

NORTHWEST OREGON DISTRICT  
UPPER WILLAMETTE FIELD OFFICE

**TIMBER SALE NOTICE  
LUMP SUM  
EUGENE MASTER UNIT  
SBA**

PARCEL NO.: 1  
SALE DATE: June 25, 2026

Contract No.: ORN05-TS-2026.0575 Power Play  
Lane County, Oregon: O&C: Oral Auction

Bid Deposit Required: \$241,300.00

All timber designated for cutting on NE1/4, NE1/4SE1/4, S1/2SE1/4, Section 17; W1/2NW1/4, SE1/4NW1/4, SW1/4, SW1/4SE1/4, Section 21; S1/2S1/2SW1/4SW1/4, W1/2S1/2S1/2SE1/4SW1/4, Section 22; N1/2NW1/4, Section 27, T. 15 S., R. 1 W.; Will. Mer.

Estimated Volume 32' Log (MBF)	Species	Estimated Volume 16' Log (MBF)	Appraised Price Per MBF	Estimated Volume Times Approx. Price
5,925	Douglas-fir	7,176	\$321.40	\$2,306,366.40
469	Western hemlock	583	\$125.20	\$72,991.60
114	Grandfir	140	\$130.20	\$18,228.00
22	Western red cedar	28	\$540.30	\$15,128.40
6,530	Totals	7,927		\$2,412,714.40

\*=10% of Pond Value

APPRAISED PRICES are calculated by determining market value through the analytical appraisal method. The minimum bid increment will be \$0.10 per MBF or multiples thereof.

LOG EXPORT RESTRICTIONS: All timber offered for sale hereunder is restricted from export from the United States in the form of unprocessed timber and is prohibited from being used as a substitute for exported private timber.

NOTE: The volume for this timber sale has been calculated using 16 foot eastside Scribner rules, and the 32 foot log volumes are estimates derived from the 16 foot volumes.

CRUISE INFORMATION: The timber volumes for Douglas-fir, western hemlock, grandfir, and western red cedar in the Harvest Areas were based on a variable plot cruise for estimating board foot volume. Plots were measured using a 40 basal area factor for a total of 238 plots. The timber volumes for Douglas-fir in the rights-of-way were based on a 3P cruise for estimating board foot volume. The timber volumes for western hemlock and grandfir in the rights-of-way were based on a 100% cruise for estimating board foot volume. A map showing the location of the plots and sample trees is available at the Springfield Interagency Office.

With respect to merchantable Douglas-fir; the average tree is 20.7" DBHOB; the average log contains 103 bd. ft.; the total gross merchantable volume is approximately 7,531 MBF; and 95% recovery is expected.

CUTTING AREA: Approximately 207 acres shall be regeneration harvested, and approximately 3.5 acres of right-of-way shall be cleared.

ACCESS: Access to the sale is provided by:

1. A public road;
2. BLM existing roads;
3. BLM roads to be constructed;
4. Road covered by Right-of-Way and Road Use Agreement E-573 between Weyerhaeuser Timber Holdings, Inc, and the United States. In the renovation, use, and maintenance of private roads, and in the use of tailholds and guybacks, the Purchaser shall enter into a license agreement with Weyerhaeuser Timber Holdings, Inc. The license agreement shall be delivered to Weyerhaeuser Timber Holdings, Inc. for execution at least 15 days prior to any use of company roads. See the Prospectus for full terms and conditions of use.
5. Lands covered by Right-of-Way and Road Use Agreement E-337A between Franklin Clarkson Timber Company and the United States. In the use of tail holds the Purchaser shall enter into a short form tramway agreement with Franklin Clarkson Timber Company. The short form tramway agreement shall be delivered to Franklin Clarkson Timber Company for execution at least 15 days prior to any use of company roads. See the Prospectus for full terms and conditions of use.

**ROAD CONSTRUCTION:**

Spurs 20A, 21B, 21C, 27A and Road Nos. 15-1-20.3, 15-1-20.4, 15-1-21.7, 15-1-21.8, 15-1-21.9, 15-1-27.7.

Length: 50+80 Stations

Class: SN-16

Special Requirements: Operations limited to periods of dry weather. Natural surfaced spurs and roads shall be waterbarred and left in a weather proof condition prior to the onset of wet weather each year of the contract. Installation of stream crossing culverts will be limited to the ODFW in-stream work window, June 1 - October 31.

**ROAD RENOVATION:**

Spurs 27B and Road Nos. 15-1-20.2, 15-1-21.1, 15-1-21.3, 15-1-21.5, 15-1-27.3, 15-1-28, 15-1-34.3, 16-1-3, 16-1-5.3.

Length: 77+08 Stations, 412+24 Stations

Class: SN-14; SN-16

Special Requirements: Natural surfaced spurs and roads shall be waterbarred and left in a weather proof condition prior to the onset of wet weather each year of the contract. Replacement and installation of stream crossing culverts will be limited to the ODFW in-stream work window, June 1 - October 31.

Suggested Rock Source: Bunker Hill Quarry (T. 15 S., R. 1 W., Section 34, W.M.)

**Estimated Rock Quantities (CY truck measure)**

<u>3/4" Minus</u>	<u>1-1/2" Minus</u>	<u>3" Minus</u>	<u>6" Minus</u>	<u>Jaw Run</u>
525	3620	1,307	961	69

**Asphalt**

1 LCY

**Culverts:**

<u>Diameter:</u>	<u>Length:</u>	<u>Number:</u>
18"	730	21
24"	35'	1
60"	80'	1

**Total Estimated Exhibit C Road Costs (construction, and renovation) \$414,213.22**

**ROAD DECOMMISSIONING:**

Spurs 20A, 21B, 21C, 27A, 27B and Road No. 15-1-20.3, 15-1-20.4, 15-1-21.3, 15-1-21.5, 15-1-21.7, 15-1-21.8, 15-1-21.9, 15-1-27.7

Barriers: 13

Estimated Cost of Decommissioning: \$8,288.78

Special Requirements: Operations limited to periods of dry weather.

**DURATION OF CONTRACT:** Duration of the contract will be 36 months for cutting and removal of timber.

**SPECIAL PROVISIONS:** The contract will contain special provisions regarding road construction, road renovation, road improvement, road maintenance, road decommissioning, logging methods, prevention of erosion, logging residue reduction, snag creation, and submission of a written logging plan specifying landing locations and logging schedule.

Under Sec. 26 of the timber sale contract, ground-based logging and mechanical felling will be prohibited during periods of excessive soil moisture. This will normally limit ground-based logging and mechanized felling from June 1 to October 15.

**OTHER SPECIAL REQUIREMENTS:**

1. The Purchaser shall be required to clean logging, road, decommissioning, and slash piling equipment prior to entry on BLM lands.
2. The Purchaser shall be required to cut and process non-merchantable trees in Harvest Areas except for oaks and pines.
3. No felling, yarding, or loading is permitted in or through the Reserve Area or the Equipment and Operations Exclusion Area as shown on Exhibit A.
4. The Purchaser shall be required to cut and leave all white painted trees in Right-of Way (Clearing) of Spur 21B.
5. Long reaches, intermediate supports, and lift trees will be needed during cable operations.

6. Upon completion of yarding, the Purchaser shall create two hundred and eleven (211) snags by topping and girdling.
7. The Purchaser shall perform logging residue reduction and site preparation work, to include machine piling, piling at landings, along roadsides, covering, and pile burning.
8. Within eight (8) acres of the Regeneration Harvest Areas shown on Exhibit A, slashing will be required to include perennial shrubs such as blackberry.
9. Whole tree yarding, or yarding with tops attached, will be required in the Harvest Areas, unless otherwise approved by the Authorized Officer.
10. The Purchaser shall be required to spread BLM-provided seed and mulch at culverts and designated areas.
11. The Purchaser shall provide warning signs and flaggers in accordance with Section 29 of this contract to control traffic in the contract area during active operations.
12. Prior to the start of all road construction or renovation operations, the Purchaser shall meet with BPA representatives and the Authorized Officer.
13. Bunker Hill Quarry shall be developed as shown on page 38 of Exhibit C.

OPTIONAL CONTRIBUTION: The Purchaser will have the option of performing piling burning and mop-up, or contributing \$21,004.50 in lieu thereof. The option must be declared prior to contract execution. Piling, slashing, and covering are not included in the Optional Contribution and will remain the responsibility of the Purchaser.

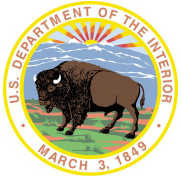
NARRATIVE DESCRIPTION OF HOW TO GET TO SALE AREA:

This sale is accessed through BLM land and private land. Any questions regarding this timber sale should contact Brian Bickford at (541) 683-6164.

To Harvest Area No. 3: From Springfield, proceed north on Marcola Road for approximately 18 miles to the junction of 15-1-27.3 Road. Proceed west onto 15-1-27.3 Road for 0.1 miles to Harvest Area No. 3.

To Harvest Area No. 2: From Harvest Area No. 3, proceed west on 15-1-27.3 Road for approximately 0.75 miles to enter into Harvest Area No.2.

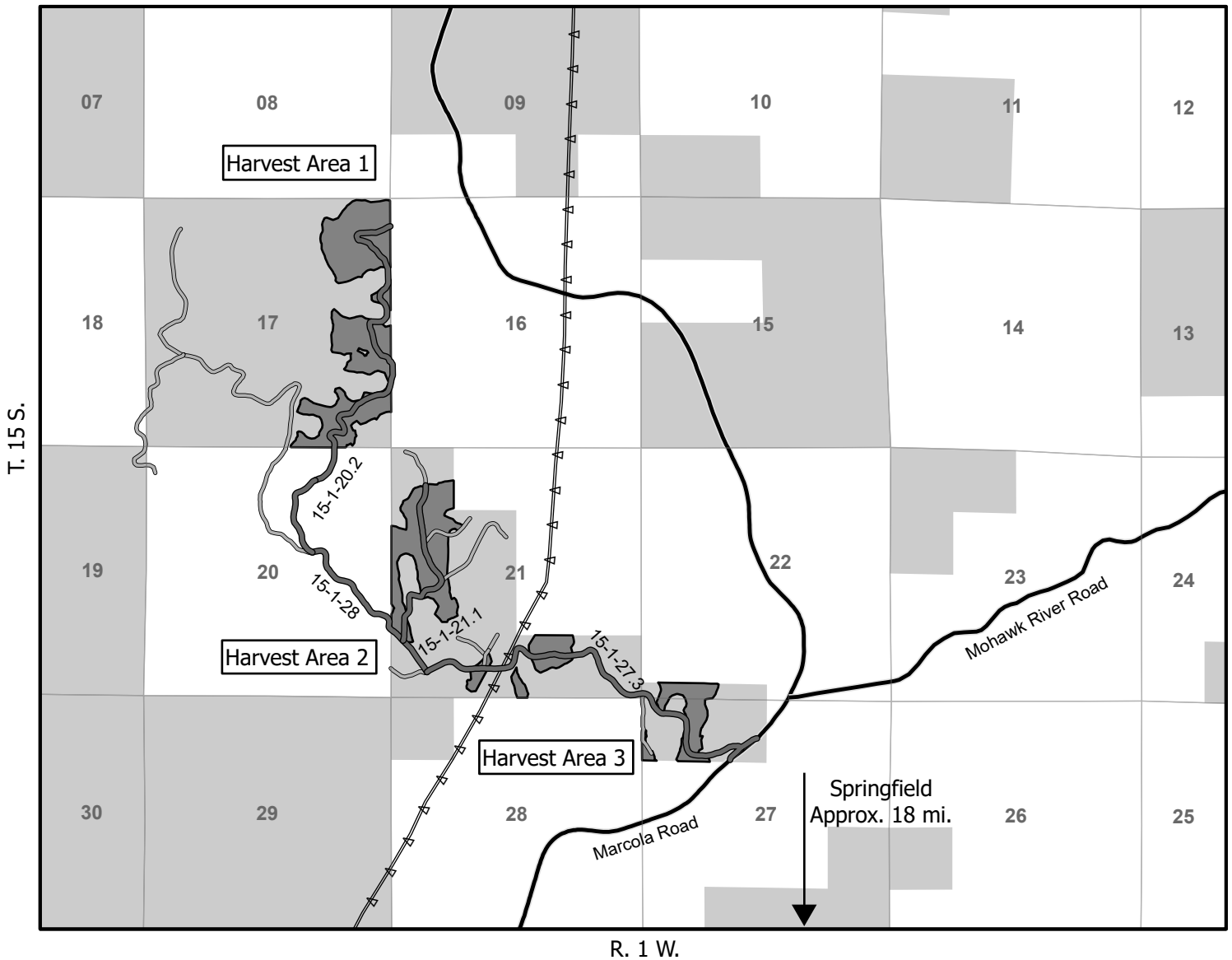
To Harvest Area No. 1: From Harvest Area No. 2, proceed west on 15-1-27.3 Road for approximately 0.62 miles to the junction of 15-1-28 Road. Turn north west onto 15-1-28 Road and proceed approximately 0.15 miles. Turn north east onto 15-1-20.2 Road for approximately 0.53 miles to enter into Harvest Area No. 1.



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Bureau of Land Management**



Power Play Timber Sale Contract No. ORN05-TS- 2026.0575  
T. 15 S., R. 1 W., Sec. 17, 21, 22, & 27 Will. Mer., Northwest Oregon District



**NARRATIVE DESCRIPTION OF HOW TO GET TO SALE AREA:**

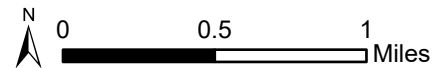
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**To Harvest Area No. 3:**  
From Springfield, proceed north on Marcola Road for approximately 18 miles to the junction of 15-1-27.3 Road. Proceed west onto 15-1-27.3 Road for 0.1 miles to Harvest Area No. 3.

**To Harvest Area No. 2:**  
From Harvest Area No. 3, proceed west on 15-1-27.3 Road for approximately 0.75 miles to enter into Harvest Area No. 2.

**To Harvest Area No. 1:**  
From Harvest Area No. 2, proceed west on 15-1-27.3 Road for approximately 0.62 miles to the junction of 15-1-28 Road. Turn north west onto 15-1-28 Road and proceed approximately 0.15 miles. Turn north east onto 15-1-20.2 Road for approximately 0.53 miles to enter into Harvest Area No. 1.

- BLM Administered Lands
- Harvest Area
- Section
- Travel Route
- Paved Road
- Existing Road
- ▲ BPA Powerlines



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Bureau of Land Management  
Oregon State Office  
P.O. Box 2965  
Portland, Oregon 97208-2965

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### Seasonal Restriction Matrix



Restricted Activity:	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15
<b>Road Construction, Road Renovation, Dry Season Haul, and Road Decommisioning</b> • October 31st - June 1st (both days inclusive) • May vary due to weather conditions; soil moisture still overrides weather conditions.												
<b>Mechanized felling and Ground based yarding</b> • October 15th - June 1st (both days inclusive) • May vary due to weather conditions; soil moisture still overrides weather conditions.												
<b>Stream Culvert Replacement, Installation, and Removal (instream work period)</b> • October 31st- June 1st (both days inclusive)												

NOTE: This chart is for informational purposes only. Refer to Section 44 Special Provisions of the timber sale contract for exact date restrictions and specifications.  
 Subject to transient winter snow, elevations ranges from 700-1400 feet.



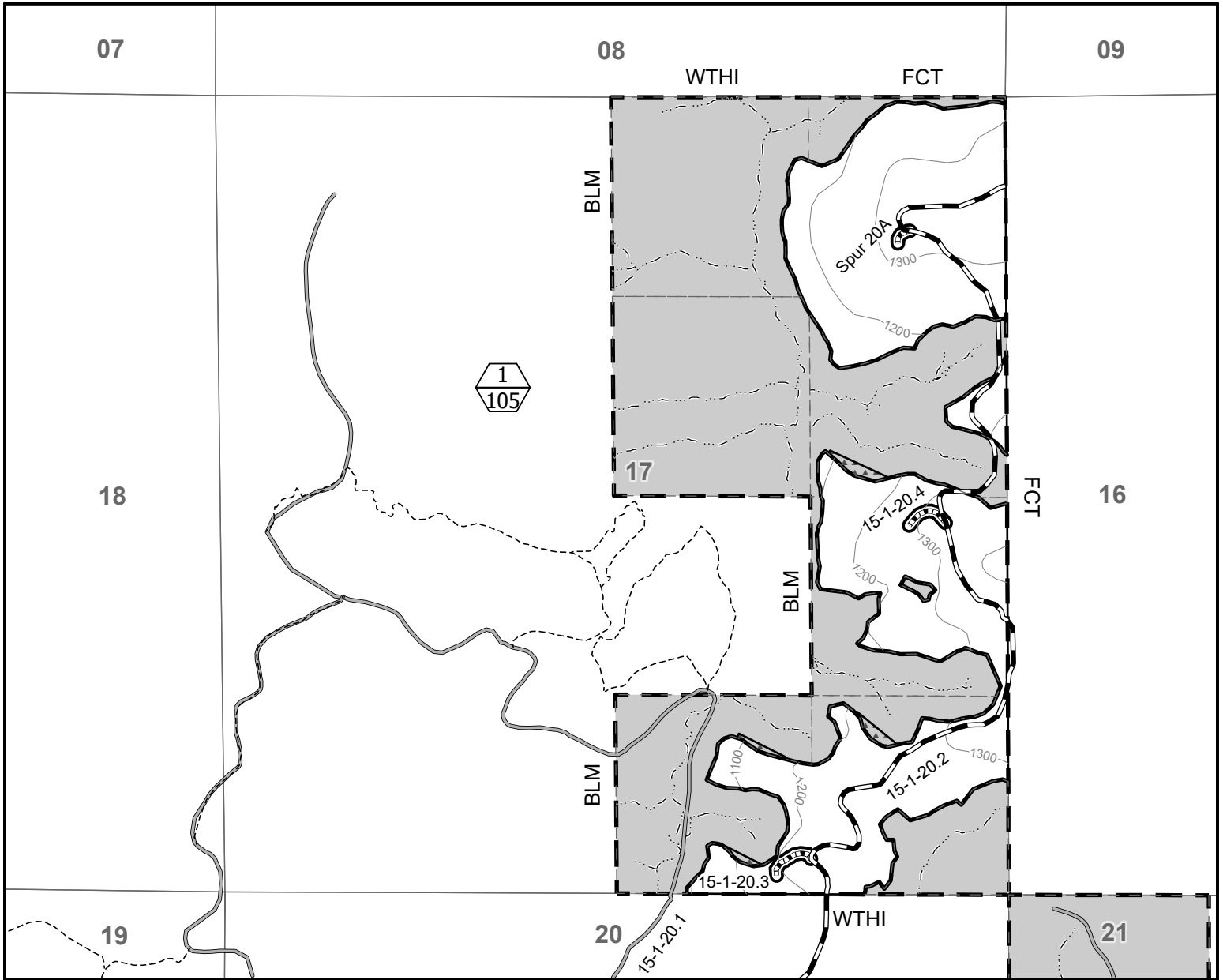
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Power Play Timber Sale Contract No. ORN05-TS-2026.0575  
T. 15 S., R. 1 W., Sec. 17 Will. Mer., Northwest Oregon District

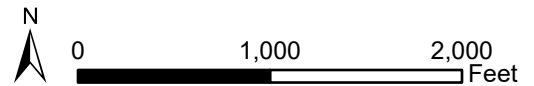


**EXHIBIT A**

Sheet 1 of 3



- |  |             |
|--|-------------|
| Contract Area                                | Streams     |
| Reserve Area                                 | OHV Trails  |
| Regeneration Harvest                         | Unit Number |
| Special Operating Areas                      | Acres       |
| Boundary of Cutting Area-<br>Posted, Painted |             |
| New Construction - Rocked                    |             |
| Renovation                                   |             |
| Right-of-Way (Clearing)                      |             |
| Existing Road                                |             |



Totals for Sale	
Regeneration Harvest Area	207.0
Right-of-Way (Clearing)	3.5
Reserve Area	484.5
<b>Contract Area</b>	<b>695.0</b>

Totals for Section 17	
Regeneration Harvest Area	105.0
Right-of-Way (Clearing)	0.6
Reserve Area	174.4
<b>Contract Area</b>	<b>280.0</b>

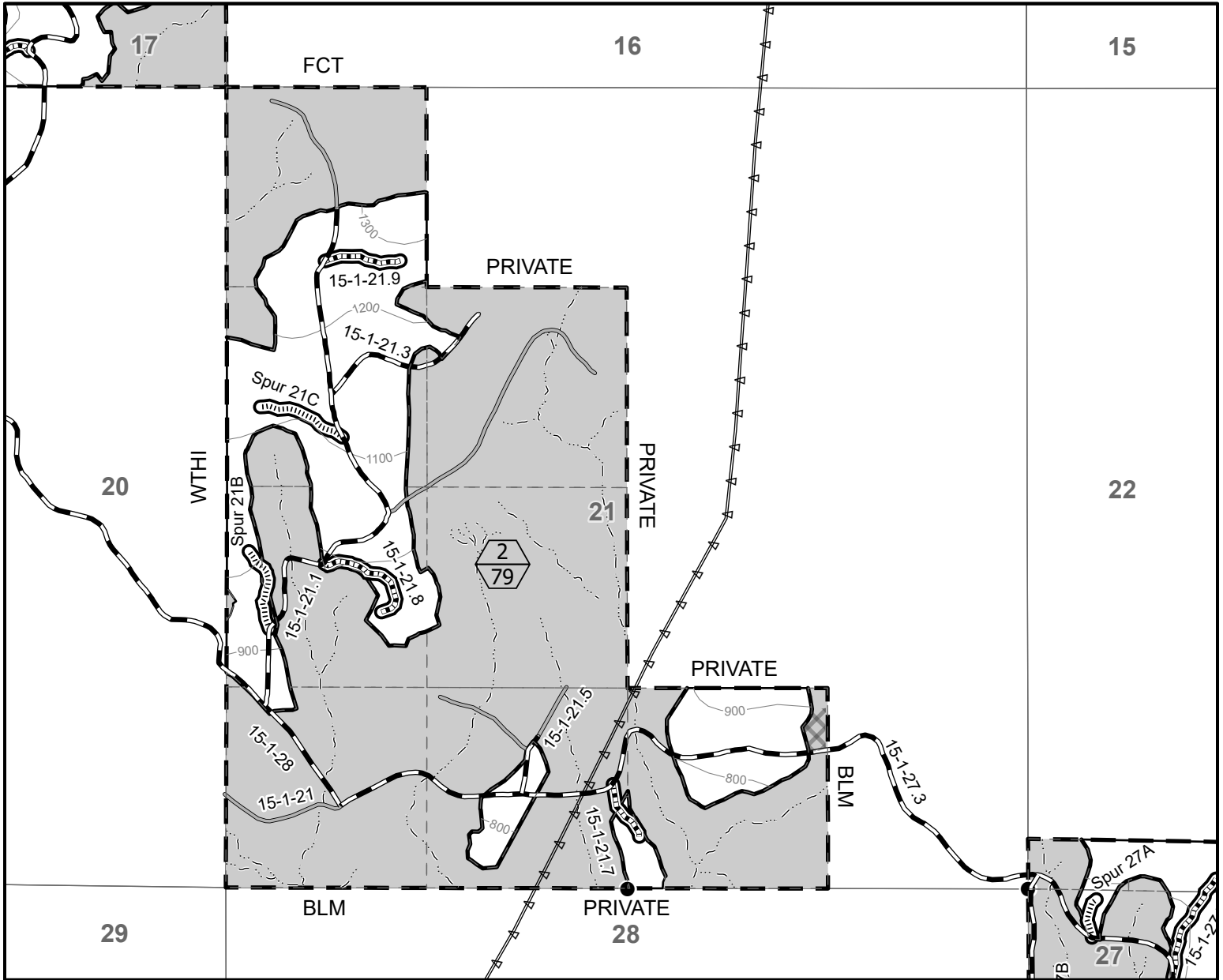
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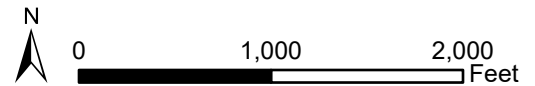


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Power Play Timber Sale Contract No. ORN05-TS-2026.0575  
T. 15 S., R. 1 W., Sec. 21 Will. Mer., Northwest Oregon District



- |  |                   |
|--|-------------------|
| Contract Area                            | Existing Road     |
| Reserve Area                             | Streams           |
| Regeneration Harvest                     | BPA Powerlines    |
| Equipment And Operations Exclusion Area  | Found Corner      |
| Boundary of Cutting Area-Posted, Painted | Unit Number Acres |
| New Construction - Rocked                |                   |
| New Construction - Natural               |                   |
| Renovation                               |                   |
| Right-of-Way (Clearing)                  |                   |



Totals for Section 21	
Regeneration Harvest Area	79.0
Right-of-Way (Clearing)	2.1
Reserve Area	238.9
<b>Contract Area</b>	<b>320.0</b>

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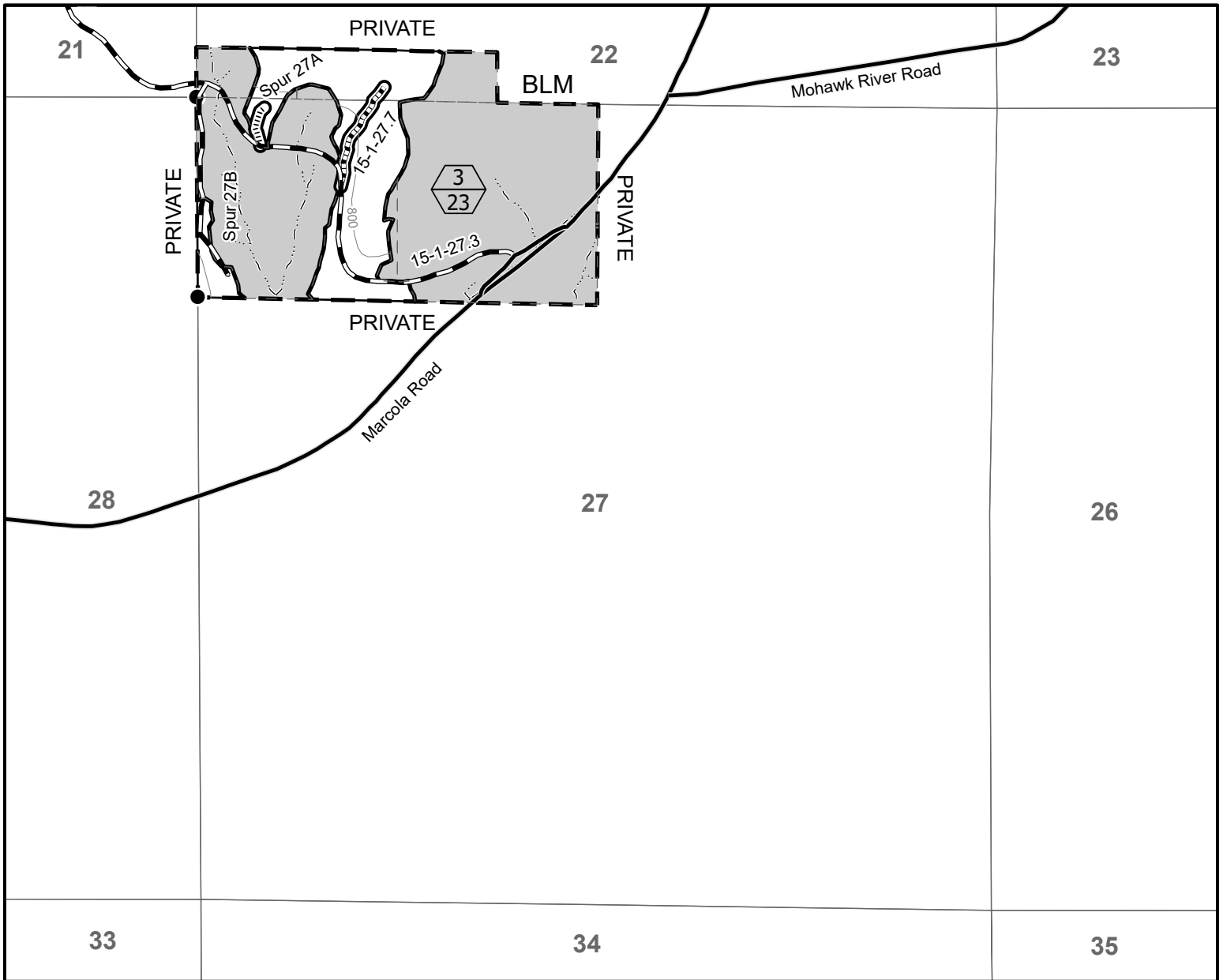
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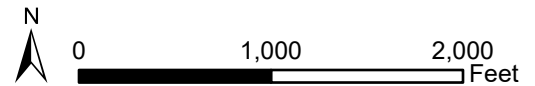
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Power Play Timber Sale Contract No. ORN05-TS-2026.0575  
T. 15 S., R. 1 W., Sec. 22 & 27 Will. Mer., Northwest Oregon District



- Contract Area
- Reserve Area
- Regeneration Harvest
- Boundary of Cutting Area-Posted, Painted
- Existing Road
- New Construction - Rocked
- New Construction - Natural
- Renovation
- Right-of-Way (Clearing)
- Paved Road
- Streams
- Found Corner
- Unit Number Acres



Totals for Sections 22 & 27	
Regeneration Harvest Area	23.0
Right-of-Way (Clearing)	0.8
Reserve Area	71.2
<b>Contract Area</b>	<b>95.0</b>

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**EXHIBIT B / PRE-SALE**

5450-003

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A**.

