# PROSPECTUS

Sale Date: December 15, 2015

#### (1) Roseburg Sale No.: 2016.0005 Douglas County, Oregon: O&C: Oral Auction

Sale Name: <u>Halfway There</u> Bid Deposit Required: <u>\$70,900.00</u>

All timber designated for cutting on:

Sec. 33, T. 20 S., SE14SW14, SE14 R. 7 W., Willamette Meridian S½SW¼ Sec. 34, T. 20 S., R. 7 W., Willamette Meridian Sec. 3. T. 21 S. Lots 3, 4, 5, 6, 7, 9, 10, 11 & 12; NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub> R. 7 W.. Willamette Meridian Sec. 4. T. 21 S. Willamette Meridian Lots 2, 3, 4, 5, 6, 7 & 12 R. 7 W.. Sec. 5. T. 21 S., R. 7 W., Willamette Meridian Lots 7 & 8; SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>, W<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>4</sub> Est. Vol. Est. Vol. Est. Volume Approx. Appraised

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Numbe	er Mi	BF		MBF	Price		Times
Merch. Tr	rees 32'	Log Spe	ecies	16' Log	Per MBF		Appraised Price
29,579	9 5,4	147 Dou	uglas-fir	6,580	\$104.60		\$688,268.00
2,733	34	43 We	stern Hemlock	411	\$39.90	*	\$16,398.90
98	2	20 We	stern Redcedar	26	\$165.60		\$4,305.60
32,410	) 5,8	310		7,017			\$708,972.50

#### \* BLM appraised price per MBF is a minimum stumpage value.

<u>THE VOLUMES LISTED</u> herein are estimates only, based on 16-foot taper breaks, which must be taken into consideration if comparisons are made with volume predictions based on other standards. The volumes based on 32-foot taper breaks are shown for comparison purposes. No sale shall be made for less than the total purchase price, without regard to the amount bid per unit, even though quantity of timber actually cut or removed or designated for taking is more or less than the estimated volume or quantity so listed.

<u>APPRAISED PRICES</u> are determined by analytical appraisal methods unless otherwise noted on individual timber sale notices.

## LOG EXPORT AND SUBSTITUTION RESTRICTIONS:

All timber sales, including timber from Federal rights-of-ways, shall be subject to the restrictions relating to the export and substitution of unprocessed timber from the United States in accordance with P.L. 94-165 and 43 CFR 5400 and 5424 as amended.

Excepting Port-Orford-cedar, all timber offered for sale hereunder 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.

#### **CRUISE INFORMATION:**

For all rights-of-ways: The Douglas-fir up to 22 inches D.B.H.O.B. have been cruised using the 3P system to select sample trees. The sample trees have been cruised and their volume computed on form class tables for

estimating volume in 16-foot lengths. This volume is then expanded to a total sale volume. A map showing the location of these sample trees is available at the Roseburg District Office. The volume of Douglas-fir 24 inches D.B.H.O.B. and larger, Western Hemlock, and Western Redcedar have been determined by individual tree measurements using a 100% cruise.

For Harvest Areas 1, 2, 3, 4, 5, 6, and 7: The timber volumes for all tree species are based on a variable plot cruise, containing a total of 208 plots and 166 randomly selected sample trees. Plots were measured using a 20 basal area factor (BAF). The volume of the randomly selected sample trees has been expanded to a total sale volume. A map showing the location of the plots and sample trees is available at the Roseburg District Office.

With respect to merchantable trees of all species: the average tree is 14.1 in. D.B.H.O.B., the average log contains 52 bd. ft., the total gross volume is approximately 7345 M bd. ft., and 96% recovery is expected.

<u>CUTTING AREA</u>: An area of approximately 275 acres in 7 units will be partially cut and rights-of-ways totaling approximately 4 acres will be clearcut.

#### TIMBER ACREAGE:

Area 1:	14 acres	Area 4:	58 acres	Area 7:	9 acres
Area 2:	5 acres	Area 5:	16 acres	R/W:	4 acres
Area 3:	5 acres	Area 6:	168 acres		

ACCESS: Access to the sale area is provided by Government and County controlled roads.

<u>DIRECTIONS TO SALE AREA</u>: From Roseburg, proceed north on Interstate-5 to Exit 150. Exit Interstate-5 and proceed north on State Highway 99 to Drain. Then, from Drain, proceed northeast on State Highway 99 approximately 2 miles to the junction with County Road 37 (Smith River Road). Proceed northwest on Smith River Road approximately 22 miles to its end and the beginning of BLM Road 20-7-27.0 and follow the Exhibit D map southwest approximately 4 miles to the sale area.

ROAD MAINTENANCE: Rockwear and maintenance fees of \$48,629.14 will be required to be paid to the BLM.

<u>ROAD CONSTRUCTION</u>: Estimates include the following: construct 54+77 stations, renovate 332+95 stations, and decommission 74+60 stations of road. Approximately 220 MBF is to be cut and removed in association with road renovation; this timber volume will be included on Exhibit B of the contract, but no acres have been attributed to the road renovation. Additional information is available in Exhibit C and Exhibit D of the Timber Sale Contract.

<u>DURATION OF CONTRACT</u> will be 36 months for cutting and removal of timber. The contract will contain SPECIAL PROVISIONS regarding: logging; environmental protection; road construction, renovation, maintenance, and use; fire prevention; slash disposal; and log exports. Log scaling may be required under the terms of this contract.

<u>ADDITIONAL INFORMATION:</u> This prospectus includes maps and tables that cannot be made Section 508 compliant. For help with its data or information, please contact the Roseburg District Office at 541-440-4930.

## NOTES:

 A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to: (1) Comply with the Endangered Species Act, or (2) Comply with a court order, or (3) Protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP. This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

- Seasonal restrictions on operations apply to this sale regarding road work, falling, bucking, yarding, loading, and hauling. Refer to Sections 42(A)(6)(b), 42(A)(10-12), 42(D)(2), 42(D)(3) and Exhibit E for details. A "seasonal restriction matrix" is included with this prospectus to serve as a guide in planning and scheduling operations for each harvest unit.
- 3. This contract contains provisions for the sale and removal of additional timber necessary to facilitate safe and efficient Purchaser operations. It is estimated that approximately 351 MBF of such additional timber would be removed under the contract, but is not included in the advertised sale volume.
- 4. Slash disposal requirements consist of the following: machine piling, covering and burning slash and debris within a fifty (50) foot radius of landings (approximately 164 landings). The Purchaser will have the option to assist in burning or to make a contribution to the Bureau of Land Management in lieu thereof. Refer to Sections 42(F) and 42(G) for details.
- 5. Harvest Areas 1, 2, 3, 5 and 6 had been marked for thinning approximately 18 years ago using orange paint to designate the retention trees, but the thinning was never implemented. The silvicultural prescription has been revised for this sale— the trees in all harvest areas which are reserved from cutting are those marked with fresh yellow paint above and below stump height in 2014. Refer to Section 41 for details regarding timber reserved from cutting.
- Harvest Area 3 will require a landing and yarding wedge along Road 21-7-5.3 at station 20+20. The southern portion of Harvest Area 7 will require a landing and yarding wedge along Spur 11 at station 3+70. Both yarding wedges will go through stands that were commercially thinned approximately six years ago.
- 7. Optional Spur A may be constructed as shown on Exhibit A at the Purchaser's expense in order to facilitate logging operations. This spur may only be constructed between May 15 and October 15 of any given calendar year. Aggregate surfacing may be applied at the Purchaser's expense to provide wet season access for cable yarding. If constructed, the Purchaser would be responsible for decommissioning, as directed by the Authorized Officer. In order to construct Optional Spur A, a logging plan must be approved and the contract modified by the Authorized Officer.
- 8. As appraised, approximately 81% (226 acres) of the sale area is available for wet season operations, including portions of Harvest Areas 1 (14 acres), 2 (5 acres), 3 (5 acres), 4 (58 acres), 5 (16 acres) and 6 (128 acres). Wet season operations may be maximized at the Purchaser's expense by:
  - Cable yarding portions of Harvest Area 6 to the existing rocked roads, instead of ground-based yarding (approximately 40 additional acres);
  - Adding rock to Spurs 10 and 11 in Harvest Area 7 as necessary for wet season cable yarding operations (approximately 9 additional acres);
  - In order to maximize wet season operations, the Authorized Officer must approve the logging plan and a contract modification may be required.

THIS IS A SALE PROSPECTUS ONLY. ATTACHMENTS MAY NOT INCLUDE ALL EXHIBITS REFERRED TO IN THE CONTRACT PROVISIONS. THE COMPLETE CONTRACT, INCLUDING ALL EXHIBITS, IS AVAILABLE FOR INSPECTION AT THE ROSEBURG DISTRICT OFFICE.

<u>Section 41.</u> TIMBER RESERVED FROM CUTTING -The following timber in 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) All timber on the Reserve Areas shown on Exhibit A, and all <u>orange-blazed</u> and posted trees which are on or mark the boundaries of the Reserve Areas.
- (b) All retention trees marked with <u>vellow</u> paint above and below stump height within the Harvest Areas shown on Exhibit A.
- (c) All existing downed trees at the time of the timber cruise in the Harvest Areas shown on Exhibit A. Reserved existing downed trees may be bucked to facilitate yarding.
- (d) All snags in the Harvest Areas as shown on Exhibit A. Snags which pose a hazard to operations may be felled with the approval of the Authorized Officer.

<u>Section 42</u>. The Purchaser shall comply with the special provisions which are attached hereto and made apart hereof, unless otherwise authorized in writing by the Authorized Officer.

#### Section 42(A) Logging:

- (1) Before beginning operations on the Contract Area for the first time or after a shutdown of ten (10) or more days, the Purchaser shall notify the Authorized Officer in writing of the day they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of ten (10) or more days.
- (2) Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan developed by this provision.
- (3) In the Harvest Areas shown on Exhibit A, all trees designated for cutting within one hundred (100) feet of the Reserve Areas shall be felled and yarded away from these areas.
- (4) No cable yarding, ground-based yarding or log loading is permitted in or through the Reserve Areas as shown on Exhibit A, unless otherwise approved by the Authorized Officer.
- (5) In the Harvest Areas shown on Exhibit A, all trees designated for cutting shall be manually felled, limbed and cut into log lengths not to exceed forty-two (42) feet before being yarded, unless otherwise approved by the Authorized Officer. Portions of Harvest Areas may be felled mechanically using a feller-processor with the approval of the Authorized Officer and in accordance with the following specifications:
  - (a) Mechanized felling operations shall generally 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(A)(6)(b) of this contract.
  - (c) The feller-processor shall be approved by the Authorized Officer prior to the start of mechanized felling operations. Only purpose-built carriers with boom-mounted felling heads may be approved. The purpose-built carrier may be of the articulated, rubber-tired design or the zero tail swing, leveling, track-mounted design.
  - (d) The feller-processor shall be required to cut off limbs and tops in front of the machine's tracks in order to reduce the potential for soil compaction. The feller-processor must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible.
  - (e) In Harvest Areas where mechanical felling is permitted with the approval of the Authorized Officer, all trees designated for cutting shall be completely limbed and bucked into log lengths not to exceed forty-two (42) feet prior to being yarded.

- (6) In the portions of Harvest Area 6 designated for ground-based yarding as shown on Exhibit A (approximately 40 acres):
  - (a) Ground-based yarding operations shall generally be limited to slopes of thirty-five (35) percent or less, and existing skid trails shall be utilized to the greatest extent possible.
  - (b) No ground-based yarding shall be permitted between September 30 of one calendar year and July 15 of the following calendar year, both days inclusive, or other periods of unseasonably wet weather and soil moisture conditions, unless otherwise approved by the Authorized Officer.
  - (c) A rubber-tired or track-mounted skidder may be used in accordance with the following specifications:
    - (1) The skidder shall be approved by the Authorized Officer prior to ground-based yarding operations.
    - (2) Yarding shall be done with one end of the log suspended.
    - (3) The skidder shall be restricted to designated skid trails. Skid trails shall be clearly identified on the ground, twelve (12) feet or less in width and spaced at least one hundred fifty (150) feet apart. Designated skid trails, whether existing or newly proposed, shall be approved by the Authorized Officer prior to the felling of timber.
  - (d) A track-mounted log loader, or shovel yarding system, may be used in accordance with the following specifications:
    - (1) The track-mounted log loader shall be approved by the Authorized Officer prior to ground-based yarding operations.
    - (2) The track-mounted log loader shall be restricted to designated skid trails and shall utilize the swing yarding method to the greatest extent practicable. The designated skid trail network shall minimize both the amount of ground covered by the tractor treads and the number of passes over any single spot on the ground. Designated skid trails, whether existing or newly proposed, shall be approved by the Authorized Officer prior to the felling of timber.
    - (3) The track-mounted log loader shall be required to place logging slash in front of the machine's tracks prior to traveling designated skid trails in order to reduce soil compaction.
  - (e) A cut-to-length system may be used in accordance with the following specifications:
    - (1) The harvester shall be required to cut off limbs and tops in front of the machine's tracks in order to reduce the potential for soil compaction. The harvester must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible.

- (2) The forwarder shall operate only on designated skid trails approved by the Authorized Officer. Forwarder trails shall be located on existing skid trails and/or the slash-covered areas traversed by the harvester. Forwarder trails shall be perpendicular to hill-slope contour lines as much as possible. Forwarder trails shall be located such that there are two harvester trails between forwarder trails, resulting in a spacing of at least one hundred (100) feet between forwarder trails.
- (3) Logs that are too large for the harvester/forwarder operation may be yarded with a rubber-tired or track-mounted skidder, or a track-mounted log loader approved by the Authorized Officer, and as directed by the Authorized Officer. The skidder shall operate on designated skid trails approved by the Authorized Officer.
- (7) In the portions of Harvest Areas 1, 2, 3, 4, 5, 6 and 7 designated for cable yarding as shown on Exhibit A:
  - (a) Yarding shall be done with a cable skyline system utilizing a mechanical slack-pulling carriage capable of maintaining a fixed position on the skyline while lateral yarding and having a lateral capability of seventy five (75) feet. The carriage must not move during in-haul. The cable yarder shall have a maximum tower height of fifty (50) feet and a maximum of two hundred fifty (250) horsepower. The system shall have the capability to yard in multi-span configuration.
  - (b) Wherever possible, cable yarding corridors shall be perpendicular to hill-slope contour lines, parallel to each other and spaced at least one hundred fifty (150) feet apart to minimize damage to reserve trees.
  - (c) Cable yarding of logs shall be done under the canopy and with one end suspended. Lift trees and/or intermediate support trees shall be employed where necessary to meet this requirement. All logs shall be yarded away from or parallel to streams as shown on Exhibit A, except in those portions of Harvest Areas 4, 5 and 6 where full suspension over the streams will be required.
  - (d) 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.
- (8) Before cutting and removing any trees necessary to facilitate logging in the Harvest Areas shown on Exhibit A, the Purchaser shall identify the location of the skid trails, cable yarding corridors, 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 trails and/or cable yarding corridors upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and

shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of skid trails shall be limited to twelve (12) feet and cable yarding corridors shall be limited to fifteen (15) feet.

- (b) The Purchaser may immediately cut and remove additional timber to clear skid trails and cable yarding corridors; and provide tailhold, tieback, guyline, lift and intermediate support trees; and to clear danger trees when the trees have been marked with <u>blue</u> paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Section 3(b) of the contract or sufficient bonding has been provided in accordance with Section 3(f) 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 trees otherwise reserved in Section 41 of the contract or 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 <u>vellow</u> paint as replacements for additional trees cut and removed for skid trails and/or cable yarding corridors 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.

- (9) In accordance with the requirements of Section 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the Contract Area which is obstructing needed cable yarding corridors, hazardous to workers, needed for guyline, tail hold or tieback trees, and/or severely damaged from the normal conduct of felling or yarding operations to meet all applicable safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:
  - (a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Section 41 of the contract are not included in the authorization.
  - (b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump and the bottom log immediately after falling with high visibility red paint. The stump shall be marked by flagging the location of the stump with plastic fluorescent pink ribbon hung within five (5) feet of the stump at eye level so that the stump can be visually located from a distance of not less than one hundred (100) feet.
  - (c) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Section 3(b) or 3(f) of the contract as required by Section 8 of the contract.
  - (d) No timber may be cut or removed under the terms of this provision if all contract payments required by Section 3(b) or 3(f) of the contract have been made.
  - (e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
    - (1) Failed to properly mark any stump with high visibility paint.
    - (2) Failed to identify the location of any stump.
    - (3) Cut any tree that was reserved for tree improvement and/or wildlife habitat.
    - (4) Cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
    - (5) Cut any reserve tree in or adjacent to skid trails that was not necessary to facilitate ground based yarding.
    - (6) Failed to properly segregate any pulled-over tree that was yarded to the landing.

- (7) Cut any reserve tree that was not severely damaged (as defined during the prework conference) from felling and yarding operations.
- (8) Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
- (9) Cut or topped more than the minimum number of trees necessary to properly serve as tail hold trees.
- (10) Cut more than the minimum number of trees necessary to properly serve as tiebacks for topped tail hold trees.
- (11) Failed to maintain accurate and current (no more than twenty-four [24] hours old) documentation of additional timber cut and removed.

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

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two (2) working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

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

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

- (10) Except for right-of-way logging, no falling or yarding shall be conducted between April 15 and July 15 (bark slip period), both days inclusive, unless otherwise approved by the Authorized Officer.
- (11) No logging activity or log hauling shall be conducted on unsurfaced roads between October 15 of one calendar year and May 15 of the following calendar year (wet season), both days inclusive, unless otherwise approved by the Authorized Officer.
- (12) To prevent potential disturbance to nesting Marbled Murrelets, the following restrictions apply:
  - (a) For those portions of the Contract Area that are within the Marbled Murrelet Seasonal and Daily Operating Restriction Area, as designated on Exhibit E, which is attached hereto and made a part hereof, no operations except hauling shall be conducted between April 1 and August 5, both days inclusive, after which daily operating restrictions shall be in effect from August 6 through September 15, both days inclusive. During the daily operating restriction period, all operations shall be scheduled to begin

a minimum of two (2) hours after sunrise and conclude a minimum of two (2) hours before sunset.

- (b) In the construction of Road 21-7-3.10, no blasting operations shall be conducted between April 1 and September 15, both days inclusive.
- (13) For a distance of fifty (50) feet from the perimeter of each landing designated by the Authorized Officer, all logs more than eight (8) inches in diameter at the large end and longer than eight (8) feet in length shall be decked or windrowed at the location designated by the Authorized Officer, except logs sold and removed from the Contract Area. If a log or piece of log meeting or exceeding the above specifications is bucked and left in place, all portions of that log shall be yarded and decked at the above described location.

#### Section 42(B) Miscellaneous:

(1) The Government, at its option, may administratively check scale any portion of the timber removed from the Contract Area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale, and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: if the entire sale is check scaled, the purchase price of this contract shall be reduced by Five Thousand Two Hundred Sixty-two and 75/100 dollars (\$5,262.75); in the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of Five Thousand Two Hundred Sixty-two and 75/100 dollars (\$5,262.75) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Eastside (Scribner Decimal C) Rules by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to Purchaser upon request.

#### Section 42(C) Environmental Protection:

- (1) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall clean road surfaces, cut banks, landings, ditch lines and culverts of all debris created by logging operations.
- (2) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall steam clean or pressure wash all logging and road building equipment, except logging trucks, prior to initial move-in, to minimize the likelihood of spreading noxious weeds and non-native plant species to the Contract Area. Equipment washing shall occur at a location approved by the Authorized Officer. Equipment will be visually inspected by the Authorized Officer prior to use. Any logging or road building equipment removed from the Contract Area during the

duration of the contract must be steam cleaned or pressure washed before it is returned to the Contract Area. Cleaning shall be defined as removal of all dirt, grease, plant parts and material that may carry noxious weed seeds.

