

# PROSPECTUS

## Lump Sum Sale

GRANTS PASS RESOURCE AREA  
JOSEPHINE MASTER UNIT

Medford Sale # ORM07-TS-2018.0002  
June 28, 2018 (JCD)

#1. North Willy Timber Sale  
Josephine County, O&C

BID DEPOSIT REQUIRED: \$4,500.00

All timber designated for cutting in unnumbered lot in NW¼ NE¼, unnumbered Lot in NE¼ NW¼, SW¼ NE¼, SE¼ NW¼, SW¼, E½ SE¼ Sec.3, T.38 S., R.5W., Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
3,433	306	Douglas-fir	379	\$112.10	\$42,485.90
286	20	Ponderosa Pine	25	\$43.00	\$1,075.00
142	10	Sugar Pine	13	\$41.40	\$538.20
11	.7	Incense-cedar	1	\$48.30	\$48.30
3,872	336.7	<b>Totals</b>	418		\$44,147.40

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

\*\*The purchase of biomass material is optional. If the Purchaser chooses to purchase biomass/firewood, then it will be modified into the timber sale contract and a fair market price will be established at that time.

**TIMBER AUCTION LOCATION** – The timber auction will be held at the Grants Pass Inter-agency Office, located at 2164 NE Spalding Avenue, Grants Pass, Oregon, at 9 a.m. on Thursday, June 28, 2018.

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

**CRUISE INFORMATION** - The Douglas-fir has been cruised using the 3-P sampling method to select sample trees. Maps showing the location and description of these sample trees are available at the Medford District Office.

The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume.

The volume of all other species in this sale has been derived from individual tree measurements taken during a 100% cruise using form class tables for estimating board foot volume of trees in 16-foot logs. Approximately 0 trees which are considered to be nonmerchantable are designated for cutting. Approximately 0% of the 418 M bd. ft. sale volume is salvage material. With respect to merchantable trees of all conifer species: the average tree is 13.6 inches DBHOB; the average

gross merchantable log contains 45 bd. ft.; the total gross volume is approximately 484 M bd. ft; and 86% recovery is expected. (Average DF is 13.9 inches DBHOB; average gross merchantable log DF contains 46 bd. ft.)

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

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

**CUTTING AREA** – Two (2) units containing one hundred and six (106) acres must be partial cut. One (1) unit containing one (1) acre must be clear cut.

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

**ACCESS** - Access to the sale area is available via a public road through the contract area and existing BLM roads.

**ROAD MAINTENANCE** -The Purchaser will be required to maintain all of the roads which he constructs plus 4.16 miles of existing BLM roads. The Purchaser will be required to execute all road maintenance. Total purchaser maintenance allowances total \$2,826.29.

**ROAD CONSTRUCTION** - The contract will require the Purchaser to improve all roads utilized in timber extraction. Additional information is available in the timber sale prospectus.

**SOIL DAMAGE PREVENTION** - Pursuant to Section 26 of Form 5450-03, Timber Sale Contract, the Purchaser shall not operate or cause to have operated mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, machine piling, road and temporary route construction, road and temporary route reconstruction, temporary route decommissioning, or non-emergency road maintenance (including blading of aggregate roads, rocking, and cross drain installation) shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

**EQUIPMENT REQUIREMENTS** – A yarding tractor not greater than 9 feet wide as measured from the outer edges of standard width shoes and equipped with an integral arch and winch for lining logs seventy-five (75) feet. A skyline yarder with a large (40-70 foot) tower; capable of one end suspension with a minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul and capable of an external yarding distance of one thousand (1,000) feet slope distance.

**SLASH DISPOSAL** - Slash disposal will consist of lop and scatter, selective slashing, handpile and cover, handpile burn and mop-up, and cover and burn landing decks as described in SD-5 of

the Special Provisions.

LOP AND SCATTER all slash in units 3-6, 3-7, and 3-9 concurrently with normal felling operations. HAND PILE AND BURN all slash located in units 3-7 and 3-9. Perform SELECTIVE SLASHING in unit 3-7; All trees between one (1) inch and eight (6) inches D.B.H.O.B. shall be felled and spaced following logging. A post logging assessment shall be conducted to determine treatment needs in all units. The initial appraisal prescribed one (1) acre of selective slashing, sixty-two (62) acres of lop and scatter, forty-five (45) acres of hand pile, cover, burn, and mop-up handpiles, and eight and one half (8.5) acres of pile, cover, burn, and mop-up landing decks.

CONTRACT TERMINATION - A Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to comply with the Endangered Species Act, or comply with a court order, or protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (RMP). This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

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

OTHER -

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
2. Reserve all trees which are greater than twenty-five (25) inches diameter at breast height outside bark in units 3-6, 3-7, and 3-9 as shown on Exhibit A. All orange-marked conifer trees which are larger than twenty-five (25) inch D.B.H.O.B that need to be cut for operational purposes must be left on site or as directed by the Authorized Officer.
3. Mechanized felling operations shall be limited to slopes of thirty-five (35) percent or less. The logging plan displays possible skid trails in unit 3-6.
4. Use of designated skid trails in unit 3-6 will adhere to crossing plat with Hancock.
5. Unit 3-9 is a one acre GAP. The unit boundary is marked with orange paint and posters, but all trees within the unit are designated to be harvested.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Grants Pass, OR take OR-238 E towards Williams. Continue straight onto Water Gap Road. Follow Water Gap Road for 1 mile, then turn right on Fields Road. Follow Fields Road until it becomes BLM Road #38-5-3.0. All units can be accessed from BLM Road #38-5-3.0.

ENVIRONMENTAL ASSESSMENT - An environmental assessment (EA-OR110-2012 -0009) was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford District Office.



## NORTH WILLY SPECIAL PROVISIONS

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

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

- (A) AR-1 All timber on the Reserve Areas as shown on Exhibit A and all trees marked with a combination of orange paint, orange flagging, and/or posters which are on or mark the boundaries of the Reserve Areas.
- (B) IR-1 Approximately two-thousand five hundred four (2,504) Douglas-fir, seven hundred and forty-nine (749) ponderosa pine, three hundred eighty-two (382) sugar pine, thirty-two (32) incense cedar, and two hundred nineteen (219) hardwood trees marked with orange paint above and below stump height in units 3-6 and 3-7 as on Exhibit A. Unit 3-9 is a one acre gap and the boundary is marked with orange paint and posters, but reserve trees are not marked with blue or orange paint within the unit.
- (C) IR-3 All trees which are greater than twenty-five (25) inches diameter at breast height outside bark in units 3-6, 3-7, and 3-9 as shown on Exhibit A. All conifer trees which are larger than twenty-five (25) inches D.B.H.O.B that need to be cut for operational purposes must be left on site as directed by the Authorized Officer.
- (D) IR-13 All coarse woody debris and hardwood trees in harvest units shown on Exhibit A which do not present a safety hazard as determined by the Authorized Officer. Snags felled for safety reasons shall be retained on site.

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#### Section 42

##### (A) LOGGING

- (1) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if he intends to cease operations for any period of seven (7) or more days.
- (2) L-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 ensure 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.
- (3) L-4 All trees designated for cutting shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.
- (4) L-5 All conifer trees eight (8) inches or larger D.B.H.O.B., which are not reserved shall be felled in all units shown on Exhibit A.
- (5) L-8 In all harvest units as shown on Exhibit A, all trees designated for cutting shall be felled and whole tree yarded or yarded with tops attached except when excessive stand damage occurs as determined by the Authorized Officer. If excessive stand damage occurs all trees shall be bucked into log lengths not to exceed forty one (41) feet prior to being yarded.
- (6) L-12 In the areas designated herein and shown on Exhibit A, yarding shall be done in accordance with the yarding requirements or limitations for the designated area.

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Designated Area	Yarding Requirements or Limitations
<u>Ground Based Units</u> <u>3-6 &amp; 3-9</u>	<p>Yarding tractor width shall not be greater than nine (9) feet track width and shall be equipped with an integral arch.</p> <p>Existing skid roads shall be used when possible. Skid roads shall not exceed a width of twelve (12) feet on average per unit and new skid roads shall be placed at least one hundred fifty (150) feet apart where topography will allow, unless the Purchaser proposes an alternate logging plan that limits soil compaction to less than twelve (12) percent, limits soil productivity loss to less than five (5) percent of the harvest unit, and is approved by the Authorized Officer.</p> <p>Mechanized harvesting operations are optional. All ground-based harvest units may be manually felled.</p> <p>Mechanized felling operations shall be limited to slopes and existing skid trail grades of thirty-five (35) percent or less.</p> <p>Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(A)(7)(L-19) of this contract.</p> <p>The harvester, feller-processor, or feller-buncher 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 boom must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible. The purpose-built carrier may be of the articulated, rubber-tired design, or the zero-clearance tail swing leveling track-mounted design.</p> <p>Landing size shall not exceed one-quarter (<math>\frac{1}{4}</math>) acre, shall be located along existing roads within unit boundaries,</p>

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	<p>and shall be approved by the Authorized Officer.</p> <p>Design landings with adequate drainage so that they are not hydrologically connected to the ditchline of roads.</p> <p>The harvest equipment shall walk on existing or created slash as directed by the Authorized Officer. If Purchaser is required to create slash to walk on, then Purchaser shall not be required to whole-tree-yard.</p> <p>The use of blades while tractor yarding will be limited, equipment shall walk over as much ground litter as possible.</p> <p>Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required.</p> <p>Designated skid trails in unit 3-6 have been located along ridgelines and existing skid roads.</p>
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Designated Area	Yarding Requirements or Limitations
<u>CABLE UNITS</u> <u>3-7</u>	<p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy five (75) feet.</p> <p>Yarding corridors will be perpendicular to the contours.</p> <p>Prior to falling any timber in the unit, all tail/lift trees and/or intermediate support trees shall be pre-designated by the Purchaser and approved by the Authorized Officer.</p>



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	<p>Existing cable corridors shall be used whenever possible. Yarding corridors shall be approximately one hundred fifty (150) feet apart, measured at the tailholds.</p> <p>Yarding corridor widths shall not exceed six (6) feet either side of the skyline centerline.</p> <p>Landing size shall not exceed one-quarter (<math>\frac{1}{4}</math>) acre, shall be located along existing roads, and temporary routes within unit boundaries where possible, and shall be approved by the Authorized Officer. Short purchaser spurs into units may be necessary to achieve one-end log suspension and shall be fully decommissioned following use. Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.</p> <p>Landings and corridors may be needed outside of unit boundaries in units 3-7. These landings and corridors shall be approved by the Authorized Officer prior to use.</p> <p>Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required.</p> <p>Cable corridors that are hydrologically connected; or are nearly perpendicular to streams as shown on Exhibit A shall be water-barred and shall have slash placed over them prior to winter rain events to protect water quality.</p>
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- (7) L-19 No mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, machine piling, or non-emergency road maintenance shall be conducted in units between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting

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from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

- (8) L-19 No haul on natural surface roads shall be conducted on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (9) L-22 During logging operations, the Purchaser shall keep all roads, where it passes through the contract area, clear of trees, rock, dirt, and other debris so far as is practicable. The road shall not be blocked by such operations for more than thirty (30) minutes.
- (10) L-24 Before cutting and removing any trees necessary to facilitate logging in the harvest units shown on Exhibit A, the Purchaser shall identify the location of the skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding with cutting the following conditions must be met:
  - (a) All skid roads and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this 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 Contracting Officer, the width of each skid road, and/or cable yarding road shall be limited to twelve (12) feet.
  - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads and cable yarding roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees

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

- (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Section. 9 of the contract; or, the Authorized Officer determines that the species of trees are not listed in Exhibit B of this contract 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.

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- (f) The Government may reserve trees previously designated for cutting and removal by blacking out blue paint, and/or applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescriptions. 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.
- (11) L-25 In all cable yarding units, as shown on Exhibit A, the Purchaser shall make cable road changes by completely re-spooling the cables and restringing the layout from the head spar to the new tailhold to protect the advance reproduction present on these areas.
- (12) L-33 Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties on Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

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

Unless otherwise specified in writing, when operations are in progress adjacent to or on roads and/or trails in the harvest unit area, Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with adequate warning of and protection from hazardous or potentially hazardous conditions associated with its operations. Purchaser shall prepare a Traffic Control Plan, which the Purchaser has determined is compliant with state and local OSHA and Transportation standards no later than the pre-work meeting and prior to commencing operations. Traffic control devices shall be appropriate to current operating and/or weather conditions and shall be covered or removed when not

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needed., Flagmen and devices shall be as specified in state OSHA and Transportation standards for logging roads or the "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD) published by the U.S. Department of Transportation - Federal Highway Administration. Included in the Traffic Control Plan, Purchaser shall note traffic control device locations on a Purchaser produced copy of the contract Exhibit "A" Map.