SPECIES	ESTIMATED VOLUME OR QUANTITY <i>(Units Specified)</i>	PRICE PER UNIT	ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas Fir	7,176.0 MBF		
Western Hemlock	583.0 MBF		
Grandfir	140.0 MBF		
Western Redcedar	28.0 MBF		
<b>TOTALS</b>	<b>7,927.0 MBF</b>		

The apportionment of the total purchase price is as follows:

Regen Harvest Unit 1

Western Hemlock	293.0 MBF	
Western Redcedar	14.0 MBF	
Douglas Fir	3,568.0 MBF	
Grandfir	4.0 MBF	
Total	<u>3,879.0 MBF</u>	÷ 105.0 acres = 36.9 MBF/Acre

Regen Harvest Unit 2

Western Hemlock	220.0 MBF	
Western Redcedar	11.0 MBF	
Douglas Fir	2,684.0 MBF	
Grandfir	134.0 MBF	
Total	<u>3,049.0 MBF</u>	÷ 79.0 acres = \$38.6 MBF/Acre

Regen Harvest Unit 3

Western Hemlock	64.0 MBF	
Western Redcedar	3.0 MBF	
Douglas Fir	781.0 MBF	
Total	<u>848.0 MBF</u>	÷ 23.0 acres = 36.9 MBF/Acre

Right-of-Way Unit 1

Western Hemlock	5.0 MBF	
Douglas Fir	22.0 MBF	
Total	<u>27.0 MBF</u>	÷ 0.6 acres = 45.0 MBF/Acre

Right-of-Way Unit 2

Douglas Fir	97.0 MBF	
Grandfir	2.0 MBF	
Total	<u>99.0 MBF</u>	÷ 2.1 acres = 47.1 MBF/Acre

**EXHIBIT B / PRE-SALE**

5450-003

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Right-of-Way Unit 3

Western Hemlock	1.0 MBF	
Douglas Fir	24.0 MBF	
Total	<hr/> 25.0 MBF	<hr/> ÷ 0.8 acres = 31.3 MBF/Acre

SEC. 43 - Timber Reserved From Cutting and/or Removal

- (a) All timber on the Reserve Areas shown on Exhibit A, which is attached hereto and made a part hereof, and all purple painted and posted trees which are on or mark the boundaries of the Reserve Areas. Exhibit A contains 3 sheets.
- (b) All trees marked with purple paint above and below stump height in the Harvest Areas shown on Exhibit A.
- (c) All trees marked with white paint above and below stump height in the Right-of-Way (Clearing) of Spur 21B where it passes through the Reserve Area as shown on Sheet 2 of the Exhibit A. White painted trees shall be felled in the Reserve Area as safely as possible and left on site in the Reserve Area. Where necessary for safety or operational reasons, white painted trees may be bucked into shorter lengths and/or moved within the Reserve Areas adjacent to the Right-of-Way (Clearing) to facilitate the use and maintenance of roads.
- (d) All existing decay class 1-2 down wood and snags greater than 20 inches in diameter at the large end and greater than 20 feet in length in the Harvest Areas as shown on Exhibit A. Decay classes are illustrated on Exhibit I and Exhibit L, which are attached hereto and made a part hereof. Where necessary for safety or operational reasons, such down woody material and snags may be felled and/or bucked into shorter lengths and/or moved within the unit.
- (e) All existing decay class 3-5 down wood and snags in the Harvest Areas shown on Exhibit A. Decay classes are illustrated on Exhibit I and Exhibit L. Where necessary for safety or operational reasons, such down woody material and snags may be felled and/or bucked into shorter lengths and/or moved within the unit.
- (f) In the Harvest Areas shown on Exhibit A, all oaks, pines, and Pacific Yew, which do not present a safety hazard, or where felling is not needed for operational activities, as determined by the Authorized Officer. All oaks, pines, and Pacific yew that are felled for safety and operational reasons shall remain on site. Where necessary for safety or operational reasons, oaks, pines, and Pacific Yew may be bucked into shorter lengths and/or moved within the unit as close to where felled as safely possible.

SEC. 44 - Special Provisions

- (a) Logging
  - (1) Before beginning operations on the contract area for the first time or after a shutdown of 14 or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. This written notification must be received by the Authorized Officer no less than 14 days prior to the date the Purchaser plans to begin or resume operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of 10 or more days.
  - (2) Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan.
  - (3) When work is occurring within 300 feet of the BPA Transmission Right-of-Way shown on Exhibit A, the Purchaser shall comply with the following conditions:
    - (aa) Prior to the start of all cutting and yarding operations, the Purchaser shall meet with BPA representatives and the Authorized Officer.
    - (bb) Keep passage open to at least one vehicle width on all BPA access roads to allow for maintenance of powerline as determined by the Authorized Officer.
    - (cc) No log decking, storage of logs, storage and transportation of flammable materials, or fueling of vehicles shall occur within the BPA Transmission Right-of-Way.

- (dd) No loading of log trucks shall be allowed within the BPA Transmission Right-of-Way. All equipment including logging trucks shall not be loaded to a height greater than 14 feet above the road bed when traveling under the power lines.
- (4) No felling, yarding, loading or equipment use is permitted in or through the Reserve Area shown on Exhibit A, except:
  - (aa) When yarding through the Special Operating Areas shown on Exhibit A, only the minimum amount of trees that are needed for safety or operational activities may be cut. Trees felled for corridors within the Special Operating Areas shall be felled towards streams as safely as possible and remain on site, unless otherwise approved by the Authorized Officer. Where necessary for safety or operational reasons, corridor trees may be felled and bucked into shorter lengths and/or moved within the Reserve Area.
  - (bb) The use of equipment within the Reserve Area is not permitted unless otherwise approved by the Authorized Officer.
- (5) Logging operations and equipment as well as logging debris, including logs, limbs and tops, shall not be permitted in the Equipment and Operations Exclusion Area, shown on Exhibit A. Trees shall be directly felled away from this area.
- (6) In the Harvest Areas shown on Exhibit A, all trees designated for cutting shall be felled to the lead, whole tree yarded, or yarded with tops attached, unless otherwise approved by the Authorized Officer. Trees shall be directionally felled away from Reserve Areas and purple painted trees, except when necessary for safety reasons.
- (7) In the Harvest Areas shown on Exhibit A, all hardwoods except when reserved in Section 43(f) and more than six (6) inches in diameter shall be felled concurrently with all other trees designated for cutting. All tops and branches must be free of the central stem to the extent that it is within a maximum of twenty (20) inches of the ground at all points.
- (8) In the Harvest Areas shown on Exhibit A, at all landings, all non-merchantable logs (including hardwoods) more than six (6) inches in diameter at the large end and exceeding eight (8) feet in length shall be decked at a location designated by the Authorized Officer.
- (9) Haul on all natural surface roads shall be limited to the dry season (typically June 1 - October 31) or as approved by the Authorized Officer.
- (10) Mechanized felling and ground based yarding shall be limited to the dry season (typically June 1 – October 15) or as approved by the Authorized Officer.
- (11) Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed in writing by the Authorized Officer.
- (12) The Purchaser shall give two weeks' notice to the Authorized Officer for closure of OHV trails if operations cross or are within 1 tree length of the trails in section 17 adjacent to Harvest Area 1. OHV Trails shall be closed periodically for up to a cumulative total of 3 months as approved by the Authorized Officer.
- (13) The Purchaser shall provide warning signs and flaggers in accordance with Section 29 of this contract to control traffic in the contract area during active operations. Roads shall not be blocked by such operations for more than 20 minutes.
- (14) In the Harvest Areas shown on Exhibit A, felling and yarding may be done with ground based equipment on slopes of 35% or less. Felling and yarding may be done with specialized ground based equipment on slopes up to 50%. The specialized ground based equipment shall be approved by the Authorized Officer prior to the start of mechanized felling and yarding operations. Only purpose-built carriers with boom-mounted felling heads may be approved. Purpose-built carriers may be of articulated, rubber-tired design, or the leveling track-mounted design.

- (15) In the Harvest Areas and Special Operating Areas shown on Exhibit A, all slopes greater than 35% or 50%, if specialized ground based equipment is used as stated in Section 44(a)(14) shall be yarded with a carriage equipped skyline system capable of laterally yarding at least 75 feet from the skyline road. The carriage shall be capable of being held in position on the skyline during lateral yarding. During yarding, the lead end of the logs shall be suspended clear of the ground. Intermediate supports and/or lift trees may be needed.
- (16) Before clearing any skid trail or skyline road necessary for yarding, the Purchaser shall:
- (aa) Space designated skid trails or skyline roads at a minimum of 150 feet apart unless approved by the Authorized Officer. Parallel settings are preferred if topography allows.
  - (bb) Mark the location of the skid trail or skyline road on the ground with fluorescent pink plastic flagging. Such skid trails or skyline roads shall be limited to the minimum width necessary for yarding of logs. The width of each skid road or skyline road shall not exceed 12 feet.
  - (cc) Place skid trails and skyline roads on the landscape to avoid disturbance to reserved trees, where feasible.
  - (dd) Provide a map of requested skid trail or skyline road locations a minimum of seven (7) working days in advance of cutting to obtain approval of the locations from the Authorized Officer. Proposed skid trails and skyline roads shall remain free from felled trees until approved.
- (17) Before cutting and removing any reserve trees necessary to facilitate logging in the Harvest Areas shown on Exhibit A, the Purchaser shall identify the location of the skid trails and skyline roads in accordance with Section 44(b)(16) and tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding, the following conditions must be met:
- (aa) All skid trails and/or skyline 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 Authorized Officer, the width of each skid trail, and/or skyline road shall be limited to 12 feet.
  - (bb) The Purchaser may immediately cut and remove additional timber to clear skid trails and skyline roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees have been marked with blue 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.
  - (cc) 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.
  - (dd) 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.

- (ee) 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.
  - (ff) The Government may reserve trees previously designated for cutting and removal by applying purple paint in the Harvest Areas above and below stump height and the letter “R” on two sides of the trees as replacements for additional trees cut and removed for skid trails, and/or skyline roads, when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription. This may include the replacement of trees damaged by storm events, insects, or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.
- (18) In accordance with the requirements of Section 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the Harvest Areas to meet all applicable State safety laws, codes, or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, that:
- (aa) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump immediately after falling with a large “X”. The “X” shall be cut with a chain saw. The stump shall be marked by hanging flagging so that the stump can be visually located from a distance of not less than 50 feet. The Purchaser shall also paint an identifiable “X” on the butt log. The butt log shall remain on the contract area until such time as the Authorized Officer has scaled such additional timber and authorizes removal from the contract area.
  - (bb) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Section 3(b) or 3(f) of the contract as required by Section 8 of the contract.
  - (cc) No timber may be cut or removed under the terms of this provision if all contract payments required by Section 3(b) or 3(f) of the contract have been made.
  - (dd) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
    - (1) Failed to properly mark any stump with the “X” cut.
    - (2) Failed to identify the location of any stump.
    - (3) Cut any reserve tree in or adjacent to skyline yarding roads that was not necessary to facilitate skyline yarding.
    - (4) Cut any reserve tree in or adjacent to tractor skid trails that was not necessary to facilitate ground based yarding.
    - (5) Failed to properly segregate any pulled over tree that was yarded to the landing.
    - (6) Cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.

- (7) Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
- (8) Cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
- (9) Failed to maintain accurate and current (no more than 24 hours old) documentation of cut and removed timber.

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

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

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

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

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

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

(b) Road Construction, Renovation, Use, and Maintenance

- (1) The Purchaser shall construct Spurs 20A, 21B, 21C, 27A, and Road Nos. 15-1-20.3, 15-1-20.4, 15-1-21.7, 15-1-21.8, 15-1-21.9 and 15-1-27.7. Renovate Spur 27B and Road Nos. 15-1-20.2, 15-1-21.1, 15-1-21.3, 15-1-21.5, 15-1-27.3, 15-1-28, 15-1-34.3, 16-1-3 and 16-1-5.3 in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof. Exhibit C contains 46 sheets.
- (2) Prior to removal of any timber, except right-of-way timber, the required construction, and/or renovation of the haul route for that timber shall be completed as specified in Exhibit C. The required construction and renovation of roads shall occur between June 1 and October 31 and are subject to dry conditions as determined by the Authorized Officer.
- (3) Culvert replacement/installation on streams shall be done between June 1 and October 31 (both days inclusive) and shall be completed prior to hauling and fall rains. During installation of the stream culverts, dewatering of the culvert bed, silt fences and/or straw bales may be required as directed by the Authorized Officer. All work shall be completed in accordance with the plans and specifications shown in Exhibit C.

- (4) The Purchaser will be required to crush and stockpile 600 CY of 1-1/2" minus, 400 CY of 3" minus rock to be used for maintenance during hauling as well as final road maintenance. 200 CY of 1-1/2" minus and 200 CY of 3" minus rock shall be used by the Purchaser for maintenance on roads listed in Section 44(b)(7) and the remaining rock shall be stockpiled separately, to be used by the BLM for maintenance on roads listed in Section 44(b)(6). Additional road reinforcement (rocking) may be required for wet weather haul and will be at the Purchaser's expense.
- (5) Quarry operations, which include drilling, blasting and crushing, loading, at the suggested rock source, Bunker Hill Quarry, T. 15 S., R. 1 W., Sec. 34, shall be developed in the location shown on Page 38 of Exhibit C.
- (6) BLM Maintenance: The Purchaser is authorized to use the roads listed below and shown on Exhibit D, which are under the jurisdiction of the Bureau of Land Management, for the removal of Government timber sold under the terms of this contract, and/or the hauling of rock as required in Exhibits C and D, provided that the Purchaser pay the required maintenance and/or rockwear obligations described in Section 44(b)(9) and Section 44(b)(10). The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

<u>Road No. and Segment</u>	<u>Length Miles Used</u>	<u>Road Ownership</u>	<u>Road Surface Type</u>
15-1-27.3	1.60	BLM	Rock
15-1-27.3	0.12	BLM	Paved
15-1-28	0.73	BLM	Rock

- (7) Purchaser Maintenance: The Purchaser is authorized to use the roads listed below and shown on Exhibit D which are under the jurisdiction of the Bureau of Land Management, and/or Weyerhaeuser Timber Holdings Inc, for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibits C and D, provided that the Purchaser comply with the conditions set forth in Section 44(b)(8), 44(b)(9) and Section 44(b)(11) and pay the required rockwear obligation described in Section 44(b)(10). The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

<u>Road Nos.</u>	<u>Length Miles Used</u>	<u>Road Ownership</u>	<u>Road Surface Type</u>
Spur 20A	0.03	BLM	Rock
Spur 21B	0.16	BLM	Natural
Spur 21C	0.12	BLM	Natural
Spur 27A	0.06	BLM	Natural
Spur 27B	0.25	BLM	Natural
15-1-20.2 Seg A	0.40	WTHI	Rock
15-1-20.2 Seg B	0.29	BLM	Rock
15-1-20.3	0.07	BLM	Rock
15-1-20.4	0.05	BLM	Rock
15-2-21.1	0.73	BLM	Rock
15-1-21.3	0.22	BLM	Rock
15-1-21.5	0.06	BLM	Rock
15-1-21.7	0.09	BLM	Rock
15-1-21.8	0.15	BLM	Rock
15-1-21.9	0.11	BLM	Rock
15-1-27.7	0.13	BLM	Rock
15-1-34.3	0.10	BLM	Rock
16-1-3	0.89	BLM	Rock
16-1-5.3 Seg A-B	0.73	BLM	Paved
16-1-5.3 Seg C-G	1.95	BLM	Rock

\*WTHI = Weyerhaeuser Timber Holdings Inc.

- (8) The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract, which is attached hereto and made part hereof. Exhibit D contains 6 sheets.
- (9) The Purchaser shall pay to the Government a road maintenance obligation in the amount of Eleven Thousand Three Hundred Ninety-seven and 68/100 dollars (\$11,397.68) for the transportation of timber included in the contract price over the roads listed in Section 44(b)(6).

The above road maintenance amount is for the use of 2.45 miles of road. Unless the total maintenance amount is paid prior to commencement of operations on the contract area, payments shall be made in installments of not less than One Thousand and 00/100 dollars (\$1,000.00) payable in the same manner as and together with the payments required in Section 3 of this contract.

- (10) The Purchaser shall pay to the Government a road maintenance obligation for rockwear in the amount of Nineteen Thousand Five Hundred Thirty-nine and 68/100 dollars (\$19,539.68) for the transportation of timber included in the contract price over the roads listed in Section 44(b)(6) and Section 44(b)(7).

This rockwear fee shall be paid prior to removal of any timber from the contract area; provided, however, that if the total of such amount exceeds One Thousand and 00/100 dollars (\$1,000.00), the Authorized Officer may allow the Purchaser to make the payment in installments of not less than One Thousand and 00/100 dollars (\$1,000.00) in the same manner as and together with payments required in Section 3 of this contract.

- (11) In the renovation, use and maintenance of 15-1-20.2 Seg A and use of tailholds, and/or guybacks, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. E-573 between the United States of America and Weyerhaeuser Timber Holdings, Inc. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision. Said agreement is available for inspection at the Bureau of Land Management, Springfield Interagency Office, 3106 Pierce Parkway Suite E, Springfield, Oregon. Such conditions include but are not limited to the following actions by the Purchaser:
  - (aa) Obtain a license agreement from Weyerhaeuser Timber Holdings, Inc. The license agreement, bond and insurance certificate shall be delivered to Weyerhaeuser Timber Holdings, Inc., at least 15 days prior to use of company roads.
  - (bb) Furnish a performance bond in the amount of Ten Thousand and 00/100 dollars (\$10,000.00).
  - (cc) Maintain comprehensive liability insurance covering all operations, including vehicles, in amounts not less than One Million and 00/100 dollars (\$1,000,000.00) bodily injury for injury to any one person, One Million and 00/100 dollars (\$1,000,000.00) for any one occurrence, and One Million and 00/100 dollars (\$1,000,000.00) property damage for any one occurrence.
  - (dd) Pay a lump sum road use fee of Seven Thousand Eight Hundred-eight and 00/100 dollars (\$7,808.00) prior to log hauling. Additional road use fees due as a result of modification volume to the contract will be charged road use fees as a system at the rate of \$2.00 per MBF, if applicable, payable at the time of the modification.
  - (ee) Pay a lump sum rockwear fee of One Thousand Four Hundred Eighty-three and 52/100 (\$1,483.52) prior to log hauling. All rockwear fees due as a result of modification shall be paid at rates current at the time of modification, with payment made prior to contract termination.
  - (ff) The Purchaser shall maintain Road No. 15-1-20.2 Seg. A, in accordance with Section 44(b)(8).
- (12) In the use of tailholds, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. E-337A between the United States of America and Franklin-Clarkson Timber Company.

- (aa) Prior to the use of tailholds, the Purchaser shall execute a Short Form Tramway Agreement with Franklin Clarkson Timber Company. The Short Form Tramway Agreement shall be delivered to Franklin Clarkson at least 15 days prior to use.
  - (bb) Prior to use, Licensee agrees to provide Licensor an insurance certificate (listing Licensor as an additional insured) evidencing general and automobile liability insurance, including loggers broad form property damage, in single limit amounts of One Million and 00/100 dollars (\$1,000,000.00) each.
  - (13) With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users on roads included in Section 44(b)(7) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of their liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. Prior to hauling, the Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreement(s) entered into with other users on these roads.
  - (14) The Purchaser also agrees that if they elect to use any 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, they shall request and agree to the modification of this contract to provide for such use.
- (c) Environmental Protection
- (1) The Purchaser shall be required to clean logging, piling, road, and decommissioning equipment to remove dirt and plant debris that may contain noxious weed seeds from the undercarriage, tracks and tire treads prior to entry on BLM. The Authorized Officer shall require inspection of equipment to see that it was cleaned prior to arrival on site.
  - (2) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall apply native seed and certified weed-free mulch to cut and fill slopes and ditch lines with the potential for sediment delivery to wetlands, Riparian Reserves, floodplains, and waters of the State, as determined by the Authorized Officer. The BLM will provide native seed and mulch as needed.
  - (3) Snag Creation
    - (aa) Snag creation shall be completed within 90 days upon receiving notification from the Authorized Officer.
    - (bb) Purchaser shall select and top 63 trees and girdle 148 standing trees greater than 20 inches DBH. Location of selected trees shall be in accordance with and approved in writing by the Authorized Officer. Portions of trees topped shall remain reserved.
    - (cc) Trees selected for topping and girdling shall be identified by the Purchaser with either paint or flagging so as to be visible by no less than 100 feet or as otherwise agreed to by the Authorized Officer.
    - (dd) Purchaser shall top trees at a height between 40 and 60 feet. Trees shall have the top completely severed.
    - (ee) The Purchaser shall girdle the stem of the tree at a height of 2 to 5 feet from the ground line. The Purchaser shall complete three parallel cuts spaced 10 to 12 inches apart around the entire stem of the tree for each girdle. The Purchaser shall make cuts to penetrate into the wood and cambium layer of the tree. Trees selected shall be greater than 20 inch DBH or as directed by the Authorized Officer.
    - (ff) No adjustment of volume or value shall be made to meet these requirements.
    - (gg) The Purchaser shall tally all trees by diameter class and species on a daily basis. The tally may be requested by the Authorized Officer at any time during falling/girdling operations. At the end of falling/girdling operations, a completed tree tally shall be submitted to the Authorized Officer.
    - (hh) Topping and girdling shall occur upon completion of yarding of the harvest unit, as directed by the Authorized Officer.

- (4) Cable yarding corridors shall be waterbarred and covered with slash immediately after use if necessary to prevent erosion, as determined by the Authorized Officer.
- (5) Upon each season’s shutdown and prior to fall rains, the Purchaser shall block skid trails and natural surfaced roads and shall place them in an erosion-resistant condition by constructing waterbars and/or lead-off ditches. Rocked roads on which Exhibit D final maintenance has not been completed, and that have been determined by the Authorized Officer to not be in an erosion-resistant condition shall have waterbars and/or lead-off ditches constructed. Waterbars shall be constructed in accordance with the specifications shown on Exhibit H, which is attached hereto and made a part hereof. Exhibit H contains 2 sheets. Blocking and water bars shall be completed as directed by the Authorized Officer.
- (6) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall, upon completion of hauling, and yarding, complete skid trail and road decommissioning measures. Skid trail and road decommissioning shall be completed during the dry season, typically between June 1 and October 31, as determined by the Authorized Officer.
  - (aa) Purchaser shall decompact skid trails, to a depth of 18 inches with decompaction equipment such as a track mounted excavator with ripping teeth and an opposable thumb. Minimize damage to residual tree roots. The Purchaser shall decompact the entire trail prism. If equipment other than an excavator is used, it shall be approved by the Authorized Officer. It shall also be capable of decompacting to the required depth and provide lateral shatter of compacted layer.
  - (bb) Slash and cull logs shall be placed on top of the decompact surface. Total depth of slash, not including cull logs, shall be less than 12 inches.
  - (cc) Construct drainage dips, waterbars and/or lead-off ditches as directed by the Authorized Officer. Waterbars and drainage dips shall be constructed in accordance with the specifications shown on Exhibit H.
  - (dd) Purchaser shall block skid trails and roads with root wads, logs and/or slash as directed by the Authorized Officer.

<b>Roads</b>	<b>Surface</b>	<b>(aa) Decompact</b>	<b>(bb) Slash</b>	<b>(cc) Drainage</b>	<b>(dd) Block</b>
Skid Trails	Natural	X	X	X	X
15-1-20.3	Rock			X	X
15-1-20.4	Rock			X	X
15-1-21.3	Rock			X	X
15-1-21.5	Rock			X	X
15-1-21.7	Rock			X	X
15-1-21.8	Rock			X	X
15-1-21.9	Rock			X	X
15-1-27.7	Rock			X	X
Spur 20A	Rock			X	X
Spur 21B	Natural	X	X		X
Spur 21C	Natural	X	X		X
Spur 27A	Natural	X	X		X
Spur 27B *	Natural	X	X	X	X

\*Remove culvert at seep during decommissioning and remove from government land.

(d) Fire Prevention

- (1) Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power driven equipment in construction or logging operations under this contract during fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.

(e) Logging Residue Reduction

- (1) In addition to the requirements of Sections 15 and 26 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and/or site preparation measures required by this contract: Perform logging residue reduction and site preparation work on approximately One Hundred Forty-Nine (149) acres of Harvest Area. Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of Purchaser's operations under the terms of this contract.
  - (aa) Prior to commencement of any logging residue reduction and/or site preparation, a pre-work conference between the Purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All logging residue reduction and/or site preparation shall be done in accordance with the plans developed at the pre-work conference.
  - (bb) Within eight (8) acres of the Harvest Areas shown on Exhibit A, all vegetation, including perennial shrubs and woody plants (excluding coniferous trees) less than six (6) inches diameter and greater than one (1) foot tall shall be slashed. Slashed vegetation shall be cut at a point no higher than six (6) inches from the ground. Slashing treatments shall be completed within 90 days notice provided by the Authorized Officer.
  - (cc) Machine pile and cover slash within ground-based harvested portions of the Harvest Areas as directed by the Authorized Officer. Slash shall be piled by a machine equipped with a hydraulic thumb or a controllable, grapple head. If the purchaser elects to cable yard areas that were planned for ground-based harvest (areas less than 35% slope) and the slash exceeds 6 inches in depth, piling will be required as directed by the Authorized Officer.
    - (1) Unmerchantable logs greater than six (6) inches on the small end shall be left in place, or positioned so that they will not be burned.
    - (2) Machine piles shall be located as far as possible from reserve trees, culverts, or unit boundaries to minimize damage.
    - (3) Machine piles shall be kept free of dirt and other non-woody debris and constructed as compactly as possible. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Slash left on the ground shall not exceed 6 inches in depth.
    - (4) All piles shall be covered with black six (6) Mil polyethylene plastic to cover at least fifty (50) percent of the surface of each pile, minimum plastic size of 10' x 10' cover. Plastic shall be held in place with woody debris and tied with combustible cord. The plastic must be secured so that it is held in place during strong wind conditions and maintains coverage for at least one year. The Purchaser is required to furnish the covering materials. Covering shall be completed at the time of piling and no later than September 15<sup>th</sup> of the year it was harvested, or as directed by the Authorized Officer.
    - (5) Harvest Areas shall be piled during the same season that they are logged, unless otherwise directed by the Authorized Officer.
  - (dd) Pile and cover landing slash and slash within twenty-five (25) feet of all roads within or adjacent to the harvest units. All tops, broken pieces, limbs and debris more than two (2) inches in diameter at the large end and longer than three (3) feet in length shall be piled within fifteen (15) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located at least twenty (20) feet from any reserve tree and/or as directed by the Authorized Officer.
    - (1) All logs greater than six (6) inches in diameter at the large end and longer than eight (8) feet in length shall be decked or windrowed at the location designated by the Authorized Officer, except logs sold and removed from the contract area.