- (3) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall winterize all native surfaced roads used under Section 42(D)(1) or any portion thereof, in accordance with the plans and specifications shown on Exhibit D, which is attached hereto and made a part hereof, and in accordance with the following stipulations:
  - (a) The Purchaser intends to use the native surfaced roads or portions thereof for more than a single operating season; or, circumstances require that the roads or portions thereof overwinter before decommissioning.
  - (b) Winterizing shall consist of water-barring, blocking and mulching to the satisfaction of the Authorized Officer.
  - (c) Winterizing shall take place prior to the end of the operating season as described in Section 42(A)(11) of this contract, or as directed by the Authorized Officer.
- (4) The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
  - (a) Threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
  - (b) When, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
  - (c) Federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
  - (d) Other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
  - (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;
  - (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 thirty (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 thirty (30) days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3(b) of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, *et seq.*). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3(b) of the contract. 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 thirty (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 paragraph, 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.

#### Section 42(D) Road Construction, Maintenance & Use:

- (1) Purchaser shall construct: Spurs 1 (portion), 2, 4, 5, 6, 7, 8, 9, 10 (portion), and 11; and Road 21-7-3.10 Segment A. Purchaser shall renovate: Spurs 1 (portion), 3, 10 (portion), and 12; Road 21-7-3.0 Segment A (portion); Road 21-7-3.4 Segment A, Road 21-7-3.4 Segment B1, Road 21-7-3.8 Segment A (portion), Road 21-7-3.9 Segment A, Road 21-7-4.0 Segment A1, Road 21-7-4.0 Segment A2, Road 21-7-4.1 Segment A (portion), Road 21-7-5.0 Segment B, Road 21-7-5.3 Segment A (portion), and Road 21-7-5.4 Segment A (portion). Any required construction or renovation shall be completed in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof. Any required construction or renovation of structures and roads shall be completed prior to the removal of any timber, except right-of-way timber, over that road.
- (2) No road construction or renovation shall be conducted between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive, or other periods of unseasonably wet weather and soil moisture conditions, unless otherwise approved by the Authorized Officer.
- (3) In the construction of Road 21-7-3.10, no blasting operations shall be conducted between April 1 and September 15, both days inclusive, in order to prevent potential disturbance to nesting Marbled Murrelets.

- (4) Upon completion of logging operations, the following roads and spurs shall be decommissioned in strict accordance with the plans and specifications shown on Exhibit D: Spurs 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12.
- (5) The Purchaser is authorized to use the roads listed 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 provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(D)(6). Any road listed on Exhibit D and requiring construction or renovation in Exhibit C of this contract shall be maintained by the Purchaser until receiving written acceptance of the construction or renovation from the Authorized Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.
- (6) The Purchaser shall pay the Government a maintenance and rockwear obligation in the amount of Forty-eight Thousand Six Hundred Twenty-nine and 14/100 dollars (\$48,629.14) for the transportation of timber included in the contract price over roads listed on Exhibit D. The above road rockwear and maintenance amount is for use of eight and one-tenths (8.1) miles of road or less. Unless the total maintenance amount is paid prior to commencement of operations on the Contract Area, payments shall be made in installments of not less than Five Hundred and No/100 dollars (\$500.00) payable in the same manner as and together with payments required in Section 3 of this contract.
- (7) The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D of this contract.
- (8) The Purchaser also agrees that if they elect to use any other private road which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.

#### Section 42(E) Fire Prevention and Control:

(1) Primarily for purposes of fire prevention and control, the Purchaser shall, 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 Authorized Officer.

#### Section 42(F) Slash Disposal and Site Preparation:

(1) <u>Fire Hazard Reduction.</u> In addition to the requirements of Section 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with state laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measures required by this contract:

- (a) 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 the Purchaser's operations under the terms of this contract.
- (b) Landings shall be piled and covered within thirty (30) days of the completion of yarding from each landing.
- (c) Covering of slash piles shall be done concurrently with piling operations. The covers shall be firmly fixed to each pile.
- (d) Finished piles shall be tight and free of earth.
- (e) <u>Machine pile and cover</u> all slash within fifty (50) feet of all <u>landings</u> or other locations as directed by the Authorized Officer in accordance with the following specifications:
  - (1) Landing slash piles shall be capped with a ten (10) foot by ten (10) foot cover of four (4) mil black plastic to maintain a dry ignition point.
  - (2) Slash piles shall be located away from unit boundaries, retention trees, snags, downed logs and stumps.
- (2) Notwithstanding the provisions of Section 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by the 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 the earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or designated representative, assist in preparing units for 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:

For igniting and burning landing piles in all Harvest Areas, the Purchaser shall provide one (1) eight (8) person hand crew including a designated crew foreman. The crew shall be equipped with fuel, ten (10) drip torches or propane burners, four (4) fire shovels, four (4) pulaskis, one (1) power saw and enough radios to facilitate inter-crew communications. All crew members must have a current qualification card for FFT2 or higher. All qualifications are defined according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1. Qualifications and equipment levels are the minimum and may exceed those stated above.

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 with the following personal safety equipment: lug-soled leather boots with minimum eight (8) inch uppers that provide ankle support; an approved hardhat; leather gloves; long pants and a long sleeve shirt made of approved aramid fabric (Nomex or equivalent); and an approved fire shelter.

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. In addition, all listed personnel directly involved in burning operations shall be certified Fire Fighters qualified according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualification System guide, PMS 310-1 and provide documentation. The work leaders must be fluent in English and be able to effectively speak to all crew members under their direction. Personnel who do not meet these requirements or who do not have proper clothing and personal protective equipment (PPE) will not be allowed to participate.

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 a 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 shall also be responsible for such additional costs.

#### Section 42(G) Optional Contributions:

(1) The Purchaser shall assist in burning as described in Section 42(F)(2). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of Five Thousand Thirty-eight and 90/100 dollars (\$5,038.90) and upon making such contribution, the Purchaser shall be relieved of the obligations set out in these subsections. The amount of the contribution shown above shall be paid prior to cutting. The Purchaser shall notify the Authorized Officer of his intention to make this contribution upon execution of this contract.

#### Section 42(H) Log Exports:

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

use as such; (5) cants, squares and lumber cut for remanufacturing of eight and three-quarters (8<sup>3</sup>/<sub>4</sub>) 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 the last export sale.
- (c) Volume of timber exported in the past twelve (12) months from the date of last export sale.
- (d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.
- (e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.
- (f) Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a Form 5460-16 (Certificate as to Nonsubstitution and the Domestic Processing of Timber). The original of such certification shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

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

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

Unless otherwise authorized in writing by the Authorized Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over 10 inches, prior to the removal of timber from the Contract Area. All loads of 11 logs or more will have a minimum of 10 logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of 10 logs or less. One end of all branded logs to be processed domestically will be marked with a 3 square inch spot of highway yellow paint.

The Purchaser will stop trucks for accountability monitoring at mutually agreed upon locations when notified by the Authorized Officer.

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

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

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

#### U.S. Department of the Interior Bureau of Land Management

Note: This matrix is provided to serve prospective purchasers as a guide only; refer to the timber sale contract Special Provisions for a complete statement of the seasonal and daily operating restrictions.

	al restrictions are cross-hatched. perating restrictions are striped.																									
Harvest		J	lan	F	eb	N	lar	Α	pr	Μ	ay	J	un	J	ul		Aug	J	S	ер	C	)ct	Ν	ον	D	)ec
Area	Activity	1	15	1	15	1	15	1	15	1	16	1	15	1	16	1	5	6	1	16	1	15	1	15	1	15
	Right-of-way logging and clearing, road construction, renovation <sup>1</sup>																									
Unit 1	Falling and bucking <sup>2</sup>																									
Unit i	Cable yarding on surfaced roads <sup>2</sup>																									
	Loading or hauling on surfaced roads																									
	Right-of-way logging and clearing, road construction, renovation <sup>1</sup>																									
	Falling and bucking <sup>2</sup>																									
Unit 2	Cable yarding on surfaced roads <sup>2</sup>																									
onic 2	Hauling on surfaced roads																									
	All operations except hauling within 100 yards of Marbled Murrelet suitable habitat as shown on Exhibit E <sup>4, 5</sup>																									
	Right-of-way logging and clearing, road construction, renovation <sup>1</sup>																									
Unit 3	Falling and bucking <sup>2</sup>																									
	Cable yarding on surfaced roads <sup>2</sup>																									
	Loading or hauling on surfaced roads							h (1115)-112(111)																		
	Right-of-way logging and clearing, road construction, renovation <sup>1</sup>																									
Unit 4	Falling and bucking <sup>2</sup>																									
	Cable yarding on surfaced roads <sup>2</sup>																									
	Loading or hauling on surfaced roads																									

<sup>1</sup>Wet season restriction applying to use of unsurfaced (or limited strength) roads and all road construction/renovation from October 15 – May 15 may be shortened or extended depending on weather conditions.

<sup>2</sup>Bark slip restriction from April 15 – July 15 may be conditionally waived.

<sup>3</sup> Wet season restriction applying to ground-based yarding from October 1 – July 15 may be shortened or extended depending on soil moisture and weather conditions. <sup>4</sup> MAMU seasonal operating restrictions will be in effect from April 1 through August 5.

<sup>5</sup>MAMU daily operating restrictions will be in effect from August 6 through September 15. Operations shall begin two hours after sunrise and must conclude two hours before sunset.

#### U.S. Department of the Interior **Bureau of Land Management**

Note: This matrix is provided to serve prospective purchasers as a guide only; refer to the timber sale contract Special Provisions for a complete statement of the seasonal and daily operating restrictions.

Harvest		J	lan	F	eb	N	lar	Α	pr	Μ	lay	J	un	J	ul		Aug	3	S	ер	C	)ct	N	ov	D	ec
Area	Activity	1	15	1	15	1	15	1	15	1	16	1	15	1	16	1	5	6	1	16	1	15	1	15	1	15
	Right-of-way logging and clearing, road construction, renovation <sup>1</sup>																									
Unit 5	Falling and bucking <sup>2</sup>																									
Unit 5	Cable yarding on surfaced roads <sup>2</sup>																									
	Loading or hauling on surfaced roads																									
	Right-of-way logging and clearing, road construction, renovation <sup>1, 4</sup>																									
Unit 6	Falling and bucking <sup>2</sup>																									
Unit U	Ground-based yarding <sup>2, 3</sup>																									
	Cable yarding on surfaced roads <sup>2</sup>																									
	Loading or hauling on surfaced roads																									
Unit 7	Right-of-way logging and clearing, road construction, renovation <sup>1</sup>																									
	Falling and bucking <sup>2</sup>																									
	Cable yarding on unsurfaced roads <sup>1, 2</sup>			İ																						
	Loading or hauling on unsurfaced roads <sup>1</sup>																	1								

<sup>1</sup>Wet season restriction applying to use of unsurfaced (or limited strength) roads and all road construction/renovation from October 15 – May 15 may be shortened or extended depending on weather conditions.

<sup>2</sup> Bark slip restriction from April 15 – July 15 may be conditionally waived. <sup>3</sup> Wet season restriction applying to ground-based yarding from October 1 – July 15 may be shortened or extended depending on soil moisture and weather conditions.

<sup>4</sup>MAMU seasonal operating restrictions on blasting associated with construction of Road 21-7-3.10 will be in effect from April 1 through September 15.

Form 5440-9 (July 1990)		UNITE DEPARTMENT BUREAU OF LA		E INTERIOR		OMB NO	APPROVED D. 1004-0113 July 31, 1992
			X	TIMBER*		Tract Number (1) 2016.0005 Sale Name	· ·
D	EPOSIT A	AND BID FOR			VE RESOURCE	Halfway There	
				(Other Than T	imber)	Sale Notice ( <i>dated</i> ) November 17, 201	5 (sale date 12/15/15)
		LUMP	SUM SA	LE		BLM District Roseburg	
Sealed Bid for Sealed E	Bid Sale			<b>X</b> Written	Bid for Oral Auction	Sale	
In response to the above dated the tract specified above.	l Sale Notice	e, the required depo	osit and bi	d are hereby su	Ibmitted for the purch	ase of designated timb	er/vegetative resource on
Required bid deposited is \$	70,900.00	<b>0</b> and is enclo	osed in for	form of	cash money	order 🔲 bank dra	ıft
cashier's check	certified che	eck 🗌 bid bo	ond of cor	porate surety of	n approved list of the	United States Treasury	
guaranteed remittance ap	proved by th	he authorized office	er.				
IT IS AGREED That the bi fails to execute and return to contract is received by the s considered. If the bid is re-	the contrac	t, together with a bidder. It is und	ny requir erstood t	ed performan	ice bond and any re	quired payment with	in 30 days after the
	NOTE:			JLE - LUMP eck computation	SUM SALE ons in completing the	Bid Schedule	
		BID SUBMITTE	D	(Est. Volume	MBF 16' Log)	ORAL	BID MADE
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UI	NIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	6,580	x	=	=	x	=
Western Hemlock	MBF	411	x	=	=	x =	=
Western Redcedar	MBF	26	x	=	=	x =	=
	MBF		х	=	=	x =	=
	MBF		x	=	=	x =	=
	MBF		х	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x =	=
	MBF		x	=	=	x =	=
	MBF		x	=	=	x =	=
	MBF		х	=	=	x	=
TOTAL	MBF	7,017	x	=	=	x	=
		TOTAL PUR	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 partnership	Business address, include zip code (type or print)
Corporation organized under the state laws of	(To be completed following oral bidding) I HEREBY confirm the above oral bid
Signature of Authorized Corporate Signing Officer	By (signature)
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior-BLM.	Sealed Bid — Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (2) Vegetative Resource Other Than Timber
Oral Auction — Submit to Sales Supervisor prior to closing of qualifying period for tract.	<ul><li>(3) Time bids are to be opened</li><li>(4) Legal description</li></ul>

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to inform you that:

This information is being collected to obtain data relevant to the operation of this timber sale contract.

This information will be used to administer our timber sale program.

Response to this request is required to obtain a benefit.

## 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 timer or vegetative resources.

#### BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 1 hr. 15 min. per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W. Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0113), Washington, D.C. 20503.

#### 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 desposit 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 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 to ward 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.

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 Num-

ber 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to *'unprocessed timber*.'' Special reporting, branding and painting of logs may be included in contract provisions.\*

18. DETAILED INFORMATION — Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.

: U.S. GOVERNMENT PRINTING OFFICE: 1990-832-998

Form 5440-9 (July 1990)		UNITE DEPARTMENT BUREAU OF LA		E INTERIOR		OMB NO	APPROVED D. 1004-0113 July 31, 1992
			X	TIMBER*		Tract Number (1) 2016.0005 Sale Name	· ·
D	EPOSIT A	AND BID FOR			VE RESOURCE	Halfway There	
				(Other Than T	imber)	Sale Notice ( <i>dated</i> ) November 17, 201	5 (sale date 12/15/15)
		LUMP	SUM SA	LE		BLM District Roseburg	
Sealed Bid for Sealed E	Bid Sale			<b>X</b> Written	Bid for Oral Auction	Sale	
In response to the above dated the tract specified above.	l Sale Notice	e, the required depo	osit and bi	d are hereby su	Ibmitted for the purch	ase of designated timb	er/vegetative resource on
Required bid deposited is \$	70,900.00	<b>0</b> and is enclo	osed in for	form of	cash money	order 🔲 bank dra	ıft
cashier's check	certified che	eck 🗌 bid bo	ond of cor	porate surety of	n approved list of the	United States Treasury	
guaranteed remittance ap	proved by th	he authorized office	er.				
IT IS AGREED That the bi fails to execute and return to contract is received by the s considered. If the bid is re-	the contrac	t, together with a bidder. It is und	ny requir erstood t	ed performan	ice bond and any re	quired payment with	in 30 days after the
	NOTE:			JLE - LUMP eck computation	SUM SALE ons in completing the	Bid Schedule	
		BID SUBMITTE	D	(Est. Volume	MBF 16' Log)	ORAL	BID MADE
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UI	NIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	6,580	x	=	=	x	=
Western Hemlock	MBF	411	x	=	=	x =	=
Western Redcedar	MBF	26	x	=	=	x =	=
	MBF		х	=	=	x =	=
	MBF		x	=	=	x =	=
	MBF		х	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x	=
	MBF		x	=	=	x =	=
	MBF		x	=	=	x =	=
	MBF		x	=	=	x =	=
	MBF		х	=	=	x	=
TOTAL	MBF	7,017	x	=	=	x	=
		TOTAL PUR	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 partnership	Business address, include zip code (type or print)
Corporation organized under the state laws of	(To be completed following oral bidding) I HEREBY confirm the above oral bid
Signature of Authorized Corporate Signing Officer	By (signature)
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior-BLM.	Sealed Bid — Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (2) Vegetative Resource Other Than Timber
Oral Auction — Submit to Sales Supervisor prior to closing of qualifying period for tract.	<ul><li>(3) Time bids are to be opened</li><li>(4) Legal description</li></ul>

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to inform you that:

This information is being collected to obtain data relevant to the operation of this timber sale contract.

This information will be used to administer our timber sale program.

Response to this request is required to obtain a benefit.

## 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 timer or vegetative resources.

#### BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 1 hr. 15 min. per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W. Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0113), Washington, D.C. 20503.

#### 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.

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(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.

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(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.\*

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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.

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.

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: U.S. GOVERNMENT PRINTING OFFICE: 1990-832-998

Township 20 South, Range 7 West, Sections 33 and 34, Willamette Meridian Township 21 South, Range 7 West, Sections 3, 4 and 5, Willamette Meridian

HARVEST AREA	HARVEST ACRES	HARVEST METHOD
1	14	CABLE
2	5	CABLE
3	5	CABLE
4	58	CABLE
5	16	CABLE
6	168	CABLE/GROUND
7	9	CABLE
Total	275	

THINNING AREA	275	Acres
RIGHT-OF-WAY (CLEARING)	4	Acres
TOTAL HARVEST AREA	279	Acres
RESERVE AREA	1023.54	Acres
TOTAL CONTRACT AREA	1302.54	Acres

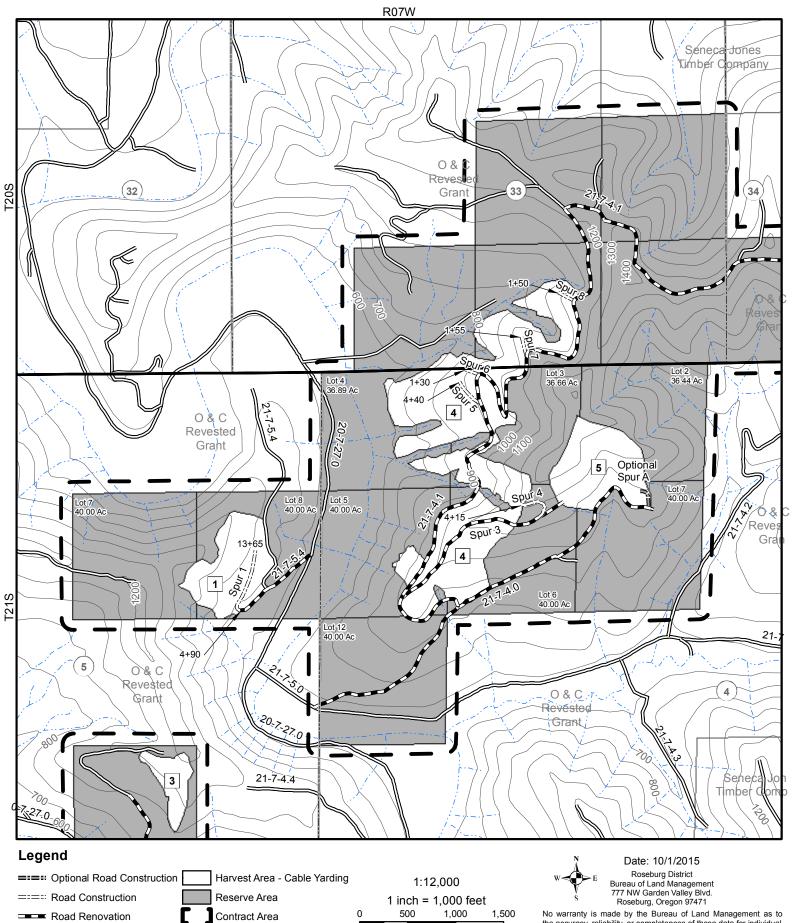
- 1. Boundaries are posted with tags that read "Boundary of Timber Reserve" and trees are blazed and painted orange. Trees marked with orange blazes are reserved by the government.
- 2. Clearing limits on road rights-of-ways are posted with tags that read "Right-of-Way".
- 3. Trees marked with yellow paint in all Harvest Areas are reserved by the government.
- 4. Ground-based yarding is limited to dry season operations and slopes 35% or less within the ground-based area shown on Exhibit A, approximately 40 acres.