### ROAD CONSTRUCTION, MAINTENANCE, AND USE (R)

- (1) R-1: The Purchaser shall renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) R-1a: Any required renovation of structures and roads shall be completed and accepted, prior to the removal of any timber, except right-of-way timber, over that road.
- (3) R-1b: The Purchaser shall construct, reconstruct, use and decommission temporary routes by October 15<sup>th</sup> of the same respective operating season.
- (4) R-1c: The Purchaser shall not commence work on road renovation and reconstruction until receipt of written notice to do so from the Authorized Officer. Work shall commence no later than 5 days after such notice, and shall be completed within 1 year after such notice.
- (5) R-2: The Purchaser is authorized to use the roads listed and shown on Exhibit D-2 for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(R-2b). Any road listed on Exhibit D-2 and requiring construction, improvement, or renovation in Exhibit C-2 of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, improvement, or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

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Road Number and Segment	Length miles used	Road Control	Road Surface Type	Maintenance Responsibility
38-5-3.0	0.29	Josephine County	BST	BLM
38-5-3.0	1.60	BLM	ABC	Purchaser
38-5-3.0	1.04	BLM	NAT	Purchaser
38-5-3.2	0.41	BLM	ABC	Purchaser
38-5-3.5	0.62	BLM	NAT	Purchaser
38-5-3.7	0.20	BLM	NAT	Purchaser

- (6) R-2a: With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of roads needs for the list here included in Section 42(R-2) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with other users on these roads.
- (7) R-2b: The Purchaser shall pay the Government a road maintenance and rockwear fee of **thirty nine dollars and 36 cents (\$39.36)** for the transportation of timber included in this contract price over said roads. The above maintenance amount is for the use of 4.16 miles of road or less. If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.
- (8) R-2e: The Contracting Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the road(s) listed in Section 42(R-2) If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall

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establish an installment schedule of payments of the maintenance and rockwear obligations.

- (9) R-2f: The Purchaser shall perform any required road repair and maintenance work on roads identified as Purchaser maintenance, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.
- (10) R-3c: The Purchaser agrees that if they elect to use any other private road, which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, 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.
- (11) R-4: The Purchaser shall be required to secure written approval to use vehicles or haul forest products and equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

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

Details shall include:

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

The Purchaser shall be responsible for repair of any damage to

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roads or structures caused by the use of overweight or over-dimension vehicles or equipment: (1) without written approval; (2) in violation of the conditions of a written approval; or, (3) in a negligent manner.

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

- (12) R-5: Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices.

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

(B) ENVIRONMENTAL PROTECTION

- (1) E-1 In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:
- (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging, construction, chipping, grinding, shredding, rock crushing, and transportation equipment prior to entry on BLM lands.
  - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weedseeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.
  - (c) Only equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of equipment as described above shall be treated the same as the initial move-in.



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- (d) Prior to initial move-in of any equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.
  - (e) Equipment would be visually inspected by the Authorized Officer to verify that the equipment has been reasonably cleaned.
- (2) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall only use certified weed-free hay and native grass seed species approved by the Authorized Officer for rehabilitation activities. All seeding shall be contingent upon seed availability.
  - (3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
  - (4) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not refuel equipment, store, or cause to have stored, any fuel or other petroleum products within one hundred fifty (150) feet of all riparian management or wet areas. All Petroleum products shall be stored in durable containers and located so that any accidental releases will be contained and not drain into any stream system. Hydraulic fluid and fuel lines on heavy mechanized equipment would be in proper working condition in order to minimize potential for leakage into streams. Absorbent materials shall be onsite to allow for immediate containment of any accidental spills. Spilled fuel and oil shall be cleaned up and disposed of at an approved disposal site.
  - (5) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not locate new landings in areas that contribute eroded fines to streams, wet areas, dry draws and swales. If these landing locations cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.
  - (6) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall ensure that silt fencing or other sediment control measures are properly placed and maintained during use and periods of non-use when utilizing

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landings or temp routes that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines. Any project-related activity would be suspended if conditions develop that cause a potential for sediment laden runoff to enter a wetland, floodplain or waters of the state. Operations can resume when sediment control devices are in place and conditions allow turbidity standards to be met.

- (7) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, prior to October 15 of the same operating season, winterize and rehabilitate temporary routes, landings, hydrologically connected corridors and skidtrails and other areas of exposed soils by properly installing and/or using water bars, berms, sediment basins, gravel pads, hay bales, small dense woody debris, seeding and/or mulching, to reduce sediment runoff and divert runoff water away from stream channels, headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer.
- (8) E-1 In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall as directed by the Authorized Officer rehabilitate all landings outside of the road prism by one of the following methods:
- (a) If the Authorized Officer deems ripping will not cause unacceptable damage to the root systems of residual trees the Purchaser shall discontinuously subsoil with winged ripper teeth, simultaneously water bar, seed, mulch, and barricade.
    - 1. Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which, is attached hereto and made a part hereof.
    - 2. Rip to a depth of twelve (12) inches, and no further than thirty six (36) inches apart.
    - 3. Ripping will occur before **October 15** of the year of harvest.
    - 4. Any step landings shall be re-contoured following use.
  - (b) If the Authorized Officer deems ripping will cause an unacceptable amount of damage to the root systems of residual trees the Purchaser shall scarify

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to a depth of up to six (6) inches and simultaneously water bar, seed, mulch, and barricade.

All rehabilitation shall occur within eighteen (18) months of harvest, during the dry season, and after pile burning is complete.

- (9) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall place material removed during excavation in locations where it cannot enter streams or other water bodies.
- (10) E-3 The Purchaser shall immediately discontinue specified construction or harvesting operations upon written notice from the Contracting Officer that:
  - (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
  - (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
  - (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
  - (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
  - (e) when, in order to comply with a court order, which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
  - (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
    - 1. species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and

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guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;

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

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

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

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

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

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

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act 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 or court order requirements necessitating the modification or termination.

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

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting

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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.

#### (C) FIRE PREVENTION

- (1) F-1 Fire Prevention and Control. 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 of the Authorized Officer.
- (2) F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
  - (a) At least three (3) days prior to the operation of power-driven equipment during any 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 and the State of Oregon Department of Forestry.
  - (b) Provide and maintain on the contract area in good working order, and immediately available, the following equipment for use during closed fire season or periods of fire danger:
    1. F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever employees are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be

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shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

2. F-2b At each landing during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with five hundred (500) feet of hose and a nozzle(s). All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.
3. F-2c Serviceable cell phone or radio equipment able to provide prompt and reliable communication between the contract area, Medford BLM District Office, and Oregon Department of Forestry. Such communication shall be available during periods of operation including the time watchman service is required.
4. F-2d A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire lines at night.
5. F-2f A headlamp for each employee in the woods crew adequate to provide sufficient illumination for night firefighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. At least one extra set of batteries shall be provided for each such headlight.
6. F-2f Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
7. F-2g A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Oregon State Forester and a size 0 or larger shovel shall be carried during the closed fire

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season or periods of fire danger by each falling crew and each buckner using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Oregon State Forester.

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

- (3) F-9 During Oregon Department of Forestry regulated use closure, no smoking shall be permitted outside of closed vehicles.

#### (D) SLASH DISPOSAL

- (1) SD-1 Fire Hazard Reduction. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measure required by this contract:
  - (a) SD-1a Lop and scatter all slash in unit 3-6 as directed by the Authorized Officer. All top and side branches must be free of the central stem so that such stem is reduced to the extent that it is within eighteen (18) inches of the ground at all points. Slash includes all woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract. Lop and scatter shall be completed in accordance with Exhibit S as directed by the Authorized Officer



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1. All slash shall be arranged in a discontinuous pattern across the forest floor.
  2. All slash shall be lopped to no more than eight (8) feet in length
- (b) SD-1c Pile and burn all slash situated in units 3-7. Pile and burn all slash (following the selective slashing treatment) in unit 3-9. Slash shall be piled by hand. Piling shall be completed in accordance with Exhibit S as directed by the Authorized Officer. Finished piles shall be tight and free of dirt.
1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
  2. Slash includes woody material (brush, limbs, tops, non-merchantable stems, or chunks severed, uprooted, or broken from live plants) as a result of Purchaser's operations under the terms of this contract.
  3. Hand pile all slash which is between one (1) and six (6) inches in diameter on the large end and exceeds two (2) feet in length, or as directed by the Authorized Officer
  4. Hand piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.
  5. Hand piles shall be placed within unit boundaries, however, outside of wildlife buffers, roadways, turnouts, shoulders, or cut banks. No hand piles shall be located in any stream channel, down logs, stumps or within ten (10) feet of any other pile or trunk of the nearest reserve tree. No portion of the pile will be under the crown of any living tree. No piles shall be placed adjacent to or within twenty five (25) feet of unit boundaries.
  6. Hand piles shall be adequately covered with a minimum cap of five (5) feet by five (5) feet of four (4) millimeter black polyethylene

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plastic that is large enough to cover eighty (80) percent of the pile to ensure ignition. The plastic shall be held in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer.

7. Hand piles would not be constructed on roadways, turnouts, shoulders, or on the cut bank, unless authorized by the Authorized officer.
8. Hand piles will be burned within eighteen (18) months of harvest completion.
9. Hand piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
10. The purchaser shall burn ninety (90) percent of hand piles with ninety (90) percent consumption for satisfactory completion of treatment.
11. The Purchaser is required to furnish the fuel and equipment for hand pile burning.

- (c) SD-1f Within twenty (20) feet of the edge of each landing, all tops, broken pieces, limbs, and debris more than one (1) inch in diameter at the large end and longer than two (2) feet in length shall be piled within fourteen (14) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located off the driving surface of roads and at least fifteen (15) feet from any Reserve Tree and/or as directed by the Authorized Officer. Pile and burn all slash located within twenty (20) feet on each side of each landing pile. Slash shall be piled by hand. Finished piles shall be tight and free of earth. A ten (10) foot by ten (10) foot cover of four (4) millimeter black plastic shall cap each pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Landing piles shall be kept free of dirt and located off of the driving surface of roads and at least fifteen (15) feet from any Reserve Tree and/or as directed by the Authorized Officer.

Upon completion of landing piling, the Purchaser shall prepare the landing piles for burning by constructing a fireline by hand or machine

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approximately eighteen (18) inches wide and down to mineral soil around each pile to prevent escaped fire. Cover piles with large enough piece of four (4) millimeter thick black plastic to ensure a dry ignition spot, generally ten (10) foot by ten (10) foot. The Purchaser is required to furnish the covering materials. The timing of this covering work shall be in accordance with instructions from the Authorized Officer. If the structure of the landing piles will not permit adequate consumption of piled debris by burning, the Purchaser shall re-pile them at the direction of the Authorized Officer.

1. Landing piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
  2. Landing piles will be burned within eighteen (18) months of harvest completion.
- (2) SD-2 Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop up assistance as required herein, and measures required in Sections 42(E)(1)(SD-1) and 42(E)(3)(SD-4). In accordance with written instruction to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or his designated representative, assist in preparing units for burning, mop-up, and patrol by furnishing, at his own expense, the services of personnel and equipment on each unit as shown below.

All crews shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crew members.

(a) For Igniting and Burning Hand Pile Units 3-7 and 3-9:

1. One (1) person to supervise crew and equipment operators, and to serve as Purchaser's representative.
2. One (1) crew with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel,

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drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.

3. One (1) tank truck driver.
4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.
5. Ten (10) drip torches, Forester Sealtite, or equivalent.
6. Hand ignition with drip torches is required in pile burn units.
7. All ignition personnel will be directly supervised by a BLM representative.

(b) For Mop-up of Hand Pile Units 3-7 and 3-9:

1. One (1) person to supervise crew and to serve as Purchaser's representative.
2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or other scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
3. One (1) tank truck driver.
4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS

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477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

(c) For Igniting and Burning Landing piles in all units:

1. One (1) person to supervise crew and equipment operators, and to serve as Purchaser's representative.
2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
3. One (1) tank truck driver.
4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.
5. Six (6) drip torches, Forester Sealtite, or equivalent.
6. Hand ignition with drip torches is required in machine pile units.

(d) Mop-up of Landing Piles in all units:

1. One (1) person to supervise crew and to serve as Purchaser's representative.
2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.

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3. One (1) tank truck driver.
4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

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 areas with the following personal safety equipment: long sleeve natural fabric shirt, full length natural fabric trousers, minimum eight (8)-inch top leather boots, hardhat, and leather gloves. All personnel shall wear long pants and long sleeve shirts, lug-soled leather boots with minimum eight (8)-inch tall uppers that provide ankle support, approved hardhat, and leather gloves. On the day of ignition, clothing shall be of approved aramid fabric (Nomex™ or equivalent) and all personnel shall carry an approved fire shelter. Clothing shall be free of diesel fuel oil.

All listed tools and equipment shall be in good usable condition. All power driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power- driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop up on each hand piled unit and landing decks shown on Exhibit S for four hundred and fifty (450) hours as directed by the Authorized Officer within a 10 day period beginning 8:00 a.m. the day following completion of ignition in that unit or until released from such services by the Authorized Officer, whichever occurs first.

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In the event of a fire escapement, Purchaser's personnel and equipment shall, under supervision of the Authorized Officer, take action to suppress, including control and mop-up, the escaped fire until released from such service by the Government. If it becomes necessary to suppress a fire which escapes from the prescribed fire area for a period beyond midnight of ignition day, then the Government shall, at its option:

- (a) reimburse Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for Western Area and at equipment rates shown in current Oregon-Washington Interagency Fire Fighting Equipment Rental Rates schedule, until the Purchaser is released from such service by the Government, or+
- (b) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

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

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

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

- (3) SD-4 Logging Residue Reduction. In addition to the requirements of Secs. 15 and 25 of this contract, and notwithstanding the Purchaser's satisfactory compliance

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with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and site preparation measure(s) required by this contract:

- (a) Perform SELECTIVE SLASHING in unit 3-9 before hand pile, hand pile burn treatment.
  - 1. L-4 All trees between one (1) inch and eight (8) inches D.B.H.O.B. shall be felled and spaced following logging as shown on Exhibit S as directed by the Authorized Officer.
- (4) SD-5 The Purchaser shall perform logging residue reduction and site preparation work on approximately 107 acres of harvest area located in Cutting Unit Nos. 3-6, 3-7, and 3-9, and landings for all units as shown on Exhibit S.
  - (a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treatment	Cost/Acre
Lop and Scatter	\$42.00
Selective Slashing	\$300.00
Handpile and Cover Handpile	\$325.00
Handpile Burn and Mop-up	\$42.00
Cover and Burn Landing Decks	\$56.00

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

Appraised Treatment	Acres	Cost/Acre	Total Cost Per Treatment
Lop and Scatter	62	\$42.00	\$2,604.00
Selective Slashing	1	\$300.00	\$300.00
Handpile and Cover Handpile	45	\$325.00	\$14,625.00



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Handpile Burn and Mop-up	45	\$42.00	\$1,890.00
Cover and Burn Landing Decks	8.5	\$56.00	\$476.00
Total Appraised Cost			\$19,895.00

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to Section 42(E)(4)(SD-5)(a) differs from nineteen thousand eight hundred and ninety-five and 00/100 (\$19,895.00) dollars, as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(E)(4)(SD-5)(a)

#### (E) LOG EXPORTS

- (1) LE-1 All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export from the United States in the form of unprocessed timber, and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters (8¾) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timber, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three quarters (8¾) inches in thickness or less; (6) shakes and shingles.