- (2) Upon completion of landing and roadside piling, the Purchaser shall prepare the piles for burning by securely covering each pile with black six (6) Mil polyethylene plastic. Landing and roadside piles shall be at least fifty (50) percent covered with the covering extending half of the way down all sides, minimum plastic size of 10' x 10'. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Plastic shall be held in place with woody debris and tied with combustible cord. The plastic must be secured so that it is held in place during strong wind conditions and maintains coverage for at least one year. The Purchaser is required to furnish the covering materials. Covering shall be completed at the time of piling and no later than September 15<sup>th</sup> of the year it was harvested, or as directed by the Authorized Officer.
  - (3) 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.
- (2) The Purchaser shall perform logging residue reduction and site preparation work within approximately eight (8) acres of Harvest Area.
- (aa) The required work shall consist of any one 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 and locations of each treatment shall be determined by the Authorized Officer.

<u>Treatment</u>	<u>Cost/Acre</u>
Slashing	\$ 250.00

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

<u>Appraised Treatment</u>	<u>Acres</u>	<u>Cost/Acre</u>	<u>Total Cost per Treatment</u>
Slashing	8	\$ 250.00	\$ 2,000.00
Total Appraised Cost			\$ 2,000.00

- (cc) 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 logging residue reduction and site preparation treatments designated pursuant to Section 44(e)(2)(bb) differs from Two Thousand and 0/100 dollars (\$2,000.00), as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 44(e)(2)(aa).
- (3) 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 Section 44(e). In accordance with written instruction to be issued by the Authorized Officer at least 10 days in advance of the earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or designated representative, assist in preparing units for burning, burning, mop-up, and patrol by furnishing, at the Purchaser's own expense, the services of personnel and equipment on harvest area as shown below:
- (aa) For Igniting, Holding, and Mop-Up of Piles:
- (1) One (1) work leader (Firefighter Type 1 (FFT1)) to supervise crew and equipment operations, and to serve as Purchaser's representative.
  - (2) Two (2) person crew (Firefighter Type 2 (FFT2)).
  - (3) Sufficient fuel for burning, five (5) drip torches or propane burners, one (1) power saw, and one (1) backpack pump, one (1) tool for each crew member.

- (4) 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.
- (5) All ignition, holding, and mop-up personnel will be directly supervised by a BLM representative.

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

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. In addition, all listed personnel shall be qualified according to the National Wildfire Coordinating Group (NWCG) Wildland Fire Qualification System Guide, PMS-310-1 and provide documentation of these qualifications. On the day of ignition all listed personnel shall be fluent in speaking and understanding English, clothing shall consist of long pants and long-sleeved shirts and be of approved aramid fabric (Nomex™ or equivalent), as well as being free of diesel fuel oil. All personnel shall wear boots with minimum eight (8) inch tall uppers that provide ankle support, approved hardhats and leather gloves. Personnel who do not meet these requirements or do not have proper clothing and personal protective equipment (PPE) will not be allowed to participate. 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 cutting unit shown on Exhibit A for seventy-two (72) hours, as directed by the Authorized Officer within a five (5) day period commencing at 8:00 a.m. the day following the completion of ignition in that unit, or until released from such service by the Government, whichever occurs first.

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

In situations where an escaped fire is controlled and contained by an adequate fire break (i.e., trail, road, stream, rock formation, etc.), the Government may permit the Purchaser to remove personnel for that day; provided that all mop up work on the escaped fire 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.

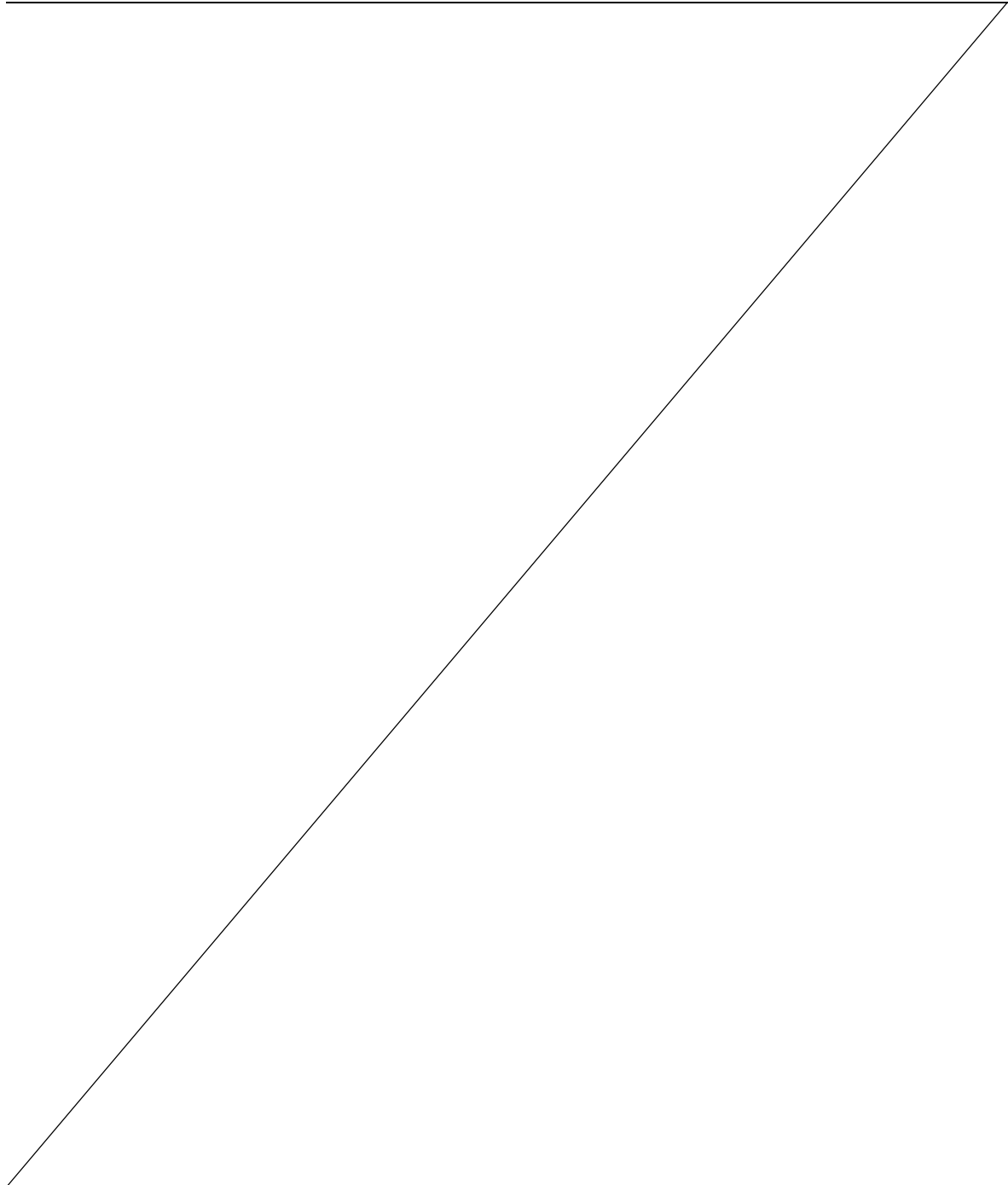
In case of injury to personnel or damage to equipment furnished as required by this subsection, liability shall be borne by the Purchaser, unless such injury or damage is caused by Government negligence.

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

(f) Optional Contributions

(1) The Purchaser shall prescribe burn and mop-up in accordance with Section 44(f)(2). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of Twenty-One Thousand Four and 50/100 dollars (\$21,004.50).

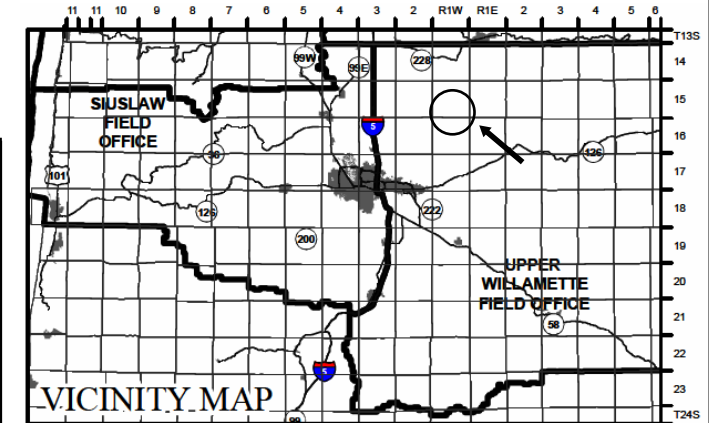
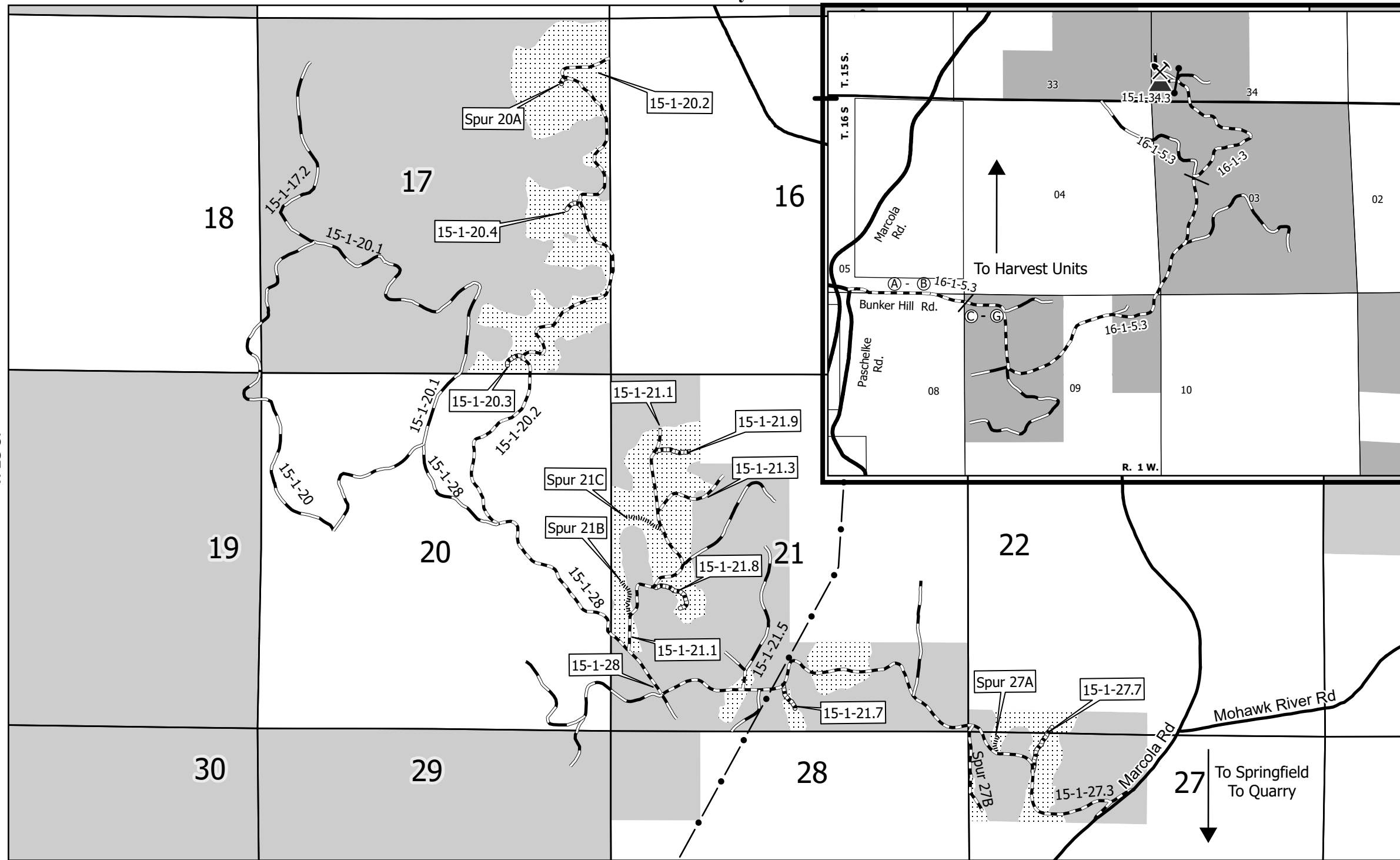
(aa) The amount of contribution shown above shall be paid prior to cutting. The Purchaser shall notify the Authorized Officer in writing of his intention to make this contribution prior to the date of execution of the contract. Upon making such contribution, the Purchaser shall be relieved of obligations set out in this subsection. The Purchaser may elect to make the payment in installments in the same manner as and together with payments required in Section 3 of this contract.





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Bureau of Land Management, Northwest Oregon District  
Power Play Timber Sale

Exhibit C



Index	
Sheet	Table of Contents
1	Cover Sheet
2 - 3	Special Provisions
4 - 31	General Specifications
32 - 38	Section Map Worklists
39	Typical Cross Sections
40	Landing Details
41	Culvert Summary
42	Culvert Installation Details
43	Culvert Bedding and Backfill Details
44	Crossdrain Slope Protection
45	Stream Culvert Armoring Details
46	Brushing Details

Sale Name: Power Play  
Contract No.: ORN05-TS-2026.0575

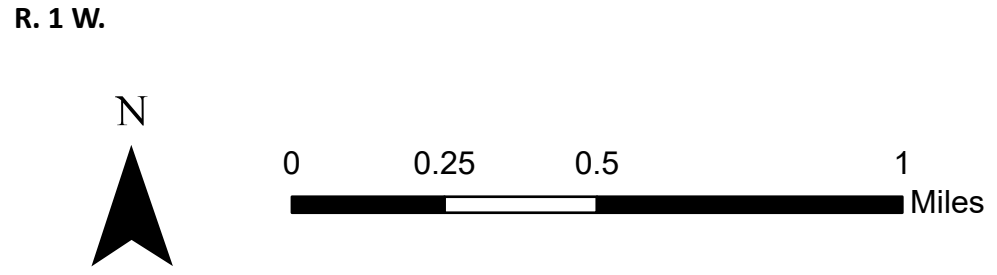
**Construction:** Spurs 20A, 21B, 21C, 27A, Road Nos. 15-1-20.3, -20.4, -21.7, -21.8, -21.9, -27.7

**Renovation:** Spur 27B, Road Nos. 15-1-20.2, -21.1, -21.3, -21.5 -27.3, -28, -34.3, 16-1-3, -5.3

T. 15 S., R. 1 W., Secs. 16, 17, 20, 21, 22, 27, and 34  
T. 16., R. 1 W., Secs. 3, 4, 5, 8, 9

Willamette Meridian, Lane County, Oregon

Legend		
	Paved	
	Existing	
	Construction Rocked	
	Construction Natural	
	Renovation	



Designed:	S. McCauley	Recommended
Drawn:	S. McCauley	Lead Engineer
Checked:	C. Conklin	Approved
Date:	03/10/2026	Field Manager

**SPECIAL PROVISIONS**

1. The Purchaser shall clean road equipment to remove dirt and plant debris that may contain noxious weed seeds from the undercarriage, tracks, and tire treads prior to entry on BLM lands.
2. All road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway by water barring, maintaining drainage, and any additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Any portion of road not having surfacing rock in place will be waterbarred and blocked or barricaded to prevent vehicular traffic.
3. Before beginning road construction operations for the first time or after a shutdown of 7 or more days, the Purchaser shall notify the Authorized Officer of the date he plans to begin operations. The Purchaser shall also notify the Authorized Officer if he intends to cease operations for any period of 30 or more days.
4. Purchaser shall provide proof at the pre-work conference that operations permits with the Oregon Department of Forestry have been obtained for road work on private land.
5. The P-lines, as Flagged in the field and as shown in this Exhibit C, are intended to be used as a control and should be considered as being in the area of the finished grade.
6. Suggested Rock Source: Bunker Hill Quarry located in T. 15 S., R. 1 W., Section 34, Will. Mer.

<b>Quantities: Crushed Rock</b>	<b>Gradation:</b>	<b>Truck Yards:</b>
Exhibit C: Surfacing/Base Rock	1-1/2" Minus	3,620 CY
	3" Minus	1,307 CY
	6" Minus	961 CY
	Ashphalt	1 CY
Culvert Bedding/Back Fill Armoring	3/4" Minus	525 CY
	Jaw Run	69 CY
Exhibit D: Maintenance Rock	1-1/2" Minus	600 CY
	3" Minus	400 CY
<b>TOTAL:</b>		<b>7,483 Truck Yds</b>

7. Prior to any quarry operations, the Purchaser shall provide a quarry development plan which must be reviewed on site with the Authorized Officer and the contractor performing the drilling, blasting, and crushing, as detailed in this Exhibit.
8. Quarry operations, which include drilling, blasting and crushing, loading, shall be completed at Bunker Hill Quarry, T. 15 S., R. 1 W., Sec. 34. Quarry shall be developed in the location shown on Page 38 of Exhibit C.
9. The Purchaser shall furnish and stockpile 600 cubic yards of 1 1/2" minus and place 200 cubic yards and furnish and stockpile 400 cubic yards of 3" minus and place 200 cubic yards of surface maintenance rock in accordance with Special Provision 2, Exhibit D. Road reinforcement (rocking) and additional maintenance that may be required for wet weather haul shall be at the Purchaser's expense. Purchaser shall be required to provide to the BLM notice of placement as well as locations of where maintenance rock is placed.
10. The removal and installation of all culverts shall comply with the following requirements:
  - a. The Authorized Officer shall be given 2 business days' notice prior to the commencement of stream culvert installations.

- b. Road closed signs or traffic control flaggers shall be used above and below the culvert replacement site whenever the situation is unsafe for through traffic as determined by the Authorized Officer. Road closure plans shall be coordinated with other users.
  - c. Culvert replacement/installation on streams shall be done between June 1 and October 31 (both days inclusive), and all removal and replacement/installation shall be completed prior to hauling and fall rains. During installation of stream culverts, silt fences and/or straw bales may be required as directed by the Authorized Officer. All work shall be completed in accordance with the plans and specifications shown in this Exhibit.
  - d. Dewatering of the culvert is required on all live streams and as directed by the Authorized Officer.
  - e. No bedding shall be done on culvert installation of CMPs or CPPs 30" in diameter and greater unless the Authorized Officer is present. Backfill material shall not be placed prior to approval from the Authorized Officer.
  - f. All CMPs shall use an "O" ring neoprene gasket to insure a water-tight joint.
  - g. All excess and unsuitable material from culvert removals shall be hauled to waste area locations approved by the Authorized Officer. All borrow site locations shall be approved by the Authorized Officer.
11. Seed and mulch will be required at all culvert installation/replacement sites, and designated cut banks, landings, and waste disposal sites in accordance with Section 1800 of this Exhibit.
12. When operating adjacent to BPA Transmission Right-of-Way, the Purchaser shall comply with the following conditions:
- a. Prior to the start of road construction and renovation, the Purchaser shall contact and meet with a BPA representative and the Authorized Officer.
  - b. Keep passage open to at least one vehicle width on all BPA access roads to allow for maintenance of powerlines, as determined by the Authorized Officer.
  - c. No log decking, storage of logs, storage and transportation of flammable materials, or fueling of vehicles shall occur within the BPA Transmission Right-of-Way.
  - d. No loading of log trucks shall be allowed within the BPA Transmission Right-of-Way. All equipment, including log trucks, shall not be loaded to a height greater than 14 feet above the road bed when traveling under the powerlines.

**TIMBER SALE ROAD SPECIFICATIONS**

**TABLE OF CONTENTS**

<b>SECTION</b>	<b>DESCRIPTION</b>
100	General
200	Clearing and Grubbing
300	Excavation and Embankment
400	Pipe Culverts
500	Renovation and Improvement of Existing Roads
600	Watering
1000	Aggregate Base Course - Crushed Rock
1200	Aggregate Surface Course - Crushed Rock
1400	Slope Protection
1600	Quarry and Borrow Pit Development
1700	Erosion Control
1800	Soil Stabilization
2100	Roadside Brushing

**GENERAL – 100**

101 — Prewrite Conference:

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

The purpose of the prework conference will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractors. A prework conference shall be scheduled at the worksite for quarry development and large culvert installations.

102 — Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

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

MSHA – Mining Safety and Health Administration

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

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

Shoulder - The portion of the roadbed contiguous with the traveled way designed for accommodation

of stopped vehicles, safety, and lateral support of base and surface courses.

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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

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

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

Un-aged Cloth - Cloth in condition received from the manufacturer or distributor.

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

102a — Tests Used in These Specifications:

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

AASHTO T 27      Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.

AASHTO T 89      Liquid limit of material passing the No. 40 sieve. Water content at which the soil

passes from a plastic to a liquid state.

- AASHTO T 90 Plastic limits and plasticity index of soil.  
a. Plastic limit - lowest water content at which the soil remains plastic.  
b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
- AASHTO T 96 Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
- AASHTO T 99 Relationship between soil moisture and density of soil.  
Method A - 4" mold, soil passing a No. 4 sieve  
25 blows/layer & 3 layers.  
Method C - 4" mold, soil passing a 3/4 inch sieve  
25 blows/layer & 3 layers.  
Method D - 6" mold, soil passing a 3/4 inch sieve.  
56 blows/layer & 3 layers.
- AASHTO T 166 Specific Gravity of compacted Bituminous Mixtures.
- AASHTO T 176 Shows relative portions of fine dust or claylike materials in soil or graded aggregate.
- AASHTO T 180 (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.
- AASHTO T 191 Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
- AASHTO T 205 Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.
- AASHTO T 210 Durability of aggregates based on resistance to produce fines.
- AASHTO T 224 Correction for coarse particles in the soil.
- AASHTO T 238 Density of Soil and Soil-Aggregate in place by nuclear methods.
- AASHTO T 248 Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
- ASTM D 4564 Determination of relative density of cohesionless soils.
- DMSO (dimethyl sulfide) Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

103 — Compaction equipment shall meet the following requirements:

103a — Padded Drum (Tamping) Rollers. The unit shall consist of a drum with pads, be either self-propelled or towed by a tractor, and capable of operating at a speed of 6 mph. The drum shall be no less than 48 inches in diameter over the pads and not less than 60 inches in width. The pads shall have a minimum height of 3 inches, and a face area of not less than 14 square inches. The weight at drum shall be no less than 8000 lb.

- 103d — Pneumatic-tired rollers. Pneumatic-tired rollers shall be of the double-axle type equipped with pneumatic tires each of equal size and type. The spacing between the sidewalls of adjacent tires shall not exceed 5 inches and the rear tires shall be staggered in relation to the front tires. The rolling width of the unit shall be not less than 60 inches, exclusive of the power unit. The roller shall be so constructed that the contact pressure is uniformly distributed on all of the tires, and the tires shall be inflated to maintain the air pressure in the several tires within a total tolerance of 5 pounds per square inch. The roller shall be so constructed that the total weight shall be between 1,000 and 2,000 pounds per tire. The actual operating weight of the rollers shall be as ordered by the Authorized Officer.

Each pneumatic-tired roller shall be drawn by equipment having sufficient power and weight under normal working condition to pull the roller at a minimum speed of 5 miles per hour, or it may be self-propelled to obtain a minimum speed of 5 miles per hour.

- 103e — Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3 inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller through 6 inches of loose embankment material at a speed of at least 4 miles per hour.
- 103f — Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.

- 103g — Vibratory compactor. Vibratory compactors shall consist of multiple or gang-type compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.
- 103i — Other. Compaction equipment approved by the Authorized Officer.

### **CLEARING AND GRUBBING – 200**

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

- 201a — This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications.
- 202 — Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 5 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 203 — Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 and as posted on the ground.
- 203a — Brush under 2 feet in height does not need to be cut within the limits established for clearing.
- 203b — Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 204 — Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204b, 204c, 204d, and 204e between the top of the cut slope and the toe of the fill slope. Undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excluded.
- 204a — Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.
- 204b — Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet. When authorized, stumps and other nonperishable objects may be left provided they do not extend more than 6 inches above the existing ground line.
- 204c — On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 204d — On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.
- 204e — Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 — Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections. Such debris will, however, be permitted to remain under waste material from full-bench construction on steep side slopes.
- 206 — Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210.
- 206a — Notwithstanding Subsections 204, 204a, 204d, and 205, clearing and grubbing debris resulting from landing construction shall be placed at disposal sites and shall not be covered with excavated material. Location of disposal sites will be determined by the Authorized Officer.
- 210 — Disposal of clearing and grubbing debris stumps and cull logs shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.

- 210a — Disposal of clearing and grubbing debris stumps and cull logs on non-government property by scattering this material outside of clearing limits will be permitted provided the Purchaser obtains a written permit from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the permit and a written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.
- 210b — Clearing and grubbing debris, stumps, and cull logs resulting from road construction on non-Government property shall be disposed of as stated in the terms and conditions of the license agreement between the Purchaser and non-Government land owner.
- 212 — No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 — No clearing or grubbing debris shall be left lodged against standing trees.

### **EXCAVATION AND EMBANKMENT – 300**

- 301 — This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 302 — Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground.
- 303 — Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 304 — Borrow shall consist of suitable material required for the construction of embankments or for other portions of the work; such material shall be obtained from sources selected by the Purchaser at his option and approved by the Authorized Officer.
- 305 — Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections.
- 305a — Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b — Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 6 inches in depth.

- 306 — Layers of embankment, selected borrow, final subgrade, and selected roadway excavation material as specified under Subsections 305a, 305b, 317, and 317a shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103a, 103d, 103e, 103f, 103g, and 103i.
- 306a — Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be 1 hour of continuous compacting for each 4 stations of road or fraction thereof.
- 306d — Compacted materials within 3 feet of the established subgrade elevation shall have a density in place of not less than 95 percent of maximum density, and below the 3-foot limit, these materials shall have a density in place of not less than 90 percent of maximum density. Maximum density shall be determined by AASHTO T 99, Method A or Method D.
- 306e — The final subgrade including landings shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103a, 103d, 103e, 103f, 103g, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations of road or a fraction of as measured along the center line of the constructed road.
- 311 — In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade, and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 312 — When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.
- 313 — In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.
- 314 — When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 316 — Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.
- 317 — Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics and as approved by the Authorized Officer.
- 317a — Where indicated on the plans, the Purchaser shall conserve excavation material consisting of talus material, gravel, finely broken rock or other material of granular or favorable characteristics for placement on the top portions of the roadbed as directed by the Authorized Officer.