Bureau of Land Management

= Existing Roads

## EXHIBIT A Sheet 2 of 4

Halfway There Contract # ORR04-TS-2016.0005



Feet

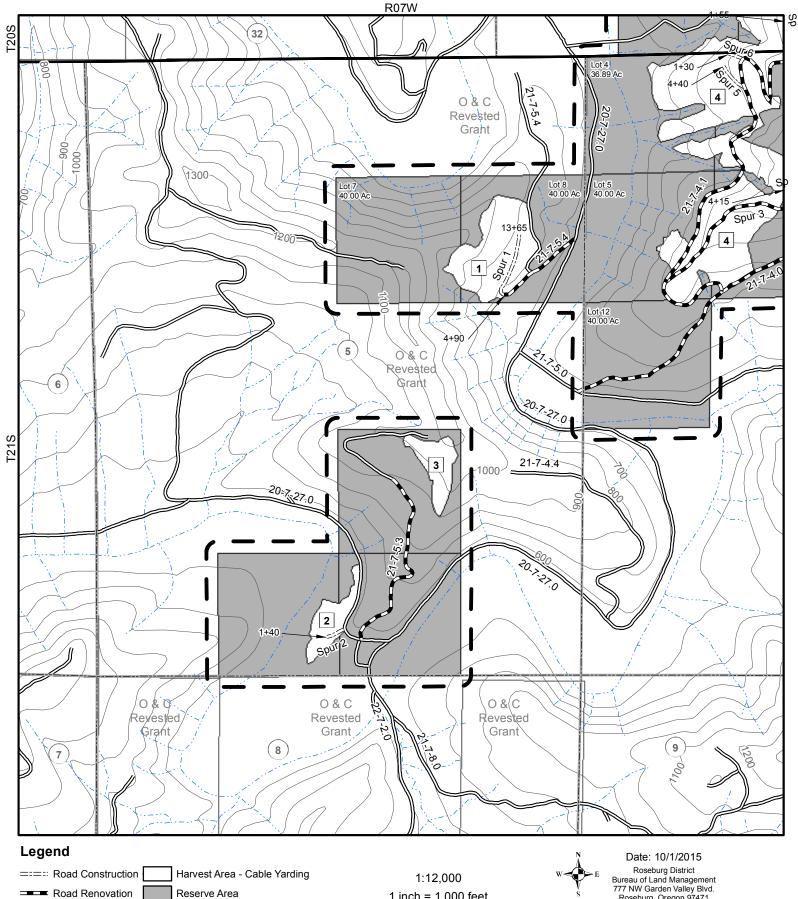
the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.



## EXHIBIT A

#### Sheet 3 of 4

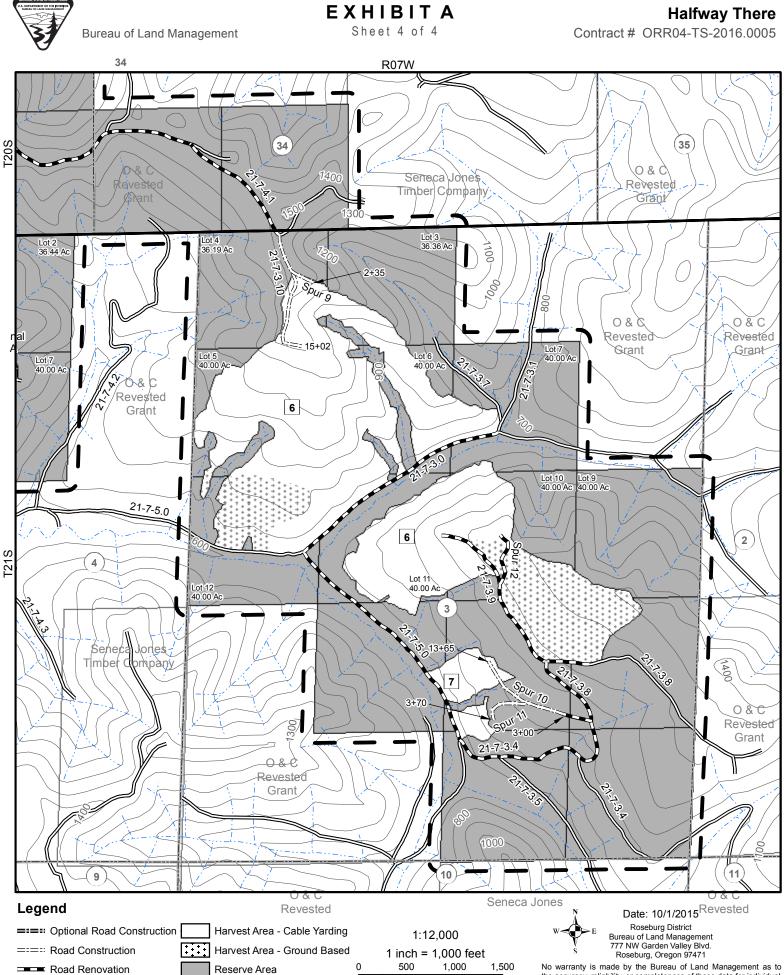
## Halfway There Contract # ORR04-TS-2016.0005



 Road Renovation
 Reserve Area
 1 inch = 1,000 feet
 s

 Existing Roads
 Contract Area
 0 500 1,000 1,500 the accurate or aggregation or aggrega

V 777 NW Garden Valley Blvd. S Roseburg, Oregon 97471 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.



Feet

= Existing Roads

Contract Area

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. Form 5450-3a

(February 1986)

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

<sup>Contract No.</sup> ORR04-TS-2016.0005 Halfway There

#### EXHIBIT B / PRE-SALE

5450-3

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 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 as provided in Sec. 2, Purchaser shall be liable for total purchase price even though 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 **Exhibit A**.

SPECIES	ESTIMATED VOLUM (Units Spec	E OR QU cified)	ANTITY		PRICE PER UNIT	ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas Fir		6,5	580.0	MBF	\$104.60	\$688,268.00
Western Hemlock		2	111.0	MBF	\$39.90	\$16,398.90
Western Redcedar			26.0	MBF	\$165.60	\$4,305.60
TOTALS			7,017.0	MBF		\$708,972.50
The apportionment of the total purcha	se price is as follows:					
<u>Unit 1</u>						
Douglas Fir	318.0 MBF	Х	\$104.60	=	\$33,262.80	
Western Hemlock	20.0 MBF	Х	\$39.90	=	\$798.00	
Western Redcedar	1.0 MBF	Х	\$165.60	=	\$165.60	
Total	339.0 Mbf				\$34,226.40	÷ 14.0 acres = \$2,444.74/Acre
Unit 2						
Douglas Fir	114.0 MBF	Х	\$104.60	=	\$11,924.40	
Western Hemlock	7.0 MBF	Х	\$39.90	=	\$279.30	
Total	121.0 Mbf				\$12,203.70	÷ 5.0 acres = \$2,440.74/Acre
Unit 3						
Douglas Fir	114.0 MBF	Х	\$104.60	=	\$11,924.40	
Western Hemlock	7.0 MBF	Х	\$39.90	=	\$279.30	
Total	121.0 Mbf				\$12,203.70	÷ 5.0 acres = \$2,440.74/Acre
<u>Unit 4</u>						
Douglas Fir	1,393.0 MBF	Х	\$104.60	=	\$145,707.80	
Western Hemlock	88.0 MBF	Х	\$39.90	=	\$3,511.20	
Western Redcedar	5.0 MBF	Х	\$165.60	=	\$828.00	
Total	1486.0 Mbf				\$150,047.00	÷ 58.0 acres = \$2,587.02/Acre
<u>Unit 5</u>						
Douglas Fir	364.0 MBF	Х	\$104.60	=	\$38,074.40	
Western Hemlock	22.0 MBF	Х	\$39.90	=	\$877.80	
Western Redcedar	1.0 MBF	Х	\$165.60	=	\$165.60	
Total	387.0 Mbf				\$39,117.80	÷ 16.0 acres = \$2,444.86/Acre

Form 5450-3a

(February 1986)

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

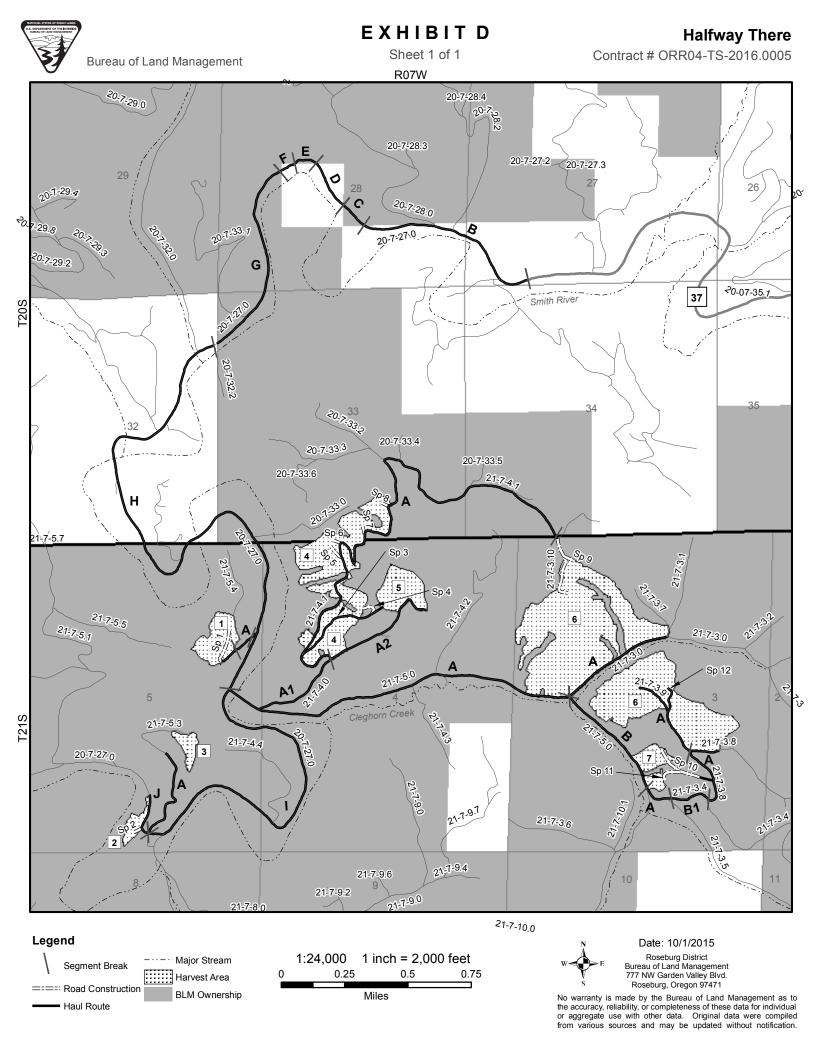
<sup>Contract No.</sup> ORR04-TS-2016.0005 Halfway There

## EXHIBIT B / PRE-SALE

5450-3

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 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 as provided in Sec. 2, Purchaser shall be liable for total purchase price even though 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 **Exhibit A**.

<u>Unit 6</u>						
Douglas Fir	3,867.0 MBF	Х	\$104.60	=	\$404,488.20	
Western Hemlock	243.0 MBF	Х	\$39.90	=	\$9,695.70	
Western Redcedar	14.0 MBF	Х	\$165.60	=	\$2,318.40	
Total	4124.0 Mbf				\$416,502.30	÷ 168.0 acres = \$2,479.18/Acre
<u>Unit 7</u>						
Douglas Fir	204.0 MBF	Х	\$104.60	=	\$21,338.40	
Western Hemlock	13.0 MBF	Х	\$39.90	=	\$518.70	
Western Redcedar	2.0 MBF	Х	\$165.60	=	\$331.20	
Total	219.0 Mbf				\$22,188.30	÷ 9.0 acres = \$2,465.37/Acre
Unit RW1						
Douglas Fir	26.0 MBF	Х	\$104.60	=	\$2,719.60	
Western Hemlock	9.0 MBF	Х	\$39.90	=	\$359.10	
Total	35.0 Mbf				\$3,078.70	÷ 1.0 acres = \$3,078.70/Acre
Unit RW2						
Douglas Fir	6.0 MBF	Х	\$104.60	=	\$627.60	
Total	6.0 Mbf				\$627.60	÷ 1.0 acres = \$627.60/Acre
Unit RW4						
Douglas Fir	43.0 MBF	Х	\$104.60	=	\$4,497.80	
Western Hemlock	1.0 MBF	Х	\$39.90	=	\$39.90	
Total	44.0 Mbf				\$4,537.70	÷ 1.0 acres = \$4,537.70/Acre
Unit RW6						
Douglas Fir	94.0 MBF	Х	\$104.60	=	\$9,832.40	
Western Hemlock	1.0 MBF	Х	\$39.90	=	\$39.90	
Total	95.0 Mbf				\$9,872.30	÷ 1.0 acres = \$9,872.30/Acre
Unit RW7						
Douglas Fir	37.0 MBF	Х	\$104.60	=	\$3,870.20	
Western Redcedar	3.0 MBF	Х	\$165.60	=	\$496.80	
– Total						



## U.S Department of the Interior Bureau of Land Management

#### Access & Maintenace List EXHIBIT D

Halfway There Contract # ORR04-TS-2016.0005

Road No.	Road Seg.	Segment Length	Segment Owner	Road Use Fees	Surface Type	Timber Haul Fees	Maintained By
20-7-27.0	В	0.84	BLM		BST	\$1.17	BLM
20-7-27.0	С	0.12	BLM		BST	\$1.17	BLM
20-7-27.0	D	0.16	BLM		BST	\$1.17	BLM
20-7-27.0	Е	0.05	BLM		BST	\$1.17	BLM
20-7-27.0	F	0.13	BLM		BST	\$1.17	BLM
20-7-27.0	G	0.80	BLM		BST	\$1.17	BLM
20-7-27.0	Н	2.40	BLM		BST	\$1.17	BLM
20-7-27.0	Ι	1.48	BLM		BST	\$1.17	BLM
20-7-27.0	J Por	0.17	BLM		BST	\$1.17	BLM
21-7-3.0	A Por	0.48	BLM		Rock	\$0.49	Purchaser
21-7-3.4	А	0.10	BLM		Rock	\$0.49	Purchaser
21-7-3.4	B1	0.17	BLM		Rock	\$0.49	Purchaser
21-7-3.8	A Por	0.38	BLM		Rock	\$0.49	Purchaser
21-7-3.9	А	0.35	BLM		Rock	\$0.49	Purchaser
21-7-3.10	А	0.28	BLM		Rock	\$0.49	Purchaser
21-7-4.0	A1	0.37	BLM		Rock	\$0.49	Purchaser
21-7-4.0	A2	0.50	BLM		Rock	\$0.49	Purchaser
21-7-4.1	A Por	2.39	BLM		Rock	\$0.49	Purchaser
21-7-5.0	А	1.45	BLM		Rock	\$1.25	BLM
21-7-5.0	В	0.50	BLM		Rock	\$1.25	BLM
21-7-5.3	A Por	0.40	BLM		Rock	\$0.49	Purchaser
21-7-5.4	A Por	0.12	BLM		Rock	\$0.49	Purchaser
Spur 1	А	0.26	BLM		Rock	\$0.49	Purchaser
Spur 2	А	0.03	BLM		Rock	\$0.49	Purchaser
Spur 3	А	0.39	BLM		Rock	\$0.49	Purchaser
Spur 4	А	0.08	BLM		Rock	\$0.49	Purchaser
Spur 5	А	0.08	BLM		Rock	\$0.49	Purchaser
Spur 6	А	0.03	BLM		Rock	\$0.49	Purchaser
Spur 7	А	0.03	BLM		Rock	\$0.49	Purchaser
Spur 8	А	0.03	BLM		Rock	\$0.49	Purchaser
Spur 9	А	0.05	BLM		Rock	\$0.49	Purchaser
Spur 10	А	0.26	BLM		Native		Purchaser
Spur 11	А	0.07	BLM		Native		Purchaser
Spur 12	А	0.12	BLM		Rock	\$0.49	Purchaser

\* Rockwear fees payable to the segment owner.

## **ROAD MAINTENANCE SPECIFICATIONS**

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

## **GENERAL - 3000**

- 3001 The Purchaser shall be required to maintain all roads listed and/or referenced in Section 42.D., Special Provisions of this contract in accordance with Sections 3000, 3100, 3200, 3300, 3400 and 3500 of this exhibit.
- 3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
- 3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

## **OPERATIONAL MAINTENANCE - 3100**

- 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3102 The Purchaser shall furnish and place 300 cu. yds. of aggregate, conforming to the requirements in Section 1200 of Exhibit C of this contract, on the roadway at locations and in the amounts designated by the Authorized Officer.

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

- 3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.

- 3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.
- 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.