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

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

- (a) Date of last export sale.

## NORTH WILLY TIMBER SALE

### SPECIAL PROVISIONS

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

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

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

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

Unless otherwise authorized in writing by the Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over 10 inches, prior to the removal of timber from the contract

## NORTH WILLY TIMBER SALE

### SPECIAL PROVISIONS

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.



## Seasonal Restriction Matrix

# North Willy Timber Sale

ORM07-TS-18-02

	Unrestricted Period
	Restricted To Dry Condition
	Restricted To Dry Condition Waiver Required

\*Operations will be suspended if unacceptable damage to residual trees occur.

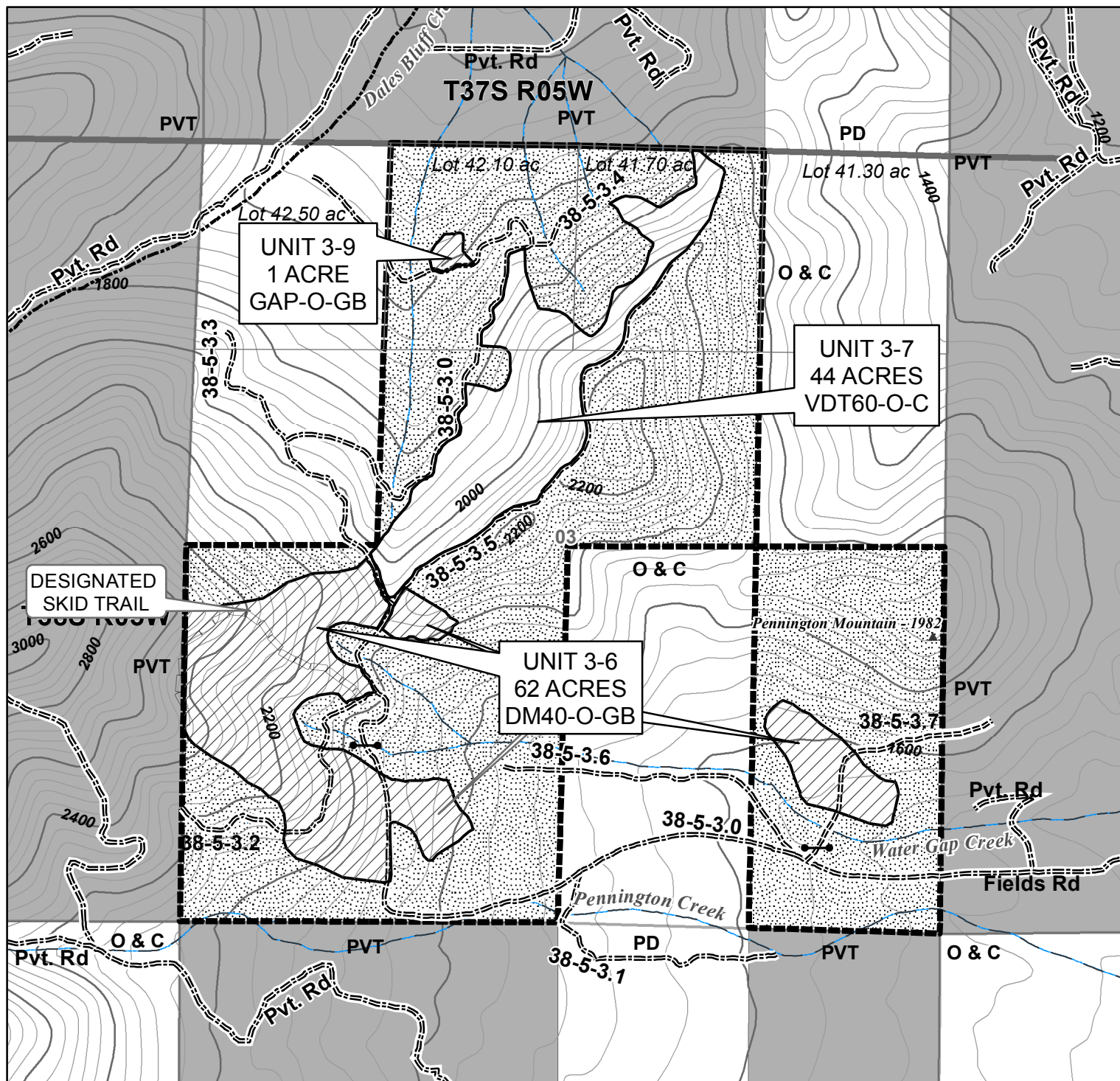
\*\* In-stream work periods for culvert cleaning are June 15th-September 15th

**Dry Condition Haul**= Loading, hauling, and road maintenance operations would not occur on all hydrologically connected roads when water is flowing in the ditches or during any conditions that would result in any of the following: surface displacement such as rutting or ribbons; continuous mud splash or tire slide; fines being pumped through road surfacing from the subgrade and resulting in a layer of surface sludge; road drainage causing a visible increase in stream turbidities, or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events. Hauling on natural surface or rocked roads would not resume for a minimum of 48 hours following any storm event that results in 1/2 inch or more precipitation within a 24 hour period, and until road surface is sufficiently dry to prevent any of the above conditions from reoccurring.

Dry Condition Yarding and Temporary Route Work—Ground-based harvesting, tractor yarding, temporary route work, and rehabilitation activities would not occur when soil moisture at a depth of 4-6 inches is wet enough to maintain form when compressed, or when soil moisture at the surface would readily displace, causing ribbons and ruts along equipment tracks. These conditions are generally found when soil moisture, at a depth of 4-10 inches, and between 15-25% depending on soil type.

[illegible]





0 750 1,500 3,000 Feet

1 inch = 1,000 feet

40 FOOT CONTOUR INTERVAL



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

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


Map created on  
11/02/2017









Legend




Cable Yard




Ground Based Harvest and Yard




Contract Area Boundary




Reserve Area




Designated Skid Trail




Mountain Peaks




Gate




Natural Surface Road




Perennial Stream




Intermittent Stream




Index 200-ft contour




Intermediate 40-ft contour




Township and Range




Sections



Government Lots



Bureau of Land Management



Other




UNIT	ACRES	HARVEST TYPE	PAINT COLOR	LOGGING SYSTEM
3-6	62	DM40	O	GB
3-7	44	VDT60	O	C
3-9	1	GAP	O	GB

TOTAL 107

ALL ACRES COMPUTED BY GPS TRAVERSE  
BOUNDARIES OF HARVEST UNITS ARE POSTED AND PAINTED IN ORANGE

DM 40= DENSITY MANAGEMENT TO 40% CANOPY COVER  
VDT 60 = VARIABLE DENSITY THIN TO 60% CANOPY COVER  
GAP = ONE (1) ACRE PATCH CUT  
O = ORANGE PAINT (RESERVE TREE MARK)  
GB = GROUND-BASED HARVEST AND YARDING  
C = CABLE YARDING

SUMMARY

DM40-O-GB	DENSITY MANAGEMENT TO 40% CANOPY RETENTION-ORANGE MARK RESERVE TREE- GROUND BASED HARVEST AND YARD (UNIT 3-6)	62 ACRES
VDT60-O-C	VARIABLE DENSITY THING TO 60% CANOPY RETENTION ORANGE MARKED RESERVE TREE-CABLE YARD (UNIT 3-7)	44 ACRES
GAP-O-GB	GAP-ORANGE MARK RESERVE TREE GROUND BASED HARVEST AND YARD (UNIT 3-9)	1 ACRE
	TOTAL TIMBER SALE UNIT AREA	107 ACRES
	RESERVE AREA	296.80 ACRES
	TOTAL CONTRACT AREA	403.80 ACRES





**United States  
Department of the Interior  
Bureau of Land Management**

**Timber Appraisal**

---

<b>Sale Name:</b>	North Willy	<b>Sale Date:</b>	Thursday, June 28, 2018
<b>BLM District:</b>	Medford DO	<b>Unit of Measure:</b>	16' MBF
<b>Contract #:</b>	ORM07-TS-2018.0002	<b>Contract Term:</b>	36 months
<b>Sale Type:</b>	Advertised	<b>Contract Mechanism:</b>	5450-3
			Sale of Timber - Lump Sum

---

**Content**

**Timber Appraisal Summary  
Stumpage Summary  
Unit Summary  
Stump to Truck  
Transportation  
Engineering Allowances  
Other Allowances**

**Prepared By:** Caulfield, David J  
**Approved By:** Caulfield, David J

## Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Josephine	38S	5W	3	Unnumbered lot NW1/4NE1/4, SW1/4NE1/4, Unnumbered lot NE1/4NW1/4, SE1/4NW1/4, SW1/4, E1/2SE1/4	Willamette

## Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	379.0	418.0	441.0	9,089	278	3,433
Ponderosa Pine	25.0	27.0	28.0	664	39	286
Sugar Pine	13.0	13.0	14.0	319	29	142
Incense-cedar	1.0	1.0	1.0	20	1	11
<b>Totals</b>	<b>418.0</b>	<b>459.0</b>	<b>484.0</b>	<b>10,092</b>	<b>347</b>	<b>3,872</b>

## Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
1.0	106.0	0.0	107.0	3.9

**Logging Costs**

Stump to Truck	\$156,328.83
Transportation	\$19,190.79
Road Construction	\$7,884.41
Maintenance/Rockwear	\$2,426.29
Road Use	\$400.00
Other Allowances	\$27,619.80
<b>Total:</b>	<b>\$213,850.12</b>
<b>Total Logging Cost per MBF:</b>	<b>\$511.60</b>

**Utilization Centers**

Location	Distance	% of Net Volume
White City, OR	36.0 miles	100 %

**Profit & Risk**

Basic Profit & Risk	9 %
Additional Risk	3 %
<b>Total Profit &amp; Risk</b>	<b>12 %</b>

**Tract Features**

Quadratic Mean DBH	13.6 in
Average GM Log	45 bf
Average Volume per Acre	3.9 mbf
Recovery	86 %
<b><u>Net MBF volume:</u></b>	
Green	418.0 mbf
Salvage	0 mbf
Export	0 mbf
<b><u>Ground Base Logging:</u></b>	
Percent of Sale Volume	75 %
Average Yarding Slope	30 %
Average Yarding Distance	400 ft
<b><u>Cable Logging:</u></b>	
Percent of Sale Volume	25 %
Average Yarding Slope	65 %
Average Yarding Distance	400 ft
<b><u>Aerial Logging:</u></b>	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

**Cruise**

Cruise Completed	August 2017
Cruised By	Caulfield, Cannon
Cruise Method	
Douglas-fir 3P. All other species BLM100.	

## Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	3,433	379.0	\$708.78	\$85.05	\$511.60	\$0.00	\$112.10	\$42,485.90
Ponderosa Pine	286	25.0	\$429.60	\$51.55	\$511.60	\$0.00	\$43.00 *	\$1,075.00
Sugar Pine	142	13.0	\$413.06	\$49.57	\$511.60	\$0.00	\$41.40 *	\$538.20
Incense-cedar	11	1.0	\$482.30	\$57.88	\$511.60	\$0.00	\$48.30 *	\$48.30
<b>Totals</b>	<b>3,872</b>	<b>418.0</b>						<b>\$44,147.40</b>

\* Minimum Stumpage values were used to compute the Appraised Price/MBF (10% of Pond Value)

## Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir			2.0 %	38.0 %	50.0 %	10.0 %	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Ponderosa Pine				24.0 %	60.0 %	16.0 %	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Sugar Pine				33.0 %	51.0 %	16.0 %	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Incense-cedar					73.0 %	27.0 %	

**North Willy****Unit Summary****ORM07-TS-2018.0002****Unit: 3-6**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	263.0	289.0	306.0	2,440
Ponderosa Pine	19.0	20.0	21.0	258
Sugar Pine	10.0	10.0	11.0	118
Incense-cedar	1.0	1.0	1.0	11
<b>Totals:</b>	<b>293.0</b>	<b>320.0</b>	<b>339.0</b>	<b>2,827</b>

**Net Volume/Acre: 4.7 MBF**

Regeneration Harvest	0.0
Partial Cut	62.0
Right of Way	0.0
<b>Total Acres:</b>	<b>62.0</b>

**Unit: 3-7**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	111.0	123.0	129.0	934
Sugar Pine	3.0	3.0	3.0	24
Ponderosa Pine	1.0	1.0	1.0	20
<b>Totals:</b>	<b>115.0</b>	<b>127.0</b>	<b>133.0</b>	<b>978</b>

**Net Volume/Acre: 2.6 MBF**

Regeneration Harvest	0.0
Partial Cut	44.0
Right of Way	0.0
<b>Total Acres:</b>	<b>44.0</b>