- 306 — Layers of embankment, selected borrow, final subgrade, and selected roadway excavation material as specified under Subsections 305a, 305b, 317, and 317a shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103a, 103d, 103e, 103f, 103g, and 103i.
- 306a — Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be 1 hour of continuous compacting for each 4 stations of road or fraction thereof.
- 306d — Compacted materials within 3 feet of the established subgrade elevation shall have a density in place of not less than 95 percent of maximum density, and below the 3-foot limit, these materials shall have a density in place of not less than 90 percent of maximum density. Maximum density shall be determined by AASHTO T 99, Method A or Method D.
- 306e — The final subgrade including landings shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103a, 103d, 103e, 103f, 103g, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations of road or a fraction of as measured along the center line of the constructed road.
- 311 — In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade, and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 312 — When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.
- 313 — In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.
- 314 — When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 316 — Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.
- 317 — Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics and as approved by the Authorized Officer.
- 317a — Where indicated on the plans, the Purchaser shall conserve excavation material consisting of talus material, gravel, finely broken rock or other material of granular or favorable characteristics for placement on the top portions of the roadbed as directed by the Authorized Officer.

**PIPE CULVERTS – 400**

- 401 — This work shall consist of furnishing and installing pipe culverts, downspouts, and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer upon completion of the roadbed. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 402 — The pipe culverts are located as shown on the plans and the Culvert Worklist, and shall be installed in such a manner as not to impede fish passage. Installation shall conform to the lines, grades, dimensions, and typical cross sections shown on the plans or as directed by the Authorized Officer.
- 403 — Cross drain culverts shall have a gradient of from 1 percent to 4 percent greater than the adjacent road grade. Culverts shall be skewed down grade 20 degrees as measured from parallel to the centerline unless otherwise specified on the plans.
- 404 — Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.
- 405a — Corrugated-aluminized steel-welded pipe culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274, or AASHTO M 289 as specified on the plans.
- 405e — Corrugated-polyethylene pipe for culverts 12-inch through 36-inch diameter shall meet the requirements of AASHTO M 294.
- Corrugated-polyethylene pipe for culverts 42-inch through 60-inch diameter shall meet the requirements of AASHTO M 294-03, Type D or Type S.
- Corrugated-polyethylene pipe for culverts to be used for downspouts 12-inch through 60-inch diameter shall meet the requirements of AASHTO M 294-03, Type C.
- Installation will be subject to the same specification as other pipe materials.
- 405f — Ring gaskets for rigid pipe shall meet the requirements of AASHTO M 198. Continuous flat gaskets for flexible metal pipe shall meet the requirements of ASTM D 1056, with grade RE 41 used for bands with projections or flat bands, and grade RE 43 used for corrugated bands. When used with metal pipe with annular reformed ends, the ring gasket shall be one-fourth greater in diameter than the depth of the corrugation. Gasket thickness for bands with projections or flat bands shall be 1/2 inch greater than the nominal depth of the corrugation and shall be 3/8 inch for corrugated bands. For pipe with flanged ends, a butyl-rubber-strip gasket shall be placed inside the channel band.
- 406 — Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.
- 406b — Coupling bands produced from flat galvanized steel sheets with impressed dimples will be permitted only for connecting annular corrugated steel pipe to helically corrugated steel pipe. Such coupling bands shall conform to the width requirements shown on the plans.

- 406c — Elbow sections used in conjunction with full-round pipe culvert downspouts shall be connected at both ends by "Hugger"-type bands, and "O" ring neoprene gaskets shall be inserted between the band and pipe as shown on the plans to insure a water-tight joint.
- 406e — Bituminous coated bands or a full-size gasket shall be used to join aluminum pipe culvert to galvanized steel pipe culvert.
- 406f — Channel-type or flanged-end coupling bands may be used on helical pipe with reformed rolled ends and flanged specifically to receive these bands. Such coupling bands shall conform to the requirements shown on the plans.
- 407 — Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined, and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- 408 — Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- 410 — Pipes shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411 — Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram included in the plans and the Culvert Installation Details.
- 412 — Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of one pipe diameter plus 2 feet on each side of the pipe and shall be backfilled with crushed rock material in accordance with Section 1200 gradation E.
- 413 — Pipe culverts shall be bedded on a selected granular crushed rock material in accordance with Section 1200 gradation E material having a depth of not less than 4 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- 414a — The invert grade of the bedding shall be cambered at the middle ordinate a minimum of 1 percent of the total length of the drainage structure. Camber shall be developed on a parabolic curve.
- 415 — Inspection of pipe culverts having a diameter of 30 inches or greater shall be made before backfill is placed. Culverts found to be out of alignment or damaged shall be replaced, reinstalled or repaired as directed by the Authorized Officer and at the Purchaser's expense.
- 416 — Back-fill material for all pipe culverts shall be placed at a minimum of 2 feet of the sides of the pipe barrel, and to 1 foot over the pipe with crushed rock material in accordance with Section 1200 gradation E or granular fill material that has been approved by the Authorized Officer and is free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.

- 417 — Back-fill material for all pipe culverts shall conform to the requirements of Subsection 416 and shall be placed and compacted under the haunches of the pipe, and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 6 inches in depth and a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of 85 percent of the maximum density is attained as determined by AASHTO T 99, Method C.
- 418 — Back-fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- 419 — The pipe culverts, after being bedded and backfilled as required by these specifications, shall be protected by a 2-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.
- 423 — Construction of catch basins and ditch dams conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required as specified on the Worklist Maps.
- 424 — Construction of splash pads/energy dissipaters conforming to lines, grades, dimensions and typical diagram shown on the plans, shall be required as specified on the Culvert Worklist and Worklist Maps.
- 425 — Where pervious materials are used for backfill and bedding, collars consisting of selected impervious material shall be placed at the inlet and at various intervals along the pipe barrel as shown on the plans and as directed by the Authorized Officer.
- 427 — Record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.
- 428 — Remove and dispose of old culverts in a legal manner, and pay any fees required.
- 429 — Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site in a manner that will avoid damage to adjacent property. Provide for downstream water flow with no more than 10% increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

**RENOVATION AND IMPROVEMENT OF EXISTING ROADS – 500**

- 501 — This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications, and as marked on the ground with stakes or metal tags.
- 501a — This work shall include the removal and disposal of slides in accordance with these specifications and as marked on the ground.
- 502 — The existing road surface shall be scarified to its full width and to a depth of 6 inches to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and shown on the Worklist Maps.

- 502a — Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b — Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 503 — Debris from slides shall be disposed of as directed by the Authorized Officer.
- 504 — Scarified material or existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103a, 103c, 103d, 103e, 103f, 103g, and 103i.
- 504a — Minimum compaction required shall be 1 hour of continuous rolling for each 4 stations of road, or fraction thereof, as measured along the centerline per layer of material.
- 504c — A uniform density of not less than 95 percent of the maximum density as determined by AASHTO T 99, Method A, C, or D shall be attained.
- 506 — The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of designated pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- 507 — Existing and new drainage structures shown on the Culvert Worklist sheet shall be replaced or installed with structures of the type, gauge, diameter, and length shown on the plans and in accordance with the placement requirements set forth under Section 400 of these specifications.
- 508 — Vegetation encroaching on the roadbed and the drainage ditches of existing roads shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.
- 509 — The finished grading shall be approved in writing by the Authorized Officer 1 day prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.

**WATERING – 600**

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

Willamette Meridian

Common Name	Section	T.	R.
Crooked Creek Road	19	15S	1W

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

- 605 — The Purchaser shall secure the necessary water permits and pay all required water fees for use of the water source specified under Subsection 604 and for use of water sources selected by the Purchaser and approved by the Authorized Officer.

**AGGREGATE BASE COURSE – 1000**  
**CRUSHED ROCK MATERIAL**

- 1001 — This work shall consist of furnishing , hauling, and placing one or more lifts of crushed rock material on roadbeds and landings approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the Purchaser’s expense.
- 1002a — Crushed rock materials may be obtained from commercial sources selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- 1003 — Crushed rock material produced from gravel shall have 2 manufactured fractured faces on 65 percent, by weight, of the material retained on the No. 4 sieve. If necessary to meet the above requirement, or to eliminate an excess of filler, the gravel shall be screened before crushing.
- 1004 — Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1004

AGGREGATE BASE COURSE  
CRUSHED ROCK MATERIAL  
 Percentage by Weight Passing  
 Square Mesh Sieves  
 (AASHTO T 11 & T 27)

Sieve Designation	GRADATION	
	A	I
6-inch	-	100
3-inch	100	45-65
2-inch	90-95	-
1-1/2-inch	-	-
1-inch	45-75	-
3/4-inch	-	-
1/2-inch	-	-
3/8-inch	-	-
No. 4	15-45	5-15
No. 8	-	-
No. 10	-	-
No. 30	-	-
No. 40	5-25	-
No. 200	2-15	-

- 1004a — The Purchaser shall be required to take one (1) sample of each 1,000 cubic yards of crushed rock material produced, using approved AASHTO sampling procedures. The Purchaser shall submit samples to a certified lab or shall perform testing for gradation requirements using AASHTO T 27 testing procedures. Prior to testing, each sample shall be split, making one-half of the sample with proper identification available for testing by the Authorized Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within twenty-four (24) hours of sampling. The Purchaser shall provide test results for the first five hundred (500) cubic yards produced prior to commencing production crushing and hauling.
- 1005 — Commercial crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1006 — Commercial crushed rock material shall show durability value of not less than 35, as determined by AASHTO T 210.
- 1007 — That portion of commercial crushed rock material passing the No. 40 sieve, including blending filler, shall have liquid limits of not more than 35, and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1007a — That portion of commercial crushed rock material passing No. 4 sieve, including blending filler shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalent of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

TABLE 1007a

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

- 1008 — If additional binder or filler is necessary in order to meet the grading or plasticity requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 1008a — Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1009 — The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of crushed rock materials. Notification for final inspection prior to rocking shall be 72 hours prior to that inspection and shall be 10 days prior to start of rocking operations.
- 1010 — Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as staked on the ground and compacted in layers not to exceed 6 inches (loose) in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved in writing by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing crushed rock material until the surface is smooth and uniform.
- 1010a — Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing under this specification unless approved as such by the Authorized Officer prior to placement.
- 1012 — Each layer of crushed rock material shall be placed, processed, shaped, moistened or dried to a uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsections 103a, 103d, 103e, 103f, 103g and 103i. Minimum compaction shall be one (1) hour of continuous compacting for each 150 cubic yards, or fraction thereof, of crushed rock material placed per layer and deemed adequate when the surface can withstand five passes of a truck with H-20 loading without appreciable deformation and 6 passes over each full-width layer.
- 1013 — Each layer of crushed rock material for base placed, processed, and shaped as specified shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and

compacted to full width until a uniform density of not less than 85 percent of the maximum density as determined by AASHTO T 99, Method D.

- 1018 — The equipment and methods used for stockpiling crushed rock material and for removing material from the stockpiles shall be such that minimum degradation or segregation of the material will result and that minimal amounts of foreign material will be incorporated into the crushed base material. There will be no intermingling of stockpiled materials.

**AGGREGATE SURFACE COURSE – 1200**  
**CRUSHED ROCK MATERIAL**

- 1201 — This work shall consist of furnishing , hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the Purchaser's expense.
- 1202a — Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing laboratory tests performed by BLM of furnished rock samples are in accordance with Subsection 1220 and indicate compliance with the specifications in this section.
- 1203 — When crushed rock material is produced from gravel, not less than 65 percent by weight of the particles retained on the No. 4 sieve will have 2 manufactured fractured faces. If necessary to meet the above requirements or to eliminate an excess of filler, the gravel shall be screened before crushing.
- 1204 — Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE  
CRUSHED ROCK MATERIAL  
 Percentage by weight passing  
 square mesh sieves  
 (AASHTO T 11 & T 27)

<b>Sieve Designation</b>	<b>GRADATION</b>	
	<b>C</b>	<b>E</b>
1-1/2-inch	100	-
1-inch	-	-
3/4-inch	50-90	100
1/2-inch	-	-
No. 4	25-50	40-75
No. 8	-	-
No. 30	-	-
No. 40	5-25	5-35
No. 200	2-15	2-15

- 1204a — The Purchaser shall be required to take one sample for each 1,000 cubic yards of crushed rock material to be utilized or a minimum of 1 sample per day using AASHTO sampling procedures. The

Purchaser shall submit samples to a certified lab or perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures and also perform testing for sand equivalency requirements using AASHTO T 176 testing procedures. Prior to testing, each sample shall be split, making one half of the sample, with proper identification, available for testing by the Authorized

Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within 24 hours of sampling. The Purchaser shall provide test results for the first 500 cubic yards produced prior to commencing production crushing and hauling.

- 1205 — Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1206 — Commercial crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210 and will be accepted if it complies with the additional DMSO requirements as shown on Table 1206a.
- 1206a — The commercial crushed rock material shall show a loss of not more than the percentage shown in Table 1206a, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.

TABLE 1206a

<b>Durability</b>	<b>DMSO (% loss by wt.)</b>
35	20
40	25
45	30
50	35
55	40
60	45

- 1207 — That portion of commercial crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1207a — That portion of commercial crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

TABLE 1207a

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

- 1208 — If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
  
- 1208a — Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
  
- 1209 — Shaping and compacting of roadbed base course shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsections 300 and 500 for placing on the roadbed, landings, and Subsection 1000 for placing on the base course. Notification for final inspection prior to rocking shall be 72 hours prior to the inspection and shall be 10 days prior to start of surfacing operations.
  
- 1210 — Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed, landings, and base course in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the ground. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved in writing by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
  
- 1210a — Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification unless approved by the Authorized Officer.
  
- 1212 — Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsections 103a, 103d, 103e, 103f, 103g, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations, or fraction thereof.
  
- 1213 — Each layer of crushed rock material placed, uniformly processed, and shaped as specified shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and

compacted to full width until a uniform density of not less than 95 percent of maximum density is attained as determined by AASHTO T 99, Method C or D.

- 1218 — The equipment and methods used for stockpiling crushed rock material and for removing material from the stockpiles shall be such that minimum degradation or segregation of the material will result and that minimal amounts of foreign material will be incorporated into the crushed base material and that there will be no intermingling of stockpiled materials.
- 1220 — Crushed rock material required under Section 1200 of these specifications shall first be placed in stockpile after crushing. The Purchaser shall notify the Authorized Officer a minimum of 3 days in advance of the date he intends to commence the crushing and stockpiling operations so that progressive test samples can be taken as the crushed rock material is produced. Sampled materials shall remain in stockpile until such time the Authorized Officer receives test results which indicate compliance with Subsections 1203, 1204, 1205, 1206, 1207, 1207a and 1208. Crushed rock material so tested shall be approved in writing by the Authorized Officer within 6 days from sampling date. Approved material may then be removed from stockpile for placement on the designated road. In no event shall the Purchaser place crushed rock materials on the road from sources other than the tested and approved stockpiles. Noncompliance with the requirements of this subsection shall constitute grounds for the rejection of all crushed rock materials furnished under this contract.

#### **SLOPE PROTECTION – 1400**

- 1401 — This work shall consist of furnishing, hauling, and placing stone materials for slope protection structures in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross-sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the slope protection structure at the Purchaser's expense and as directed by the Authorized Officer.
- 1402 — Stone material shall consist of hard angular quarry rock, blasted rock, and coarse stone from roadway excavation of such quality that it will not disintegrate on exposure to water or weathering, and shall be graded in accordance with these specifications.
- 1404 — The material shall be well graded from the smallest to the maximum size specified. Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.
- 1405 — Rip rap shall conform to the following gradations:

TABLE 1405

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

\*Rocks smaller than six inches in diameter are not counted.

- 1405a — Stone materials shall show a durability value of not less than 50 as determined by AASHTO T 210.
- 1406 — The placement of slope protection stones by the end dumping method shall be conducted to prevent the stones from escaping beyond the embankment toe.
- 1406a — The embankment shall be placed in successive horizontal layers of sufficient depth to contain the maximum size rock present in the material. Spalls and finer fragments of stone other than specified in Subsection 1405 shall be used to chock the larger stones solidly in position and to fill voids between the major stones as laid in the embankment. The exposed face of the embankment shall be reasonably smooth and uniform; material shall be prevented from escaping beyond the toe of the structure.
- 1406b — Spaces in back of hand-laid embankment shall be filled with hand-tamped or rammed rock-spall material.

- 1407 — Determination of the acceptability of the slope protection material gradation will be through visual inspection and physical measurements by the Authorized Officer.
- 1408 — Trenches for slope protection structures shall be excavated to the lines, elevations, and typical diagram shown on the plans. They shall be of sufficient size to permit the placing of structure footing of the full widths and length shown. Trenches shall be approved by the Authorized Officer prior to placement of slope protection material.
- 1408a — Foundation trenches and other required excavation as shown on the plans shall be approved prior to placing the slope protection material.
- 1409 — Slope protection material shall be placed so as to form the cross sections shown on the plans. The face of the slope protection structure above the low-water line shall be uniform, free from humps, depressions, or large cavities.

**QUARRY AND BORROW PIT DEVELOPMENT - 1600**

- 1601 — This work shall consist of quarry development in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 1602 — The developed rock quarry site (Bunker Hill Quarry) located at the following location:

<b>Willamette Meridian</b>			
<b>Subdivision</b>	<b>Sec.</b>	<b>T.</b>	<b>R.</b>
SW1/4SW1/4	34	15 S	1 W

shall be developed and mined in strict accordance with these specifications and the mining and reclamation plan shown on the plans. The Purchaser shall perform reclamation work in accordance with the requirements of Subsection 1617, as shown on the plans, and as directed by the Authorized Officer.

- 1603 — If the Purchaser elects to use a rock source other than the designated source, the rock material produced shall comply with applicable sections of these specifications. If the alternate source is located on BLM ownership and a current BLM plan is not available, a development, mining, and reclamation plan shall be prepared by the Purchaser, and submitted for review by the Authorized Officer. Development, mining and reclamation work shall be in accordance with the approved plan and 1600 specifications.
- 1604 — If the designated source proves insufficient as to quantity and quality of the required rock material, the Purchaser shall, when ordered in writing by the Authorized Officer, move his operation to an alternate materials source selected by the Authorized Officer. Development and extraction work on the alternate source shall be in accordance with the mining plan. An equitable adjustment will be made in the contract price.
- 1605c — The operation of equipment related to the production of rock aggregate and quarry operations shall be confined to the quarry operations area and to the designated tractor trails as shown on the plans.
- 1606 — Prior to removal of overburden from the quarry site, topsoil shall be removed and stockpiled. Stockpiles shall not be covered by overburden or waste materials and will be readily accessible for final backfilling and grading. The location of stockpile sites shall be shown on the mining and

reclamation plan. Topsoil stockpiles shall be seeded to minimize erosion.

- 1608 — Overburden or reject material which does not conform to the requirements of Subsections 1005, 1006, 1205, and 1206 shall be wasted as directed by the Authorized Officer.
- 1609a — Overburden and/or reject material shall be removed back from the upper edge of the quarry for a distance equal to one-half of the working face or a minimum of 15 feet whichever is greater. Overburden shall be sloped no steeper than 1 to 1.
- 1609c — Overburden and reject material shall be placed at the disposal sites shown on the plans, or as directed by the Authorized Officer.
- 1610 — Waste disposal sites shall be selected and prepared to minimize erosion and establish conditions conducive to vegetative growth. Disposal areas shall be seeded and mulched in accordance with the requirements set forth in Section 1800 of these specifications.
- 1611 — The Purchaser shall notify the Authorized Officer, in writing, at least 3 days prior to commencing quarry operations.
- 1611a — The Purchaser shall not commence production drilling or crushing until the Authorized Officer has accepted and reviewed the site development in writing.
- 1612 — The Purchaser shall notify MSHA (Mining Safety and Health Administration) by standard form or telephone, and in accordance with part 56, Chapter 1 of Title 30 Code of Federal Regulations (CFR), of what date he intends to commence, terminate, and/or temporarily close down operations of the quarry. Notice shall be submitted a minimum of 10 days prior to the proposed date of the action to be taken. Notification shall be submitted to:

Mining Safety and Health Administration  
Attn: Supervisor  
P.O. Box 70  
Albany, OR 97321  
Commercial Phone No. (503)967-5825

Or

Mining Safety and Health Administration  
117 107th Ave. N.E.  
Bellevue, WA 98004  
Commercial Phone No. (206)442-7037

The Purchaser shall also prepare and submit to MSHA at the above address the quarterly Employment Report and Injury and Illness Report for the mining operation.

- 1613 — The Purchaser shall comply with local and State Safety Codes covering quarrying operations, warning signs, seismic monitoring, and traffic control. All quarrying operations will be conducted by appropriately licensed personnel; i.e. blasting and powder handler's license, etc.
- 1613a — The Purchaser shall submit a written blasting plan or modification of the plan to the Authorized Officer for the Franklin-Clarkson Quarry, 3 working days prior to the start of drilling. The plan shall include:  
a) plan view of delay pattern; b) cross section of a typical loaded hole; c) types of explosives; d) powder factor; e) burden spacing, hole diameter, depth of holes, and depth of subdrill; and f) number of lifts. Acceptance of the blasting plan does not relieve the Purchaser of the liability or responsibility

for the results of the blasting.

- 1613b — Controlled blasting techniques shall be employed during production blasting to contain blasted rock.
- 1613c — The Purchaser shall submit to the Authorized Officer a blasting log showing "as built" data and a brief summary of the blasting results, within 10 days after the shot.
- 1614 — Rock materials extracted from the quarry walls shall be utilized or disposed of as shown on the plans. Secondary blasting or other methods shall be employed to reduce the quarried rock to a maximum of 24 inches in any dimension.
- 1614a — Oversized boulders shall not be wasted but shall be broken and utilized concurrent with acceptable material, or set aside as directed by the Authorized Officer.
- 1615 — Operations on the quarry site shall be so conducted that, both during and after completion of work, erosion will be minimized and sediment will not enter streams or other bodies of water. Waste or disposal areas and quarry access roads shall be located, constructed, and maintained in a manner that will prevent sediment from entering live streams or other bodies of water. Noncombustible debris and silt-laden water material resulting from the quarry operations shall be placed in such waste or disposal areas as shown on the plans and as directed by the Authorized Officer.
- 1616 — Upon completion of quarrying operations, overburden and waste materials shall be disposed of in accordance with requirements of the approved reclamation plan or in a manner approved in writing by the Authorized Officer.
- 1617 — Upon completion of quarrying operations, required site reclamation measures shall be performed to the satisfaction of the Authorized Officer, including but not limited to the following:
  - (a) Permanently seal or fill unused drill holes as directed by the Authorized Officer.
  - (b) Backfill pits and excavations with overburden and waste as directed by the Authorized Officer.
  - (c) Grade backfill material to the natural contour or desired landforms as directed by the Authorized Officer.
  - (d) Clear quarry benches and scale wall of loose or dislodged shot material and move to a designated location within the quarry.

#### **EROSION CONTROL – 1700**

- 1701 — This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.
- 1702 — The Purchaser shall construct dikes, dams, diversion channels, settling basins, and other erosion control structures located outside of the road right-of-way in accordance with the requirements and details as directed by the Authorized Officer.
- 1703 — This work shall consist of furnishing and installing brush barriers or sediment fences in accordance with these specifications as directed by the Authorized Officer.
- 1704 — The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.

- 1708 — Newly constructed or graded native surfaced roads to be carried over the winter period, shall be blocked to vehicular traffic as directed by the Authorized Officer.
- 1708a — Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.
- 1711 — The Purchaser shall construct sedimentation pools, temporary berms, brush barriers, sediment and check dams, catch basins, and energy dissipaters for pipe culverts and diversion channels conforming to the requirements and details shown on the respective exhibits.
- 1712 — Where shown on the plans or as directed by the Authorized Officer, the Purchaser shall provide erosion control measures for newly constructed ditches on steep grades which include but are not limited to, dumped stone, jute mesh, sod, check dams consisting of hay bales, and earth or stone. Width of protective lining or dam should extend far enough up the ditch slopes to effectively contain the runoff and prevent erosion and washout at the edges and prevent sediment from reaching live water.
- 1713 — Where newly constructed logging spur roads join with existing surfaced roads, the Purchaser shall construct a sag in the spur road profile and install culverts in accordance with the requirements and details as shown on the plans and directed by the Authorized Officer.

**SOIL STABILIZATION – 1800**

- 1801 — This work shall consist of seeding, and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is not required for road acceptance under Section 18 of this contract.
- 1802 — Soil stabilization work consisting of seeding and mulching shall be performed at new culverts and designated locations in accordance with these specifications and as shown on the plans.
- 1803 — Soil stabilization work at stream crossing culvert locations as specified under Subsection 1802 shall be performed during the following seasonal periods:
  - From: May 15 to November 30
  - Or as permitted.

The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

- 1803a — The Purchaser shall begin soil stabilization work promptly after machine operations.
- 1804 — The BLM shall provide native grass/forb seed and mulch for this project. If BLM is unable to provide native seed or other plant materials, the contract may be modified to delete the requirement to complete soil stabilization work and to increase the Total Purchase Price by the cost of this work as appraised at the time of sale.

1809 — After seed and mulch material is furnished to the Purchaser, it shall be maintained in a dry state. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

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

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

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

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

#### **ROADSIDE BRUSHING – 2100**

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

2102 — Roadside brushing shall be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.

2103 — Vegetation cut manually or mechanically less than 6 inches in diameter when measured 6 inches above the ground at DBHOB shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes, and all limbs below the 2 inch area will be severed from the trunk.

2103a — Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 2 inches above the ground and running surface. Limbs below the 2 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.

2104 — Trees in excess of 6 inches in diameter when measured 6 inches above the ground line shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 15 feet above the subgrade running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.

2105 — Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 15 feet in elevation above the subgrade running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.

2106 — Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.

**15-1-27.7 – Construction Rocked Surface**

- 0+00 – Keep right at Jct. with 15-1-27.3 at MP 0.41, Begin Construction: clear, grub, crown with ditches, 16' subgrade, **Rock: 9" lift of 3" minus.**
- 2+01 – Install crossdrain: 18" x 35' CPP with splash pad, construct LODL.
- 3+10 – Install crossdrain: 18" x 35' CPP with splash pad, construct LODL.
- 4+87 – Construct TTAR, **Rock: 20 CY 6" minus.**
- 6+10 – Begin taper to 40' x 40' landing, **Change in Rock: 12" of 6" minus.**
- 6+75 – Continue drainage around landing, end landing, end construction.

**Spur 27A – Construction – Natural Surface**

- 0+00 – Keep right at Jct. with 15-1-27.3 at MP 0.51, Begin Construction: clear, grub, crown with ditches, 16' subgrade.
- 1+41 – Construct LODL and LODR.
- 2+29 – Begin Taper to 40' x 40' landing.
- 2+94 – Continue drainage around landing, end landing, end construction.

**Spur 27B – Renovation Natural Surface**

- 0+00 – Keep left at Jct. with 15-1-27.3 at MP 0.62, Begin Renovation: clear, grub, brush, crown with ditches, 16' subgrade, natural surface.
- 0+26 – Level earthen barricade.
- 5+37 – Install stream culvert: 18' x 40' CPP, no splash pad.
- 12+84 – Begin taper to 40' x 40' landing.
- 13+46 – Continue drainage around landing, end landing, end renovation.