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

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

- 3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- 3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

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

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

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

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

## **SEASONAL MAINTENANCE - 3200**

- 3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- 3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the proceeding operating seasons.
- 3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.
- 3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

#### FINAL MAINTENANCE - 3300

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

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

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

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

#### **OTHER MAINTENANCE - 3400**

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

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

#### **DECOMMISSIONING – 3500**

- 3501 Decommissioning shall consist of installing water bars, placement of slash and blocking road from access by vehicles. This work is not required for road acceptance under Section 18 of this contract.
- 3503 Decommissioning shall be performed on existing roads in accordance with these specifications, at the following locations:

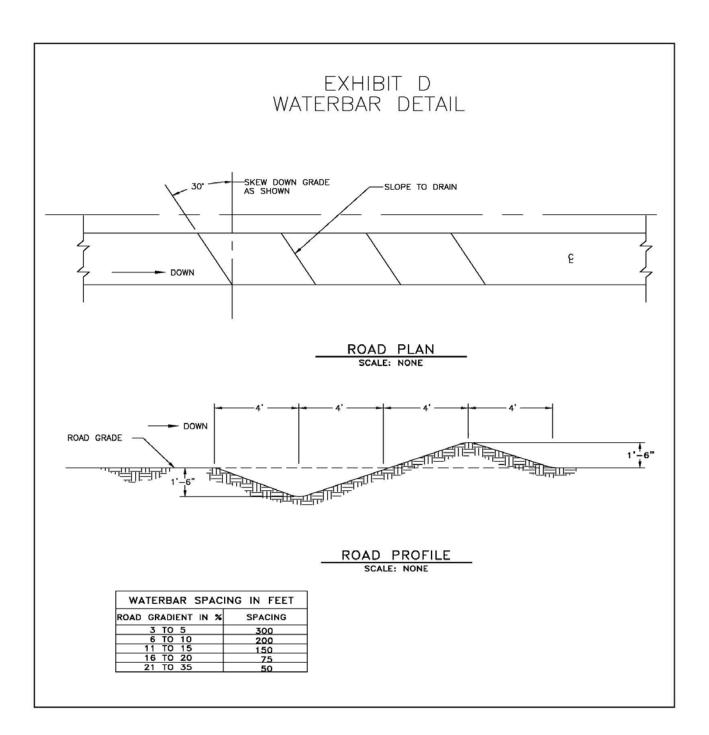
Road No.	From	То	Decommission
	Sta	Sta	
Spur 1	0+00	13+65	Blade, water bar, block
Spur 2	0+00	1+40	Blade, water bar, block
Spur 3	0+00	20+70	Blade, water bar, block
Spur 4	0+00	4+15	Blade, water bar, block
Spur 5	0+00	4+40	Blade, water bar, block
Spur 6	0+00	1+30	Blade, water bar, block
Spur 7	0+00	1+55	Blade, water bar, block
Spur 8	0+00	1+50	Blade, water bar, block

## **ROAD MAINTENANCE SPECIFICATIONS**

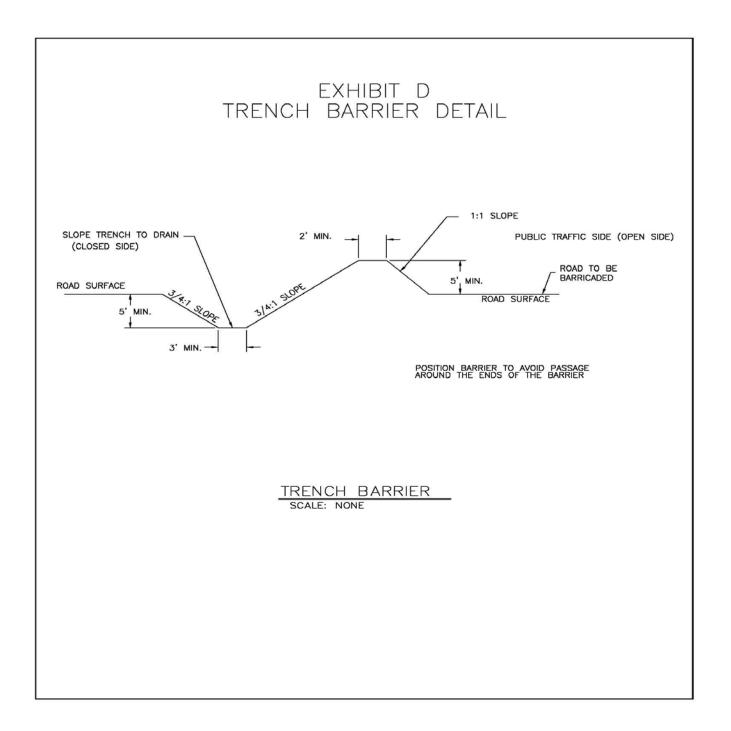
Spur 9	0+00	2+35	Blade, water bar, block
Spur 10	0+00	13+65	Blade, water bar, slash mulch,
			remove culvert, block
Spur 11	0+00	3+70	Blade, water bar, slash mulch,
			block
Spur 12	0+00	6+25	Blade, water bar, block

- 3504 Decommissioning work shall be completed at the end of timber hauling activities .
- 3506 Stockpiled slash shall be used to protect exposed areas created by the Purchaser's operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. Where slash is not available exposed soil areas shall be stabilized in accordance with Section 1800.
- 3509 Access shall be blocked with barricades as shown on the typical detail sheet and at locations as shown Subsection 3503.
- 3511 Water barring shall be done on designated roadways, turnouts, disturbed areas and landings.
- 3513 Water bars shall be installed across full width of roadway at locations and spacing shown in the specifications and typical detail sheet. Water bars shall be constructed as shown on typical detail sheet. No water bar will be installed closer than 50 feet to a draw crossing.
- 3514 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 on designated roadways, turnouts, disturbed areas, landings, cut banks, fill slopes and other areas disturbed by the purchaser's operations in accordance with these specifications.

## **ROAD MAINTENANCE SPECIFICATIONS**



## **ROAD MAINTENANCE SPECIFICATIONS**

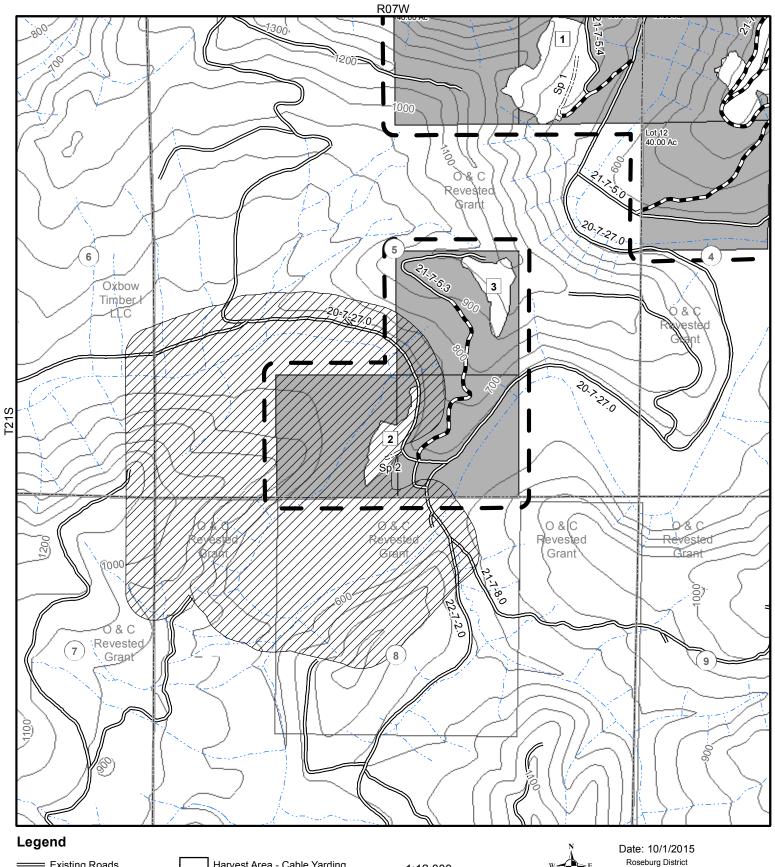


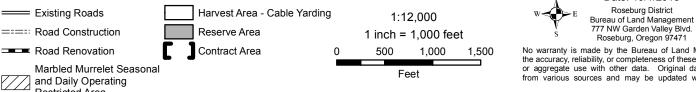


Restricted Area

# EXHIBIT E

Sheet 1 of 1





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.



**United States of America** 

**Department of the Interior** 

#### **Bureau Of Land Management**

## **Timber Sale Appraisal**

District : Roseburg Sale Name : Halfway There Sale Date : 11/17/2015 Appraisal Method : 16' MBF

Contract #: ORR04-TS-2016.0005 Job File #: R10-741 Master Unit : Douglas Planning Unit : Swiftwater

#### Contents

Timber Sale Summary	2
Stumpage Summary	4
Prospectus	5
Exhibit B	6
Volume Summary	9
Stump to Truck Costs	12
Other Allowances Costs	13
Consolidated Comments	14

## Timber - Sale - Summary

#### Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	20	7	33	SE1/4SW1/4, SE1/4
O&C	21	7	3	Lot 3, 4, 5, 6, 7, 9, 10, 11, & 12; NE1/4SW1/4, SE1/4
O&C	21	7	4	Lot 2, 3, 4, 5, 6, 7, & 12
O&C	21	7	5	Lot 7, 8, SE1/4SW1/4, W1/2SE1/4
	20	7	34	S1/2SW1/4

#### Cutting Volume (16' MBF)

Unit	DF	WH	WRC			Total	Regen	Partial	ROW
1	318	20	1			339	0	14	0
2	114	7				121	0	5	0
3	114	7				121	0	5	0
4	1,393	88	5			1,486	0	58	0
5	364	22	1			387	0	16	0
6	3,867	243	14			4,124	0	168	0
7	204	13	2			219	0	9	0
RW 1	26	9				35	0	0	1
RW 2	6					6	0	0	1
RW 4	43	1				44	0	0	1
RW 6	94	1				95	0	0	1
RW 7	37		3			40	0	0	1
Fotals	6,580	411	26			7,017	0	275	5

Roseburg Halfway There ORR04-TS-2016.0005

#### Logging Costs per 16' MBF

8.28
0.00
93.26
74.24
185.55

Equipment Cleaning	\$ 0.14
Slash Disposal	\$ 3.51
Total Other Allowances :	\$ 3.65

Total Logging Costs per 16' MBF	\$	364.98
Utilization Centers		
Center #1 : Winchester	5	2 Miles
Center #2		0 Miles
Weighted distance to Utilization Centers		52
Length of Contract		
Cutting and Removal Time	3	6 Months
Personal Property Removal Time		1 Months

Profit & Risk

T . I.D. C. 0.D.		11 %	
Total Profit & Ri		, <b>.</b>	
Basic Profit & Ri	isk 11 % + Additional I		
Back Off		0 %	
	Tract Feature	<b>S</b>	
Avg Log	Douglas-fir : 53 bf	All : 52 bf	
Recovery	Douglas-fir : 96 %	All : 96 %	
Salvage	Douglas-fir : 0 %	All : 0 %	
Avg Volume (	16' MBF per Acre)	25	
Avg Yarding Slop	pe	40	%
Avg Yarding Dist	tance (feet)	650	
Avg Age		0	
Volume Cable		80	%
Volume Ground		20	%
Volume Aerial		0	%
Road Construction	on Stations	54.77	
Road Improveme	ent Stations	0.00	
Road Renovation	n Stations	332.95	
Road Decomissio	on Stations	74.60	
	Cruise		
Cruised By		JC, CK, JB, DW	
Date		03/31/2015	
Type of Cruise		PCMTRE, 3-P, 100%	
County, State		Douglas, OR	
	Net Volume		
Green (16' MBF)	)	7,017	
Salvage (16' MB	F)	0	
Douglas-fir Peele	er	0	
Export Volume		0	
-	ce (\$0.75 per 16' MBF)	\$5,262.75	

Roseburg Halfway There ORR04-TS-2016.0005

## 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	29,579	6,580	\$ 527.64	\$ 58.04	\$ 364.98			\$ 104.60	\$ 688,268.00	
WH	2,733	411	\$ 398.52	\$ 43.84	\$ 364.98			\$ 39.90	\$ 16,398.90	
WRC	98	26	\$ 596.13	\$ 65.57	\$ 364.98			\$ 165.60	\$ 4,305.60	
Totals	32,410	7,017							\$ 708,972.50	

#### Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Douglas-fir				40.0	54.0	6.0
Western Hemlock				32.0	59.0	9.0
Western red-cedar			83.0	17.0		

#### **Marginal Log Volume**

Species	Grade #7	Grade #8
Douglas-fir		
Western Hemlock		
Western red-cedar		

Appraised By :	Kress, Christopher	Date :	08/19/2015
Area Approval By :	Coppersmith, Jason	Date :	09/17/2015
District Approval By :	Snider, Douglas	Date :	11/09/2015

## Prospectus

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	29,579	6,580	5,447	
Western Hemlock	2,733	411	343	
Western red-cedar	98	26	20	
Total	32,410	7,017	5,810	

			All Species			
Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
7,345	32,410	226	14.1	7,328	139,659	52
Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
139,659	143	139,802	4.3	7,017	7,345	96 %
			Douglas-fir			
Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
6,841	29,579	231	14.2	6,839	129,939	53
Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
129,939	30	129,969	4.4	6,580	6,841	96 %

Cutting Areas						
Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres		
1		14		14		
2		5		5		
3		5		5		
4		58		58		
5		16		16		
6		168		168		
7		9		9		
RW 1			1	1		
RW 2			1	1		
RW 4			1	1		
RW 6			1	1		
RW 7			1	1		
Totals :		275	5	280		

#### 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.

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	6,580		
Western Hemlock	411		
Western red-cedar	26		
Sale Totals	7,017		

#### Sale Totals (16' MBF)

#### Unit Details (16' MB)

Unit 1	14 Acres	Value per	Acre : \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	318		
Western Hemlock	20		
Western red-cedar	1		
Unit Totals	339		

Unit 2		5 Acres	Value per Acre : \$0.00		
		Net	Bid	Species	

Species	Volume	Bid Price	Species Value
Douglas-fir	114		
Western Hemlock	7		
Unit Totals	121		

Unit 3 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	114		
Western Hemlock	7		
Unit Totals	121		

Roseburg Halfway There ORR04-TS-2016.0005

Unit 4	58 Acres	Value pe	r Acre : \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	1,393		
Western Hemlock	88		
Western red-cedar	5		
Unit Totals	1,486		

Unit 5 16 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	364		
Western Hemlock	22		
Western red-cedar	1		
Unit Totals	387		

Unit6168 AcresValue per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	3,867		
Western Hemlock	243		
Western red-cedar	14		
Unit Totals	4,124		

Unit	7	9 Acres	Value per	Acre : \$0.00
	Species	Net Volume	Bid Price	Species Value

Douglas-fir	204	
Western Hemlock	13	
Western red-cedar	2	
Unit Totals	219	

Unit RW1 1 Acres

#### Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	26		
Western Hemlock	9		
Unit Totals	35		

Unit RW 2

Value per Acre : \$0.00

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

1 Acres

Roseburg Halfway There ORR04-TS-2016.0005

Unit RW 4	1 Acres	Value per	Acre : \$0.00
Species	Net Volume	Bid Price	Species Value
Douglas-fir	43		
Western Hemlock	1		
Unit Totals	44		

Unit	RW 6	1 Acres	Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	94		
Western Hemlock	1		
Unit Totals	95		

Unit RW 7

Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	37		
Western red-cedar	3		
Unit Totals	40		

1 Acres

Roseburg Halfway There ORR04-TS-2016.0005

## **Volume Summary**

#### **Sale Volume Totals**

280 Ac	res		0 Reg	gen	27	5 Partial		5 R/V	N	14	Units	
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Net	16' MBF GM	16' MBF Gross	32' MBF Net	32' MBF GM	32' MBF Gross	CCF Net	CCF GM	CCF Gross
Douglas-fir	29,579	129,939	30	6,580	6,839	6,841	5,447	5,654	5,655	0	0	0
Western Hemlock	2,733	9,388	55	411	459	466	343	382	389	0	0	0
Western red-cedar	98	332	58	26	30	38	20	24	29	0	0	0
Totals	32,410	139,659	143	7,017	7,328	7,345	5,810	6,060	6,073	0	0	0

#### **Unit Totals**

Unit: 1	14 Acres		0 Reger	1	14 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,437	6,371		331	331	318
Western Hemlock	133	457	1	23	22	20
Western red-cedar	4	15	2	2	1	1
Unit Totals	1,574	6,843	3	356	354	339

Unit: 2	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	513	2,275		118	118	114
Western Hemlock	48	163		8	8	7
Unit Totals	561	2,438		126	126	121

Unit: 3	5 Acres		0 Reger	n	5 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	513	2,275		118	118	114
Western Hemlock	48	163		8	8	7
Unit Totals	561	2,438		126	126	121

Unit: 4	58 Acres		0 Reger	1	58 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	6,353	27,566	2	1,448	1,448	1,393
Western Hemlock	603	2,040	21	100	99	88
Western red-cedar	18	62	11	7	6	5

Roseburg Halfway There ORR04-TS-2016.0005

DORENTO OF EARLY MAINTERIN							
Unit Totals	6,974	29,668	34	1,555	1,553	1,486	

Unit: 5	16 Acres		0 Reger	ı	16 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,642	7,282		378	378	364
Western Hemlock	152	522	1	26	25	22
Western red-cedar	5	17	3	2	2	1
Unit Totals	1,799	7,821	4	406	405	387

Unit: 6	168 Acres		0 Regen	l	168 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	17,415	77,142	3	4,021	4,021	3,867
Western Hemlock	1,617	5,560	14	275	272	243
Western red-cedar	50	180	32	21	16	14
Unit Totals	19,082	82,882	49	4,317	4,309	4,124

Unit: 7	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	924	4,096		213	213	204
Western Hemlock	86	294		14	14	13
Western red-cedar	16	36	7	3	2	2
Unit Totals	1,026	4,426	7	230	229	219

Unit: RW 1	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	104	390		26	26	26
Western Hemlock	28	135	11	10	9	9
Unit Totals	132	525	11	36	35	35

Unit: RW 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	17	96		7	7	6
Unit Totals	17	96		7	7	6

Unit: RW 4	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	175	640	4	45	45	43

Roseburg Halfway There ORR04-TS-2016.0005

DU	DOREAU OF LAND MANAGEMENT								
Western Hemlock	6	19	4	1	1	1			
Unit Totals	181	659	8	46	46	44			

Unit: RW 6	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	398	1,311	19	98	96	94
Western Hemlock	12	35	3	1	1	1
Unit Totals	410	1,346	22	99	97	95

Unit: RW 7	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	88	495	2	38	38	37
Western red-cedar	5	22	3	3	3	3
Unit Totals	93	517	5	41	41	40

10:04:38AM

## 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
\$ 1,302,030.67	7,017	\$ 185.55

#### Detail

#### Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Short Twr<40	Gross Merch	4,550	\$ 146.54	\$ 666,757.00
Short Twr<40	Gross Merch	1,315	\$ 366.36	\$ 481,763.40
Wheel Skidder	Gross Merch	1,005	\$ 111.87	\$ 112,429.35
Track Skidder	Gross Merch	226	\$ 86.42	\$ 19,530.92
Subtotal				\$ 1,280,480.67

#### **Other Costs**

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Int. Support	Tree	40	\$ 250.00	\$ 10,000.00
Lift Tree	Tree	77	\$ 150.00	\$ 11,550.00
Subtotal				\$ 21,550.00

#### **Additional Move-Ins**

Equipment	# Move-In	Cost / Move In	Total Cost
Subtotal			

#### **Other Allowances Costs**

	Total (16' MBF)								
Total Other Allowances Costs	Net Volume	Cost / Net Volume *	Total Buy Out Cost						
\$25,590.00	7,017	\$3.65	\$5,038.90						

#### Equipment Cleaning

#### Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Yarder	\$ 165.00	\$ 0.02	Ν	\$ 0.00
Shovel	\$ 495.00	\$ 0.07	Ν	\$ 0.00
Track Skidder	\$ 165.00	\$ 0.02	Ν	\$ 0.00
Wheel Skidder	\$ 165.00	\$ 0.02	Ν	\$ 0.00
Subtotal	\$ 990.00	\$ 0.14		\$ 0.00

#### Slash Disposal

#### Detail (16' MBF)

	Total	Cost /	Buy	Buy Out
Cost Item	Cost	Net Vol *	Out	Cost
Landings-All (clean-up, covering, piling, burning)	\$ 20,500.00	\$ 2.92	Ν	\$ 0.00
Landings-All (clean-up, covering, piling, burning)	\$ 4,100.00	\$ 0.58	Y	\$ 5,038.90
Subtotal	\$ 24,600.00	\$ 3.51		\$ 5,038.90

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

#### **Consolidated Comments**

General Yarding & Loading -All logging plans are Cruisers estimates. -All yarding systems were appraised with \$2.25/gal and 4500 bf/load. -Short tower #1 is for uphill cable yarding 4550 GM. Uphill cable yarding was appraised for 3 cutters at 4 loads/day. -Short Tower #2 is for downhill cable yarding 1315 GM. Downhill cable yarding was appraised for 3 cutters at 2 loads/day. -Wheel Skidder is appraised for 1008 GM of Tractor ground at 5 loads/day with 3 cutters -Track Skidder is appraised for 226 GM of Right-Of-Ways at 6 loads/day with 2 cutters - 232 MBF is appraised for daylighting in the "C" package. **Road Costs** To BLM: Maintenance: \$41,803.11 Rockwear: \$6,826.03 Purchaser Credit: 9,446.24 (see Engineering Appraisal for details). Transportation -WTD Sale Area to I5 (Exit 150) = 38 miles/ 142.1 RTM -Exit 150 to Exit 129= 21 miles/ 42 RTM -60 minute delay -142.1+42+60= 244.1 RTM = 4.0 Hours (see Transportation appendix for details). **Other Allowances** -The purchaser has the option to buy out on the burning. -Equipment cleaning is for one cleaning of cable and ground base yarding equipment.