**Unit: 3-9**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	5.0	6.0	6.0	59
Ponderosa Pine	5.0	6.0	6.0	8
<b>Totals:</b>	<b>10.0</b>	<b>12.0</b>	<b>12.0</b>	<b>67</b>

**Net Volume/Acre: 10.0 MBF**

Regeneration Harvest	1.0
Partial Cut	0.0
Right of Way	0.0
<b>Total Acres:</b>	<b>1.0</b>

Total Stump To Truck	Net Volume	\$/MBF
\$156,328.83	418.0	\$373.99

## Stump to Truck: Falling, Bucking, Yarding, &amp; Loading

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Small Yarder	GM MBF	127.0	\$388.51	\$49,340.77	
Track Skidder	GM MBF	332.0	\$319.42	\$106,047.44	
<b>Subtotal</b>				<b>\$155,388.21</b>	

## Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Directional Falling	Total	1.0	\$940.62	\$940.62	Falling Trees Away from Boundaries and Buffers.
<b>Subtotal</b>				<b>\$940.62</b>	

## Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
<b>Subtotal</b>				<b>\$0.00</b>	



Total	Net Volume	\$/MBF
\$19,190.79	418.0	\$45.91

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
White City, OR	36.0	All Species	GM MBF	459.0	\$41.81	\$19,190.79	100 %

**Engineering Allowances**

Total	Net Volume	\$/MBF
\$10,710.70	418.0	\$25.62

Cost Item	Total Cost
Road Construction:	\$7,884.41
Road Maintenance/Rockwear:	\$2,426.29
Road Use Fees:	\$400.00

**North Willy**

**Other Allowances**

**ORM07-TS-2018.0002**

**Total**

**Net Volume**

**\$/MBF**

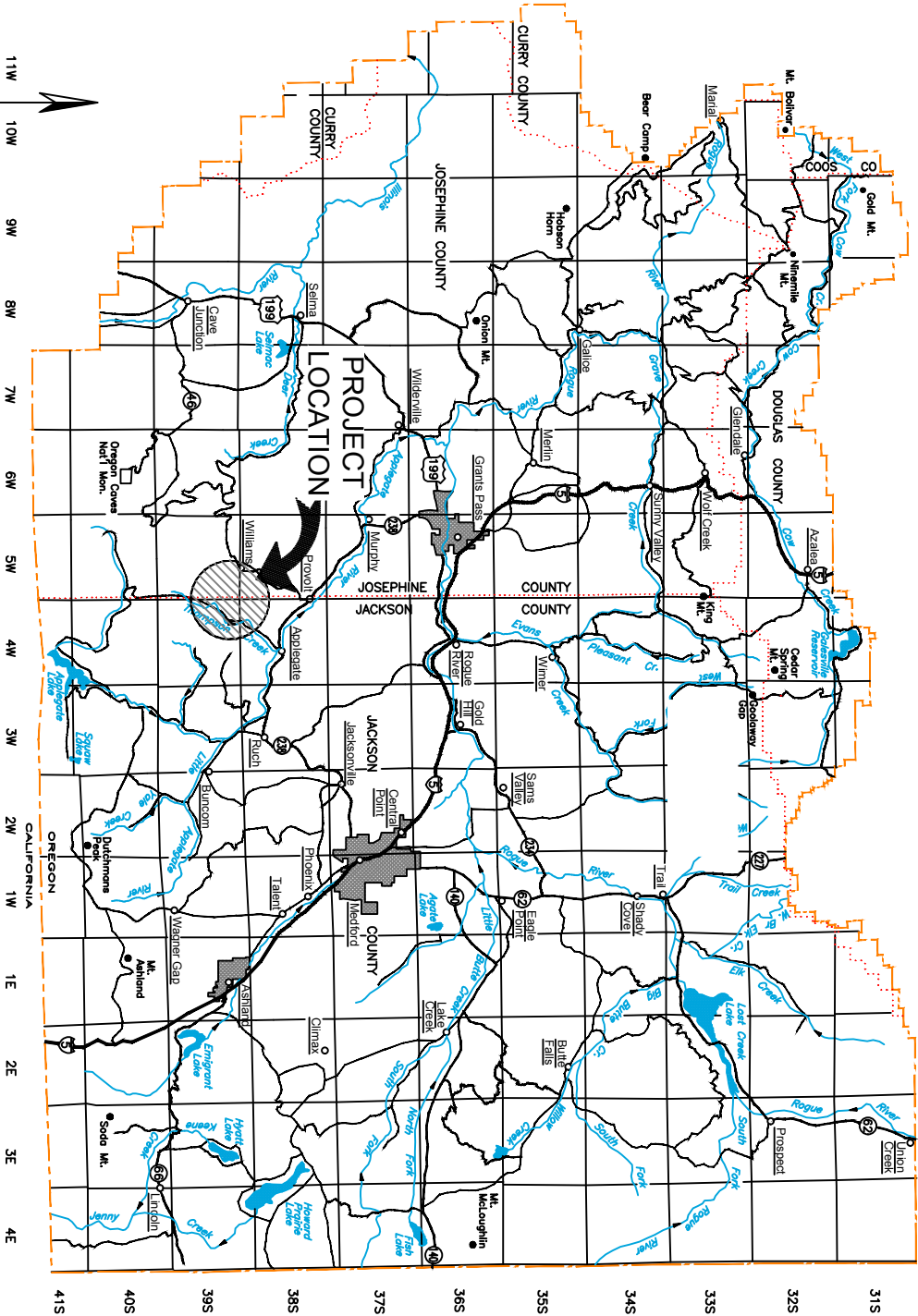
\$27,619.80

418.0

\$66.08

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

EXHIBIT C1  
SHEET 1 OF 1  
NORTH WILLY TIMBER SALE  
TRACT NO. ORM07-TS-18-02



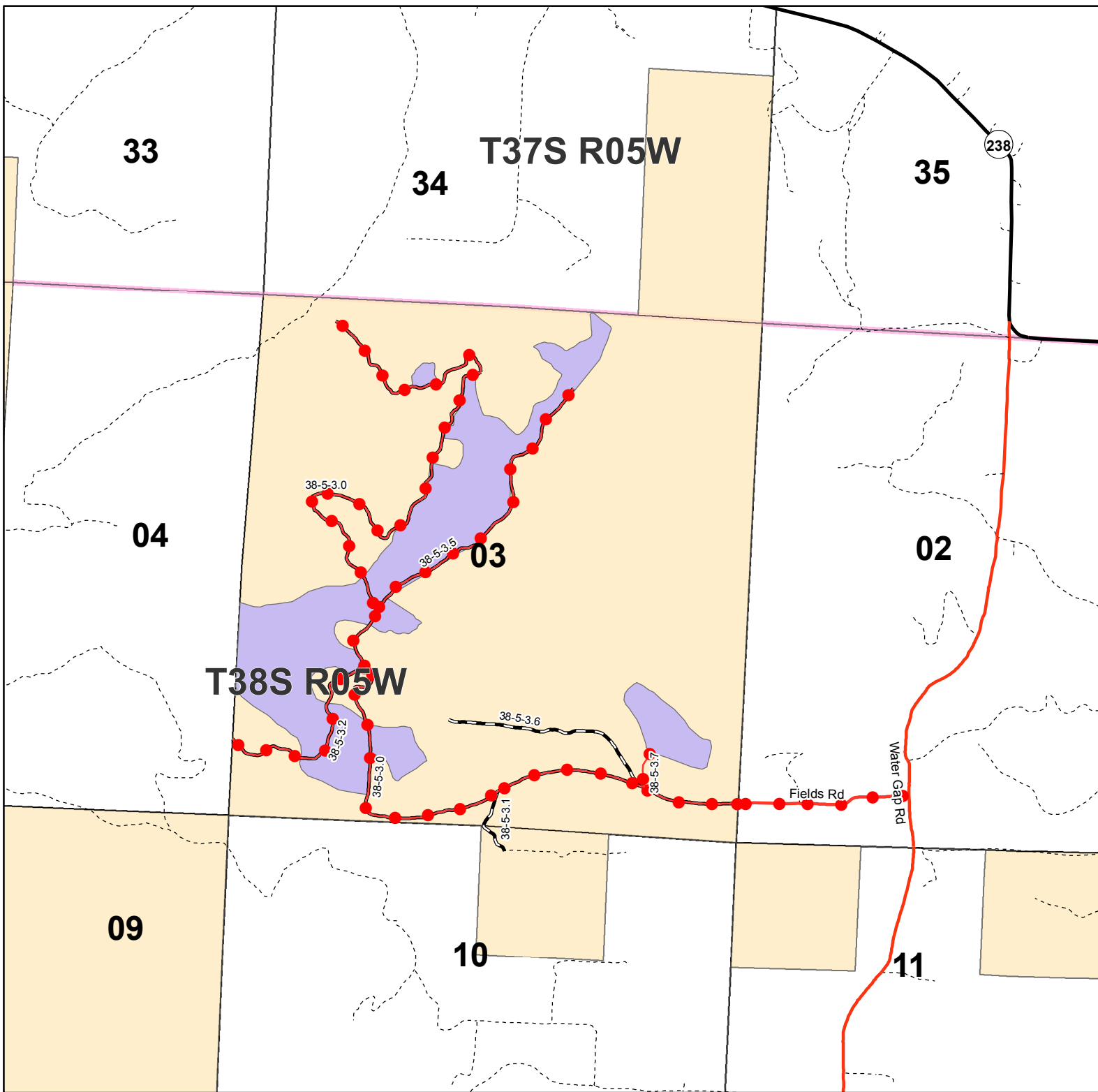
ALWAYS  
**THINK**  
SAFETY



EXHIBIT NO.	DESCRIPTION
C1	TITLE SHEET
C2	OVERALL SALE & ROAD RENOVATION MAPS
C3	ESTIMATE OF QUANTITIES
C4	SPECIFICATION SHEET
C5	ROADSIDE BRUSHING DETAIL
C6	DRAINAGE AND EROSION CONTROL
C7	ARMORED WATER DIP
C8	ROAD RENOVATION WORKLIST
C9	SPECIAL PROVISIONS
D1	ROAD MAINTENANCE SPECIFICATIONS
D2	ROAD MAINTENANCE MAP
REV. NO.	DESCRIPTION
	DATE
	APPROV.

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

NORTH WILLY  
TIMBER SALE SHEET

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: CLS	SCALE: 1" = 12 MI
DATE: 02/20/2018	SHEET: 1 OF 1
DRAWING NO.: OR-11-9113.4-1	



 Road Renovations  
 NorthWillyTimberSaleUnits

0 0.3 0.6 Miles

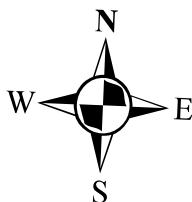
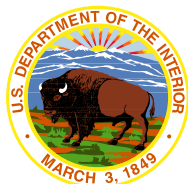
UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD OREGON

## NORTH WILLY TIMBER SALE ROAD RENOVATIONS

DESIGNED: \_\_\_\_\_  
REVIEWED: \_\_\_\_\_  
APPROVED: \_\_\_\_\_

DATE : \_\_\_\_\_ SCALE : AS SHOWN

DRAFTED BY : CL Smith SHEET : 1 of 1



**EXHIBIT C3**  
**SHEET 1 OF 1**

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	EXCAVATION		DRAINAGE										RENOVATION			AGGREGATE						MISC.				
					ROCK	COMMON	CORRUGATED METAL PIPE 16 GA						ELBOWS	DOWNSPOUT				RESHAPE EX. ROAD SURFACE	DITCH & CULVERT CLEANING	SCARIFICATION	PIT RUN	CRUSHED BASE ROCK	BORROW MATERIAL							
							SIZE			FULL ROUND				HALF ROUND																
							18"	24"	30"	84"	18"	24"		18"	24"															
SPECIFICATION NO. —————>		200	300	400										500	700	1000		1800	2100	8000										
UNITS —>	MP	MP	MILE	ACRE	CY	CY	LF	LF	LF	EA	LF	LF	LF	MILE	MILE	MILE	CY	CY	CY	CY	ACRE	MILE	EA	EA	EA	MI	EA			
	38-5-3.0	0.00	2.93	2.93											1.93	2.93			60				2.93							
	38-5-3.2	0.00	0.41	0.41											0.41	0.41												0.41		
	38-5-3.5	0.00	0.62	0.62											0.62													0.62		
	38-5-3.7	0.00	0.20	0.20											0.20															

## RENOVATION NOTES

1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.

2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

## AGGREGATE GRADATION REQUIREMENTS

ITEM 900		ITEM 1000		ITEM 1200	
SIZE	GRADATION	SIZE	GRADATION	SIZE	GRADATION
4 inch	A	3 inch	A,C,F	1 1/2 inch	C,C-1
3 inch	B			1 inch	D,D-1
2 inch	C		B,D,G,H	3/4 inch	E,E-1
1 1/2 inch	D				

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

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REV. NO.	DESCRIPTION	DATE	APPROV
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
NORTH WILLY TIMBER SALE ESTIMATE OF QUANTITIES			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BLM		SCALE: NONE	
DATE: 02/20/2018		SHEET: 1 OF 1	
DRAWING NO.: OR-1-9113.4-1			

**EXHIBIT C4**  
**SHEET 1 OF 2**

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	TYPICAL STATION TYPE	ALIGNMENT			ROAD WIDTH <sup>1-3</sup>			GRADIENT		BRUSHING WIDTH			SURFACING <sup>3</sup>							REMARKS
					MAXIMUM DEGREE OF CURVE	SUBGRADE	DITCH	MAXIMUM FAVORABLE	MAXIMUM ADVERSE	BEYOND		EXISTING ROAD(S)	BASE COURSE			SURFACE COURSE							
										TOP CUT	TOE FILL		L	R	MINIMUM WIDTH	COMPACTION DEPTH	TYPE <sup>2</sup>	GRADING	MINIMUM WIDTH	COMPACTION DEPTH	TYPE <sup>2</sup>	GRADING	
38-5-3.0	0.00	2.93	2.93	6			2						4'	4'			1.93				60CY 2 1/2" Crushed Rock		
38-5-3.2	0.00	0.41	0.41	5			2						4'	4'			0.41						
38-5-3.5	0.00	0.62	0.62	3									4'	4'			0.62						
38-5-3.7	0.00	0.20	0.20	3													0.20						

## NOTES

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

- 7-21 ADD 1 FT.  
22-35 ADD 2 FT.  
36-48 ADD 3 FT.  
49-64 ADD 4 FT.  
65-96 ADD 5 FT.