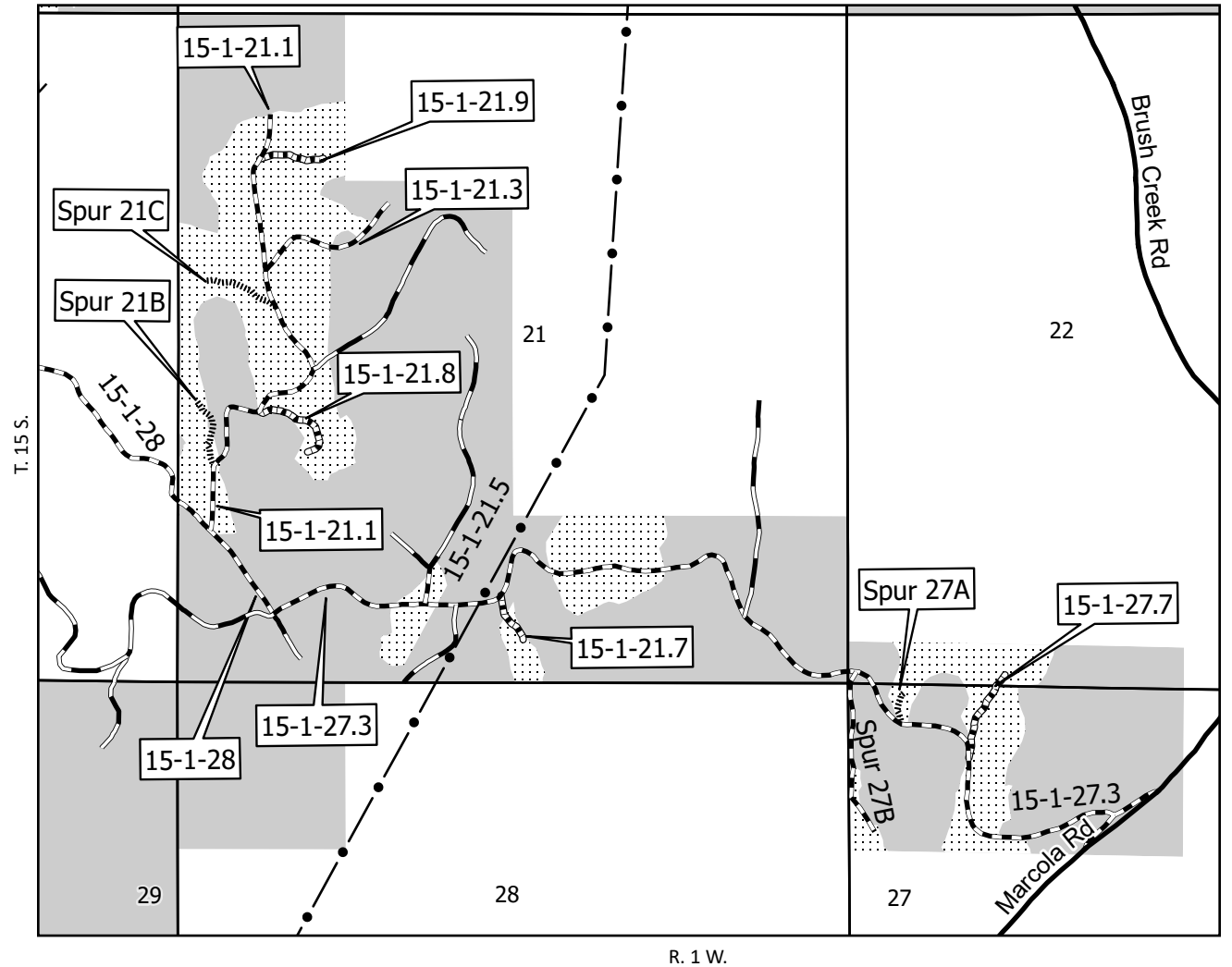
**15-1-21.7 – Construction Rocked Surface**

- 0+00 – Keep left at Jct. with 15-1-27.3 at MP 1.31, Begin Construction: clear, grub, crown with ditches, 16' subgrade, **Rock: 8" of 3" minus.**
- 1+64 – Sale boundary/edge of powerline cut, **Change in Rock: 5" of 3" minus base, 3" of 1 1/2" minus surface.**
- 2+28 – Construct LODL and LODR.
- 3+79 – Install crossdrain: 18" x 35' CPP with LODL and splash pad.
- 3+84 – Begin landing taper to 40' x 40' landing, **Change in Rock: 12" of 6" minus.**
- 4+49 – Continue drainage around landing, end landing, end construction.

**15-1-21.5 – Renovation Rocked Surface**

- 0+00 – Keep right at Jct. with 15-1-27.3 at MP 1.42, Begin renovation: brush, clean ditches, crown and compact, 14' subgrade, **Rock 10 CY of 1 1/2" minus, level apron to -27.3.**
- 0+30 – Level earthen barricade, **Rock over leveled barricade: 20 CY 1 1/2" minus.**
- 1+36 – Level water bar, construct LODL and LODR. **Rock over leveled waterbar: 20 CY 1 1/2" minus.**
- 2+80 – Keep right at Jct.
- 3+31 – End Renovation.

\*TTA = Truck Turnaround, \*TO = Turnout, \*LOD = Lead Out Ditch



Construction Rocked	Construction Natural	Renovation	Existing Rocked	Existing Paved	Harvest Area	BLM Land	Private Land	Power Line	Segment Break	Segment Label	Gate	Stockpile Site	Quarry
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<b>UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT</b>	
NORTHWEST OREGON DISTRICT	SPRINGFIELD OREGON
SECTION MAP & WORKLIST Power Play Timber Sale T. 15 S., R. 1 W., Sections 21, 22 and 27	
DRAWN: S. MCCAULEY	NO SCALE
DATE: February 2026	SHEET: 33 OF 46

**15-1-28 – Renovation Rocked Surface**

0.00 – Keep right at Jct. with 15-1-27.3 at MP 1.66,  
 Begin Renovation: brush, scarify potholes, crown, compact  
 clean ditches and culverts, 14' subgrade,  
**Rock: 4" lift of 1 1/2" minus.**  
 0.06 – Construct LODL and LODR.  
 0.15 – Keep left and Jct. with 15-1-21.1.  
 0.21 – **End 4" lift of 1 1/2" minus,**  
**Begin Spot Rock: 100 CY 1 1/2" minus.**  
 0.69 – **Apply 20 CY of the 100 CY 1 1/2" minus over stream crossing.**  
 0.73 – End renovation, keep right for 15-1-20.2.

**15-1-21.1 – Renovation Rocked Surface**

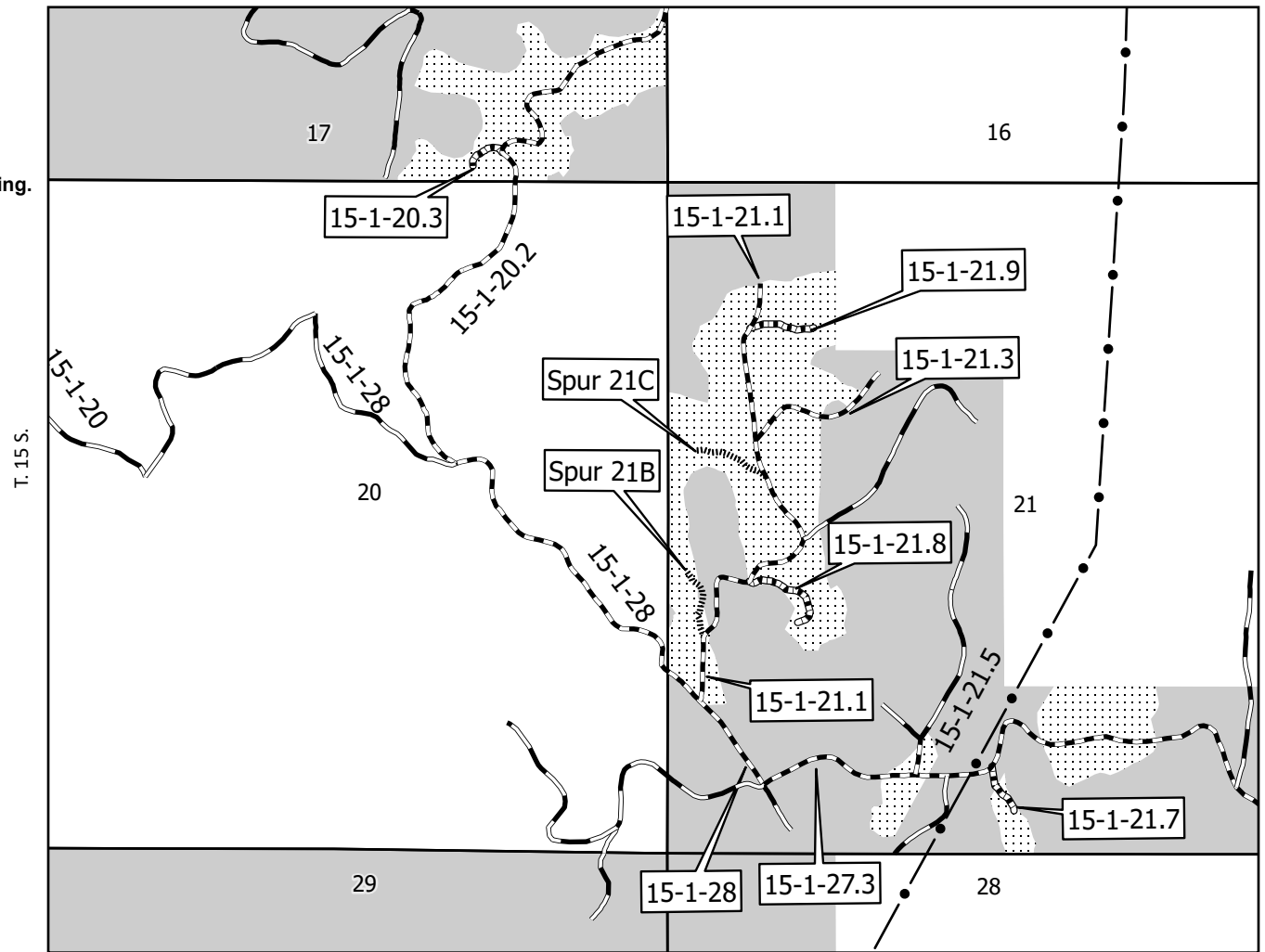
**0.00** – Keep right at Jct. with 15-1-28 at MP 0.15,  
 Begin Renovation: brush, crown, compact, clean ditches  
 and culverts, 16' subgrade, **Rock: 3" of 1 1/2" minus.**  
 0.09 – Keep right at Jct. with Spur 21B.  
 0.18 – **Place 20 CY of 3" minus over stream crossing,**  
**continue 3" lift of 1 1/2" minus over surface.**  
 0.22 – Keep left at Jct. with 15-1-21.8.  
 0.47 – Keep right at Jct. with Spur 21C.  
 0.49 – Keep left at Jct. with 15-1-21.3.  
 0.55 – Install crossdrain: 18" x 35' CPP, with splash pad.  
 0.64 – Construct TTAL, **Rock 20 CY 6" minus.**  
 0.67 – Keep left at Jct. with 15-1-21.9.  
 0.73 – End renovation.

**Spur 21B – Construction Natural Surface**

0+00 – Keep left at Jct. with 15-1-21.1 at MP 0.09,  
 Begin Construction: clear, grub, crown with ditches  
 16' subgrade, natural surface.  
 1+70 – Construct LODL and LODR.  
 3+06 – Construct LODR.  
 4+25 – Construct TTAR.  
 7+79 – Begin lading taper.  
 8+44 – End landing, end renovation.

**15-1-21.8 – Construction Rocked Surface**

0+00 – Keep right at Jct. with 15-1-21.1 at MP 0.22,  
 Begin Construction: clear, grub, crown with ditches,  
 16' subgrade, **Rock: 9" of 3" minus.**  
 1+10 – Install crossdrain: 18" x 30' CPP with splash pad,  
 do not skew.  
 2+73 – Construct LODR  
 4+41 – Construct TTAL, Rock 20 CY 6" minus.  
 7+41 – Begin taper to 40' x 40' landing,  
**Change in Rock: 12" of 6" minus.**  
 8+03 – Continue drainage around landing,  
 end construction, end landing.



	Construction Rocked		Segment Break
	Construction Natural		Segment Label
	Renovation		Gate
	Existing Rocked		Stockpile Site
	Existing Paved		Quarry
	Harvest Area		
	BLM Land		
	Private Land		
	Power Line		

<b>UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT</b>	
NORTHWEST OREGON DISTRICT	SPRINGFIELD OREGON
SECTION MAP & WORKLIST Power Play Timber Sale T. 15 S., R. 1 W., Section 21	
DRAWN: S. MCCAULEY	NO SCALE
DATE: February 2026	SHEET: 34 OF 46

\*TTA = Truck Turnaround, \*TO = Turnout, \*LOD = Lead Out Ditch

**Spur 21C – Construction Natural Surface**

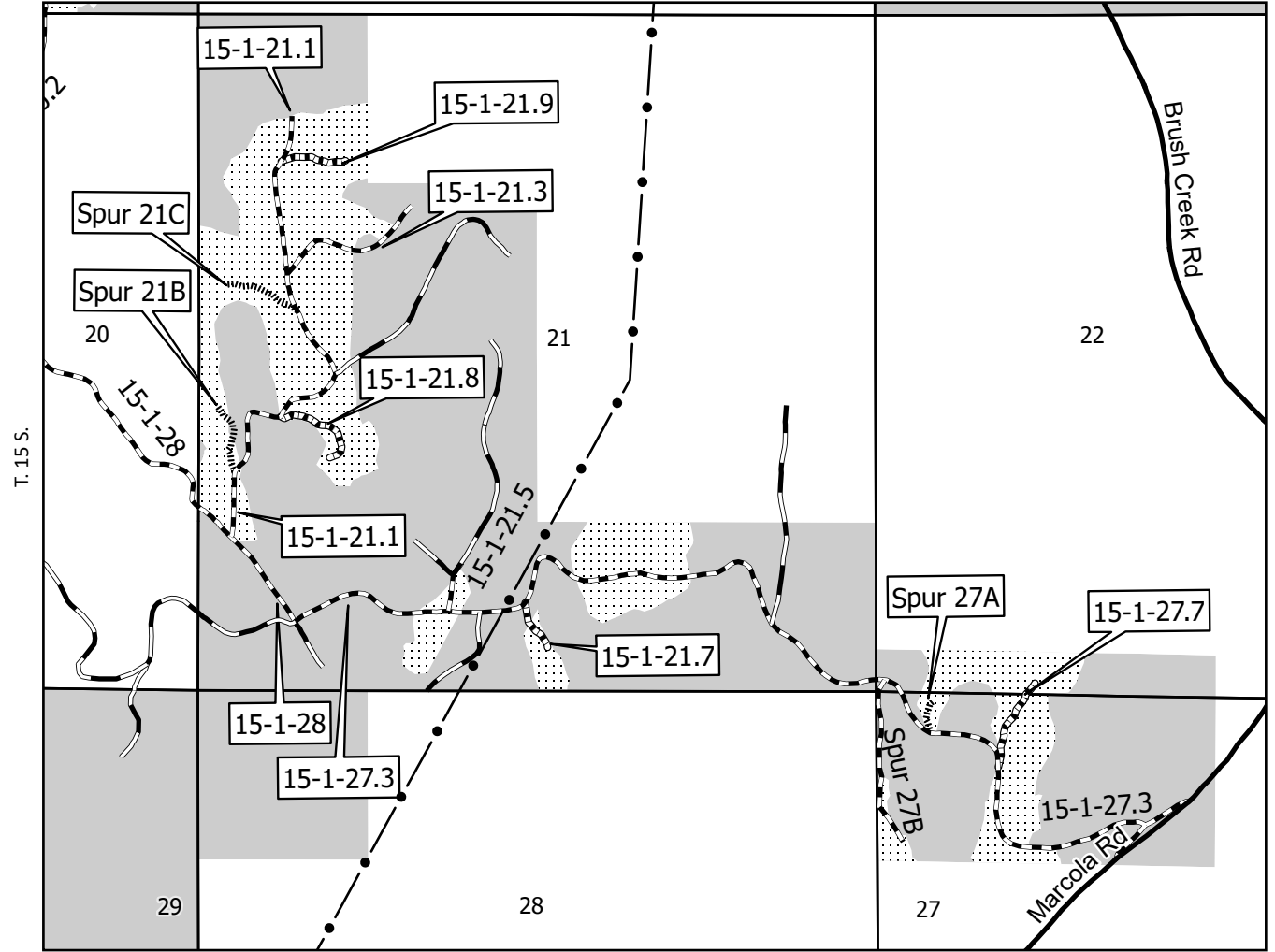
0+00 – Keep left at Jct. with 15-1-21.1 at MP 0.47,  
 Begin Construction: clear, grub, crown with ditches,  
 16' subgrade, natural surface.  
 3+78 – Construct TTAL.  
 5+70 – Begin taper to 40' x 40' landing.  
 6+35 – Continue drainage around landing,  
 end landing, end construction.

**15-1-21.3 – Renovation Rocked Surface**

0+00 – Keep right at Jct. with 15-1-21.1 at MP 0.49,  
 Begin Renovation: brush, crown, compact, clean ditches,  
 16' subgrade.  
 0+56 – Level earthen barricade, **Rock over leveled barricade:  
 20 CY 3" minus.**  
 6+64 – Install crossdrain: 18" x 30 CPP with splash pad,  
 do not skew. **Rock over crossdrain: 20 CY of 3" minus.**  
 10+31 – Level earthen barricade, **Rock over leveled barricade:  
 20 CY of 3" minus.**  
 11+62 – End renovation.

**15-1-21.9 – Construction Rocked Surface**

0+00 – Keep right at Jct. with 15-1-21.1 at MP 0.67.  
 Begin Construction: clear, grub, crown with ditches,  
 16' subgrade, **Rock: 5" of 3" minus base,  
 4" of 1 1/2" minus surface.**  
 0+10 – Install crossdrain at Jct. in existing ditch with 15-1-21.1:  
 18" x 35' CPP.  
 1+53 – Construct LODL and LODR.  
 2+83 – Switch to outsloped subgrade.  
 5+04 – Begin taper to 40' x 40' landing, **Change in Rock:  
 12" of 6" minus.**  
 5+69 – End landing, end construction.



	Construction Rocked		Segment Break
	Construction Natural		Segment Label
	Renovation		Gate
	Existing Rocked		Stockpile Site
	Existing Paved		Quarry
	Harvest Area		
	BLM Land		
	Private Land		
	Power Line		

<b>UNITED STATES DEPARTMENT OF THE INTERIOR</b> <b>BUREAU OF LAND MANAGEMENT</b> NORTHWEST OREGON DISTRICT <span style="float: right;">SPRINGFIELD OREGON</span>	
SECTION MAP & WORKLIST Power Play Timber Sale T. 15 S., R. 1 W., Section 21	
DRAWN: S. MCCAULEY	NO SCALE
DATE: February 2026	SHEET: 35 OF 46

\*TTA = Truck Turnaround, \*TO = Turnout, \*LOD = Lead Out Ditch

**15-1-20.2 – Renovation Rocked Surface**

0.00 – Keep right at Jct. with 15-1-28 at MP 0.73,  
 Begin Renovation: brush, scarify potholes, crown, compact  
 clean ditches and culverts, 14' subgrade,  
**Rock: 3" lift of 1 1/2" minus.**  
 0.18 – **End 3" lift of 1 1/2" minus.**  
 0.55 – **Begin 5" lift of 1 1/2" minus.**  
 0.59 – Keep right at Jct. with 15-1-20.3,  
 Begin ditch reconstruction to landing,  
 where ditch is not present,  
 excavate ditch to a minimum depth of 12".  
 1.25 – Keep right at Jct. with 15-1-20.4.  
 1.30 – **Rock over low spot at crossdrain  
 with 20 CY 3", continue with 5" lift of 1 1/2" minus over surface.**  
 1.35 – Clean culvert outlet and inlet.  
 1.68 – Install crossdrain: 18" x 35' CPP with splash pad.  
 1.73 – Keep right at Jct. with new construct Spur 20A, reconstruct ditch.  
 1.84 – **Rock over low spot with 20 CY 3" minus under  
 the 5" lift of 1 1/2" minus.**  
 1.88 – End renovation.

**15-1-20.3 – Construction Rocked Surface**

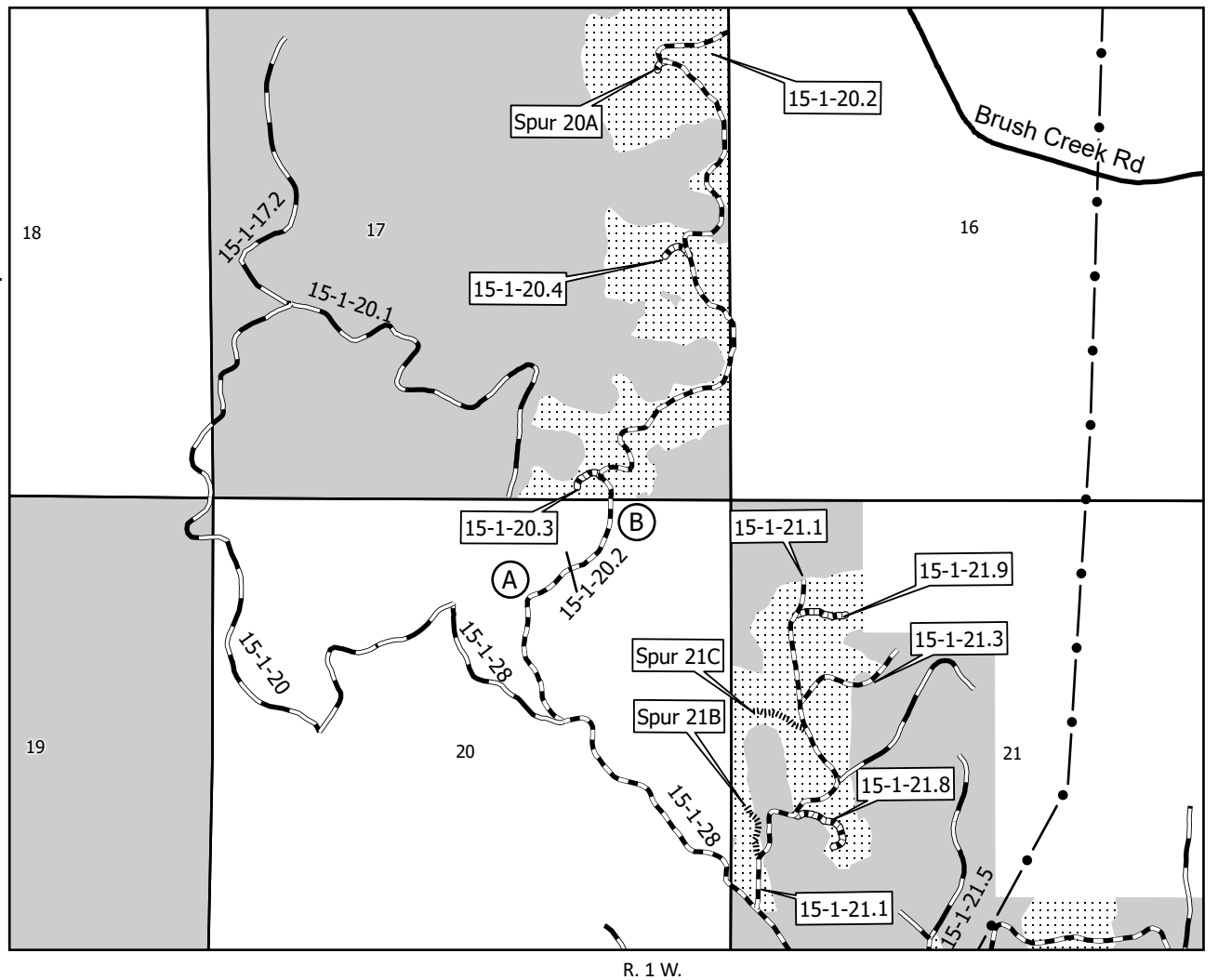
0+00 – Keep left at Jct. with 15-1-20.2 at MP 0.59,  
 Begin Construction; clear, grub, crown with ditches,  
 16' subgrade.  
**Rock: 6" of 3" minus base, 4" of 1 1/2" minus surface.**  
 1+81 – Install crossdrain: 18" x 35' CPP with splash pad.  
 2+99 – Begin taper to 40' x 40' landing,  
**Change in rock: 12" of 6" minus.**  
 3+64 – Continue drainage around landing, end landing, end construction.

**15-1-20.4 – Construction Rocked Surface**

0+00 – Keep left at Jct. 15-1-20.2 at MP 1.25,  
 Begin Construction: clear, grub, crown with ditches,  
 16' subgrade,  
**Rock: 8" of 6" minus base, 4" of 1 1/2" minus surface.**  
 2+15 – Begin taper to 40' x 40' landing,  
**Change in Rock: 12" of 6" minus.**  
 2+80 – Continue drainage around landing,  
 end landing, end construction.

**Spur 20A – Construction Rocked Surface**

0+00 – Keep left at Jct. with 15-1-20.2 at MP 1.73,  
 Begin construction: clear, grub, crown with ditches,  
 16' subgrade, **Rock: 8" of 6" minus base,  
 4" of 1 1/2" minus surface.**  
 1+02 – Begin taper to 40' x 40' landing,  
**Change in Rock: 12" of 6" minus.**  
 1+67 – Continue drainage around landing,  
 end landing, end construction.



	Construction Rocked		Segment Break
	Construction Natural		Segment Label
	Renovation		Gate
	Existing Rocked		Stockpile Site
	Existing Paved		Quarry
	Harvest Area		
	BLM Land		
	Private Land		
	Power Line		

<b>UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT</b>	
NORTHWEST OREGON DISTRICT	SPRINGFIELD OREGON
SECTION MAP & WORKLIST Power Play Timber Sale T. 15 S., R. 1 W., Sections 16, 17 and 20	
DRAWN: S. MCCAULEY	NO SCALE
DATE: February 2026	SHEET: 36 OF 46

\*TTA = Truck Turnaround, \*TO = Turnout, \*LOD = Lead Out Ditch

**16-1-5.3 – Renovation Paved/Rocked Surface**

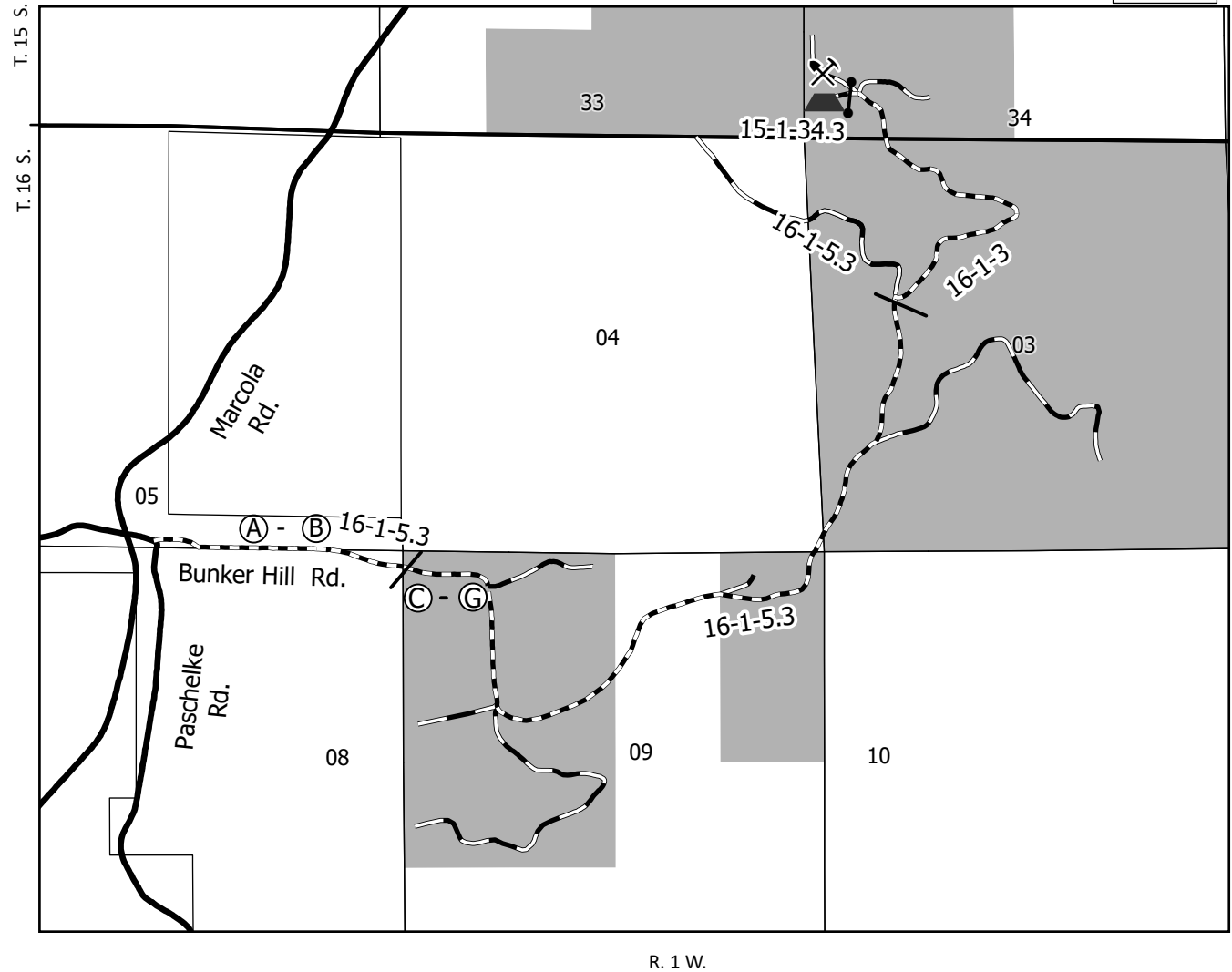
0.00 – Keep right at Jct. with Paschelke Road at MP 1.3,  
 Begin Renovation: Patch potholes with coldpatch  
 0.73 – End pavement, begin crowning,  
 compacting and cleaning ditches and culverts.  
 1.95 – End renovation.