Prospectus

-3-P consited of Douglas-fir up to 22", 100% cruised 24" DF's & bigger and minors

Version: 5.2.0.10 Updated: 6/30/2014 Summary of All Roads and Projects T.S. Contract Name: Halfway There Tract No: 2016.0005 Sale Date: 11-17-15 Prepared by: T. King Ph: 3227 Print Date: 11/9/2015 3:11:46 PM Construction: 54.77 sta Improve: 0.00 sta Renov: 332.95 sta Decom: 0.00 sta Temp: 0.00 sta 200 Clearing and Grubbing: 12.0 acres ..... \$44,737.17 300 Excavation: 13,275 cy .....\$128,295.01 Haul < 500 ft: 0 sta-yds Haul > 500 ft: 10,173 yd-mi 400 Drainage: ..... \$17,412.68 Culvert: 0 lf DownSpout: 20 lf PolyPipe: 360 lf 500 Renovation: ..... \$19,429.23 Blading 5.55 mi 700-1200 Surfacing: .....\$427,131.33 Commercial Quarry Name: BLM STOCKPILE 130 LCY Commercial Quarry Name: WWD 11/2 80 LCY Commercial Quarry Name: WWD 3 10,140 LCY Commercial Quarry Name: WWD 6" 5,156 LCY 1300 Geotextiles: ..... \$0.00 1400 Slope Protection: ..... \$0.00 1800 Soil Stabilization: 0.9 acres ..... \$842.90 Includes Small Quantity Factor of 1.54 1900 Cattleguards: ..... \$0.00 2100 RoadSide Brushing: 8.7 acres ..... \$6,515.58 2300 Engineering: 15.02 sta. ..... \$2,490.17 2400 Minor Concrete: ..... \$0.00 2500 Gabions: ..... \$0.00 8000 Miscellaneous: ..... \$0.00 Mobilization: Const. \$6,422.90 Surf. \$1,138.00..... \$7,560.90 Quarry Development: ..... \$0.00 Total: 7,017 mbf @ \$93.261/mbf = \$654,414.95 Notes: Quantities shown are estimates only and not pay items.

Surfacing Quantities are loose cubic yards.

#### ROAD CONSTRUCTION SUMMARY

Road	Туре		Clear	Excav	Drain	Reno-	Surf-	Soil	Rdside	Engin-	Mobil-	Sub-
Number	1/	Miles	Grubb	-ation	-age	vation	acing	Stabil	Brush	eering	ization	Total
21-7-3.0	R	0.48				\$700 0.48mi			\$692 1.2ac		\$14	\$1,406
21-7-3.10	С	0.28	\$5,147 1.4acres	\$105,542 11513cy	\$1,790 4/ 36' 5/ 10'		\$32,273 1094LCY	\$843 0.9ac		\$2,490 15.0sta	\$1,551	\$149,636
21-7-3.4	R	0.28	\$1,068			\$1,011			\$404 0.7ac		\$25	\$2,507
21-7-3.8	R	0.38	\$1,068			\$1,293			\$519 0.9ac		\$29	\$2,908
21-7-3.9	R	0.35	\$1,648 0.8acres	\$2,126		\$413 0.35mi	\$20,817 714LCY		\$461 0.8ac		\$305	\$25,771
21-7-4.0	R	0.89			\$4,588 4/ 102'	\$1,298 0.89mi	\$2,754 130LCY		\$1,269 2.2ac		\$108	\$10,017
21-7-4.1	R	2.29	\$21,007 5.6acres	\$327	\$9,416 4/ 186' 5/ 10'	\$3,339 2.29mi	\$244,177 8736LCY				\$3,404	\$281,670
21-7-5.0	R	0.48	\$2,136			\$700 0.48mi			\$1,384 1.2ac		\$42	\$4,262
21-7-5.3	R	0.38				\$554 0.38mi			\$1,038 0.9ac		\$16	\$1,608
21-7-5.4	R	0.12				\$175 0.12mi			\$346 0.3ac		\$5	\$526
Spur 1 con.	C	0.17	\$2,092 0.8acres	\$2,225 1064cy			\$14,077 569LCY				\$224	\$18,619
Spur 1 ren.	R	0.09				\$894 0.09mi	\$6,705 267LCY		\$231 0.2ac		\$97	\$7,927
Spur 10 con	С	0.20	\$3,479 1.0acres	\$4,871	\$1,619 4/ 36'						\$99	\$10,069
Spur 10 ren	R	0.06	\$660 0.1acres			\$1,371 0.08mi					\$20	\$2,051
Spur 11	C	0.07	\$1,164 0.3acres	\$1,647							\$28	\$2,839
Spur 12	R	0.12	\$229	\$245		\$1,324	\$5,098 259LCY		\$173 0.3ac		\$89	\$7,159
Spur 2	С	0.03	\$324 0.1acres	\$623			\$4,534 180LCY				\$68	\$5,549

Spur 3	R	0.39			\$6,357 0.39mi	\$32,715 1269LCY	\$481	\$39,553
Spur 4	С	0.08	\$946 0.4acres	\$1,217 469cy		\$9,241 342LCY	\$138	\$11,542
Spur 5	С	0.08	\$536 0.2acres	\$1,959		\$9,289 332LCY	\$141	\$11,926
Spur 6	С	0.02	\$496 0.2acres	\$1,158		\$6,827 244LCY	\$102	\$8,583
Spur 7	С	0.03	\$1,016 0.4acres	\$2,761		\$16,144 577LCY	\$240	\$20,161
Spur 8	С	0.03	\$969 0.4acres	\$2,672		\$15,641 559LCY	\$232	\$19,513
Spur 9	C	0.04	\$753 0.2acres	\$922 229cy		\$6,837 234LCY	\$102	\$8,614

1/ Const/Impr/Renov/Decom/Temp 2/ yd-miles haul 3/ Lin ft CMP 4/ Lin ft Polypipe 5/ Lin ft Downspout 6/ slide removal cy

## TIMBER SALE ROAD SPECIFICATIONS

## TABLE OF CONTENTS

SECTION	DESCRIPTION
100	General
200	Clearing and Grubbing
300	Excavation and Embankment
400	Pipe Culverts
500	Renovation and Improvement of Existing Roads
600	Watering
1000	Aggregate Base Course - Crushed Rock
1200	Aggregate Surface Course - Crushed Rock
1700	Erosion Control
1800	Soil Stabilization
2100	Roadside Brushing
2300	Slope Staking

## TIMBER SALE ROAD SPECIFICATIONS

#### **GENERAL - 100**

#### 101 - Prework Conference(s):

A prework conference will be held prior to the start of new construction, improvement, renovation, and quarry development, surfacing, and mulching 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 representatives, subcontractors and/or his or their representatives and the Authorized Officer and/or his representatives.

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

#### 102 - Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

## TIMBER SALE ROAD SPECIFICATIONS

<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 side casting material outside of the road prism.

Excess Excavation - 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.

## TIMBER SALE ROAD SPECIFICATIONS

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.

## TIMBER SALE ROAD SPECIFICATIONS

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

<u>Timber</u> - 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.

## TIMBER SALE ROAD SPECIFICATIONS

<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.

<u>Unaged Cloth</u> - Cloth in condition received from the manufacturer or distributor.

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

#### 102a - Tests Used in These Specifications:

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

#### AASHTO T 27

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

## AASHTO T 89

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

#### AASHTO T 90

Plastic limits and plasticity index of soil.

- a. Plastic limit lowest water content at which the soil remains plastic.
- b. Plasticity index range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.

#### AASHTO T 96

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

## AASHTO T 99

Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve

#### TIMBER SALE ROAD SPECIFICATIONS

25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.

AASHTO T 119 Slump of hydraulic cement concrete.

AASHTO T 152 Air content of freshly mixed concrete.

<u>AASHTO T 166</u> Specific Gravity of compacted Bituminous Mixtures.

<u>AASHTO T 176</u>

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

AASHTO T 180

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

<u>AASHTO T 191</u>

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

AASHTO T 205

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

AASHTO T 209

Maximum Specific Gravity of Bituminous Paving Mixtures.

AASHTO T 210

Durability of aggregates based on resistance to produce fines.

<u>AASHTO T 224</u>

Correction for coarse particles in the soil.

AASHTO T 238

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

AASHTO T 248

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

<u>ASTM D 4564</u>

Determination of relative density of cohensionless soils.

## TIMBER SALE ROAD SPECIFICATIONS

#### DMSO (dimethyl sulfide)

Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

- 103 Compaction equipment shall meet the following requirements:
- 103f <u>Vibratory roller.</u> The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer. The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.
- 103g <u>Vibratory compactor</u>. Vibratory compactors shall consist of multiple or gang-type compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.
- 103h Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.
- 103i <u>Other.</u> Compaction equipment approved by the Authorized Officer.

## **CLEARING AND GRUBBING - 200**

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

## TIMBER SALE ROAD SPECIFICATIONS

- Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 203 Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 as posted.
- 203a Brush less than 2 feet in height need not be cut within the limits established for clearing.
- 203b Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a and 204c between the top of the cut slope and the toe of the fill slope.
- 204a Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.
- 204c On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 205 Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- 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.
- 213 No clearing or grubbing debris shall be left lodged against standing trees.

## **EXCAVATION AND EMBANKMENT - 300**

 This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, and disposal of excess and unsuitable materials, and other earth-moving work in accordance with these

specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

- Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with metal tags.
- 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.
- 305 Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earthmoving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 305a Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 12 inches in depth.
- 305c-Embankments formed of material containing less than 25 percent rock not larger<br/>than 8 inches in the greatest dimension shall be placed in 12-inch layers.<br/>Material containing more than 25 percent rock not larger than 12- inches in the

greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12-inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.

- Layers of embankment, selected borrow, final subgrade and selected roadway excavation material as specified under Subsections 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f, 103g, 103h and 103i.
- 306a Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be a minimum of 4 passes over each full-width layer or until visual displacement ceases.
- Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- 321c End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- 324 Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 327 The finished grading shall be approved by the Authorized Officer in segments or for the total project. The Purchaser shall give the Authorized Officer 3 days' notice prior to start of surfacing operations.

#### **PIPE CULVERTS - 400**

401 - This work shall consist of furnishing and installing pipe culverts and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer upon completion of the roadbed and upon installation of the appurtenance structures. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.

- 403 Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade. Grade culverts shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- 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.
- 405b Corrugated-aluminum-alloy pipe culverts and pipe-arch culverts shall conform to the requirements of AASHTO M 196.
- 405e Corrugated-polyethylene pipe for culverts 12-inch through 36-inch diameter shall meet the requirements of AASHTO M 294. Installation will be subject to the same specification as other pipe materials.
- 407 Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined, and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.

- 410 Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411 Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram that are shown on the Culvert Installation Detail Sheet.
- Where ledge rock or boulders are encountered, they shall be excavated a minimum of 10 inches below the invert grade for a width of at least 2 feet on each side of the pipe and shall be backfilled with compacted select fill.
- 412a Where soft or spongy soils are encountered, they shall be excavated a minimum of 2 feet below the invert grade for a width of at least one pipe diameter on each side of the pipe and shall be backfilled with compacted select fill.
- Select-fill material for pipe culverts shall be well graded crushed rock material free of excess moisture and devoid of rocks or stones 3 inches or larger which may impinge upon and damage the pipe or otherwise interfere with proper compaction.
- 417 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 12 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 uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers as specified in Subsection 306A.
- 418 Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- 423 Construction of catch basins conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for culverts.

- 424 Construction of splash pads conforming to lines, grades, dimensions and typical diagram shown on the plans, shall be required for culverts as stated on the renovation notes and culvert summary.
- 427 Record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.
- 428 Remove and dispose of old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the work site prior to road acceptance.

#### **RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500**

- 501 This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes and installing, cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans and as marked on the ground with metal tags.
- 502 The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 502a Rocks larger than 4 inches in maximum dimension shall be removed from the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 504 Existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections103f, 103h, and 103i.
- 504a Minimum compaction required shall be 3 passes over each full-width layer or until visual displacement ceases.
- 506 The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe

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

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

#### WATERING - 600

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

### AGGREGATE BASE COURSE - 1000 CRUSHED ROCK MATERIAL

1001 - This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock material on roadbeds and landings 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

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conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.

- 1002a Crushed rock materials may be obtained from commercial sources selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- 1003 Crushed rock material produced from gravel shall have 2 manufactured fractured faces on 65 percent, by weight, of the material retained on the No. 4 sieve.
- 1004 Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements:

#### <u>TABLE 1004</u> <u>AGGREGATE BASE COURSE</u> <u>CRUSHED ROCK MATERIAL</u> Percentage by Weight Passing Square Mesh Sieves (AASHTO T 11 & T 27) GRADATION

Sieve Designation	А	В	С	D	F	G	Н	I
6-inch		-	-	-	-	-	-	100
3-inch	100	-	100	-	100	-	-	45-65
2-inch	90-95	100	-	100	65-95	100	100	-
1 1/2-inch	-	90-95	-	-	-	-	-	-
1-inch	45-75	50-90	-	-	-	50-85	60-90	-
3/4-inch	-	-	-	-	28-70	-	-	-
1/2-inch	-	-	-	-	-	27-60	44-70	-
3/8-inch	-	-	-	-	-	-	-	-
No. 4	15-45	15-50	-	-	10-35	15-40	28-50	0-10
No. 8	-	-	-	-	-	-	20-41	-
No. 10	-	-	-	-	-	-	-	-
No. 30	-	-	-	-	5-22	8-26	9-26	-
No. 40	5-25	5-25	-	-	-	-	-	-
No. 200	2-15	2-15	-	-	3-10	3-12	3-12	-

1006 - Crushed rock material shall show durability value of not less than 35, as determined by AASHTO T 210.

- 1008a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1009 The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved by the Authorized Officer prior to placement of crushed rock materials. Notification for final inspection prior to rocking shall be 3 days' notice prior to that inspection.
- 1010 Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and compacted in layers not to exceed 8 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 adding or removing crushed rock material until the surface is smooth and uniform.
- 1010a Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing under this specification unless approved as such by the Authorized Officer prior to placement.
- 1012 Each layer of crushed rock material shall be placed, processed, shaped, moistened or dried to uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsection 103f and 103i. Minimum compaction shall be 3 passes over each full-width layer or until visual displacement ceases.

#### AGGREGATE SURFACE COURSE - 1200 CRUSHED ROCK MATERIAL

1201 - This work shall consist of furnishing, hauling and placing one or more layers of crushed rock material on roadbeds approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these

specifications will be rejected, and shall be removed from the road at the purchaser's expense.

- 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.
- 1203 When crushed rock material is produced from gravel, not less than 65 percent by weight of the particles retained on the No. 4 sieve will have 2 manufactured fractured faces.
- 1204 Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

<u>TABLE 1204</u>						
AGGREGATE SURFACE COURSE						
CRUSHED ROCK MATERIAL						
Percentage by weight passing square mesh sieves						
(AASHTO T 11 & T 27) GRADATION						

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

- 1206 Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.
- 1206a The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.

- 1208a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- Shaping and compacting of base course shall be completed and approved, prior to placing crushed rock material, in accordance to the requirements of Subsection 500.
- 1210 Crushed rock material conforming to the requirements of these specifications shall be placed on the approved base course 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.
- 1212 Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f and 103h. Minimum compaction shall be 3 passes over each full-width layer or until visual displacement ceases.

#### **EROSION CONTROL - 1700**

- 1701 This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.
- 1708a Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage

to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

#### 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. This work is not required for road acceptance under Section 18 of this contract.
- 1802a Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation, landings, and disposal sites in accordance with these specifications.
- 1803 Soil stabilization work as specified under Subsections 1802 and 1802a shall be performed during the following seasonal period:

From: September 15	To: October 31
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If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Subsection 1701 and then complete the requirements of Section 1800 the next construction season. The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

- 1804 The BLM shall provide native grass/forb seed.
- 1806a Additional soil stabilization work consisting of seeding and mulching, may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 1808 Mulch materials conforming to the requirements of Subsection 1808a shall be furnished by the Purchaser.

- 1808a Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.
- 1809 Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.
- 1815b Dry Method Blowers, mechanical seeders or other approved mechanical seeding equipment may be used when seed and mulch are to be applied in dry form.
- 1819 The Purchaser shall notify the Authorized Officer at least (3) days in advance of date he intends to commence the specified soil stabilization work.
- 1821 Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- 1824 Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

#### **ROADSIDE BRUSHING - 2100**

- 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, selfpropelled equipment and/or manually with hand tools, including chain saws.
- 2103 Vegetation cut manually and/ or mechanically less than 6 inches in diameter
   when measured 6 inches above the ground shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps

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on cut and fill slopes and all limbs below the 2 inch area will be severed from the trunk.

- 2103a Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 4 inches above the ground and running surface. Limbs below the 4 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- 2104 Trees in excess of 6 inches in diameter when measured 6 inches above the ground line shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2106 Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a distance of 15 feet from edge of subgrade, 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.
- 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.

- 2115 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2116 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

#### **SLOPE STAKING - 2300**

- This work shall consist of slope staking and referencing road locations from slope stake notes furnished by the BLM in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Slope stakes shall consist of 1-3/4 inch x 1/4 inch smooth-finished wood slats of good quality, approximately 18 inches in length and tipped with red luminous paint.
- 2303 Slope stakes shall be set as follows:
  - (a) A slope stake shall be set at the top of the cut slope for cut and fill and full bench sections.
  - (c) For fill sections, only the uphill side shall be staked, unless otherwise specified.
  - (e) For balanced sections both sides of the road shall be staked.
  - (f) Stakes shall be set at every station and a maximum interval of 100 feet.
  - (g) The slope stake shall be moved back to the reference stake at time of staking. The Purchaser shall reset the slope stakes after completion of clearing and grubbing operations.
  - (h) Daylight locations will be staked as directed by the Authorized Officer. A reference marker is not required for daylight points.

- A reference marker consisting of an aluminum tag nailed or stapled to the base of a stump or tree shall be set for each slope stake. If no stumps or trees are available, a stake identical to that used for slope staking may be used.
   Reference markers shall be readily visible from the slope stake and set outside the expected construction zone.
- 2306 Locations in which the stakes are placed in heavy brush and are difficult to see shall have the brush flagged with bright color flagging in such a manner as to facilitate relocation of the stakes.
- 2307 Culvert locations shall be identified with a stake meeting the requirements of Subsection 2302 placed alongside the reference stake or slope stake.
- 2308 Culvert locations shall have extra widening added to the catch basin side of the roadway based on 1-1/2 times the culvert diameter.
- 2309 Stationing used is "L" or final location stationing.
- 2310 Stakes shall be marked with black-lumber crayon or with a permanent waterproof felt-tip marker.
- \*2311 Slope and reference stakes shall be set to the following standards of accuracy:

maximum allowable horizontal error +/-	.5 foot
maximum allowable vertical error +/-	.25 foot

- 2312 The Purchaser shall complete the required slope staking a minimum of (5) days in advance of construction unless otherwise agreed. Staking, and slope staking notes, shall be approved in writing by the Authorized Officer prior to right-of-way clearing, timber falling, and construction.
- Data for slope staking is available at the BLM Roseburg District Office. P -Ground, Grade, Shift, and Template information shall be used to determine actual slope staked location.