<u>MATERIALS</u>	<u>CUT SLOPE</u>	<u>FILL SLOPE</u>
Gravel	1:1	1:1.5
Sand	1:1	1:1.5
Clay	1:1	1:1.5
Rock	1:1	1:1.5

COMMON	1/2 : 1	1 1/2 : 1
--------	---------	-----------

SOFT ROCK  
& SHALE

SOLID ROCK      1/2 : 1      angle of repose

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

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

- #### 4. SURFACING

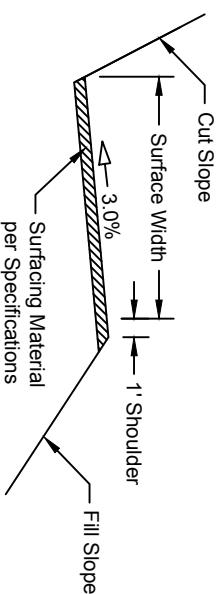
- ## 5. CLEARING WIDTH

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THINK  
SAFETY

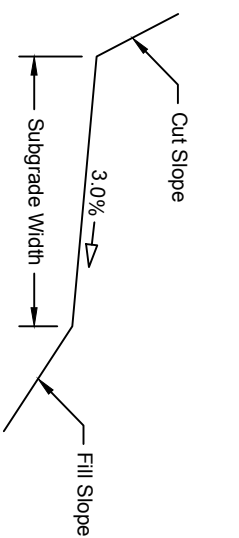
REV. NO.	DESCRIPTION	DATE	APPROV
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
NORTH WILLY TIMBER SALE SPECIFICATION SHEET			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BLM			
DATE: 02/20/2018	SCALE: NONE		
	SHEET: 1 OF 2		
DRAWING NO.: OR-11-9113.4-1			

Diagram illustrating a typical grading section for Type 1 road construction. The section shows a cross-section with a 3.0% slope indicated by a triangle and the text "3.0%". The top surface is labeled "Cut Slope" and the bottom surface is labeled "Fill Slope". The width of the subgrade is labeled "Subgrade Width".

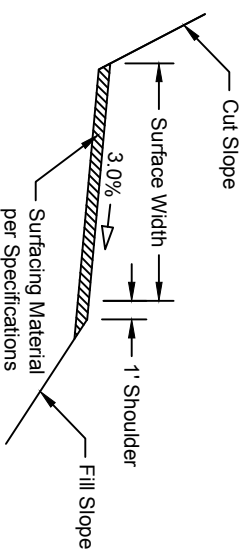
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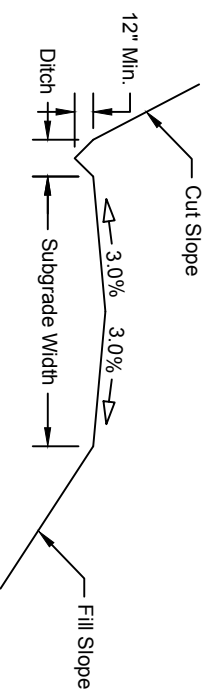
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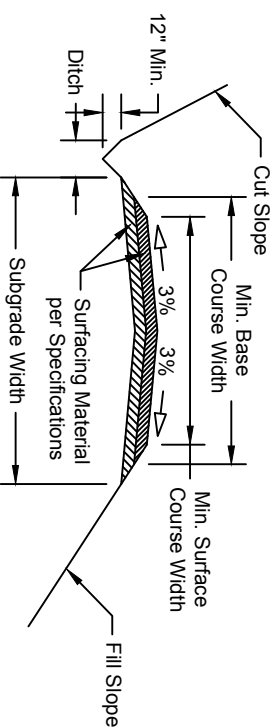
TYPE 3



TYPE 4

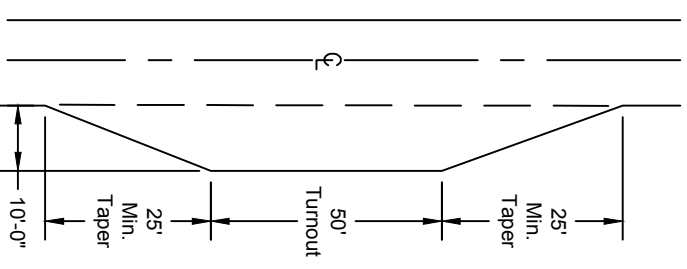


## TYPE 5



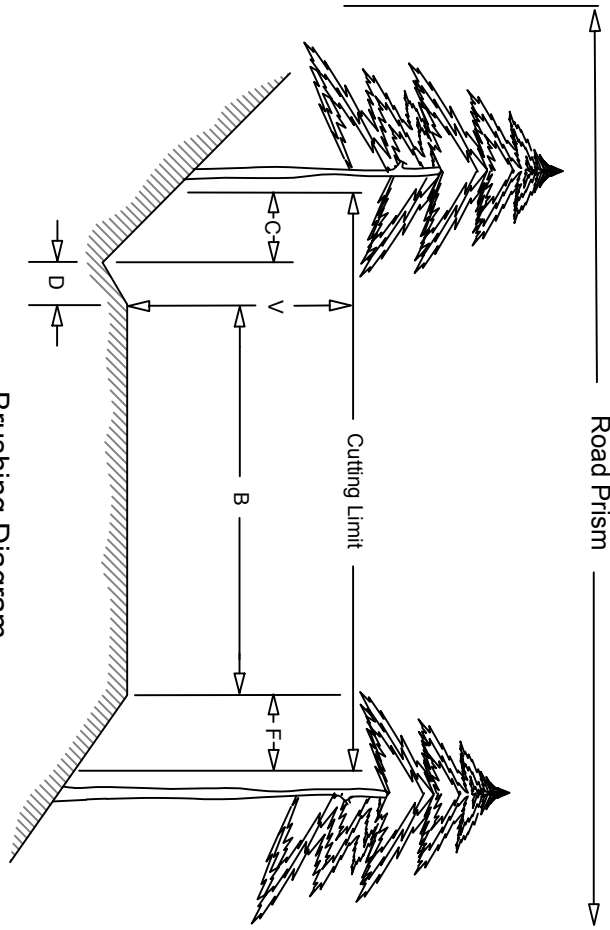
TYPE 6

ALWAYS  
THINK  
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TYPICAL TURNOUT  
PLAN VIEW

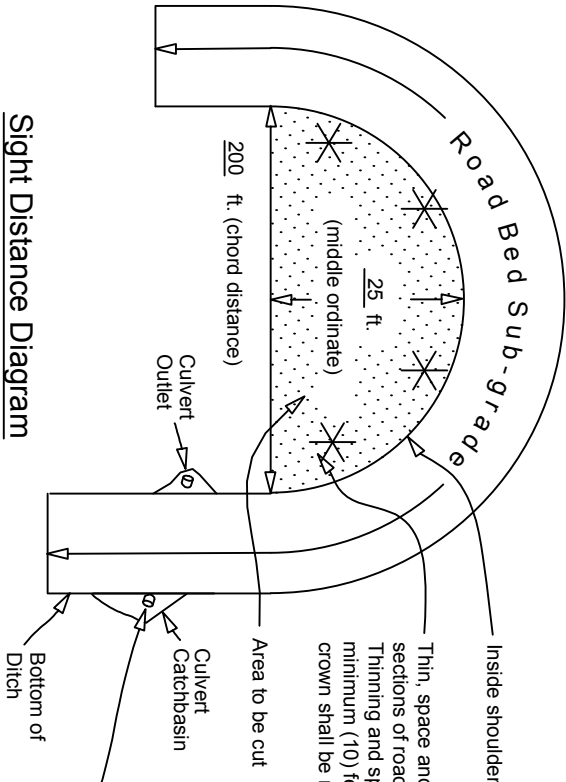
REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
NORTH WILLY TIMBER SALE SPECIFICATION SHEET			
DESIGNED: _____			
REVIEWED: _____			
APPROVED: _____			
DRAFTED BY: BLM			
SCALE: NONE			
DATE: 02/20/2018	SHEET: 2 OF 2		
DRAWING NO.: OR-11-9113.4-1			



Brushing Diagram

- Cutting Limit =  $C + D + B + F$
- B = Road Bed Subgrade (includes turnouts)  
Cut all vegetation to max. height of 1".
- C = 4 ft - Distance to be brushed on cut slope beyond centerline of ditch. Cut all vegetation to max height of 6".
- D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".
- F = Distance to be brushed on fill slope beyond outside shoulder  
Cut all vegetation to max. height of 6".
- V = 14 ft - Height of vertical cutting limit

Inside Corner



Sight Distance Diagram

Clear 4 ft radius around all culvert inlets and outlets. Tie ribbon at outlet.

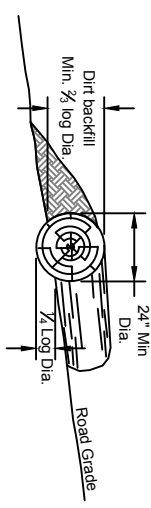
ALWAYS  
**THINK**  
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.	
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON				
NORTH WILLY TIMBER SALE ROADSIDE BRUSHING DETAIL				
DESIGNED:				
REVIEWED:				
APPROVED:				
DRAFTED BY: BLM	SCALE: NONE			
DATE: 02/20/2018	SHEET: 1 OF 1			
DRAWING NO.: OR-11-9113.4-4				

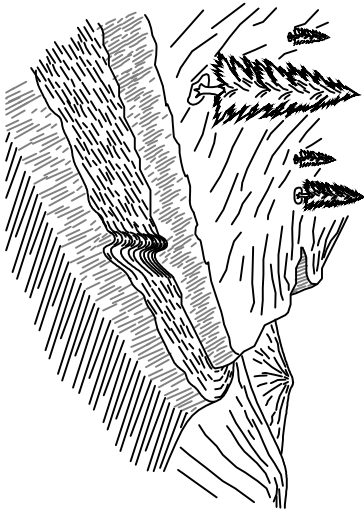




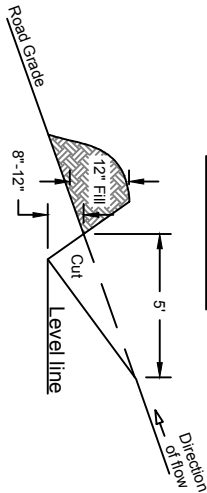
LOG BARRICADE



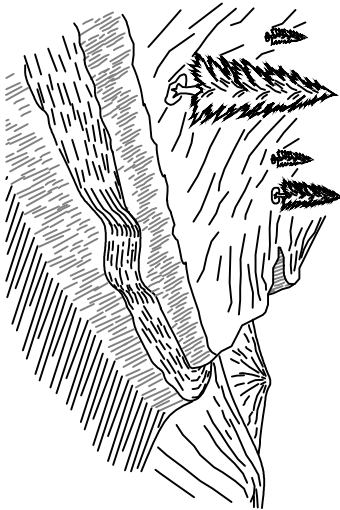
1. Log barricade shall be constructed as shown above.
2. Exact location will be flagged by the authorized officer prior to construction.
3. All barricades shall be skewed 30 degrees.
4. The length shall be sufficient to extend from the cut bank to the fill slope.
5. The minimum small end diameter of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



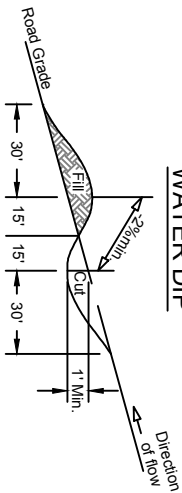
WATER BAR



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



WATER DIP

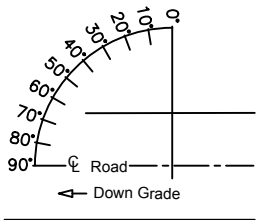


1. Water dips shall be constructed as shown above.
2. Exact location will be flagged by the Authorized Officer prior to construction.
3. All water dips shall be skewed 30 degrees.
4. The length shall be sufficient to extend from the cut bank to the fill slope and be readily crossed by passenger type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

BARRICADE LOCATION

ROAD NUMBER	M.P. / STA.
TEMP ROUTE 1	0.01
TEMP ROUTE 2	0.01
TEMP ROUTE 3	0.01 & 0.12
TEMP ROUTE 4	0.01
TEMP ROUTE 5	0.01
TEMP ROUTE 6	0.01
TEMP ROUTE 7	0.01
TEMP ROUTE 8	0.01

SKEW DIAGRAM



WATER DIP/BAR SPACING\*

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

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

ALWAYS  
THINK  
SAFETY

DESIGNED:	
REVIEWED:	
APPROVED:	
DRAFTED BY: BLM	SCALE: NONE
DATE: 02/20/2018	SHEET: 1 OF 1
DRAWING NO.: OR-11-9113.4-4	

REV. NO.	DESCRIPTION	DATE	APPROV.