**16-1-3 – Renovation Rocked Surface**

0.00 – Keep right at Jct. with 16-1-5.3 at MP 1.95,  
 Begin Renovation: crown, compact, clean ditches and culverts.  
 0.89 – End renovation.

**15-1-34.3 – Renovation Rocked Surface**

0.00 – Keep left at Jct. with 16-1-3 at MP 0.89,  
 Begin Renovation: crown and compact.  
 0.10 – End renovation.



Construction Rocked	Segment Break
Construction Natural	Segment Label
Renovation	Gate
Existing Rocked	Stockpile Site
Existing Paved	Quarry
Harvest Area	
BLM Land	
Private Land	

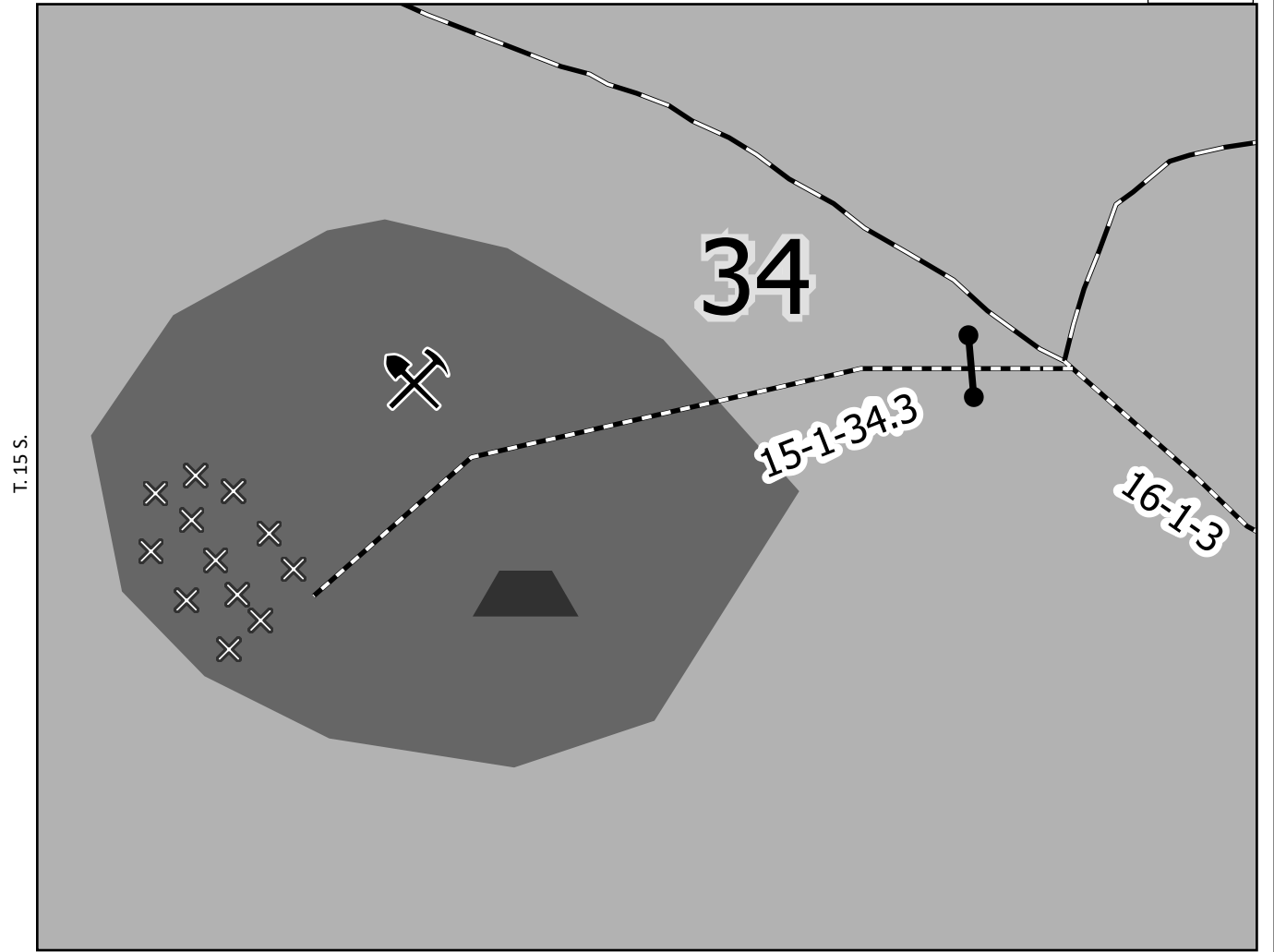
<b>UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT</b>	
NORTHWEST OREGON DISTRICT	SPRINGFIELD OREGON
SECTION MAP & WORKLIST Power Play Timber Sale T. 16 S., R. 1 W., Sections 3, 4, 5, 8, 9, 10 T. 15 S., R. 1 W., Section 34	
DRAWN: S. MCCAULEY	NO SCALE
DATE: February 2026	SHEET: 37 OF 46

\*TTA = Truck Turnaround, \*TO = Turnout, \*LOD = Lead Out Ditch

**Bunker Hill Quarry**

Develop Bunker Hill quarry in locations shown on map.

**Exhibit C**

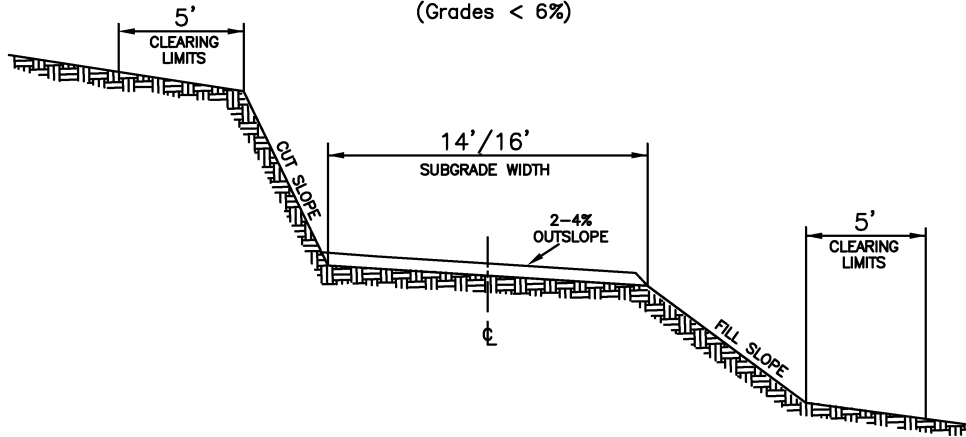


R. 1 W.

Renovation Existing Rocked Gate BLM Land Quarry Quarry Boundary Development Location Stockpile Site	<b>UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT</b>	
	NORTHWEST OREGON DISTRICT <span style="float: right;">SPRINGFIELD OREGON</span>	
	SECTION MAP & WORKLIST Power Play Timber Sale T. 15 S., R. 1 W., Section 34	
	DRAWN: S. MCCAULEY	NO SCALE
	DATE: February 2026	SHEET: 38 OF 46

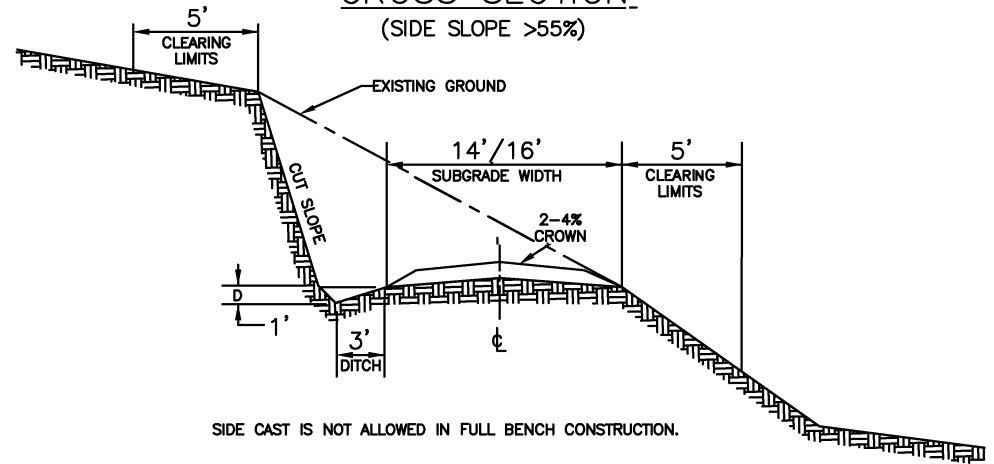
TYPICAL OUTSLOPED CROSS SECTION

(Grades < 6%)



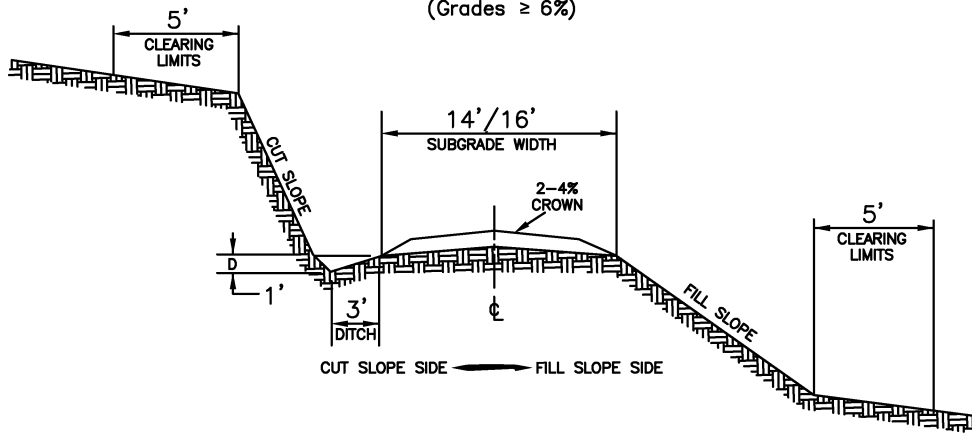
TYPICAL FULL BENCH CROSS SECTION

(SIDE SLOPE >55%)



TYPICAL CROWNED CROSS SECTION

(Grades ≥ 6%)



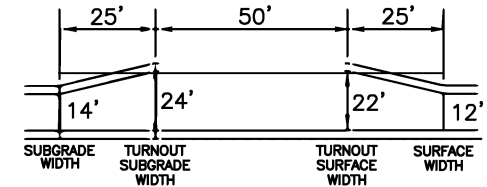
CUT SLOPE RATIO

- 1:1 COMMON, CUTS TO 6 FT.
- 1/2:1 COMMON, CUTS > 6 FT.
- 1/4:1 SOLID ROCK
- 1/4:1 SOFT ROCK OR HARDPAN

FILL SLOPE RATIO

- 1 1/2:1 COMMON
- 1 1/4:1 ROCK

TURNOUTS RIGHT OR LEFT



NOTE: TURNOUT WIDTHS CAN VARY. STANDARD IS 10 FEET ADDITIONAL WIDTH. WIDTHS SHOWN ARE FOR A 14' SUBGRADE. SEE WORKLIST FOR VARIED WIDTHS.

FILL WIDENING

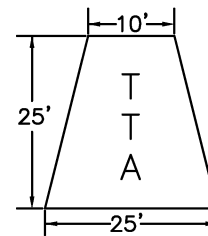
EXTRA WIDENING REQUIRED ON ALL FILL SLOPES.  
 ADD 1 FT. WHEN 'H' IS LESS THAN 6 FT.  
 ADD 2 FT. WHEN 'H' IS 6 FT. OR MORE.  
 (SUBGRADE ONLY)

CURVE WIDENING

$$CW = 400/R$$

R = CURVE RADIUS (FT)  
 CW = CURVE WIDENING (FT)

TRUCK TURNAROUND

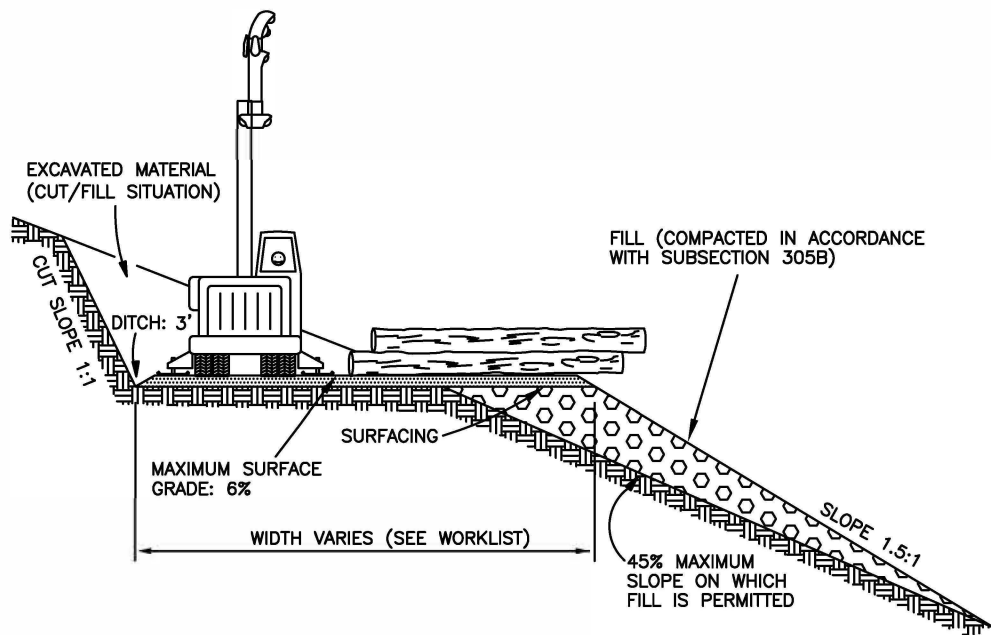
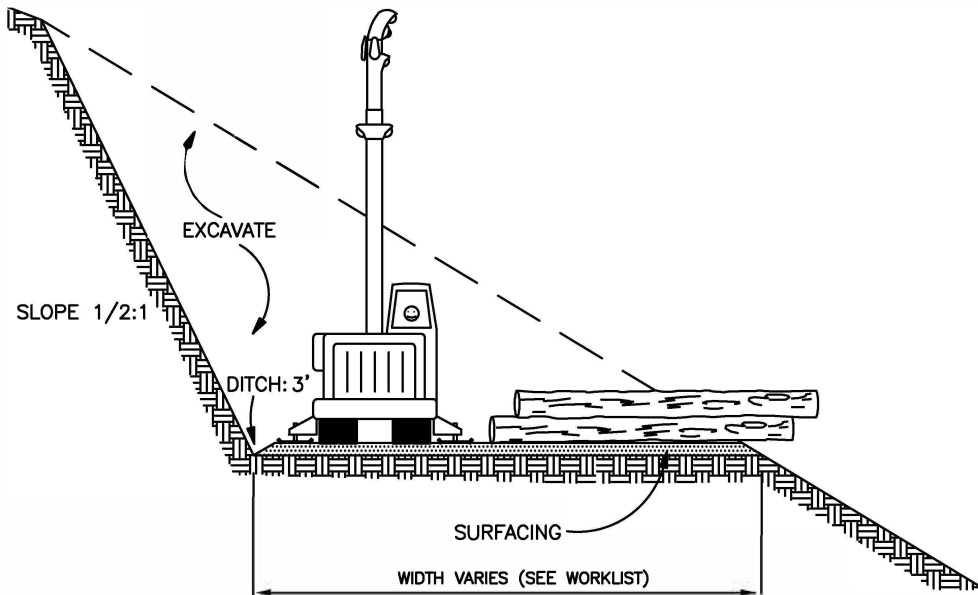


ALWAYS THINK **SAFETY**

- NOTES:
- 1) THROUGH CUTS SHALL CONFORM TO CUT SLOPE SIDE OF THE TYPICAL CROWNED CROSS SECTION.
  - 2) THROUGH FILLS SHALL CONFORM TO FILL SLOPE SIDE OF THE TYPICAL CROWNED CROSS SECTION.
  - 3) CURVE WIDENING SHALL BE APPLIED TO THE INSIDE OF ALL CURVES UNLESS OTHERWISE SPECIFIED.

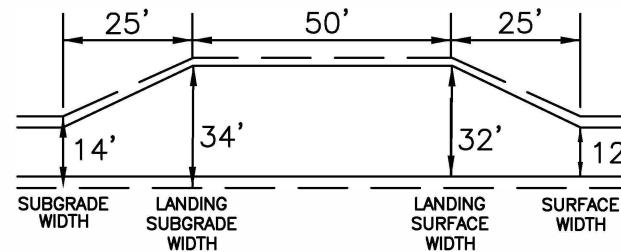
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
NORTHWEST OREGON DISTRICT	SPRINGFIELD, OREGON
TYPICAL SUBGRADE CROSS SECTIONS, TURNOUTS, TRUCK TURNAROUNDS, AND FILL WIDENING	
DRAWN: S. McCAULEY	SCALE: NOT TO SCALE
DATE: March 2026	SCALE SHEET: 39 of 46

TYPICAL FULL BENCH LANDING CONSTRUCTION CROSS SECTION



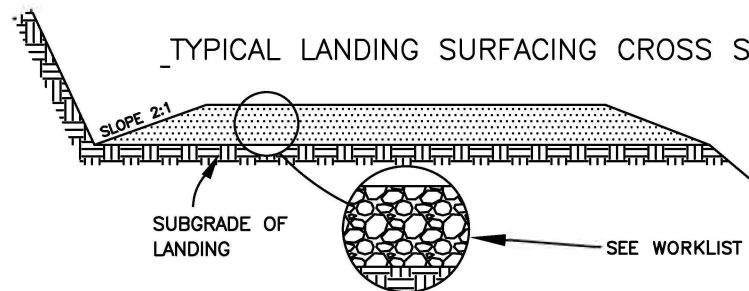
TYPICAL LANDING CONSTRUCTION CROSS SECTION

ROADSIDE LANDINGS RIGHT OR LEFT

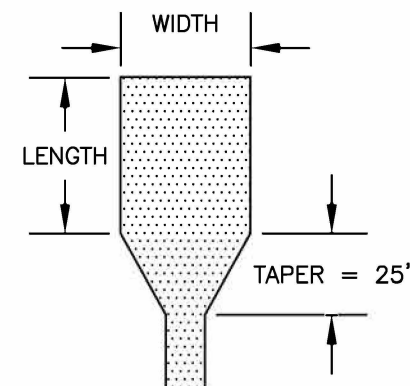


NOTE: ROADSIDE LANDING WIDTHS CAN VARY. STANDARD IS 20 FEET ADDITIONAL WIDTH. WIDTHS SHOWN ARE FOR A 14' SUBGRADE. SEE WORKLIST FOR VARIED WIDTHS.

TYPICAL LANDING SURFACING CROSS SECTION



PLAN VIEW TYPICAL LANDING CONSTRUCTION



LANDING SPECIFICATIONS

1. ALL EXCAVATED MATERIAL SHALL BE END-HAULED TO DISPOSAL AREAS AS SPECIFIED BY THE AUTHORIZED OFFICER.
2. THE LANDING LENGTH IS MEASURED PARALLEL THE ROAD WHILE THE WIDTH IS MEASURED PERPENDICULAR
3. DITCH LINES SHALL BE LEAD-OFF WHERE APPROPRIATE
4. 25' TAPER LENGTH IS INCLUDED IN THESE SPECIFICATIONS.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT NORTHWEST OREGON DISTRICT      SPRINGFIELD, OREGON	
<b>LANDING CONSTRUCTION &amp; SURFACING DETAILS</b>	
DRAWN: S. MCCAULEY	SCALE: NOT TO SCALE
DATE: March 2026	SHEET 40 of 46

# CULVERT LIST

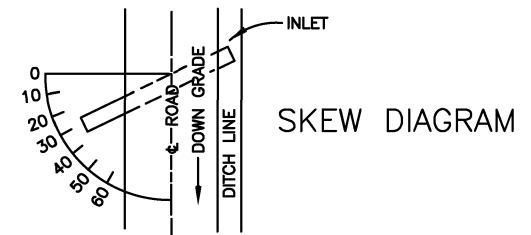
**EXHIBIT C**

CULVERT REPLACEMENTS/ADDITIONS						ENERGY DISSIPATER		REMARKS
ROAD NO. STATION OR M.P.	SIZE	LENGTH	GAUGE	SKEW ANGLE	INSTALLATION TYPE	INLET (CY)	OUTLET (CY)	
<b>Spur 27B</b>								
5+37	18"	40'	CPP	Align to Channel	1		0	Install Stream Culvert
<b>15-1-20.2</b>								
1.68	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
<b>15-1-20.3</b>								
1+81	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
<b>15-1-21.1</b>								
0.55	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
<b>15-1-21.3</b>								
6+64	18"	30'	CPP	No Skew	3		2	Install X-Drain
<b>15-1-21.7</b>								
3+79	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
<b>15-1-21.8</b>								
1+10	18"	30'	CPP	No Skew	3		3	Install X-Drain
<b>15-1-21.9</b>								
0+10	18"	35'	CPP	Inline w/ditch	3		0	Install X-Drain
<b>15-1-27.3</b>								
0.10	18"	40'	CPP	30 Degrees	3		2	Install X-Drain
0.19	18"	35'	CPP	30 Degrees	3		2	Replace X-Drain
0.45	18"	35'	CPP	30 Degrees	3		2	Replace X-Drain
0.47	24"	35'	14	Align to Channel	1		2	Replace Stream Culvert
0.54	18"	40'	CPP	No Skew	3		2	Install X-Drain
0.55	18"	30'	CPP	30 Degrees	3		2	Replace X-Drain
0.60	60"	80'	14	Align to Channel	1		5	Replace Stream Culvert
0.65	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
0.98	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
1.23	18"	30'	CPP	30 Degrees	3		2	Install X-Drain
1.44	18"	30'	CPP	30 Degrees	3		2	Replace X-Drain
1.51	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
1.65	18"	40'	CPP	Do Not Skew	3		2	Install X-Drain
<b>15-1-27.7</b>								
2+01	18"	35'	CPP	30 Degrees	3		2	Install X-Drain
3+10	18"	35'	CPP	30 Degrees	3		2	Install X-Drain

**NOTES:**

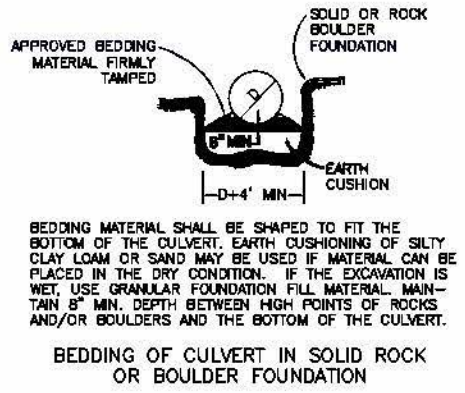
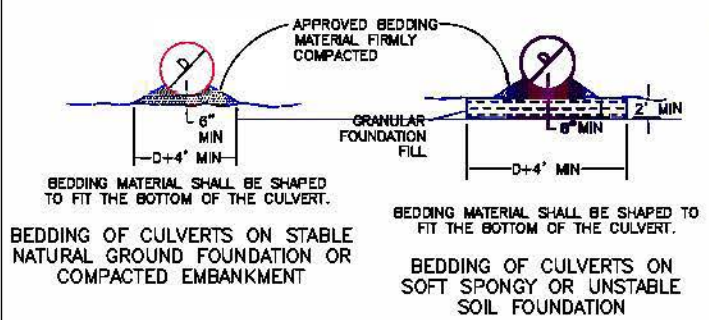
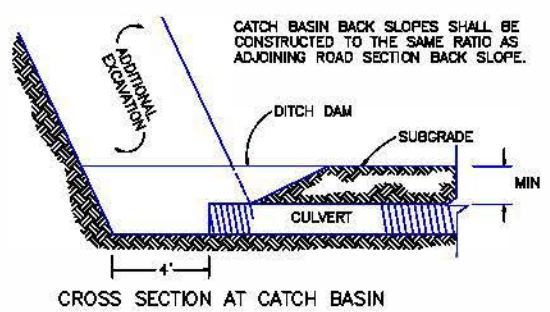
1. ALL CULVERTS SHALL BE CORRUGATED POLYETHYLENE PIPE (CPP) CONFORMING TO SPECIFICATION 405e UNLESS NOTED OTHERWISE.
2. ALL CORRUGATED METAL PIPE (CMP) CULVERTS SHALL HAVE 5"x1" CORRUGATIONS UNLESS NOTED OTHERWISE.
3. SEE CULVERT INSTALLATION DETAIL.
4. DESIGNED CULVERT LENGTHS AND LOCATIONS ARE APPROXIMATE.
5. ALL CULVERTS SHALL HAVE A MINIMUM 6" BEDDING OF 3/4" MINUS CRUSHED ROCK MATERIAL CONFORMING TO SEC. 1200 UNLESS NOTED OTHERWISE.
6. EXCESS EXCAVATED MATERIAL SHALL BE PLACED AT WASTE SITES AS DIRECTED BY THE AUTHORIZED OFFICER'S REPRESENTATIVE. END DUMPING SHALL BE PERMITTED FOR PLACEMENT OF MATERIAL. WASTE PILES SHALL BE SLOPED, SHAPED, AND OTHERWISE BROUGHT TO A NEAT AND SIGHTLY CONDITION, AS DIRECTED BY THE AUTHORIZED OFFICER'S REPRESENTATIVE. WASTE MATERIAL SHALL NOT BE PLACED ON AREAS WHERE THE MATERIAL WILL ENCROACH ON A STREAM COURSE OR OTHER BODY OF WATER.
7. ARMOR/ENERGY DISSIPATORS = 2-3 LCY JAW RUN

SUMMARY	Total (FT)
18" Corrugated Poly Pipe	730
24" Corrugated Metal Pipe	35
60" Corrugated Metal Pipe	80