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT ROSEBURG DISTRICT

TIMBER SALE EXHIBIT C

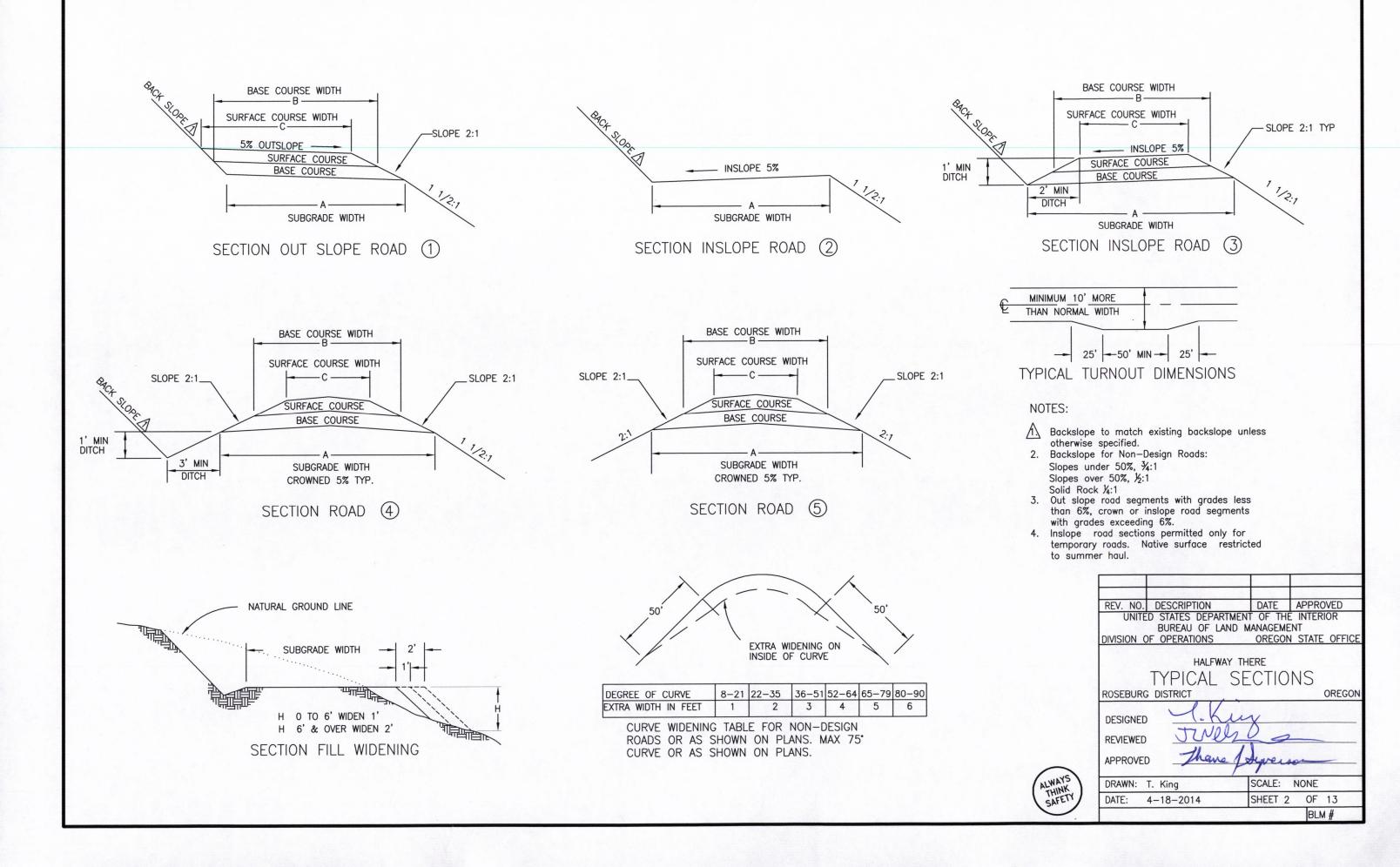
CONTRACT NAME: CONTRACT NO: HALFWAY THERE

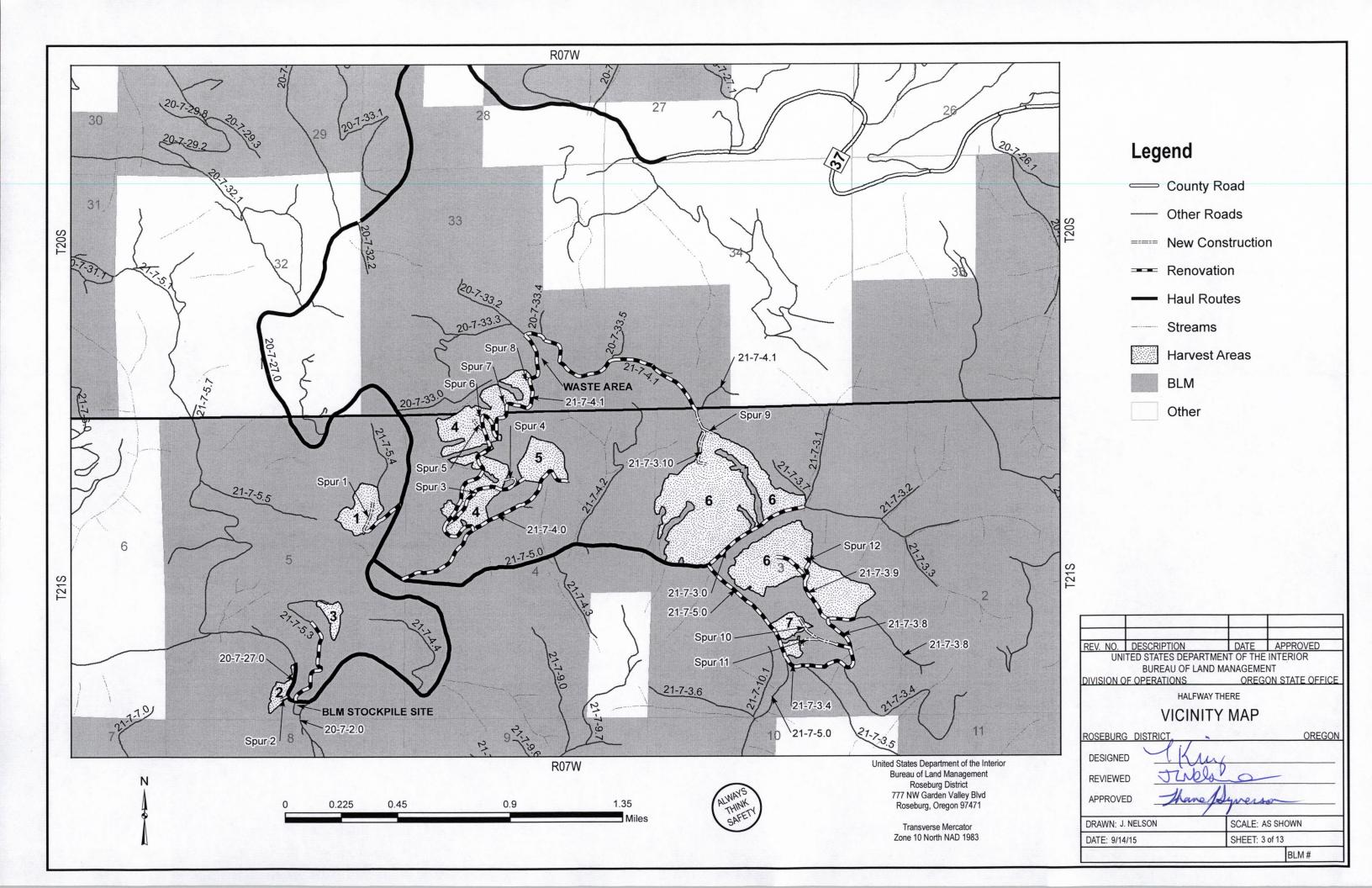
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ROAD NUMBER	STA/MP	то	STA/MP	CONST.	RENOV.	EXISTING	PROPOSED	BASE COURSE		ED SURFACE DURSE	ROAD	DIMENS	IONS	TYP. ROAD	SHEET
			en y m			TYPE	DEPTH	TYPE	DEPTH	TYPE	A	В	С	SECTION	NO.
1-7-3.0	0+00	-	25+20		Х	ROCK						EXISTING		4	4
1-7-3.4	0+00	-	14+90		X	ROCK						EXISTING		4	4
1-7-3.8	0+00	-	19+95		Х	ROCK						EXISTING	-	4	4
1-7-3.9	0+00	-	9+85	1	X	ROCK	1.1.1.1.1.1		3"	1004A		15	14	4	4
1-7-3.9	9+85	-	18+45	1	X	NATIVE	6"	10041	3"	1004A	15.5	14.5	14	1&2	4
1-7-3.10	0+00	-	15+02	X		N/A	6"	10041	3"	1004A	17	15	14	4	6
1-7-4.0	0+00	-	46+95		X	ROCK						EXISTING		4	4
1-7-4.1	0+00	-	120+95		X	ROCK			9"	1004A		15	12	4	4&5
1-7-5.0	0+00	-	25+40		X	ROCK						EXISTING		4	5
1-7-5.3	0+00	-	20+20		X	ROCK						EXISTING	1	4	5
1-7-5.4	0+00	-	6+10		Х	ROCK						EXISTING		4	5
PUR 1	0+00	-	4+90		Х	NATIVE	6"	10041	3"	1004A	15.5	14.5	14	1	7
PUR 1	4+90	-	13+65	X		N/A	6"	10041	3"	1004A	15.5	14.5	14	1&3	7
PUR 2	0+00	_	1+40	X		N/A	9"	10041			15.5	14		1	7
PUR 3	0+00	-	20+70		X	SUBSOIL	6"	10041	3"	1004A	15.5	14.5	14	1	5
PUR 4	0+00	-	4+15	X		N/A	6"	10041	3"	1004A	15.5	14.5	14	1&3	8
PUR 5	0+00	-	4+40	X		N/A	6"	10041	3"	1004A	15.5	14.5	14	1	8
PUR 6	0+00	-	1+30	X	1.502	N/A	9"	10041			15.5	14		1	8
PUR 7	0+00	_	1+55	X		N/A	9"	10041	Contraction of the		15.5	14		1	9
PUR 8	0+00	-	1+50	X		N/A	9"	10041			15.5	14		1	9
PUR 9	0+00	-	2+35	X	64. 1. 2. 6	N/A	6"	10041	3"	1004A	17	15	14	5	6
PUR 10	0+00	_	3+00		X	NATIVE					14			1&2	10
PUR 10	3+00	_	13+65	X		N/A					14			1&2	10
PUR 11	0+00	-	3+70	X		N/A					14			1&2	10
PUR 12	0+00	-	5+25		X	ROCK			3"	1004A	15	14		4	5
PUR 12	5+25	_	6+25		Х	ROCK	9"	10041			15.5	14		1	5
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	INDEX OF SHEETS					
SHEET	DESCRIPTION					
1	ROAD SUMMARY					
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6	PLAN AND PROFILE					
7-10	ROAD CONSTRUCTION PLANS					
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12	CULVERT INSTALLATIONS					
13	BRUSHING DETAILS					

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DATE:	09/11/15	and the	SHEET 1	OF 13	
				BLM #	1.1
	UNITE DIVISION ( ENGINEER SUBMITTE RECOMME APPROVEI DRAWN:	BUREAU OF DIVISION OF OPERATIONS HALFY ROAD ROSEBURG DISTRICT ENGINEERING APPROVAL SUBMITTED RECOMMENDED APPROVED DRAWN: T.KING	UNITED STATES DEPARTMENT BUREAU OF LAND M DIVISION OF OPERATIONS HALFWAY TH ROAD SUN ROSEBURG DISTRICT ENGINEERING APPROVAL SUBMITTED RECOMMENDED APPROVED DRAWN: T.KING	UNITED STATES DEPARTMENT OF THI BUREAU OF LAND MANAGEME DIVISION OF OPERATIONS OREGON HALFWAY THERE ROAD SUMMAR ROSEBURG DISTRICT ENGINEERING APPROVAL SUBMITTED RECOMMENDED APPROVED DRAWN: T.KING SCALE:	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT DIVISION OF OPERATIONS OREGON STATE OFFI HALFWAY THERE ROAD SUMMARY ROSEBURG DISTRICT OREG ENGINEERING APPROVAL SUBMITTED RECOMMENDED APPROVED DRAWN: T.KING SCALE: AS SHOWN DATE: 09/11/15 SHEET 1 OF 13





### ROAD RENOVATION

Notes:

- 1. All roads shall be renovated in accordance with attached specifications and the work items listed below. Renovation may include roadside brushing, installing culverts and splash pads, blading, shaping, cleaning ditches, removing slide material, and cleaning existing drainage structures. Features to construct are so noted. Existing features are noted at approximate station in the notes below. Place 20 cy of 1204C crushed rock at each culvert installation for surface replacement. The Purchaser shall dispose of all culvert pipe removed as a part of the work described in this contract at a legal site off of BLM land.
- 2. All renovation and construction shall be done and approved prior to any hauling activity.
- 3. Existing turnouts, on roads to be renovated, shall be surfaced to the same standard as the road.
- 4. Back slopes shall be cut to match existing unless otherwise specified.
- 5. All work shall be performed according to OSHA safety requirements.

