	1 hz
Excavator 225(1.5 cy)	
Decommission Temp Route temp 2	2 111
Tractor D6 w/winch	2 hr
Excavator 225 (1.5 cy)	
Decommission Temp Route temp 5	0 111
Tractor D6 w/winch	1 hr
Excavator 225 (1.5 cy)	
Decommission temp route temp 6	
Tractor D6 w/winch	1 hr
Excavator 225 (1.5 cy)	
Decommission Temp Route temp 1	
Tractor D6 w/winch	1 hr
excavator 225 (1.5 CY)	
Decommission Temp Route temp 7	
D6 with winch	2 hr
excavator 225	
barricade	
Decommission Temp Route temp 4	
Tractor D6 w/winch	1 hr
Excavator 225 (1.5 cy)	
Reconstruct water bars temp 4	
Tractor D6 w/winch	1 hr
water bar 35-5-6.2	
reconstruct water bar Tractor D6 w/winch	3 EA
reconstruct water dip Tractor D6 w/winch	1 EA
water bar 35-5-4.3	
Water bar Tractor D6 w/winch	3 EA
water dip 35-5-3.3	
construct water dip tractor D6 w/winch	
water dip reconstruct Tractor D6 w/winch	1 e <i>a</i>

water dip const 35-5-21.2		
construct water dip Tractor D6 w/winch	. 2	EA
remove and replace earthen barrier Tractor D6 $w/winch$	1	. EA
Water dips 35-5-8.1 (A-J)		
reconstruct water dips Tractor D6 w/winch	1	. ea
construct water dips Tractor D6 w/winch	1	.5 ea

Form 5440-9 (December 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Name of B	idder	
Tract Num	ber	
ORM07-7	ΓS-13-07	
Sale Name		
Jumping 1	Bean	
Sale Notice	e (dated)	
8/14/2013	3	
BLM Dista	rict	
Medford		

SCALE SALE

	Sea	led Bid for Sealed Bid	l Sale		х	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 \$41,500.00 and is enclosed in the form of \Box cash \Box money order \Box						sed in the form of \Box cash \Box money order \Box bank	
draft		cashier's check	☐ certified check		bid bond	nd of corporate surety on approved list of the United States	
Treasury							
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

	ORAL	BID MADE				
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	2,625	x	=	х	=
Incense Cedar	MBF	173				
Ponderosa Pine	MBF	105	х			
White Fire	MBF	78	х			
Sugar Pine	MBF	45	х			
Total		3,026	х	=	х	=
			х	=	х	=
			х	=	х	=
			х	=	х	=
			Х	=	Х	=
			х	=	Х	=
			х	=	Х	=
			X	=	х	=
			х	=	Х	=
			х	=	х	=
		TOTAL PUF	RCHASE PRICE			

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 northoughin on L.I.C.	Dusiness address include zin ando (4 ma an mint)					
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)					
	LUEDEDV Com the state of 11.1					
Signature of A. Alexia I Comments Significance Office	I HEREBY confirm the above oral bid					
Signature of Authorized Corporate Signing Officer	By (signature)					
Title	Date					
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	envelope marked on the outside:					
Interior – BLM.	(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 those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western
- red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to "unprocessed timber". Special reporting, branding and painting of logs may be included in contract provisions.*
- 18. DETAILED INFORMATION Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.