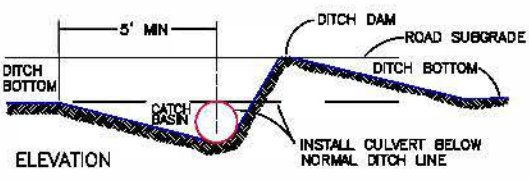
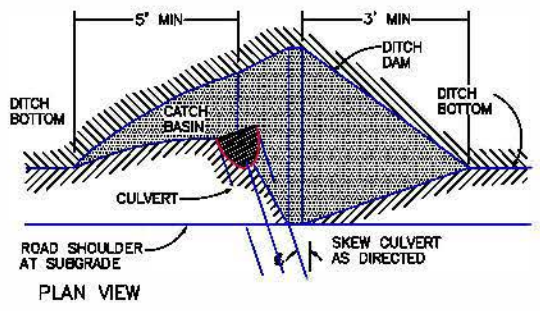


**ALWAYS THINK SAFETY**

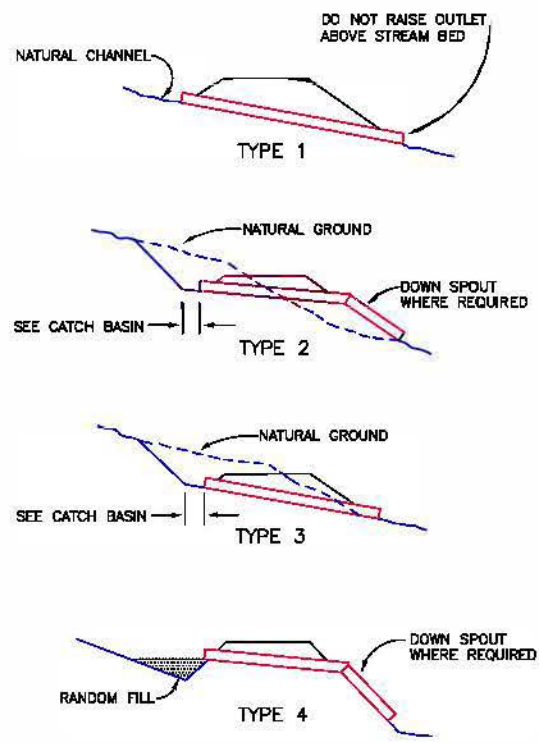
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
NORTHWEST OREGON DISTRICT	SPRINGFIELD, OREGON
<b>CULVERT SUMMARY</b>	
DRAWN: S. McCauley	SCALE: NO SCALE
DATE: February 2026	SHEET: 41 of 46



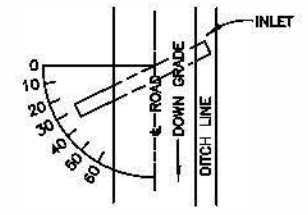
CULVERT BEDDING DETAILS



CATCH BASIN DETAIL



CULVERT INSTALLATION TYPES

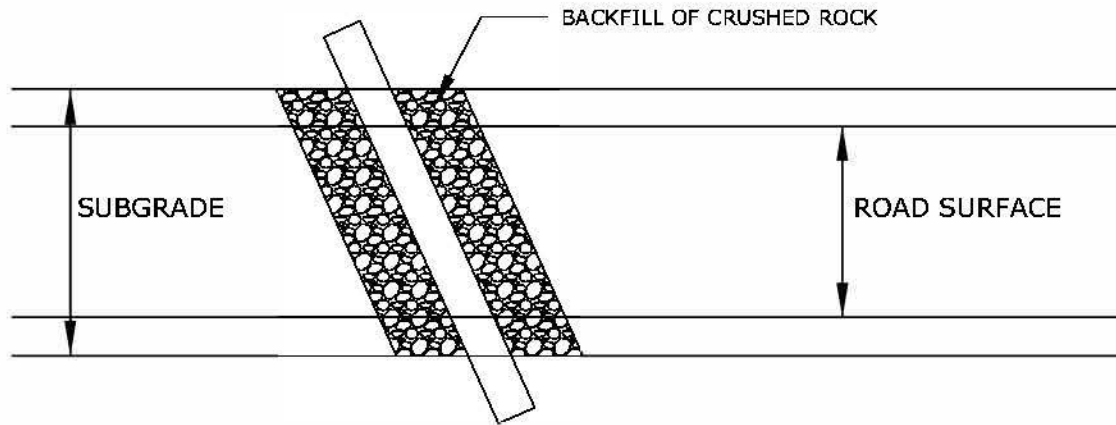


THE GRADE OF CROSSDRAINS SHALL BE AT LEAST 2% GREATER THAN THE GRADE OF THE DITCH.

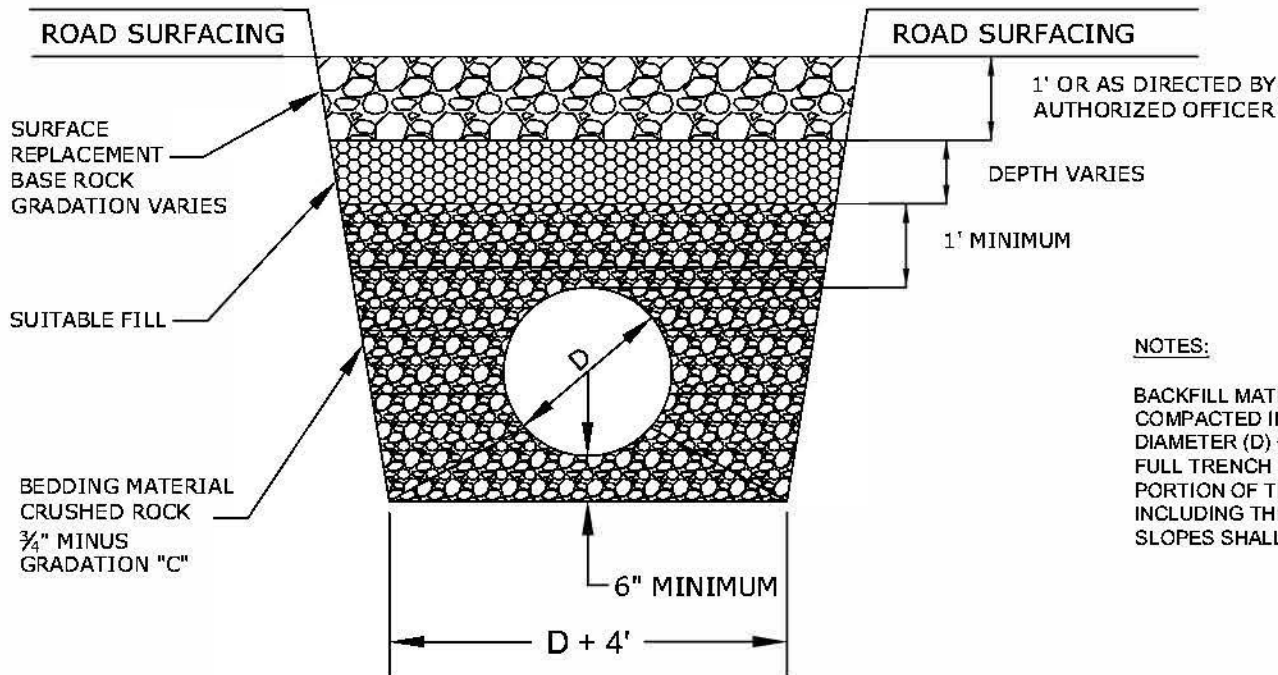
SKEW DIAGRAM



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT NORTHWEST OREGON DISTRICT      SPRINGFIELD, OREGON	
<b>CULVERT INSTALLATION DETAILS</b>	
DRAWN: S. MCCAULEY	SCALE: NOT TO SCALE
DATE: March 2026	SHEET: 42 of 46



PLAN VIEW



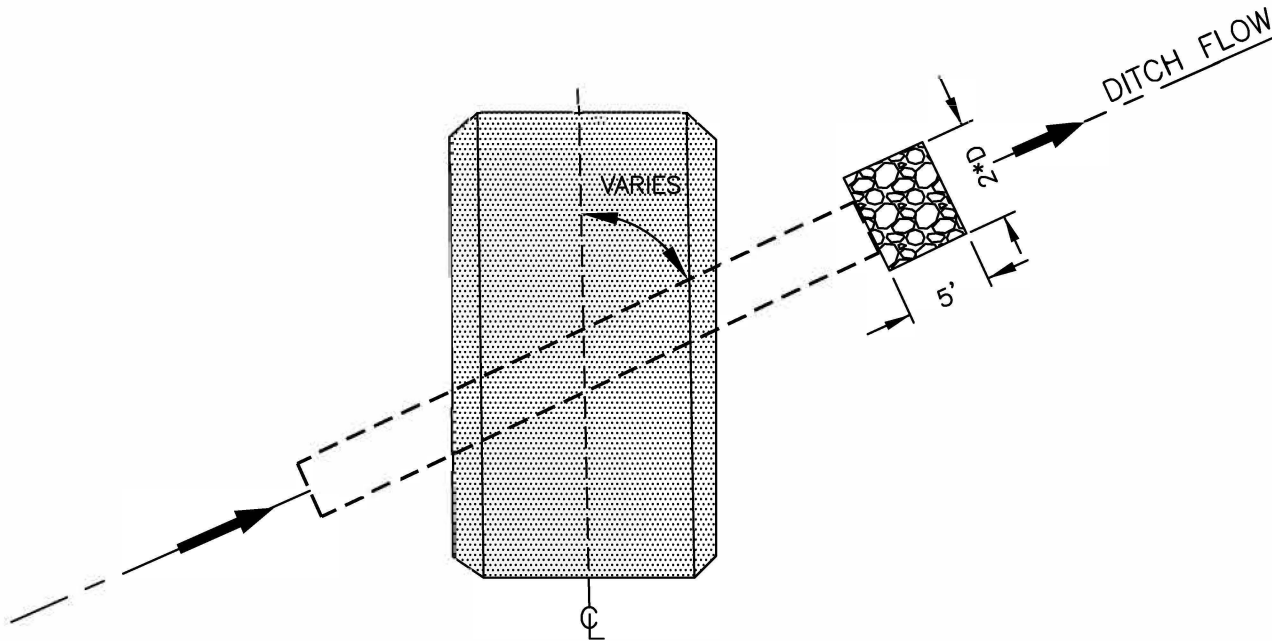
PROFILE VIEW

NOTES:

BACKFILL MATERIAL SHALL BE 3/4" MINUS CRUSHED ROCK COMPACTED IN LAYERS OF 6" MAXIMUM DEPTH, ONE PIPE DIAMETER (D) OR MINIMUM OF 2' WIDTH ON EACH SIDE, FOR THE FULL TRENCH LENGTH. THE MINIMUM DEPTH OVER ANY PORTION OF THE PIPE SHALL BE 1' OF CRUSHED ROCK, NOT INCLUDING THE CRUSHED ROCK FOR THE ROAD. ALL SIDE SLOPES SHALL CONFORM TO OSHA REGULATIONS.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT NORTHWEST OREGON DISTRICT      SPRINGFIELD, OREGON	
<b>CULVERT BEDDING &amp; BACKFILL DETAILS</b>	
DRAWN: S, MCAULEY	SCALE: NOT TO SCALE
DATE: March 2026	SHEET: 43 of 46

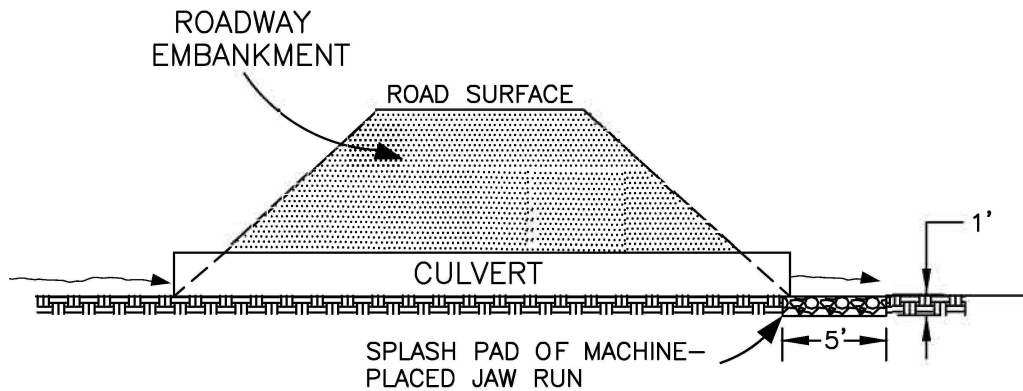




NOTES:

- 1 - SKEW ANGLES ARE MEASURED FROM THE CENTERLINE OF THE ROAD.
- 2 - APPROXIMATELY 2 CY OF JAW RUN IS NEEDED TO CREATE THE APPROPRIATE SIZED SPLASH PAD FOR A CROSS DRAIN.

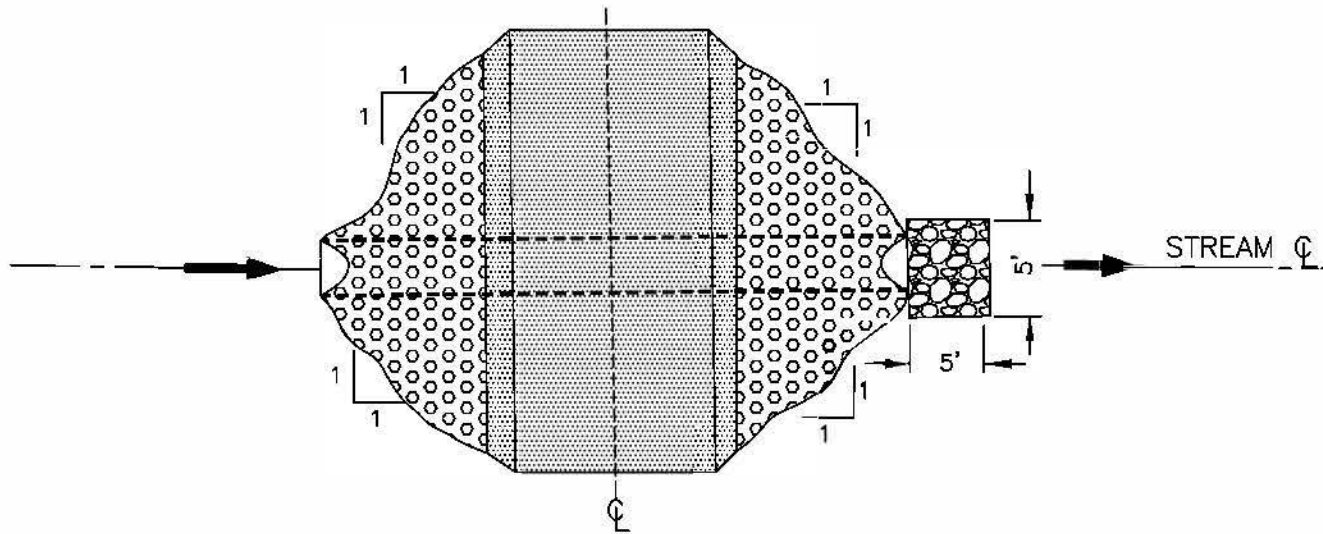
CROSS DRAIN SLOPE PROTECTION PLAN VIEW



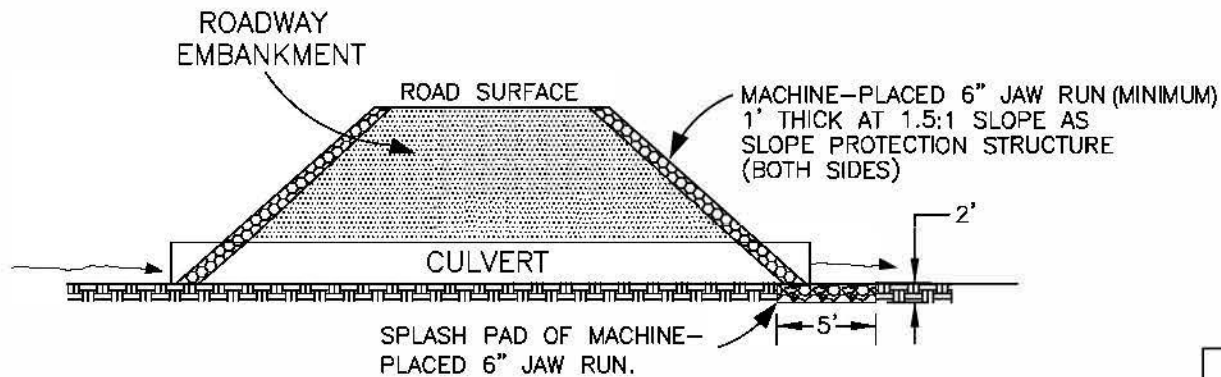
CROSS DRAIN SLOPE PROTECTION PROFILE VIEW



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
NORTHWEST OREGON DISTRICT	SPRINGFIELD, OREGON
CROSS DRAIN SLOPE PROTECTION DETAILS	
DRAWN: S. MCCAULEY	SCALE: NOT TO SCALE
DATE: March 2026	SHEET: 44 of 46



SLOPE PROTECTION PLAN VIEW



SLOPE PROTECTION PROFILE VIEW

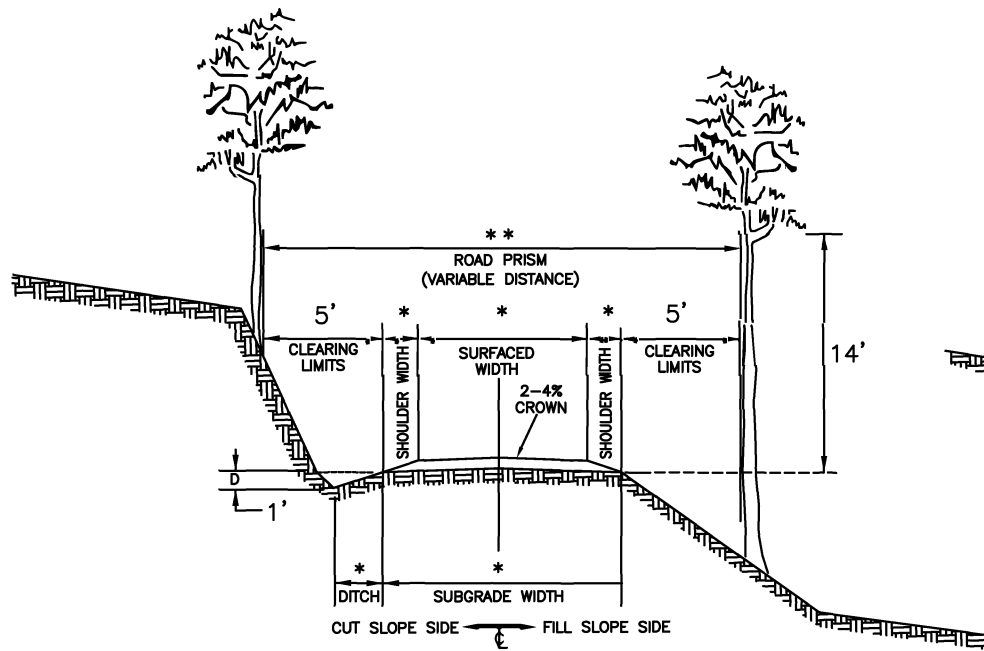
UNITED STATES DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT  
 NORTHWEST OREGON DISTRICT      SPRINGFIELD, OREGON

STREAM CULVERT ARMORING DETAILS

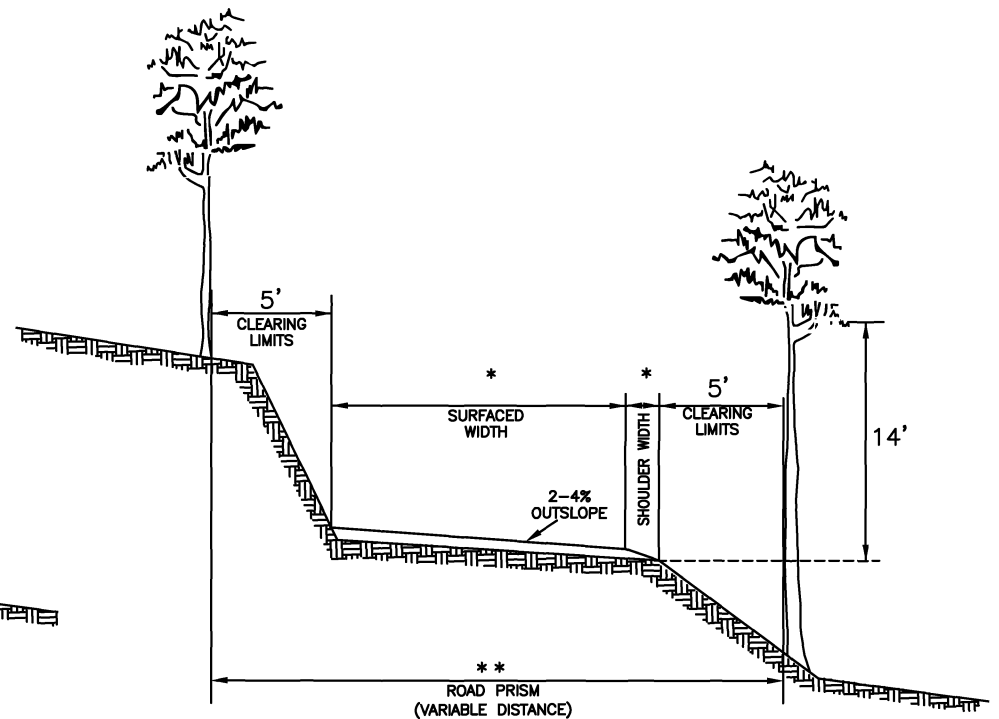
DRAWN: S. MOCALLEY      SCALE: NOT TO SCALE  
 DATE: March 2026      SHEET: 45 of 46



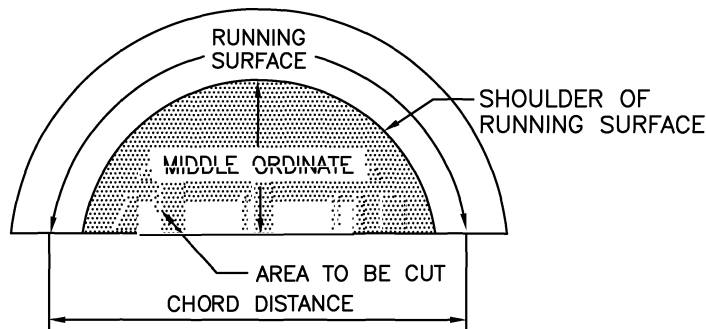
BRUSHING  
TYPICAL CROWNED CROSS SECTION



BRUSHING  
TYPICAL OUTSLOPED CROSS SECTION



SIGHT DISTANCE  
DIAGRAM



- \* VARIABLE DISTANCE BETWEEN RUNNING SURFACE AND START OF FILL AND CUT SLOPE
- \*\* ALL AREAS WITHIN THE VARIABLE DISTANCE SHALL BE FREE OF ALL VEGETATION CAPABLE OF GROWING 1 FOOT IN HEIGHT OR HIGHER AND ALL OVERHANGING LIMBS AND BRANCHES 14 FEET IN ELEVATION ABOVE THE SUBGRADE.

NOTES:

- 1) BRUSHING OF THROUGH CUTS SHALL CONFORM TO CUT SLOPE SIDE OF THE TYPICAL CROWNED CROSS SECTION.
- 2) BRUSHING OF THROUGH FILLS SHALL CONFORM TO FILL SLOPE SIDE OF THE TYPICAL CROWNED CROSS SECTION.

**ALWAYS THINK SAFETY**

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
NORTHWEST OREGON DISTRICT      SPRINGFIELD, OREGON

ROADSIDE BRUSHING DETAIL

DRAWN: S. MCAULEY	SCALE: NOT TO
DATE: March 2026	SCALE SHEET: 46 of 46

### ROAD MAINTENANCE SPECIFICATIONS

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

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

### SPECIAL PROVISIONS

1. The Purchaser shall clean road maintenance equipment to remove dirt and plant debris that may contain noxious weed seeds from the undercarriage, tracks, and tire treads prior to entry on BLM lands.
2. The Purchaser will be required to crush and stockpile 600 CY of 1-1/2" minus, 400 CY of 3" minus rock to be used for maintenance during hauling as well as final road maintenance. 200 CY of 1-1/2" minus and 200 CY of 3" minus rock shall be used by the Purchaser for maintenance on roads listed in Section 44(b)(7) and the remaining rock shall be stockpiled separately, to be used by the BLM for maintenance on roads listed in Section 44(b)(6). Additional road reinforcement (rocking) may be required for wet weather haul and will be at the Purchaser's expense.

### GENERAL - 3000

- 3001 — The Purchaser shall be required to maintain all roads listed and/or referenced in Section 44(b)(7), Special Provisions and as shown on the Exhibit map of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3001a — The Purchaser shall be required to provide maintenance on roads in accordance with Subsection 3403.
- 3002 — Purchaser shall maintain the cross section of existing native or aggregate surfaced roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
- 3003 — The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 — The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

**OPERATIONAL MAINTENANCE - 3100**

- 3101 — The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3102a — Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at their option and expense, providing the rock materials furnished conform to the requirements in Section 1200 of Exhibit C of this contract
- 3103 — The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 — The Purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a — Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.
- 3104b — The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.

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

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

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

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

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

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

- 3108 — The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.
- 3108a The Purchaser shall perform logging operations on gravel roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish gravel for necessary repairs at designated locations. Repair of the roads is not considered maintenance and shall be repaired at the Purchaser's expense.

#### **SEASONAL MAINTENANCE - 3200**

- 3201 — The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- 3202 — The Purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the 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 completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

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

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

If final maintenance is delayed after the date required in Subsection 3301 of this contract by adverse soil moisture or unsuitable equipment operating conditions, the Purchaser will be notified by the Authorized Officer when soil moisture and equipment operating conditions are suitable. The Purchaser shall then be required to complete final maintenance within 45 days.