25+20       END RENOVATION       4+20       REPLACE CULVERT WITH 18"X36" CULVERT, BACKFILL WITH CRUSHED BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 R 22-7-2.0 R         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-5.0 BEGIN BEIVARING, BLAIDING ALL ITREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH.       20+15       JUNCTION 21-7-4.1 LEFT         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-5.0 BEGIN RENOVATION       20+15       REPLACE CULVERT WITH 18"X30" CULVERT, BACKFILL WITH CRUSHED BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 R         14+90       END RENOVATION       41+65       REPLACE CULVERT WITH 18"X30" CULVERT, BACKFILL WITH CRUSHED BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 R         21-7-3.8       0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4 BEGIN RENOVATION       45+95       BEGIN RENOVATION         21-7-3.8       0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4 BEGIN BRUSHING, BLAIDING, PULL DITCH, CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH.       0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND COMPACTION BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN BRUSHING, BLAIDING, PULL DITCH, LEAR CULVERTS AND COMPACTION BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN BRUSHING, BLAIDING, PULL DITCH, LEAR CULVERTS AND COMPACTION BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN BRUSHING, BLAIDING, RUCH IN THE CLEARING LIMITS, DECK MERCH, AND SCATTER/PILE NON-MERCH, LEGIN SURFACE MILL STICK AURCENT AND COMPACTION BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN BRUSHING, BLAIDING	All WORK S	nali de performed according to USHA safety requirements.		
0+00         BEGNN RENOVATION AT JUNCTION OF 21-7-30 AND 21-7-50 BEGNN BRUSHING, BLOING, PULL DITCH, CLEAN CULVERTS AND COMPACTION         0+00         BEGNN RENOVATION AT JUNCTION OF 21-7-40 AND 21-7-50 BEGNN RENOVATION           25+20         END RENOVATION         4420         REPLACE CULVERT WITH 18"X36" CULVERT, BACKFILL WITH CRUSHED BLM STOCKTILE STE AT JUNCTION OF 21-7-20. NB 22-7-20.	STA	DESCRIPTION	STA	DESCRIPTION
BEGN         BRUSHING, BLOING, PULL DITCH, CLEAN CULVERTS AND COMPACTION         BECIN         BRUSHING, BLOING, PULL DITCH, CLEAN CULVERTS AND COMPACTION           25+20         END RENOVATION         4420         REPLACE CULVERT WITH 187X36" CULVERT, BACKFILL WITH GRUSHD BLS STOCKPILE STRE AT JUNCTION OF 21-7-2.0 AND 22-7-2.0 RD ECON BRUSHING, BLOING, PULL DITCH, CLEAN MD 21-7-5.0         20+55         JUNCTION 21-7-4.1 LEFT           0+00         BEGN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-5.0         20+55         BEVACE CULVERT WITH 187X36" CULVERT, BACKFILL WITH CRUSHED BLS STOCKPILE STRE AT JUNCTION OF 20-7-2.7.0 AND 22-7-2.0 RD SCATER/PILE NON-WERCH.           14+90         END RENOVATION         AT JUNCTION OF 21-7-3.4 AND 21-7-3.4 BEGN RENOVATION         45+95         BEGN RENOVATION GF 20-7-2.7.0 AND 22-7-2.0 RD 22-7-2.0 RD SCATER/PILE NON-WERCH.           14+90         END RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4 BEGN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.8 BEGN RENOVATION AT JUNCTION OF 21-7-3.8 AND 22-7 BEGN RENOVATION AT JUNCTION OF 21-7-3.8 AND 22-7 BEGN RENOVATION AT JUNCTION OF 21-7-3.8 AND 22-7-7.0 AND 22-7-7.0 AND 22-7 BEGN RENOVATION AT JUNCTION OF 21-7-3.8 AND 22-7-7.2 AND 22-7-7.2 AND 22-7-7.2 AND 22-7-7.2 AND 22-7-7.0 AND 22-7 BEGN RE		<u>21-7-3.0</u>		<u>21-7-4.0</u>
21-7-3.4       21-7-3.4       22-7-2.0 R         0+00       BEGN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-5.0 BEGN RENOVATION RELAYING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGN RELAYING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH, AND SCATTER/PILE NON-MERCH.       20+15       JUNCTION 21-7-4.1 LEFT         14+90       END RENOVATION       21-7-3.8       Attaction 21-7-3.4       Attaction 21-7-3.4         0+00       BEGN RENOVATION       41+65       REPLACE CULVERT WITH 19/3/30' CULVERT, BACKFILL WITH CRUSHED BLM STOCKPILE STIE AT JUNCTION OF 20-7-27.0 ND 22-7-2.0 R         0+00       BEGN RENOVATION       45+95       BEGIN RENOVATION OF 21-7-3.4 AND 21-7-3.4 BEGN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-3.4 BEGN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.4 BEGN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.4 BEGN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGN RENOVATION AT JUNCTION OF 21-7-2.9 AND 22-7       11-7-3.1 AND 21-7-3.0 BEGN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGN RENOVER OF ALL TREES WITH THY CLEAR OLIVERTIS AND COMPACTION BEGN CLEARING OF ALL TREES WITH THY CLEARING LIMITS, BEGN RENOVERE AND COMPACTION B	0+00		0+00	BEGIN RENOVATION AT JUNCTION OF 21-7-4.0 AND 21-7-5.0 BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMP
21-7-3.4       AND 21-7-5.0         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-5.0         BEGIN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-5.0         14+90       END RENOVATION         14+90       END RENOVATION         21-7-3.8         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4         BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4         BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4         BEGIN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-3.4         BEGIN RENOVATION AT JUNCTION OF 21-7-3.4 AND 21-7-3.4         BEGIN RENOVATION AT JUNCTION OF 21-7-3.5 AND 21-7-3.4         BEGIN RENOVATION AT JUNCTION OF 21-7-3.4 MIN THE CLEARING LIMITS, DECK MERCH, AND SCHEE SEE AT JUNCTION OF 21-7-4.1 AND 21-7-4.0         BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 LEFT         21-7-3.9         19+95       END RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8         BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8         BEGIN RENOVATION AT JUNCTION OF 21-7-2.9 AND 22-7-2.0 AN	25+20	D END RENOVATION	4+20	REPLACE CULVERT WITH 18"X36' CULVERT, BACKFILL WITH CRUSHED BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 R
0000       BEGIN RENGAMIC, PUIL DICH, CLAN CULVERTS AND COMPACTION BEGIN CLARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTEP/PUE NON-MERCH.       BLM STOCKPILE STE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 R         14+90       END RENOVATION       41+65         21-7-3.8       BEGIN RENOVATION of 21-7-3.8 AND 21-7-3.4 BEGIN RENOVATION of 21-7-3.8 AND 21-7-3.4 BEGIN RENOVATION of 21-7-4.0 BEGIN RENOVATION OF 21-7-4.0 BEGIN RENOVATION OF 21-7-4.0 BEGIN RENOVATION OF 21-7-4.1 AND 21-7-4.0 BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4 BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 FEAST SCHEME NON-MERCH.         4+65       JUNCTION SPUR 10 LEFT         1+455       JUNCTION V1 JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION         1+455       JUNCTION 21-7-3.9 LEFT         21-7-3.9       BEGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION OF 21-7-2.9 AND 22-7 BEGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION OF 21-7-2.9 AND 22-7 BEGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION OF 20-7-27.0 AND 22-7 BEGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION OF 20-7-27.0 AND 22-7 BEGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION OF 20-7-27.0 AND 22-7 BEGIN RENOVATION OF 20-7-27.0 AND 22-7 BE		21-7-3.4	20+15	JUNCTION 21-7-4.1 LEFT
SCATER/PLE NON-MERCH. 14+90 END RENOVATION 14+90 END RENOVATION 21-7-3.8 0+00 BECIN RENOVATION OF 21-7-3.8 AND 21-7-3.4 BECIN RENOVATION OF 21-7-3.8 AND 21-7-3.4 BECIN RENOVATION OF 21-7-4.1 AND 21-7-4.0 BECIN RENOVATION OF 21-7-4.1 AND 21-7-4.0 BECIN RENOVATION OF 21-7-4.1 AND 21-7-4.0 BECIN RENOVATION OF 21-7-3.9 LEFT 21-7-3.9 LEFT 21-7-3.9 LEFT 21-7-3.9 LEFT 21-7-3.9 LEFT 21-7-3.9 LEFT 21-7-3.9 AND 21-7-3.8 0+00 BECIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BECIN RENOVATION OF 21-7-3.9 LEFT 21-7-3.9 LEFT 21-7-3.9 0+00 BECIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BECIN RENOVATION OF 21-7-2.7.0 AND 22-7.7 BECIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BECIN RENOVATION OF 21-7-2.7.0 AND 22-7.7 BECIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BECIN RENOVATION OF 20-7-27.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BECIN RENOVATION OF 20-7-27.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF 21-7-2.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF 21-7-2.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF 21-7-2.0 AND 22-7.7 BECIN RENOVATION BECIN CLARING OF ALL TREES WITHIN THE CLEARING DIME, BECIN RENOVATION OF 20-7-27.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF 21-7-2.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF 20-7-27.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF 20-7-27.0 AND 22-7.7 BECIN RENOVATION AT JUNCTION OF DIME REGIN RENOVATION AT UNCTION OF 20-7-27.0 AND 22-7.7 BECIN RENOVATION AT JUNCT	0+00	BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION	20+55	REPLACE CULVERT WITH 18"X30' CULVERT, BACKFILL WITH CRUSHED BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 R
21-7-3.8       46+95       END RENOVATION         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4 BEGIN BRUSHING, BLADING, PULL DITCH, OLEAN CULVERTS AND COMPACTION BEGIN CLARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH.       0+00       BEGIN RENOVATION OF 21-7-4.1 AND 21-7-4.0 BEGIN RENOVATION OF 21-7-3.9 LEFT         14+05       JUNCTION SPUR 10 LEFT       0+00       BEGIN RENOVATION 121-7-3.9 LEFT       0+00         19+95       END RENOVATION       21-7-3.9       LEFT         21-7-3.9       LEFT       0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.8 BEGIN RENOVATION       9+35       JUNCTION SPUR 3 RIGHT         19+95       END RENOVATION       21-7-3.9       LEFT       12+05       TURN OUT LEFT         21-7-3.9       JUNCTION SPUR 10 DF 21-7-3.8 AND 21-7-3.8 BEGIN RENOVATION       9+35       JUNCTION SPUR 3 RIGHT       12+05         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION AT JUNCTION OF 21-7-2.9 AND 21-7-3.8 BEGIN RENOVATION AT JUNCTION OF 20-7-2.7.0 AND 22-7.9 BEGIN RENOVATION AT JUNCTION OF 20-7-2.7.0 AND 22-7.9 BEGIN RENOVATION SPUR 12 RIGHT, BEGIN SURFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE       18+75       TURN OUT LEFT         12+05       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH BARRIER, BEGIN RRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF 1004 AGGREGATE BASE COURSE       26+80       So'X150' LANDING LEFT RENOVATE AND SURFACE WIT			41+65	REPLACE CULVERT WITH 18"X36' CULVERT, BACKFILL WITH CRUSHED BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 R
21-7-3.8         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.8 AND 21-7-3.4 BEGIN BERISHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATER/PILE NON-MERCH.       9       21-7-4.1         4+65       JUNCTION SPUR 10 LEFT       BEGIN RENOVATION AT JUNCTION OF 21-7-4.1 AND 21-7-4.0 BEGIN RENSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN SURFACING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATER/PILE NON-MERCH., GRUB STUMPS IN DITCH LINE AND SHO ECGIN SURFACING WITH 9' OF 1004A AGGREGATE BASE COURSE, INC EXISTING TURNOUTS NOT MARKED ON THE GROUND         19+95       END RENOVATION       9+35       JUNCTION SPUR 3 RIGHT         21-7-3.9       EGIN RENOVATION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION AT JUNCTION OF 21-7-3.0 AND 21-7-3.8 BEGIN RENOVATION AT JUNCTION OF 21-7-7-3.0 AND 21-7-3.8 BEGIN RENOVATION AT JUNCTION OF 21-7-7-3.0 AND 21-7-3.8 BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN RENOVATION AT JUNCTION OF 21-7-7-3.0 AND 22-7         9+805       JUNCTION SPUE 12 RICH, BEGIN SURFACING WITH 3' OF 1004A AGGREGATE SURFACE COURSE       18+75       TURN OUT LEFT         9+85       JUNCTION SPUE 12 RICH, BEGIN SURFACING WITH 3' OF 1004A AGGREGATE BARIER, BEGIN RENOVATE AND SURFACE WITH 6'' OF 1004A AGGREGATE BAR	14+90	D END RENOVATION	45+95	BEGIN EXISTING 50'X100' LANDING
BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PLIE NON-MERCH.       PLICENT         4+65       JUNCTION SPUR 10 LEFT       BEGIN RENOVATION 21–7–3.9 LEFT       Decin RENOVATION GF 21–7–4.1 AND 21–7–4.0 BEGIN RENOVATION 0F 21–7–3.9 LEFT         19+95       END RENOVATION       9+35       JUNCTION SPUR 3 RIGHT         21–7–3.9       21–7–3.9       10000       9+35         0+00       BEGIN RENOVATION AT JUNCTION OF 21–7–3.9 AND 21–7–3.8 BEGIN RENOVATION AT JUNCTION OF 21–7–2.7.0 AND 22–7.2       18+50       TURN OUT LEFT         12+05       TURN OUT LEFT       12+05       TURN OUT LEFT         21-7–4.1       NOTION SPUR 12 RIGHT, BEGIN SUFFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SUFFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE.       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SUFFACING WITH 6" OF 1004I AGGREGATE SURFACE COURSE.       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN SURFACING WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT		<u>21-7-3.8</u>	46+95	END RENOVATION
BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND       0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-4.1 AND 21-7-4.0         4+65       JUNCTION SPUR 10 LEFT       BEGIN RENOVATION, SPUR 10 LEFT       BEGIN RENOVATION OF 21-7-3.9 LEFT         14+05       JUNCTION 21-7-3.9 LEFT       SCATTER/PILE NON-MERCH., GRUB STUMPS IN DITCH LINE AND SHO BEGIN RENOVATION       9+35         19+95       END RENOVATION       9+35       JUNCTION SPUR 3 RIGHT         19+95       END RENOVATION OF 21-7-3.9 AND 21-7-3.8       12+05         D+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8       REPLACE CULVERT WITH 18"X32' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7- BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH., BEGIN SURFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF 1004I AGGREGATE BASE COURSE.       26+80       50'X150' LANDING LEFT RENOVATE AND SURFACE WITH 9" OF 1004I BASE COURSE         16+40       CONSTRUCT 45'X75' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7- 27.0 AND 22-7- 27.0 AND 22-7- 27.0 AND 22-7- 27.0 AND 22-7- 27.0	0+00			<u>21-7-4.1</u>
4+65       JUNCTION SPUR 10 LEFT       SCATTER/PILE NON-MERCH., GRUB STUMPS IN DITCH LINE AND SHO BEGIN SURFACING WITH 9" OF 1004A AGGREGATE BASE COURSE.         14+05       JUNCTION 21-7-3.9 LEFT       SCATTER/PILE NON-MERCH., GRUB STUMPS IN DITCH LINE AND SHO BEGIN SURFACING WITH 9" OF 1004A AGGREGATE BASE COURSE.         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN RUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH., AND SCATTER/PILE NON-MERCH., BEGIN SURFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACE, REMOVE TRENCH BARRIER, BEGIN CLARING LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CLUVERT WITH 18"X36' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.         16+40       CONSTRUCT 50'X30' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.         17+70       CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.         17+70       CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BL		BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND	0+00	BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMF
19+95       END RENOVATION       9+35       JUNCTION SPUR 3 RIGHT         21-7-3.9       21-7-3.9       12+05       TURN OUT LEFT         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8       18+50       REPLACE CULVERT WITH 18"X32" CULVERT, BACKFILL WITH CRUSHED         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8       18+50       REPLACE CULVERT WITH 18"X32" CULVERT, BACKFILL WITH CRUSHED         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8       18+50       REPLACE CULVERT WITH 18"X35" CULVERT, BACKFILL WITH CRUSHED         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8       18+75       TURN OUT LEFT         18+50       REPLACE CULVERT WITH 18"X36" CULVERT, BACKFILL WITH CRUSHED       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH       26+80       50'X150' LANDING LEFT RENOVATE AND SURFACE WITH 9" OF 1004I         16+40       CONSTRUCT 50'X30' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED         17+70       CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE       31+65       JUNCTION SPUR 5 LEFT         18+45       END RENOVATION				SCATTER/PILE NON-MERCH., GRUB STUMPS IN DITCH LINE AND SHOU BEGIN SURFACING WITH 9" OF 1004A AGGREGATE BASE COURSE, INC
21-7-3.9       12+05       TURN OUT LEFT         0+00       BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH., BEGIN SURFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE       18+50       REPLACE CULVERT WITH 18"X32' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.         9+85       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF 1004I AGGREGATE BASE COURSE.       26+80       50'X150' LANDING LEFT RENOVATE AND SURFACE WITH 9" OF 1004I BASE COURSE         16+40       CONSTRUCT 50'X30' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.         17+70       CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.         17+70       CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.         17+70       CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF				
21-7-3.9       18+50       REPLACE CULVERT WITH 18"X32" CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-         0+00       BEGIN RENOVATION, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH., BEGIN SURFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE       18+75       TURN OUT LEFT         9+85       JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF 1004I AGGREGATE 1004I AGGREGATE BASE COURSE.       26+80       50'X150' LANDING LEFT RENOVATE AND SURFACE WITH 9" OF 1004I AGGREGATE 1004I AGGREGATE 11004I AGGREGATE BASE COURSE.       31+20       REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-27.0 AND 22-7-2	19+95	5 END RENOVATION		
<ul> <li>BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8 BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH., BEGIN SURFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE</li> <li>9+85 JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF</li> <li>16+40 CONSTRUCT 50'X30' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.</li> <li>16+40 CONSTRUCT 50'X30' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.</li> <li>16+40 CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.</li> <li>17+70 CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.</li> <li>18+45 END RENOVATION</li> </ul>		21-7-3.9	12+05	TURN OUT LEFT
BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND SCATTER/PILE NON-MERCH., BEGIN SURFACING WITH 3" OF 1004A AGGREGATE SURFACE COURSE18+75TURN OUT LEFT9+85JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF 10041 AGGREGATE BASE COURSE.24+60REPLACE CULVERT WITH 18"X36' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.16+40CONSTRUCT 50'X30' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.31+20REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.17+70CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.31+20REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.17+70CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.31+20REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.17+70CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.31+20REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7.18+45END RENOVATIONEND RENOVATIONSURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.31+20JUNCTION SPUR 5 LEFT 37+5518+45END RENOVATIONEND RENOVATIONSURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.37+55JUNCTION SPUR 6 LEFT	0+00	BEGIN RENOVATION AT JUNCTION OF 21-7-3.9 AND 21-7-3.8	18+50	REPLACE CULVERT WITH 18"X32' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-
SURFACE COURSE24+60REPLACE CULVERT WITH 18"X36" CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-9+85JUNCTION SPUR 12 RIGHT, BEGIN EXISTING NATIVE SURFACE, REMOVE TRENCH BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF 10041 AGGREGATE BASE COURSE.26+8050"X150" LANDING LEFT RENOVATE AND SURFACE WITH 9" OF 10041 BASE COURSE16+40CONSTRUCT 50"X30" LANDING RIGHT, SURFACE WITH 6" OF 10041 AGGREGATE BASE COURSE.31+20REPLACE CULVERT WITH 24"X48" CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-17+70CONSTRUCT 45"X75" LANDING AHEAD, SURFACE WITH 6" OF 10041 AGGREGATE BASE COURSE.34+65JUNCTION SPUR 5 LEFT 37+5518+45END RENOVATIONFUNDATION50" 10041 AGGREGATE37+55JUNCTION SPUR 6 LEFT		BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS, DECK MERCH. AND	18+75	TURN OUT LEFT
BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF26+8050'X150' LANDING LEFT RENOVATE AND SURFACE WITH 9" OF 1004I BASE COURSE16+40CONSTRUCT 50'X30' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE31+20REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED BASE COURSE.16+40CONSTRUCT 45'X75' LANDING RIGHT, SURFACE WITH 6" OF 1004I AGGREGATE31+20REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-717+70CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.34+65JUNCTION SPUR 5 LEFT 37+5518+45END RENOVATIONEND RENOVATIONSURFACE WITH 6" OF 1004I AGGREGATE37+55JUNCTION SPUR 6 LEFT		SURFACE COURSE	24+60	REPLACE CULVERT WITH 18"X36' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-
BASE COURSE.       FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-         17+70       CONSTRUCT 45'X75' LANDING AHEAD, SURFACE WITH 6" OF 1004I AGGREGATE BASE COURSE.       34+65       JUNCTION SPUR 5 LEFT         18+45       END RENOVATION       37+55       JUNCTION SPUR 6 LEFT	9+85	BARRIER, BEGIN GRUBBING, END PULL DITCH, BEGIN SURFACING WITH 6" OF	26+80	50'X150' LANDING LEFT RENOVATE AND SURFACE WITH 9" OF 1004I BASE COURSE
BASE COURSE. 18+45 END RENOVATION 37+55 JUNCTION SPUR 6 LEFT	16+40		31+20	REPLACE CULVERT WITH 24"X48' CULVERT, BACKFILL WITH CRUSHED FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-
18+45 END RENOVATION 37+55 JUNCTION SPUR 6 LEFT	17+70		34+65	JUNCTION SPUR 5 LEFT
	18+45		37+55	JUNCTION SPUR 6 LEFT
			52+05	JUNCTION SPUR 7 LEFT

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D ROCK 7-2.0 ROADS	REV. NO. UNITE DIVISION C	DESCRIPTION D STATES DEPARTMEN BUREAU OF LAND M DF OPERATIONS	ANAGEME	
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## ROAD RENOVATION CONTINUED

STA	DESCRIPTION	STA	DESCRIPTION
	<u>21-7-4.1 CONTINUED</u>		SPUR 3
54+55	TURN OUT LEFT	0+00	BEGIN RENOVATION AT JUNCTION OF SPUR 3 AND 21-7-4.1 REMOVE BARRIER AND SLASH FROM ROADBED, SCATTER SLASH, BEG
55+95	REPLACE CULVERT WITH 18"X30' CULVERT AND 18"X10' DOWNSPOUT, BACKFILL WITH CRUSHED ROCK FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0		BLADING & COMPACTION, BEGIN SURFACING WITH 6" OF 1004I AND AGGREGATE BASE COURSE
50.00	AND 22-7-2.0 ROADS	18+30	JUNCTION OF SPUR 4 LEFT
59+80	REPLACE CULVERT WITH 18"X40' CULVERT, BACKFILL WITH CRUSHED ROCK FROM BLM STOCKPILE SITE AT JUNCTION OF 20-7-27.0 AND 22-7-2.0 ROADS	20+70	END RENOVATION
62+25	JUNCTION SPUR 8 LEFT		
72+20	REPAIR INLET BY CUTTING OFF 1' OF PIPE		SPUR 12
73+50	WASTE AREA RIGHT	0+00	BEGIN RENOVATION AT JUNCTION OF SPUR 12 AND 21-7-3.9 BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS. DECK
74+15	JUNCTION 20-7-33.2 LEFT		SCATTER/PILE NON-MERCH. BEGIN BRUSHING, BLADING AND COMPA SURFACING WITH 3" OF 1004A AGGREGATE BASE COURSE
76+90	JUNCTION 20-7-33.4 LEFT	4+65	BEGIN GRUBBING
97+76	JUNCTION 20-7-33.5 LEFT	5+25	END 3" SURFACING, CONSTRUCT 34'X100' LANDING AHEAD, SURFACI 10041 AGGREGATE BASE COURSE
110+20	BEGIN PLACING EXCESS SUITABLE MATERIAL FROM $21-7-3.10$ BY FILLING SAG AHEAD TO LEVEL GRADE AND CONSTRUCT A 20'X 290' TURNOUT RIGHT	6+25	END RENOVATION
113+60	END PLACING MATERIAL		

- 113+60 END PLACING MATERIAL
- 120+55 JUNCTION 21-7-3.10 RIGHT
- 120+95 END RENOVATION

21-7-5.0

- 0+00 BEGIN RENOVATION AT THE JUNCTION OF 21-7-5.0 AND 21-7-3.0 BEGIN CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS. DECK MERCH. AND SCATTER/PILE NON-MERCH., BRUSH, BLADE, PULL DITCH, CLEAN CULVERTS AND COMPACTION
- 25+40 END RENOVATION

<u>21-7-5.3</u>

- 0+00 BEGIN RENOVATION AT JUNCTION OF 21-7-5.3 AND 20-7-27.0 BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION
- 20+20 END RENOVATION

#### 21-7-5.4

0+00 BEGIN RENOVATION AT JUNCTION OF 21-7-5.4 AND 20-7-27.0 BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION

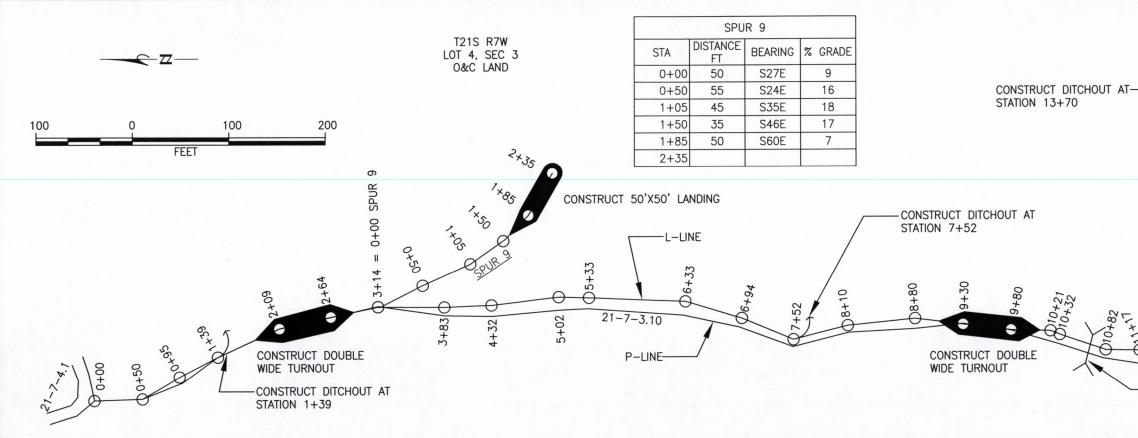
6+10 JUNCTION OF SPUR 1 LEFT END RENOVATION 1 SH, BEGIN BRUSHING, D4I AND 3" OF 1004A