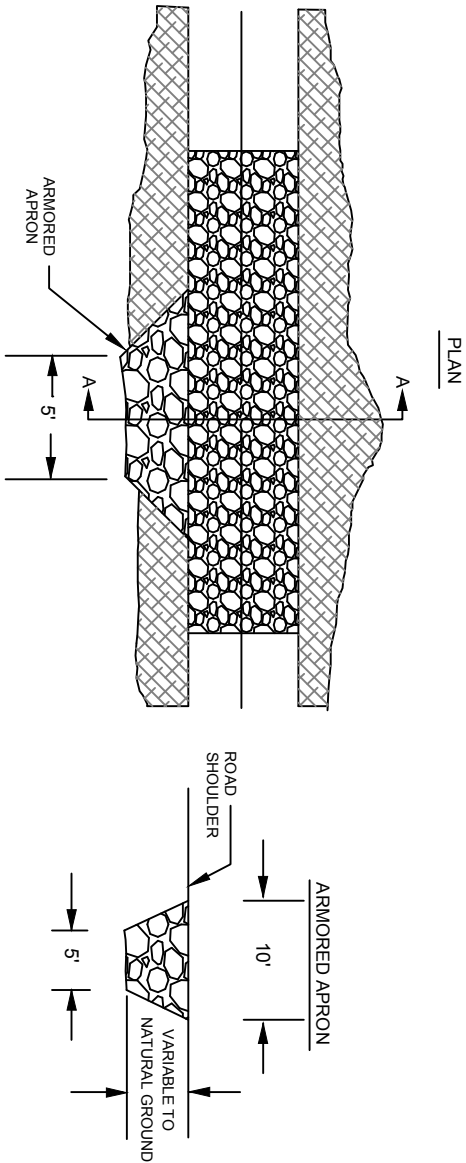
UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD, OREGON

NORTH WILLY  
TIMBER SALE  
DRAINAGE & EROSION  
CONTROL DETAILS

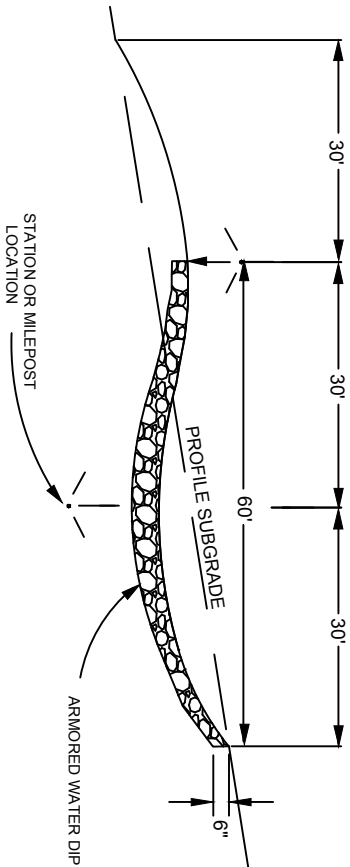
EXHIBIT C7  
SHEET 1 OF 1

NOTES

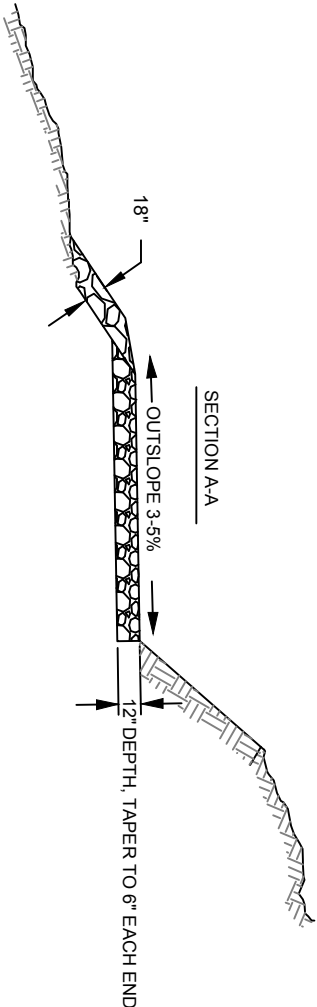
- 1) THE WATER DIP INVERT SHALL BE SMOOTH AND FREE DRAINING.
- 2) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE CUTSLOPE HINGE POINT IS 1.0 FEET.
- 3) THE MINIMUM DIFFERENCE IN ELEVATION BETWEEN THE SAG AND THE CREST OF THE WATER DIP ALONG THE FILL SLOPE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



PROFILE



SECTION A-A



LEGEND

- CUT/FILL SLOPES
- SUBGRADE ARMOR MATERIAL (3" minus)
- FILL SLOPE ARMOR MATERIAL 12" MINUS OR OTHER APPROVED MATERIAL.

REV. NO.	DESCRIPTION	DATE	APPROV.	
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON				
NORTH WILLY TIMBER SALE ARMORED WATER DIP				
DESIGNED: _____				
REVIEWED: _____				
APPROVED: _____				
DRAFTED BY: BLM	SCALE: NONE			
DATE: 02/20/2018	SHEET: 1 OF 1			
DRAWING NO.: OR-11-9113.4-1				

## SPECIAL PROVISIONS

1. Before the initial start of road renovation, construction, reconstruction, or surfacing operations, or after a shutdown of 7 or more days, the Purchaser shall notify the Authorized Officer 48 hours in advance of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer if they intend to cease operations for any period of 30 or more days.
2. The contractor shall protect and is responsible for any damage to existing telephone lines, transmission lines, fiber optic lines, fences, ditches, and other existing improvements as required in Section 14. Damage to utilities and existing improvements shall be promptly paid for or repaired to a condition which is, in the opinion of the Authorized Officer and the governing utility company, at least as good as the condition just prior to such damage.
3. All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, **if available**. Certified weed free straw mulch will be the responsibility of the contractor.
4. All stream channel culvert inlets shall be cleaned between **July 1<sup>st</sup> and September 15<sup>th</sup>** in accordance with Oregon Department of Fish and Wildlife (ODFW) in-stream work period guidelines.
5. Ensure that all large wood is retained in the stream channel during culvert cleaning activities by moving logs which had accumulated on the stream side of a culvert to the downstream side of the culvert.
6. Roadside brushing cutting limits beneath or adjacent to bridges shall extend 8 feet horizontally from each side of the outermost projected line of the bridge including abutments, curbs, rails or decks. Cut brush and trees shall be removed from beneath the bridge and from the stream channel.
7. While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. All debris resulting from roadside brushing activities shall be scattered downslope. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. **All culvert inlets and outlets shall be brushed for a radius of 4 feet.**
8. While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C10) shall have the branches pruned rather than being felled.
9. All stumps, designated by the Authorized Officer, which would interfere with normal blading and road renovation operations (including turnouts), shall be removed in such a way as to not cause damage to the drainage ditch or the road bed. Stumps that are ground-down, shall be ground to a minimum of 3 inches below existing grade.

**NORTH WILLY TIMBER SALE WORK LIST**

Road Renovation Work List

<b>ABC = Aggregate Base Course</b>	<b>ASC = Aggregate Surface Course</b>	<b>BST = Bituminous</b>
<b>CY = Cubic Yard</b>	<b>CMP = Corrugated Metal Pipe</b>	<b>GRR = Grid Rolled Rock</b>
<b>NAT = Natural Road Surface</b>	<b>PRR= Pit Run Rock</b>	

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

**NORTH WILLY ROADS**

**38-5-3.0**

- |      |                                                                                                                                                                                                                                |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 0.00 | Begin <b>BST</b> surface.                                                                                                                                                                                                      |  |
| 0.29 | END OF COUNTY ROAD- Begin of ABC surface; Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; cleaning all culvert inlets and outlets; and roadside brushing. |  |
| 0.32 | Driveway Right                                                                                                                                                                                                                 |  |
| 0.34 | Driveway Left                                                                                                                                                                                                                  |  |
| 0.52 | Spur Right – Gate                                                                                                                                                                                                              |  |
| 0.56 | Spur Right – Begin 10 CY of Rock                                                                                                                                                                                               |  |
| 0.64 | Install rolling dip End of 10 CY of Rock,. End reshape road and ditchline.                                                                                                                                                     |  |
| 0.85 | Driveway Left, Begin reshape road and ditchline, Spot Rock Begin 20 CY                                                                                                                                                         |  |
| 1.00 | Driveway Left End of Spot Rock 20 CY, End reshape road and ditchline.                                                                                                                                                          |  |

1.07	Driveway Left
1.09	Driveway Left
1.13	Driveway Left, Begin reshape road and ditchline where needed. Install rolling dip w/ rock 5 CY
1.30	3-6 Unit End Right
1.34	3-6 Unit End Left
1.38	18" CMP – Gate 113
1.44	Jct Left 38-5-3.2 Rd
1.47	18" CMP
1.55	Unit 3-6 Begin
1.58	Jct w/ Spur & 38-5-3.5 Rd, End reshape road and ditchline.
1.72	18" CMP
1.78	18" CMP
1.83	18" CMP
1.88	Jct w 38-5-3.3 Begin reshape road and ditchline where needed
1.97	18" CMP, Begin Spot Rock 10 CY
2.07	18" CMP
2.11	Unit 3-7B Begin
2.19	18" CMP

2.24	18" CMP
2.30	18" CMP
2.35	18" CMP
2.40	18" CMP
2.47	18" CMP
2.49	Jct w/38-5-3.4
2.62	18" CMP – Unit 3-9 Begin
2.67	18" CMP, Begin Spot Rock 15 CY
2.68	Unit 3-9 End
2.73	Culvert, Begin Spot Rock 10 CY
2.85	18" CMP
2.89	Jeep trail Right
2.93	END OF ROAD – jeep trail Left

**38-5-3.2**

0.00	Jct w/38-5-3.0 Rd – Begin of ABC/NAT surface; Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; cleaning all culvert inlets and outlets; and roadside brushing.
0.06	18" CMP
0.10	18" CMP

0.14	18" CMP – Unit 3-6 Left
0.16	18" CMP
0.36	18" CMP
0.41	End of Road

**38-5-3.5**

0.00	Jct w/ 38-5-3.0 – Begin of NAT surface; Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; cleaning all culvert inlets and outlets; and roadside brushing.
------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

0.06	18" CMP
0.19	18" CMP
0.48	Slide
0.53	18" CMP
0.62	End of Road

**38-5-3.7**

0.00	Jct w/ 38-5-3.0 – Begin of NAT surface; Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; cleaning all culvert inlets and outlets; and roadside brushing.
0.11	18" CMP
0.20	End of Road

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE SPECIFICATIONS

INDEX

3000	GENERAL MAINTENANCE
3100	OPERATIONAL MAINTENANCE
3200	SEASONAL MAINTENANCE
3300	FINAL MAINTENANCE
3400	OTHER MAINTENANCE



GENERAL MAINTENANCE – 3000

- 3001 The Purchaser shall be required to maintain all roads listed and/or referenced in section 41, as shown on the Exhibit D maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 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 reconstructed, 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 road(s) with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a Removal of bank slough and slide material includes placement of material at the nearest designated and 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 15 station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.

Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work, based on the 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 15 station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding 15 station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work based upon current BLM 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 remove 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 cutting and chipping in accordance with Section 2100 of the Exhibit C-9 Specifications.

- 3108 The Purchaser shall avoid fouling gravel 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. Repairs required, that were caused by such skidding activities, are not considered maintenance and shall be repaired at the Purchaser's expense.

- 3108a The Purchaser shall perform logging operations on gravel roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer.

#### 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<sup>st</sup> each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the preceding operating seasons.
- 3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any 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 (Sec. 4) and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

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

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

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

#### OTHER MAINTENANCE - 3400

- 3401 The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.

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

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

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

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

During drought periods when the transportation of water from the source to the roads noted above exceeds (20) miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering based on equipment rental rates from the current BLM Road Cost Guide.

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

- 3404 The Purchaser may at his option and expense substitute lignin sulfonate or magnesium chloride for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.
- 3405b The Purchaser shall notify affected residents along the roads to be treated of the planned application of lignin sulfonate or magnesium chloride dust palliatives at least (3) days prior to the work. Warning signs shall be posted at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within thirty (30) days of treatment.
- 3406 Prior to the application of lignin sulfonate or magnesium chloride dust palliatives, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must be visibly moist and drying.
- 3406b A light application of water to promote penetration shall be made in advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.
- 3406c The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.
- 3407 The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the lignin sulfonate or magnesium chloride dust palliatives material requirements specified under Subsection (3412b) (3412c). Commercial certification includes the date, identification number of truck or trailer, net mass, and brand name with each shipment. Also provide the net volume and specific gravity at 60 degrees

F, percent solids by mass, and PH.

- 3408 Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.
- 3409 The Purchaser shall notify the Authorized Officer a minimum of (3) days in advance of application of required dust palliative.
- 3410 The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.
- 3411 If used, lignin sulfonate or magnesium chloride dust palliatives shall only be applied when the atmospheric temperature is 45° F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.
- 3412 If used, the Purchaser shall apply to the prepared roadbed specified under Subsection 3406, a lignin sulfonate or magnesium chloride dust palliative conforming to the material requirements of Subsection (3412b) (3412c). The rate of application shall be (0.5) gallons per yd<sup>2</sup> surface.

Applied materials not penetrating the road surface shall be blade mixed with additional water into the top 1 to 1½ inches of the surfacing at the Contractor's expense.

- 3412a If required, the lignin sulfonate or magnesium chloride shall be field diluted within the application vehicle and be circulated at least 5 minutes to assure mixing. An air gap shall be provided between any water source and the materials being diluted. Accidental spills shall be contained to prevent entry in water courses or ponded water. The surface of adjacent structures and trees shall be protected from spattering or marring.