5.9 5. DECK MERCH. AND COMPACTION, BEGIN

SURFACING WITH 9"

	1.1.1.1					
REV. NO. DESCRIPTION	DATE	APPROVED				
UNITED STATES DEPARTMENT OF THE INTERIOR						
BUREAU OF LAND						
DIVISION OF OPERATIONS	OREGON	STATE OFFICE				
HALFWAY TH						
RENOVATION	I NO	TES				
ROSEBURG DISTRICT		OREGON				
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APPROVED	Signal					
DRAWN: T. KING	SCALE:	AS SHOWN				
DATE: 09/11/15	SHEET 5	OF 13				
		BLM #				

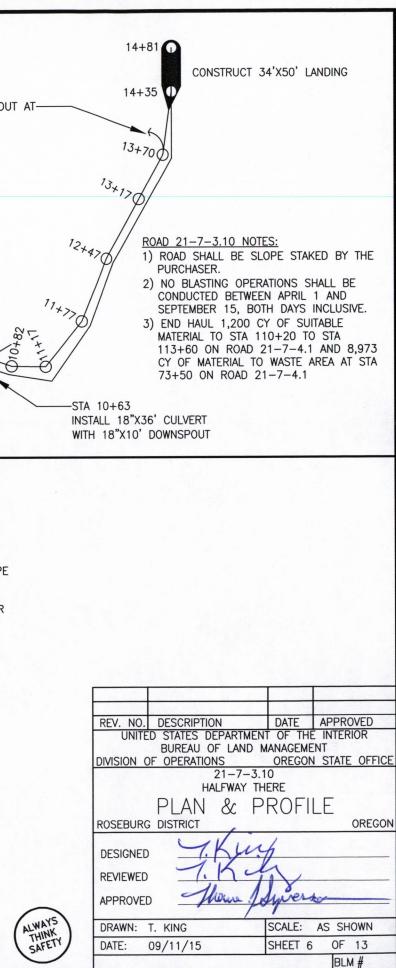
ALWAYS

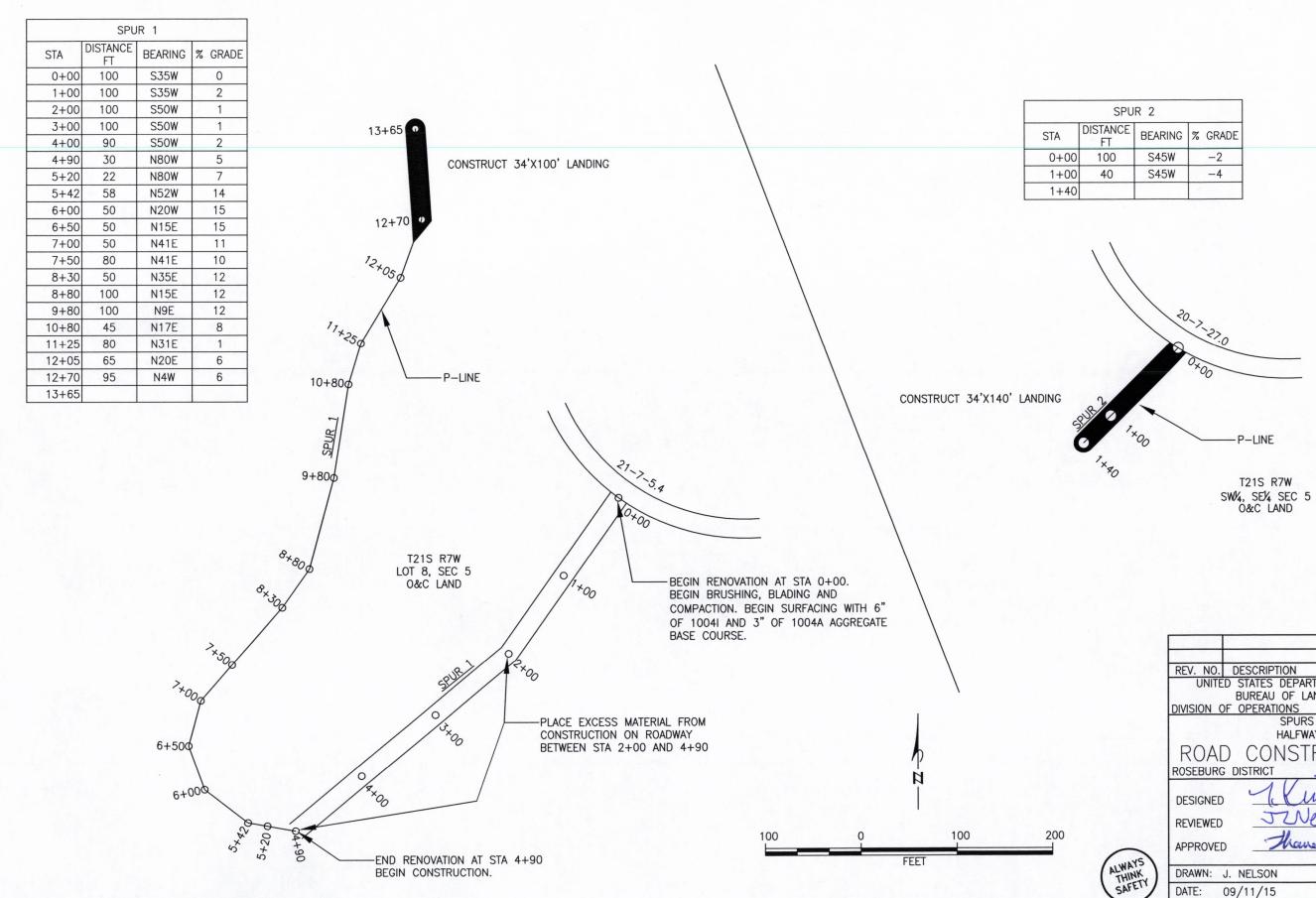


21-7-3.10						
P-STA	L-STA	OFFSET* RIGHT P TO L	L DISTANCE	L BEARING	L % GRADE	
0+00	0+00	0.0	50	S2E	2	
0+50	0+50	0.0	45	S31E	0	
0+95	0+95	-6.6	44	S27E	-1	
1+40	1+39	0.0	70	S25E	-3	
2+10	2+09	0.0	55	S12E	-5	
2+65	2+64	0.0	50	S12E	-7	
3+15	3+14	0.0	69	SOW	-9	
3+83	3+83	-8.5	49	S2E	-12	
4+33	4+32	-11.4	70	S7E	-10	
5+04	5+02	-13.5	31	S4W	-6	
5+34	5+33	-10.0	100	S2W	-15	
6+32	6+33	-14.4	61	S16W	-14	
6+91	6+94	-9.6	58	S22W	-14	
7+53	7+52	-7.1	58	S14E	-14	
8+10	8+10	-7.3	70	S6E	-10	
8+80	8+80	-10.6	50	S7W	-12	
9+29	9+30	-1.0	50	S7W	-1	
9+79	9+80	0.0	41	S1W	-5	

21-7-3.10 CONT.						
P-STA	L-STA	OFFSET* RIGHT P TO L	L DISTANCE	L BEARING	L % GRADE	
10+19	10+21	-10.7	11	S22W	-2	
10+29	10+32	-9.6	50	S19W	-7	
10+80	10+82	-8.9	35	S1W	-4	
11+33	11+17	-13.7	60	S51E	-7	
11+92	11+77	-9.7	70	S68E	-8	
12+64	12+47	-8.2	70	S61E	-9	
13+34	13+17	-9.0	53	S61E	-9	
13+91	13+70	-9.4	65	S82E	-9	
14+56	14+35	0.0	46	S90E	-5	
15+02	14+81	0.0				

\* OFFSETS SHALL BE MEASURED AS SLOPE DISTANCES ALONG THE BISECTOR OF THE INTERIOR ANGLE AT ANGLE POINTS, AND PERPENDICULAR TO THE P-LINE AT OTHER POINTS.





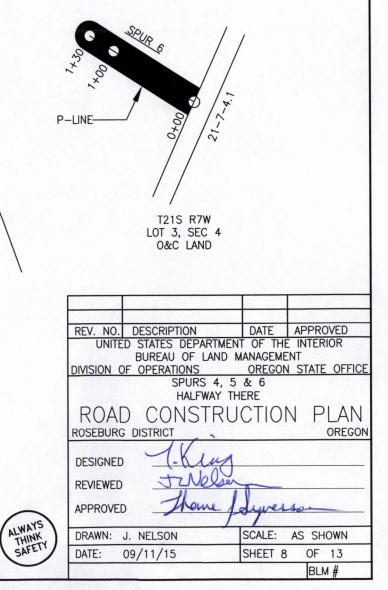
SPUR 2					
DISTANCE FT	BEARING	% GRADE			
100	S45W	-2			
40	S45W	-4			
		1			

	REV. NO.	DESCRIPTION	DATE	APPROVED
	UNITE	D STATES DEPARTMEN	T OF THE	INTERIOR
	DIVISION	BUREAU OF LAND M F OPERATIONS		NT STATE OFFICE
		SPURS 1 8		STATE OFFICE
		HALFWAY TH		
	ROAL	) CONSTRU	CTION	N PLAN
	ROSEBURG	DISTRICT		OREGON
	DESIGNED	1. Kin	)	
	REVIEWED	JENely	492	
	APPROVED	thane ]	dynes	10-
ALWAYS THINK THINK	DRAWN:	J. NELSON	SCALE:	AS SHOWN
SAFETY	DATE:	09/11/15	SHEET 7	OF 13
$\sim$				BLM #

SPUR 3 STA DESERVE 4 CARE 0470 70 100 1775 05 N325 15 1775 05 N325 15 1775 05 N325 17 1775 05 N325 17 1775 05 N428 17 2485 05 N207 17 2485 05 N208 17 14440 0 0005TRUCT 35'X70' LANDING 0005TRUCT 35'X70' LANDING 0005TRUCT 35'X70' LANDING 0005TRUCT 35'X70' LANDING 0005TRUCT 35'X70' LANDING 17215 R7W USE 14ND 17215 R7W USE 14ND 17215 R7W USE 14ND		CDI			[	SPI	JR 5		
3/4 - T 0-00 0-0	CT.		~ 0040F		CTA	DISTANCE	1	9 CRADE	
0+70     55     N130     11       1+72     50     N131     15       1+73     50     N130     15       1+74     50     N70W     18       2+85     60     N70W     18       2+85     70     N40W     3       3+44     70     N40W     3       4+15     -     -						FT	DEARING		
1+26     50     N138     15       1+75     50     N45W     17       1+28     60     N50W     9       2+85     60     N50W     9       3+45     70     N40W       4+15									
1+72     50     N48W     17       2+25     80     N70W     18       2+85     00     N30W     0       3+45     70     N40W     3       3+45     70     N40W     3       4+15     -     -       -     -     -									
2425 60 N70W 18 2485 60 N50W 9 3445 70 N40W 3 4415 CONSTRUCT 35'X70' LANDING			 						1
2+85 60 NSOW 9 3+45 70 N460W 3 4+15			 						
3+45     70     M40W     3       4+15			 						
4+15     CONSTRUCT 35'X70' LANDING       ************************************			 					LJ	
			3+450	SPUR 3		2+550	SPUR	5 009 + 1	400-11 51-7-4.1

	SPU	R 6	
STA	DISTANCE FT	BEARING	% GRADE
0+00	100	N58W	2
1+00	30	N58W	-5
1+30			
			1

CONSTRUCT 50'X130' LANDING



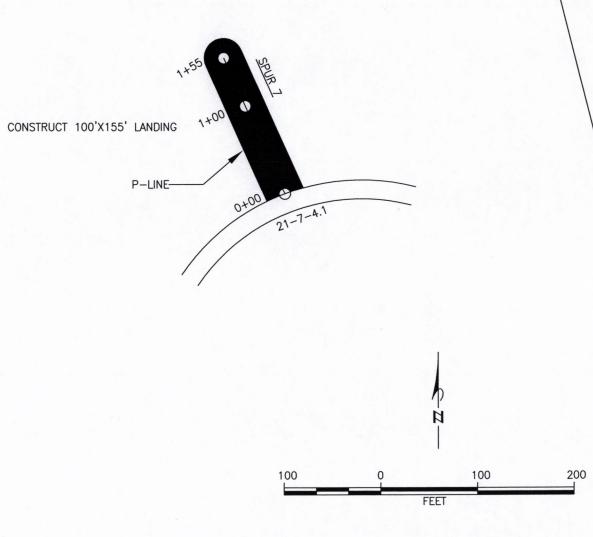


1+506

P-LINE-

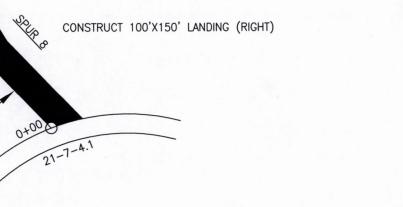
SPUR 7						
STA	DISTANCE FT	BEARING	% GRADE			
0+00	100	N24W	0			
1+00	55	N24W	0			
1+55						

T20S R7W SW4, SE74 SEC 33 O&C LAND



SPUR 8						
ANCE	BEARING	% GRADE				
00	N44W	0				
50	N32W	0				

T2OS R7W SW4, SE4 SEC 33 O&C LAND



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				14 (14) 14
	REV. NO.	DESCRIPTION	DATE	APPROVED
	UNITE			
	UNITE	BUREAU OF LAND N		
	DIVISION	OF OPERATIONS		STATE OFFICE
	DIVISION	SPURS 7 8		STALL VITICE
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	ROA	) CONSTRU	CTIO	n plan
	ROSEBURG	DISTRICT		OREGON
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THINK	DRAWN:	J. NELSON	SCALE:	AS SHOWN
ALWAYS THINK SAFETY	DATE:	09/11/15	SHEET 9	OF 13
$\sim$				BLM #

1+ 2+ 3+ 3+ 4+ 5+ 6+ 7+ 8+ 8+	F1           +00         100           +00         100           +00         100           +00         60           +00         60           +35         100           +35         100	BEARING           S54W           S54W           S82W           S72W           N80W           N80W	% GRA 0 0 0 0 0 -5
1+ 2+ 3+ 3+ 4+ 5+ 6+ 7+ 8+ 8+	+00         100           +00         100           +00         100           +00         60           +00         75           +35         100           +35         100	S54W           S82W           S72W           N80W	0 0 0
1+ 2+ 3+ 3+ 4+ 5+ 6+ 7+ 8+ 8+	+00         100           +00         100           +00         60           +60         75           +35         100           +35         100	S54W           S82W           S72W           N80W	0 0 0
2+ 3+ 3+ 4+ 5+ 6+ 7+ 8+ 8+	+00 100 +00 60 +60 75 +35 100 +35 100	S82W S72W N80W	0
3+ 4+ 5+ 6+ 7+ 8+	+60 75 +35 100 +35 100	N80W	
4+ 5+ 6+ 7+ 8+ 8+	+35 100 +35 100		-5
5+ 6+ 7+ 8+	-35 100	N80W	
6+ 7+ 8+ 8+			-4
7+ 8+ 8+	-35 85	N80W	-3
8+ 8+		N67W	10
8+		N48W	1
		N40W	-2
		N40W	4
9+		N53W	-2 -9
10+		N46W N55W	-1
		N55W	4
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0	100	200	
	11+ 12+ 12+ 13+	11+75 85 12+60 35 12+95 70 13+65 T21 NE%, S 0&d	11+75       85       N44W         12+60       35       N36W         12+95       70       N46W         13+65           T21S R7W         NE¼, SE¼ SEC 3       0&C LAND         SPUR 10

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		E. L		
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5/		BEGIN CLEA BLADING AN	RING, GRUBBIN	G,
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ON		OPERATIONS		STATE OFFICE
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		CONST	RUCTION	
	ROSEBURG D	DISTRICT		OREGON
	DESIGNED	Ku	1	
	REVIEWED	JENE	home	
	APPROVED	Thorne	Dyners	ier
ALWAYS		NELSON	SCALE: A	S SHOWN
ALWINK THINK SAFETY		/11/15	SHEET 10	
$\bigcirc$		, ,	1	BLM #
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								VE	R					
CULVERT LOCATIONS						DOWNSPOUT (NOTE 4)		OUT (NOTE 4)						
DESIGNED (NOTE 2)			AS BUILT					1						
ROAD NO. STATION OR M.P.	SIZE (IN)	GAGE	LENGTH (FT)	SKEW ANGLE	INSTALL TYPE (NOTE 3)	INSTALL SPLASH PAD	ROAD NO. STATION OR M.P.	SIZE (IN)	GAGE	LENGTH (FT)	TYPE	SIZE (IN)	LENGTH (FT)	REMARKS (NOTE 5)
21-7-3.10														
10+60	18		36	30°	2						a	18	10	
21-7-4.0														
4+20	18		36	EXISTING										
20+55	18		30	EXISTING	3									
41+65	18		36	EXISTING	3		Station State	1				1 Carl		
					1.00									
21-7-4.1														
18+50	18		32	EXISTING	-									
24+60	18		36	EXISTING										
31+20	24		48	EXISTING	-							10		
55+95	18		30	EXISTING	2						a	18	10	
59+80	18	1.	40	EXISTING	3	100		1						
SPUR 10														
11+35	18		36	10.	3							-		TEMPORARY
11733	10		50											
				10										
			1											
			- 10 B											
									1.1					

#### NOTES:

- 1. DESIGNED CULVERT LENGTHS AND LOCATIONS ARE APPROXIMATE.
- 2. ALL CULVERTS HAVE 2 2/3" X 1/2" CORRUGATIONS UNLESS OTHERWISE SPECIFIED.
- 3. SEE CULVERT INSTALLATION SHEET.
- 4. DOWN SPOUT TYPES:
- a. FULL
- 5. INCLUDE SPECIAL SECTIONS, STRUCTURES, HEADWALLS, FOOTINGS, AND OTHER DATA.
- 6. MATERIAL MAY BE ALUMINIZED STEEL OR POLYETHYLENE

	GAGE CHAR	RT				
GAGE	DEC. EQUIV INCHES					
	STEEL	ALUM.				
10	0.1380	0.1350				
12	0.1090	0.1050				
14	0.0790	0.0750				
16	0.0640	0.0600				

ROUND PIPE CULVERT						
MATERIAL	SIZE (IN)	CORRUGATIONS	LENGTH (FT)			
SEE NOTE 6	18	SEE NOTE 2	312			
SEE NOTE 6	24	SEE NOTE 2	48			

TYPE	SIZE (IN)	LENGTH (FT)
NOTE 4 a	18	10
NOTE 4 a	18	10

	REV. NO.	DESCRIPTION	DATE	APPROVED					
	UNITED STATES DEPARTMENT OF THE INTERIOR								
	BUREAU OF LAND MANAGEMENT DIVISION OF OPERATIONS OREGON STATE OFFICE								
	DIVISION C	OF DERAHUNS	UNEGUN	STALL UFFICE					
	HALFWAY THERE								
		CULVERT S		1RY					
	ROSEBURG			OREGON					
	DESIGNED	Keny							
	REVIEWED	JULLO	2						
		June 1	1.00	1					
$\frown$	APPROVED	Here J	ayour						
LWAYS THINK SAFETY	DRAWN:	T. KING	SCALE:	AS SHOWN					
SAFETY	DATE:	09/11/15	SHEET 1	1 OF 13					
				BLM #					
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