A wetting agent may be used in addition to the certified compound or mixed with the road surface preparation watering. A mix of less than 1:6000 is recommended.

Water used to dilute lignin sulfonate or magnesium chloride concentrate shall be clean and free of oil, salt, acid, alkali, vegetable matter, or any other substance that contaminates the finished product.

- 3412b Specifications for Lignin Sulfonate:

Lignin sulfonate shall be the chemical residue produced as a byproduct of the acid sulfite pulping process and supplied as a water solution. The base cation shall be ammonia, calcium, or sodium. The product shall be water soluble to allow field

dilution. Dilute with water until the mixture contains a minimum 48 percent concentration with the following properties:

Solids	50%
Specific gravity	1.25
PH, AASHTO T289	4.5 min.

Ensure that the material does not exceed the following chemical constituents:

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm
chromium	0.50 ppm
cadmium	0.20 ppm
barium	10.00 ppm
selenium	5.00 ppm
zinc	10.00 ppm

Apply when the ambient air temperature is 45° F or above.

3412c Specifications for magnesium chloride:

The material shall consist of a brine containing 29 to 35 percent (magnesium chloride) (calcium chloride) by weight and 62 to 72 percent water by weight. Ensure that the material does not exceed the following chemical constituents:

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm
chromium	0.50 ppm
cadmium	0.20 ppm
barium	10.00 ppm

selenium	5.00 ppm
zinc	10.00 ppm
sulfate	4.3 percent maximum
nitrate	5.0 percent maximum.

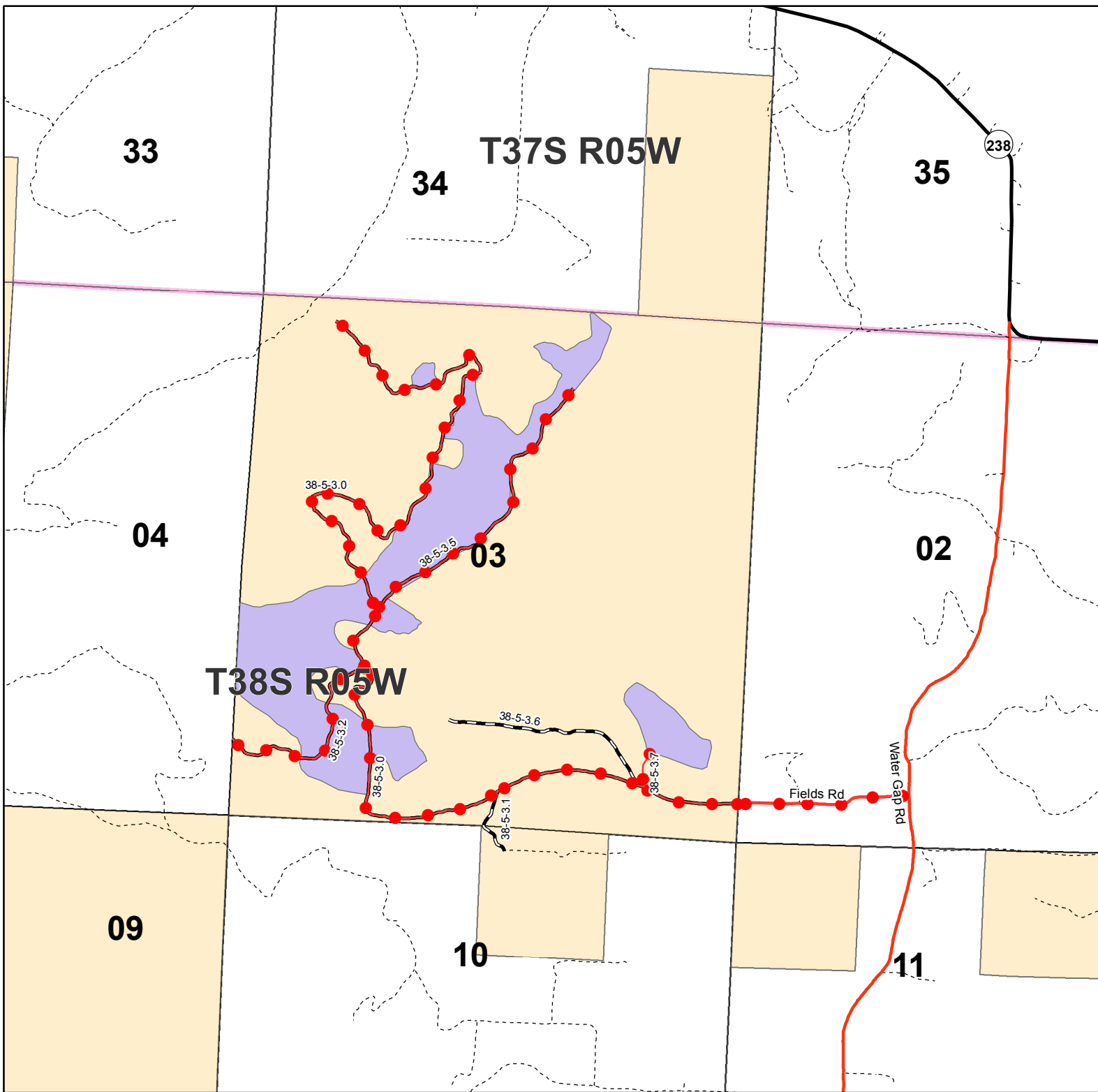
Concentration specifications for Magnesium chloride



(1) Magnesium chloride by mass	28% minimum
(2) Water by mass	72% maximum
(3) Specific gravity, AASHTO T 227	1.290 to 1.330 )

Apply when the ambient air temperature is 45° F or above.

3413      Sampling of lignin sulfonate or magnesium chloride material may be required to validate certificates furnished by the Purchaser. When sampling is directed by the Government, the actual samples will be taken by the Purchaser or his representative in the presence of the Authorized Officer.





 Road Maintenance  
 NorthWillyTimberSaleUnits

0 0.3 0.6 Miles

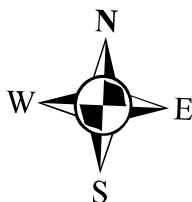
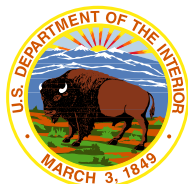
UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD OREGON

## NORTH WILLY TIMBER SALE ROAD MAINTENANCE

DESIGNED: \_\_\_\_\_  
REVIEWED: \_\_\_\_\_  
APPROVED: \_\_\_\_\_

DATE : \_\_\_\_\_ SCALE : AS SHOWN

DRAFTED BY : CL Smith SHEET : 1 of 1



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Version: 5.2.0.99

Updated: 6/14/2017

**Summary of All Roads and Projects**

T.S. Contract Name: North Willy Tract No: ORM07-TS-18 Sale Date: 2018

Prepared by: C SMITH Ph: 5414716533 Print Date: 5/14/2018 9:55:38 AM

Construction: 0.00 sta

Improve: 10.56 sta Renov: 209.09 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
300 Excavation: .....	\$0.00
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$4,315.75
Blading 3.15 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: .....	\$1,393.06
Manual Brushing: 3.8 acres	
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,675.60
Mobilization: Const. \$500.00 Surf. \$0.00.....	\$500.00
Quarry Development: .....	\$0.00
Total: 418 mbf @ \$18.862/mbf =	\$7,884.41

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are loose cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: North Willy Sale Date: 2018

**Road Number: 38-5-3.0** Road Name: FIELDS RD

Road Renovation: 2.93 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$3,539.92
Blading 1.93 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):2.8 acres .....	\$928.70
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,675.60
Mobilization: Const. \$416.03 Surf. \$0.00.....	\$416.03
Quarry Development: .....	\$0.00
Total:	\$6,560.25

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

## Road Construction Worksheet

Road Number: 38-5-3.0 Road Name: FIELDS RD

### Section 500 Renovation:

Grader: \$140.96/hr x 8.00 hr = \$1,127.68

Blading: \$694.50/mi x 1.93 mi = \$1,340.39

Clean Culverts: \$365.82/mi x 2.93 mi = \$1,071.85

Subtotal: \$3,539.92

### Section 2100 Roadside Brushing:

#### Manual Brushing

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

RoadSide Brushing Light: \$331.68/acre x 2.80 acres = \$928.70

Subtotal: \$928.70

### Section 8000 Miscellaneous:

#### Rock Placement

Dump Truck 10 cy 8 hr x \$74.45/hr = \$595.60

2 1/2" rock 60 CY x \$18.00/CY = \$1,080.00

Subtotal: \$1,675.60

### Mobilization:

Construction - 83.21% of total Costs = \$416.03

surfacing = 0% \$0.00

Subtotal: \$416.03

Total: \$6,560.25

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: North Willy Sale Date: 2018

**Road Number: 38-5-3.2** Road Name:

Road Renovation: 0.41 mi 16 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$424.13
Blading 0.40 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.4 acres .....	\$265.34
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$46.68 Surf. \$0.00.....	\$46.68
Quarry Development: .....	\$0.00
Total:	\$736.16

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

## Road Construction Worksheet

Road Number: 38-5-3.2 Road Name:

### Section 500 Renovation:

Blading:  $\$694.50/\text{mi} \times 0.40 \text{ mi} = \$277.80$

Clean Culverts:  $\$365.82/\text{mi} \times 0.40 \text{ mi} = \$146.33$

Subtotal: \$424.13

### Section 2100 Roadside Brushing:

#### Manual Brushing

RoadSide Brushing Medium:  $\$663.36/\text{acre} \times 0.40 \text{ acres} = \$265.34$

Subtotal: \$265.34

### Mobilization:

Construction -  $9.34\%$  of total Costs = \$46.68

surfacing =  $0\%$  \$0.00

Subtotal: \$46.68

Total: \$736.16

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: North Willy Sale Date: 2018

**Road Number: 38-5-3.5** Road Name:

Road Renovation: 0.62 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$265.92
Blading 0.62 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Manual):0.6 acres .....	\$199.01
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$31.48 Surf. \$0.00.....	\$31.48
Quarry Development: .....	\$0.00
Total:	\$496.41

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

## Road Construction Worksheet

Road Number: 38-5-3.5 Road Name:

### Section 500 Renovation:

Blading w/o Ditches:  $\$428.91/\text{mi} \times 0.62 \text{ mi} = \$265.92$

Subtotal: \$265.92

### Section 2100 Roadside Brushing:

#### Manual Brushing

RoadSide Brushing Light:  $\$331.68/\text{acre} \times 0.60 \text{ acres} = \$199.01$

Subtotal: \$199.01

### Mobilization:

Construction - 6.30% of total Costs = \$31.48

surfacing = 0% \$0.00

Subtotal: \$31.48

Total: \$496.41



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: North Willy Sale Date: 2018

**Road Number: 38-5-3.7** Road Name: County

Road Improvement: 0.20 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$85.78
Blading 0.20 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$5.81 Surf. \$0.00.....	\$5.81
Quarry Development: .....	\$0.00
Total:	\$91.59

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

## Road Construction Worksheet

Road Number: 38-5-3.7 Road Name: County

Section 500 Renovation:

Blading w/o Ditches:  $\$428.91/\text{mi} \times 0.20 \text{ mi} = \$85.78$

Subtotal: \$85.78

Mobilization:

Construction - 1.16% of total Costs = \$5.81

surfacing = 0% \$0.00

Subtotal: \$5.81

Total: \$91.59

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sale: North Willy  
Sale Date: 2018  
Prep. By : C SMITH  
Tract No: ORM07-TS-18

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1.1) Road Use - Amortization:      \$400.00/418 MBF = \$0.96/MBF

---

Road Maintenance Obligation:

(2.1) BLM Maintenance . . . . .		\$0.00
(2.2) BLM Rockwear . . . . .	\$0.00	
(5.1) Purchaser Maintenance Rockwear . . . . .	<u>\$0.00</u>	
Total Rockwear Payable to BLM . . . . .		\$0.00
(3.1) 3rd Party Maintenance . . . . .		\$0.00
(3.2) 3rd Party Rockwear . . . . .		\$0.00
(4.1) Other Maintenance Payments . . . . .		\$0.00
Total Maintenance Fee Obligation (2.1-5.1)		<u>\$0.00</u>

Purchaser Maintenance Allowances:

(5.2A) Move In . . . . .	\$660.80
(5.2B) Culverts, Catch Basins, Downspouts . . . . .	\$0.00
(5.2C) Grading, Ditching . . . . .	\$1,389.00
(5.2D) Slide Removal and Slump Repair . . . . .	\$281.92
(5.2E) Dust Palliative (Water) . . . . .	\$94.57
(5.2F) Surface Repair (Aggregate) . . . . .	\$0.00
(5.2G) Other . . . . .	\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	<u>\$2,426.29</u>

(2.1-5.2G) Cost (      \$0.00 + \$2,426.29 ) = \$2,426.29  
Cost/MBF \$2,426.29 / 418 MBF = \$5.80/MBF      \$5.80/MBF

(5.2H) Decommissioning . . . . .      \$0.00

(5.2H)      Cost/MBF      \$0.00/418 MBF =      \$0.00/MBF

(2.1-5.2H) Cost (      \$0.00 + \$2,426.29 + \$0.00 ) = \$2,426.29

Total Cost/MBF (Excluding Road Use)      \$2,426.29/418 MBF =      \$5.80/MBF

1) Road Use Fees - Amortization

Details

R/W	Rd Use	Vol	Road Use
Number	Road Number	Fee x MBF =	Obligation
1	38-5-3.0		\$400.00

Subtotal by agreement number

1 \$400.00

(1.1) Subtotal \$400.00

2) BLM Maintenance - Timber Haul

MAINTENANCE (2.1)				ROCKWEAR (2.2)			
Road Number	A Surf	Maint	Vol				
and Segment	N Type	Mi x Fee x	MBF =	Maint	Fee x MBF =	Rkwear	

(2.1) Subtotal \$0.00

(2.2) Subtotal \$0.00

3) Third Party Maintenance and Rockwear

MAINTENANCE (3.1)				ROCKWEAR (3.2)			
Agmnt	Surface	Road					
Number	Type	Number	Mi x Fee x	MBF =	Maint	Fee x MBF =	Rkwear

Subtotal of maintenance fees by agreement number:

Subtotal of rockwear fees by agreement number:

(3.1) Subtotal \$0.00

(3.2) Subtotal \$0.00

4) Other Maintenance Payments - USFS or Others Perform Maintenance

Agency	Road Number	Miles (Log)	Vol (mbf)	Fee x MBF/MI =	Cost
--------	-------------	-------------	-----------	----------------	------

(4.1) Subtotal \$0.00

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)

Road No	A	RkWear	Vol	Total
and Segment	N	Mi x Fee x	MBF =	RkWear
38-5-3.0	A	1.00 0.00	205	\$0.00
38-5-3.0	A	0.33 0.00	418	\$0.00
38-5-3.5	A	0.62 0.00	140	\$0.00
38-5-3.0	A	1.00 0.00	205	\$0.00
3.738-5-7	A	0.20 0.00	60	\$0.00

(5.1) Subtotal \$0.00

Purchaser Operational Maintenance

Move In

Equipment	No	Move	Cost/	Dist	Sub-
	Units	x in x	50 Mi x	Factor =	total
Motor Grader:	1	1	\$410.00	0.70	\$287.00
Back Hoe:			\$305.00	0.63	\$0.00
Loader:			\$410.00	0.63	\$0.00
Water Truck:			\$95.00	0.63	\$0.00
Dump Truck:	6	1	\$89.00	0.70	\$373.80

Excavator:	\$410.00	0.63	\$0.00
Roller:	\$410.00	0.63	\$0.00

(5.2A) Total \$660.80

**Culvert Maintenance - Including Catch basins and Downpipes**

Miles	x	Cost/Mi	=	Subtotal
		\$365.82		\$0.00

(5.2B) Total \$0.00

**Grading (Includes Ditches and Shoulders)**

Miles	x	Cost/Mi	x	Freq	=	Subtotal
Blade w/ Ditch:	2.00	\$694.50	1		\$1,389.00	
Blade w/o Ditch:	0.00	\$428.91	0		\$0.00	

(5.2C) Total \$1,389.00

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

Type	No Slides	Hours	Equip		
Equipment	/Slumps	x Each	x Cost	=	Subtotal
Grader:	1		2 \$140.96		\$281.92
Loader:	0	0	\$101.17		\$0.00
Backhoe:	0	0	\$85.84		\$0.00

(5.2D) Total \$281.92

**Dust Palliative (Water)**

Spreading Hours

No	Freq	Truck				
Miles	/ MPH	= Hours	x Days	x /Day	=	Hours
2.00	10	0.2	3	2		1
Load & Haul =		0.0	0	0		0
Total Hours =		1				

Truck Cost: \$78.81/Hr. x 1.2 Hours = \$94.57

(5.2E) Total \$94.57

**Surface Repair (Aggregate)**

Production Cost:	0.0 CY x \$0.00/CY	=	\$0.00
Haul to Stockpile:	0.0 CY x ((\$1.75/CY x 0.00 Mi) + \$0.58)	=	\$0.00
Stockpile:	0.0 CY x \$1.07/CY	=	\$0.00
Load from Stockpile:	0.0 CY x \$1.05/CY	=	\$0.00
Haul from Stockpile:	0.0 CY x ((\$1.75/CY x 0.00 Mi) + \$0.58)	=	\$0.00
Process with Grader:	0.0 CY x \$0.88/CY	=	\$0.00
Compaction:	0.0 CY x \$1.08/CY	=	\$0.00

(5.2F) Total \$0.00

**Other**

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

Lump Sum	=\$0.00
Lump Sum	=\$0.00
Lump Sum	=\$0.00

(5.2G) Total \$0.00

**Decommissioning**

(5.2H) Decommissioning Total \$0.00

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Version: 5.2.0.99

Updated: 6/14/2017

**Summary of All Roads and Projects**

T.S. Contract Name: North Willy Tract No: ORM07-SF-18 Sale Date: 2018

Prepared by: C SMITH Ph: 5414716533 Print Date: 4/11/2018 1:23:08 PM

Construction: 0.00 sta

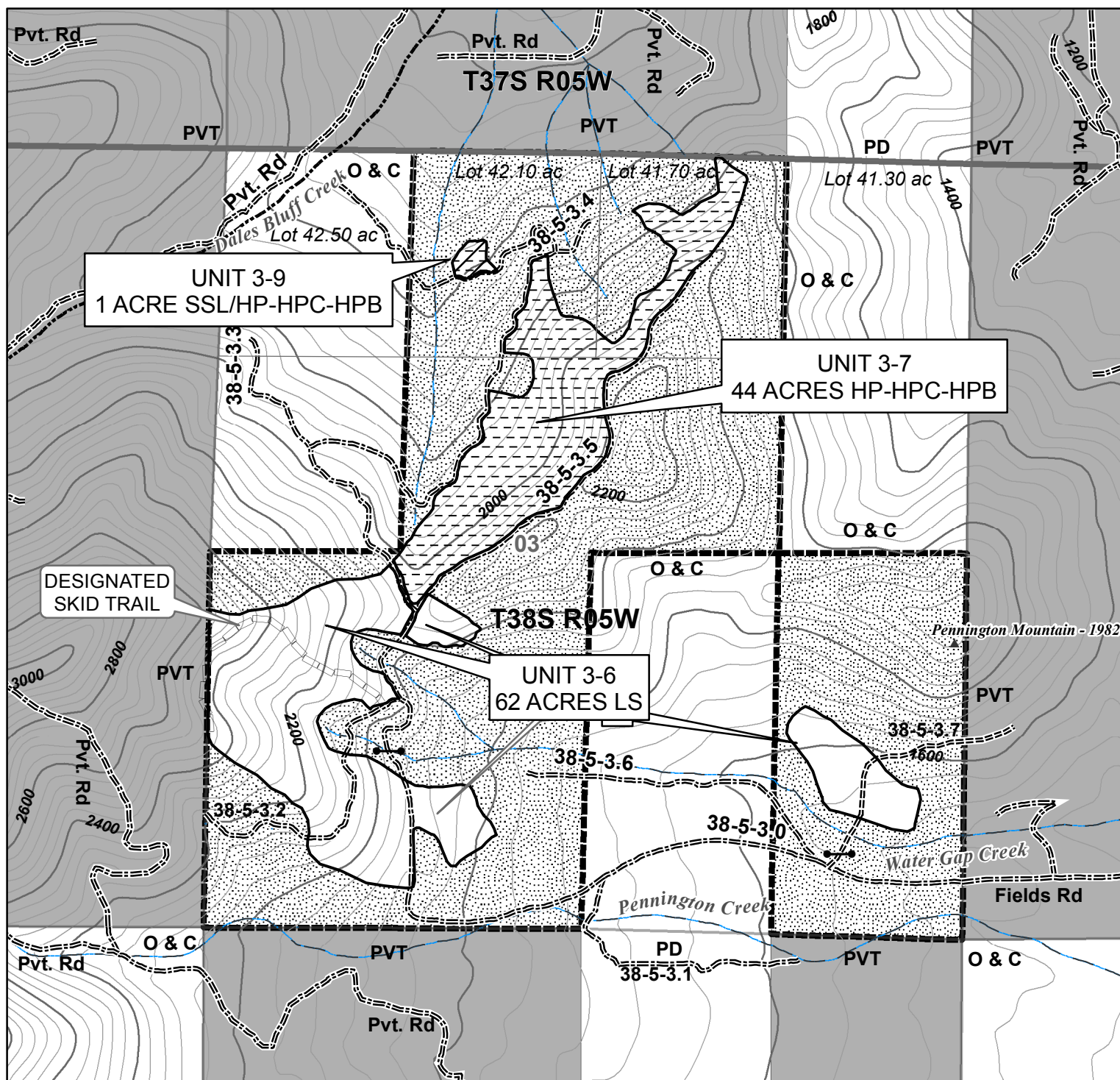
Improve: 10.56 sta Renov: 209.09 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
300 Excavation: .....	\$0.00
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$4,315.75
Blading 3.15 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: .....	\$1,393.06
Manual Brushing: 3.8 acres	
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,675.60
Mobilization: Const. \$500.00 Surf. \$0.00.....	\$500.00
Quarry Development: .....	\$0.00
Total: 398 mbf @ \$19.810/mbf =	\$7,884.41

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are loose cubic yards.



0 750 1,500 3,000  
Feet

1 inch = 1,000 feet

40 FOOT CONTOUR INTERVAL



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

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




Map created on  
02/15/2018



















Legend

North Willy Fuels Treatments

-  Lop and Scatter
-  Handpile-Handpile Cover  
-Handpile Burn
-  Slashing

-  Contract Area Boundary
-  Reserve Area
-  Mountain Peaks
-  Gate
-  Natural Surface Road

-  Perennial Stream
-  Intermittent Stream
-  Index 200-ft contour
-  Intermediate 40-ft contour
-  Township and Range
-  Sections
-  Government Lots
-  Bureau of Land Management
-  Other

UNIT	ACRES	FUELS TREATMENT	SELECTIVE SLASHING RX AREA	LOP & SCATTER RX AREA	HAND PILE RX AREA
3-6	62	LS	N/A	WHOLE UNIT	N/A
3-7	44	HP-HPC-HPB	N/A	N/A	WHOLE UNIT
3-9	1	SSL/HP-HPC-HPB	WHOLE UNIT	N/A	WHOLE UNIT
TOTAL	107				

\* ALL ACRES COMPUTED BY GPS TRAVERSE  
\* BOUNDARIES OF HARVEST UNITS ARE POSTED AND PAINTED IN ORANGE

LS = LOP AND SCATTER  
SSL = SELECTIVE SLASH  
HP-HPC-HPB = HAND PILE, HAND PILE COVER, HAND PILE BURN  
N/A = NOT APPLICABLE

SUMMARY		
LS	LOP AND SCATTER (UNIT 3-6 )	62 ACRES
HP-HPC-HPB	HAND PILE-HAND PILE COVER-HAND PILE BURN (UNITS 3-7 AND 3-9)	45 ACRES
SSL	SELECTIVE SLASH (UNIT 3-9)	1 ACRE
	TOTAL SLASH DISPOSAL TREATMENT AREA	108 ACRES
	RESERVE AREA	295.80 ACRES
	TOTAL CONTRACT AREA	403.80 ACRES





TOTAL PURCHASE PRICE			
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(Continued on reverse)

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

Bid submitted on (date)

(Check appropriate box, sign in ink, and complete the following)

<input type="checkbox"/> Signature, if firm is individually owned	Name of firm (type or print)
<input type="checkbox"/> Signatures, if firm is a partnership or L.L.C.	Business address, include zip code (type or print)
<input type="checkbox"/> Corporation organized under the state laws of	(To be completed following oral bidding)
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By (signature)
Title	Date
Submit bid, in <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:
Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	(1) “Bid for Timber” (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 38 FR 6280 and 43 CFR 5442.1

**PURPOSE:** To qualify an oral auction bidder, and then if successful, to bind bidder to certain contract conditions.

**ROUTINE USE:** To determine that an individual is qualified to participate in oral auction bidding, and, as surety that bidder will fulfill contract requirements.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

## INSTRUCTIONS TO BIDDERS

1. **AUTHORITY** – Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.

2. **QUALIFICATIONS OF BIDDERS** – A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.

3. **INSPECTION OF TIMBER/VEGETATIVE RESOURCES** – Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.

4. **DISCLAIMER OF WARRANTY** – Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold “As Is” without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.

5. **BIDS** – Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued *Timber/Vegetative Resource Sale Notice*.

(a) **Sealed Bid Sales** – Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber/Vegetative Resource*, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.

(b) **Auction Sales** – Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.

(c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.

(d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.

6. **BID FORMS** – All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.

(a) **Lump Sum Sales** – Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.

(b) **Timber Scale Sales** – Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut

and removed prior to expiration of time for cutting and removal as specified in contract.\*

7. **BID DEPOSIT** – All bidders must make a deposit of not less than the amount specified in the *Timber/Vegetative Resource Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior – BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department\*, or any approved guaranteed remittance approved by the Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

8. **AWARD OF CONTRACT** – Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.

9. **TIMBER/VEGETATIVE RESOURCE SALE CONTRACT** – To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

### 10. PERFORMANCE BOND-

(a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) any guaranteed remittance approved by the Authorized Officer.

(b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.\*

11. **PAYMENT BOND** – If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.\*

12. **PAYMENT OF PURCHASE PRICE** – For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.

13. **LIQUIDATED DAMAGES** – Within thirty (30) days from receipt of *Timber/Vegetative Resource Sale Contract*, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.

14. **NINETY-DAY SALES** – If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

\*Applies to Timber Only

15. **UNAUTHORIZED USE OF GOVERNMENT PROPERTY** – A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.

16. **EQUAL OPPORTUNITY CLAUSE** – This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity Compliance Report Certification will be completed by prospective contractors. Certification may be obtained from District Manager.

17. **LOG EXPORT** – All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western

red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to “unprocessed timber”. Special reporting, branding and painting of logs may be included in contract provisions.\*

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