**OTHER MAINTENANCE - 3400**

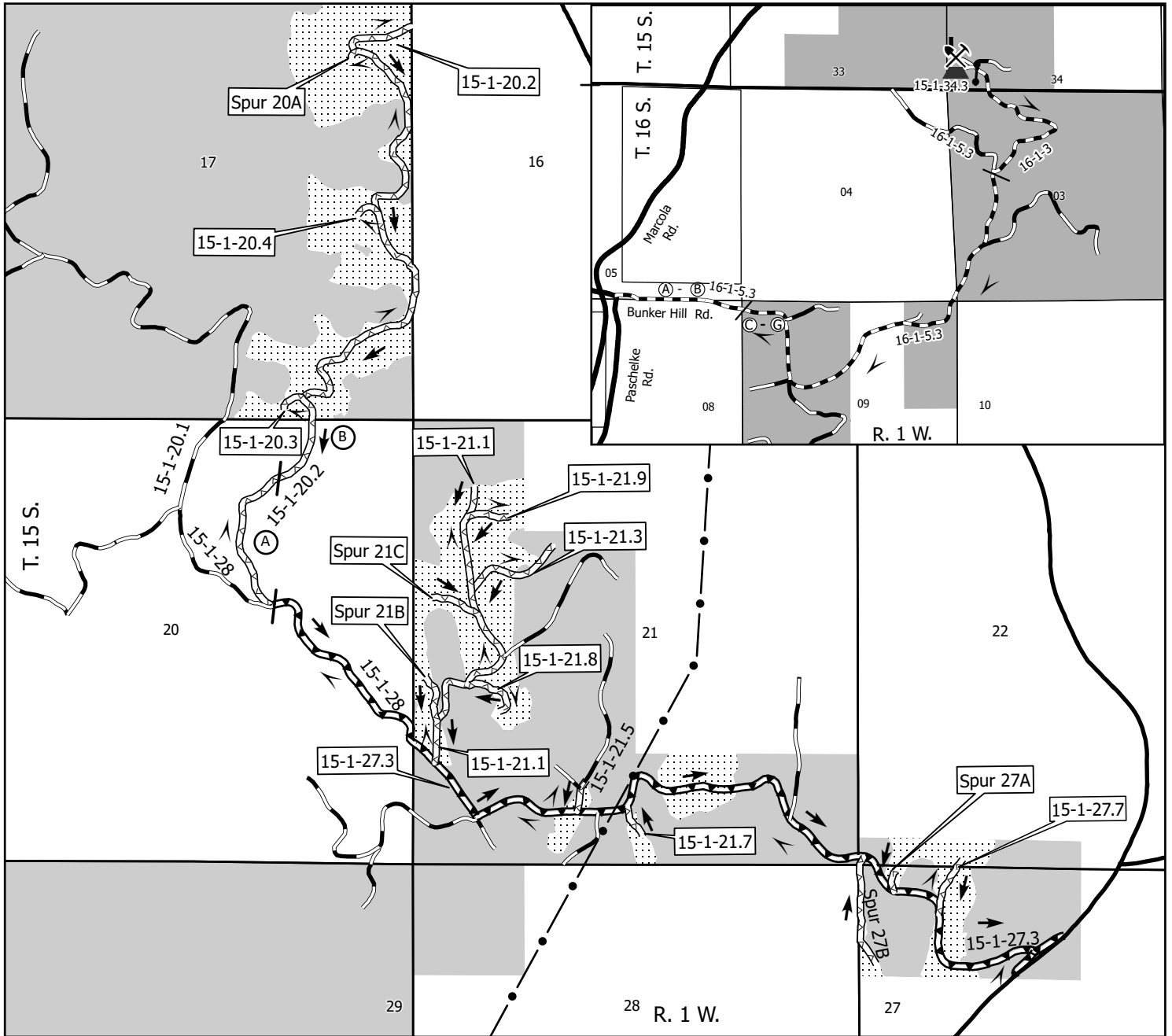
- 3401 — The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.
- 3402 — The Purchaser shall be permitted to remove ice or snow from roads authorized for use under this contract subject to the following terms and conditions:
- (aa) Snowplowing shall be performed by utilizing a motor patrol grader or similar machine as approved by the Authorized Officer. Grader blades shall be equipped with shoes, runners, or other device to keep the grader blade a minimum of four inches (4") above the road surface or Purchaser agrees to maintain the blade height as such.
  - (bb) Snow shall be plowed to the outside shoulder of the road and not into the ditchline; in through-cut sections, snow shall be plowed to the short ditchline. Snow berms created on the shoulder of the road must be swept off the road surface or day lighted to allow surface water to drain off. Ditches and culverts shall be kept functional both during and upon completion of operations.
  - (cc) Banks shall not be undercut, nor shall gravel or other surfacing material be bladed off the road.
  - (dd) No chemical and/or salt-based de-icer is allowed for use. Pea gravel or ¾" minus rock may be applied to the road surface for additional traction on iced sections, at the Purchasers expense. Traction rock shall be uniformly distributed and no greater than 1" depth.  
Purchaser shall clear road surface of traction rock as directed by the Authorized Officer.
  - (ee) Permission to remove snow/ice from Permittee maintained roads must be obtained from the Licensor prior to snow removal activities.
- 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 sources selected by the Purchaser and approved by the Authorized Officer.

Water required under these specifications shall be obtained at the times and at the locations indicated below:

Willamette Meridian

Common Name	Section	T.	R.
Crooked Creek Road	19	15 S	1 W



SALE NAME: Power Play

CONTRACT NO. ORN05-TS-2026.0575

**United States Department of the Interior  
Bureau of Land Management**  
Northwest Oregon District, Upper Willamette Field Office

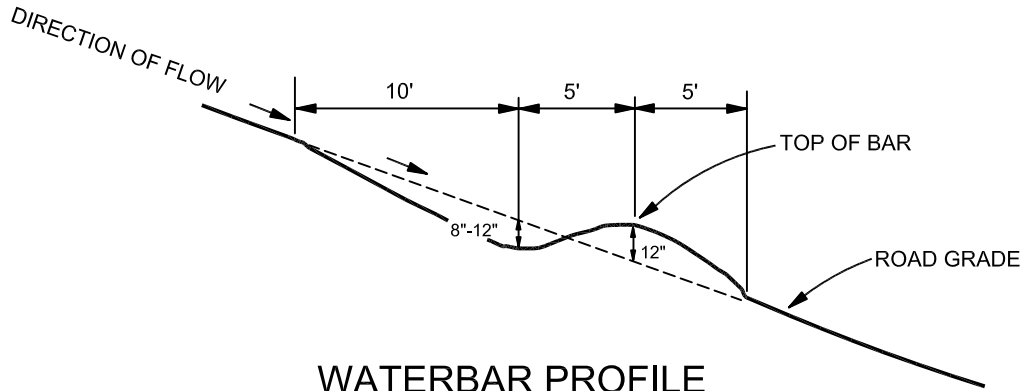
- Legend**
- Paved Road
  - BLM Maintenance
  - Purchaser Maintenance
  - Existing Roads
  - Harvest Area
  - Gate
  - Timber Haul Route
  - Mineral Haul Route
  - Segment Label
  - Segment
  - Powerline
  - Quarry
  - Stockpile Site

Road Maintenance Map

T. 15 S., R. 1 W., Secs 16, 17, 20, 21, 22, 27, and 34  
T. 16 S., R. 1 W., Secs 3, 4, 5, 8, 9  
Willamette Meridian, Lane County, Oregon

Designed By: S. McCauley  
Drawn By: S. McCauley  
Date: April 9, 2026

# EXHIBIT H

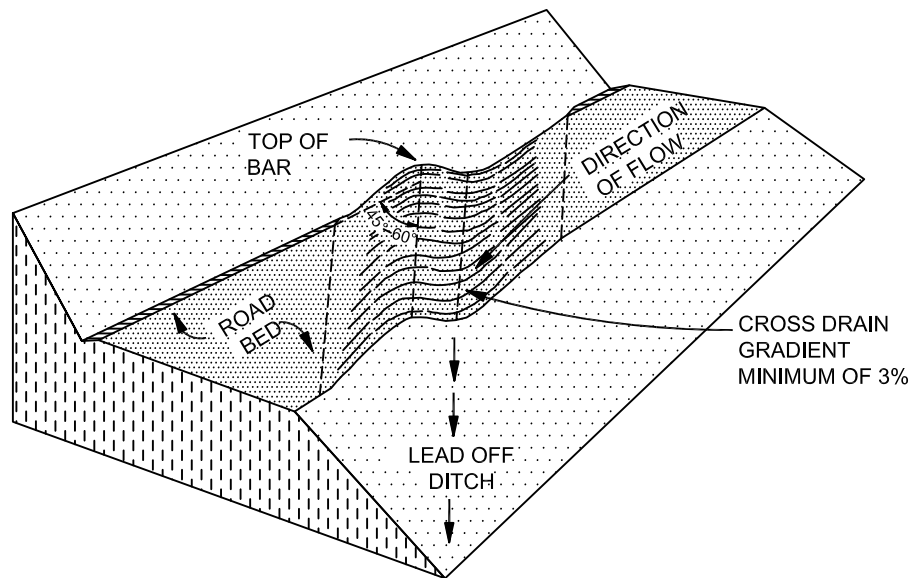


## WATERBAR PROFILE

NO SCALE

### GENERAL CONSTRUCTION SPECIFICATIONS

1. AS DIRECTED BY THE AUTHORIZED OFFICER, TRUCK ROADS, SKID TRAILS AND FIRE TRAILS CONSTRUCTED OR USED BY THE PURCHASER SHALL BE WATERBARRED AS INDICATED BELOW.
2. WATERBARS SHALL BE DUG INTO THE SURFACE OF THE ROAD OR TRAIL 8" TO 12" DEEP, SHALL BE LOCATED DIAGONALLY ACROSS THE ROAD TO HELP DRAINAGE, AND SHALL BE CUT THROUGH ANY BERM OR OBSTRUCTION TO PROVIDE AN ADEQUATE LEAD-OFF DITCH.
3. WATERBARS SHALL BE LOCATED AS DIRECTED BY THE AUTHORIZED OFFICER. A GUIDE TO AVERAGE SPACING IS PROVIDED BELOW.



## PERSPECTIVE VIEW (TYPICAL)

NO SCALE

### AVERAGE WATERBAR SPACING

<u>ROAD GRADE</u>	<u>INTERVAL</u>
0-10%	400'
10-25%	200'
25%+	100'

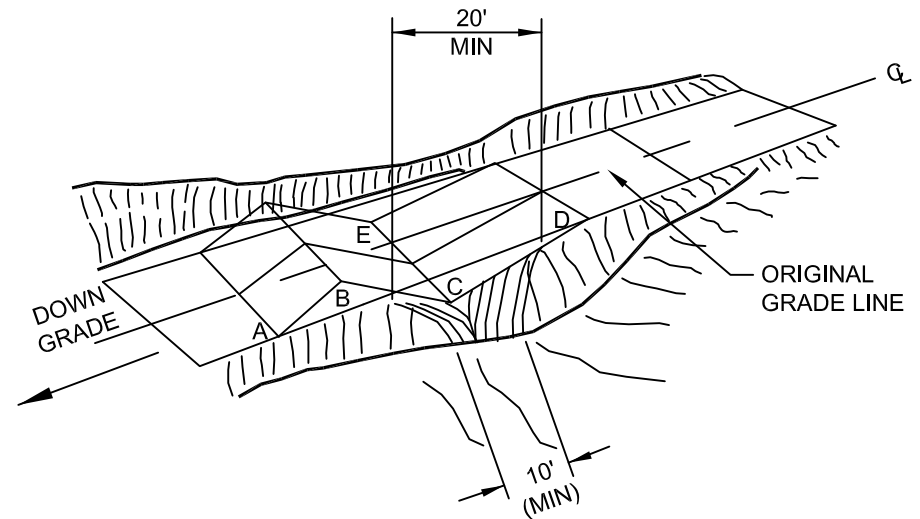
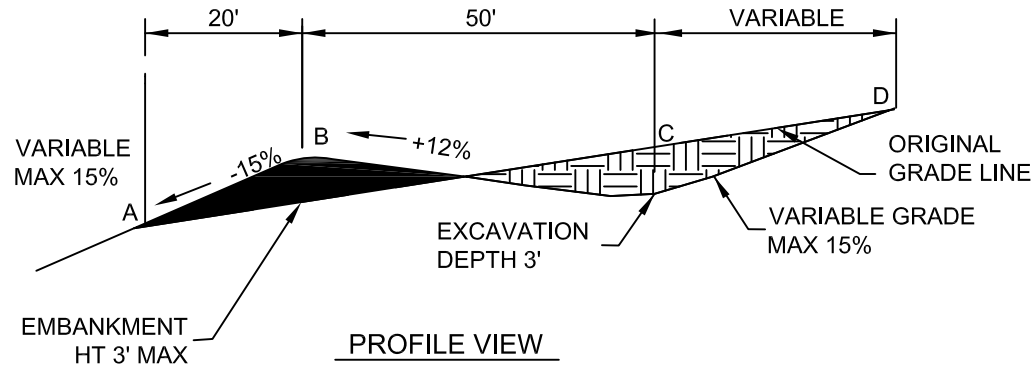
ALWAYS THINK ***SAFETY***

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
NORTHWEST OREGON DISTRICT    SPRINGFIELD, OREGON

## WATERBAR DIAGRAM

DATE: 5/10/00

# EXHIBIT H



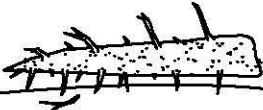

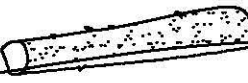


## GENERAL NOTES






1. EXCAVATION BELOW THE EXISTING GRADE LINE WILL BE USED AS EMBANKMENT ABOVE THE EXISTING GRADE LINE ON THE GRADE SIDE OF THE DRAINAGE DIP, AS SHOWN.
2. PLAN OF DIP SHOWN IS FOR AN OUTSLOPED ROLLING DIP; THE DIP SHALL DISCHARGE INTO ROLLING DIP; THE DIP SHALL DISCHARGE INTO AN OVERSIDE DRAIN OR ONTO NATURAL GROUND. THE MINIMUM CROSS GRADE FROM "E" TO "C" IS 4% GREATER THAN THE ORIGINAL ROAD GRADE, NOT TO EXCEED 15%.
3. SKEW DRAIN DIP 20 DEGREES DOWN GRADE, AS MEASURED FROM THE PERPENDICULAR TO THE CENTERLINE.

UNITED STATES DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT  
 NORTHWEST OREGON DISTRICT SPRINGFIELD, OREGON

## STANDARD DETAIL FOR BALANCED DRAIN DIP

DATE: 5/10/00

Log Characteristics	Log Decay Classes				
	1	2	3	4	5
Bark	intact	intact	trace	absent	absent
Twigs<3cm	present	absent	absent	absent	absent
Texture	intact	intact to partly soft	intact to partly soft	small, soft blocky pieces	soft and powdery
Shape	round	round	round	round to oval	oval
Color of wood	original color	original color	original color to faded	light brown to faded brown or yellowish	faded to light yellow or gray
Portion of log on ground	log elevated on support points	log elevated on support points but sagging slightly	log is sagging near ground	all of log on ground	all of log on ground
					

Snag Characteristics	Snag Decay Classes				
	1	2	3	4	5
Bark	Tight, intact	50% loose or missing	75% missing	75% missing	75% missing
Decay	Minor	None to advanced	Early stage of decay to advanced	Early stage of decay to advanced	Crumbly
Sapwood Decay	None to early stage of decay	None to early stage of decay	None to 25% decay	25% + decay	50% + advanced decay
Limbs	Mostly present	Small limbs	Few remain	Few remain	Absent
Top Breakage	May be present	May be present	1/3 may be missing	1/3 to 1/2 missing	1/2 + missing
Bole Form	Intact	Intact	Mostly intact	Loosing form, soft	Form mostly lost
					



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

**Timber Appraisal**

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<b>Sale Name:</b> Power Play	<b>Sale Date:</b> Thursday, June 25, 2026
<b>BLM District:</b> NW Oregon DO	<b>Unit of Measure:</b> 16' MBF
<b>Contract #:</b> ORN05-TS-2026.0575	<b>Contract Term:</b> 36 months
<b>Sale Type:</b> Advertised	<b>Contract Mechanism:</b> 5450-003 Lump Sum Sale of Timber and other Wood Products

**SBA Set-Aside**

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**Content**

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

**Prepared By:** Dotson, Bryan J - 5/5/2026

**Approved By:** Rainey, Matthew D - 5/11/2026

## Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Lane	15 S	1 W	17	NE1/4, NE1/4SE1/4, S1/2SE1/4	Willamette
O&C	Lane	15 S	1 W	21	W1/2NW1/4, SE1/4NW1/4, SW1/4, SW1/4SE1/4	Willamette
O&C	Lane	15 S	1W	22	S1/2S1/2SW1/4SW1/4, W1/2S1/2S1/2SE1/4SW1/4	Willamette
O&C	Lane	15 S	1 W	27	N1/2NW1/4	Willamette

## Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	7,176.0	7,531.0	7,545.0	72,844	233	11,539
Western Hemlock	583.0	647.0	663.0	5,808	97	1,006
Grandfir	140.0	150.0	150.0	1,288	10	177
Western Redcedar	28.0	32.0	39.0	247	31	51
<b>Totals</b>	<b>7,927.0</b>	<b>8,360.0</b>	<b>8,397.0</b>	<b>80,187</b>	<b>371</b>	<b>12,773</b>

## Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
207.0	0.0	3.5	210.5	37.7

**Logging Costs**

Stump to Truck	\$1,182,955.54
Transportation	\$438,900.00
Road Construction	\$414,213.22
Maintenance/Rockwear	\$70,335.02
Road Use	\$7,808.00
Other Allowances	\$116,064.28
<b>Total:</b>	<b>\$2,230,276.06</b>
<b>Total Logging Cost per MBF:</b>	<b>\$281.35</b>

**Utilization Centers**

<u>Location</u>	<u>Distance</u>	<u>% of Net Volume</u>
Fall Creek, OR	28.0 miles	100%

**Profit & Risk**

Profit	11%
Risk	0%
<b>Total Profit &amp; Risk</b>	<b>11%</b>

**Tract Features**

<b>Quadratic Mean DBH</b>	20.8 in
<b>Average GM Log</b>	104 bf
<b>Average Volume per Acre</b>	37.7 mbf
<b>Recovery</b>	94%
<b><u>Net MBF volume:</u></b>	
<b>Green</b>	7,927.0 mbf
<b>Salvage</b>	0 mbf
<b>Export</b>	0 mbf
<b><u>Ground Base Logging:</u></b>	
<b>Percent of Sale Volume</b>	63%
<b>Average Yarding Slope</b>	15%
<b>Average Yarding Distance</b>	175 ft
<b><u>Cable Logging:</u></b>	
<b>Percent of Sale Volume</b>	37%
<b>Average Yarding Slope</b>	35%
<b>Average Yarding Distance</b>	300 ft
<b><u>Aerial Logging:</u></b>	
<b>Percent of Sale Volume</b>	0%
<b>Average Yarding Slope</b>	0%
<b>Average Yarding Distance</b>	0 ft

**Cruise**

<b>Cruise Completed</b>	December 2025
<b>Cruised By</b>	Dotson, Cranmer, Maynard
<b>Cruise Method</b>	

CRUISE INFORMATION: The timber volumes for Douglas-fir, western hemlock, grandfir, and western red cedar in the Regeneration Harvest Areas were based on a variable plot cruise for estimating board foot volume. Plots were measured using a 40 basal area factor for a total of 238 plots. The timber volumes for Douglas-fir in the rights-of-way were based on a 3P cruise for estimating board foot volume. The timber volumes for western hemlock and grandfir in the rights-of-way were based on a 100% cruise for estimating board foot volume. A map showing the location of the plots and sample trees is available at the Springfield Interagency Office. With respect to merchantable Douglas-fir; the average tree is 20.7" DBHOB; the average log contains 103 bd. ft.; the total gross merchantable volume is approximately 7,531 MBF; and 95% recovery is expected.

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value (\$)
Douglas Fir	11,539	7,176.0	\$677.28	\$74.50	\$281.35	\$0.00	\$321.40	\$2,306,366.40
Western Hemlock	1,006	583.0	\$456.80	\$50.25	\$281.35	\$0.00	\$125.20	\$72,991.60
Grandfir	177	140.0	\$462.44	\$50.87	\$281.35	\$0.00	\$130.20	\$18,228.00
Western Redcedar	51	28.0	\$923.20	\$101.55	\$281.35	\$0.00	\$540.30	\$15,128.40
<b>Totals</b>	<b>12,773</b>	<b>7,927.0</b>						<b>\$2,412,714.40</b>

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			1.0%	81.0%	17.0%	1.0%	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				78.0%	22.0%		

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Grandfir				79.0%	21.0%		

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill			Camp Run
Western Redcedar							100.0%

**Power Play****Unit Summary****ORN05-TS-2026.0575****Unit: RH 1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	3,568.0	3,744.0	3,751.0	5,741
Western Hemlock	293.0	325.0	333.0	505
Western Redcedar	14.0	16.0	20.0	26
Grandfir	4.0	5.0	5.0	5
<b>Totals:</b>	<b>3,879.0</b>	<b>4,090.0</b>	<b>4,109.0</b>	<b>6,277</b>

**Net Volume/Acre: 36.9 MBF**

Regeneration Harvest	105.0
Partial Cut	0.0
Right of Way	0.0
<b>Total Acres:</b>	<b>105.0</b>

**Unit: RH 2**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	2,684.0	2,817.0	2,822.0	4,319
Western Hemlock	220.0	245.0	251.0	381
Grandfir	134.0	143.0	143.0	170
Western Redcedar	11.0	12.0	15.0	19
<b>Totals:</b>	<b>3,049.0</b>	<b>3,217.0</b>	<b>3,231.0</b>	<b>4,889</b>

**Net Volume/Acre: 38.6 MBF**

Regeneration Harvest	79.0
Partial Cut	0.0
Right of Way	0.0
<b>Total Acres:</b>	<b>79.0</b>

**Unit: RH 3**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	781.0	820.0	822.0	1,257
Western Hemlock	64.0	71.0	73.0	111
Western Redcedar	3.0	4.0	4.0	6
<b>Totals:</b>	<b>848.0</b>	<b>895.0</b>	<b>899.0</b>	<b>1,374</b>

**Net Volume/Acre: 36.9 MBF**

Regeneration Harvest	23.0
Partial Cut	0.0
Right of Way	0.0
<b>Total Acres:</b>	<b>23.0</b>

**Unit: ROW 1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	22.0	23.0	23.0	33
Western Hemlock	5.0	5.0	5.0	8
<b>Totals:</b>	<b>27.0</b>	<b>28.0</b>	<b>28.0</b>	<b>41</b>

**Net Volume/Acre: 45.0 MBF**

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	0.6
<b>Total Acres:</b>	<b>0.6</b>

**Unit: ROW 2**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	97.0	102.0	102.0	156
Grandfir	2.0	2.0	2.0	2
<b>Totals:</b>	<b>99.0</b>	<b>104.0</b>	<b>104.0</b>	<b>158</b>

**Net Volume/Acre: 47.1 MBF**

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	2.1
<b>Total Acres:</b>	<b>2.1</b>

**Unit: ROW 3**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	24.0	25.0	25.0	33
Western Hemlock	1.0	1.0	1.0	1
<b>Totals:</b>	<b>25.0</b>	<b>26.0</b>	<b>26.0</b>	<b>34</b>

**Net Volume/Acre: 31.3 MBF**

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	0.8
<b>Total Acres:</b>	<b>0.8</b>

Total Stump To Truck	Net Volume	\$/MBF
\$1,182,955.54	7,927.0	\$149.23

**Stump to Truck: Falling, Bucking, Yarding, & Loading**

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	GM MBF	3,077.0	\$181.37	\$558,075.49	5,000/LD, 8 Loads/Day, \$4.00 Gal, 79 Acres, Regen Harvest, Unit 1
Shovel	GM MBF	158.0	\$156.10	\$24,663.80	5,000/LD, 5 Loads/Day, \$4.00 Gal, 3.6 Acres, All ROW's, Unit 1, 2, 3
Shovel	GM MBF	5,125.0	\$116.53	\$597,216.25	5,000/LD, 11 Loads/Day, \$4.00 Gal, 128 Acres, Regen Harvest, Unit 1, 2, 3
<b>Subtotal</b>				<b>\$1,179,955.54</b>	

**Additional Costs**

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Intermediate Support	Each	10.0	\$300.00	\$3,000.00	Broken Ground
<b>Subtotal</b>				<b>\$3,000.00</b>	

**Additional Moves**

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

**Comments:**

Logging cost printouts are located in the Power Play contract office folder.

Total	Net Volume	\$/MBF
\$438,900.00	7,927.0	\$55.37

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Fall Creek, OR	28.0	Log Haul	GM MBF	8,360.0	\$52.50	\$438,900.00	100%

**Comments:**

\$105.00/hour x 2.5 Hours round trip (60min delay included for loading and unloading) = \$262.50 per trip / 5.0 mbf per load = \$52.50, SBA Natron Wood Products

**Engineering Allowances**

Total	Net Volume	\$/MBF
\$492,356.24	7,927.0	\$62.11

Cost Item	Total Cost
Road Construction:	\$414,213.22
Road Maintenance/Rockwear:	\$70,335.02
Road Use Fees:	\$7,808.00

**Comments:**

See Power Play contract office folder for Road Construction & Road Maintenance and Road Use appraisals.

Total	Net Volume	\$/MBF
\$116,064.28	7,927.0	\$14.64

### Environmental Protection

Cost item	Total Cost
Snag Creation-Basal Girdle	\$5,180.00
Snag Creation-Tree Topping	\$12,600.00
Equipment Washing	\$800.00
Snag Creation-Administrative Fee	\$1,778.00
<b>Subtotal</b>	<b>\$20,358.00</b>

### Fire Prevention & Control

Cost item	Total Cost
Slash Disposal Appraisal	\$69,477.50
<b>Subtotal</b>	<b>\$69,477.50</b>

### Logging

Cost item	Total Cost
2 Flaggers	\$12,000.00
Additional Tree Cutting	\$2,700.00
<b>Subtotal</b>	<b>\$14,700.00</b>

### Road Construction, Maintenance, Use, & Decommissioning

Cost item	Total Cost
Skid Trail/Landing Decommissioning	\$3,240.00
Road Decommissioning	\$8,288.78
<b>Subtotal</b>	<b>\$11,528.78</b>

**Comments:**

For More Information on Snag Creation: Tree Topping and Basal Girdle, Equipment Washing, Additional Tree Cutting: Submerch, 1850 Trees, Etc., Slash Disposal Appraisal Worksheet, Skid Trial/Landing Decommissioning/Special Equipment, Flaggers Needed For Logging, and Road Decommissioning appraisal. See cost sheets located in the Power Play contract office folder.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Name of Bidder
Tract Number ORN05-TS-2026.0575
Sale Name Power Play
Sale Notice (dated) 05/27/2026
BLM Office NWOD-Upper Willamette

**DEPOSIT AND BID FOR: (Check One):**

- Timber and/or Other Wood Products**  
(Examples of Other Wood Products: biomass, firewood, posts, poles, etc...)
- Vegetative Resources**  
(Examples of Vegetative Resources: boughs, pinyon nuts, cones, plants, etc...)

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input checked="" type="checkbox"/> Written Bid for Oral Auction Sale
Deadline for accepting sealed bids <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Sale commences 10:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
On (date) Place	On (date) 06/25/2026 Place 3106 Pierce Pkwy, Springfield, Oregon 97477

In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated Timber and/or Other Wood Products or Vegetative Resources on the tract specified above.

Required bid deposit is \$ 241,300.00 and is enclosed in the form of:

- cash  money order  cashier's check  certified check  bank draft
- bid bond of corporate surety on approved list of the United States Treasury  guaranteed remittance approved by the authorized officer.

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. If not otherwise specified in the advertisement, bids for less than the advertised price will not be considered. If the bid is rejected the deposit will be returned.

**BID SCHEDULE – TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES**

*NOTE: Bidders should carefully check computations in completing the Bid Schedule*

BID SUBMITTED					ORAL BID MADE	
PRODUCT & SPECIES	UNIT of MEASURE	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	PRODUCT VALUE (Quantity X Price)	UNIT PRICE	PRODUCT VALUE (Quantity X Price)
Douglas-fir	MBF	7,716	\$	\$	\$	= \$
Western hemlock	MBF	553	\$	\$	\$	= \$
Grandfir	MBF	140	\$	\$	\$	= \$
Western redcedar	MBF	28	\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
	MBF	7,927	\$	\$	\$	= \$
TOTAL PURCHASE PRICE				\$		\$

If sale contract is executed, undersigned is liable for total purchase price including all modifications executed under the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for removal may be less or more than total estimated volume or quantity shown above.

Bid submitted on *(date)*

By signing this form, the signatory is certifying the following:

- (a) The signatory is a citizen of the United States, a partnership composed wholly of such citizens, an unincorporated association composed wholly of such citizens, or a corporation authorized to transact business in the state in which the timber is located.
- (b) The signatory is the age of majority in the state of the sale.
- (c) The signatory is an authorized representative if not signing as an individual and certifies that he or she is authorized to act as or on behalf of the bidder.
- (d) The signatory and any affiliates have not exported unprocessed private timber from west of the 100th meridian in the lower 48 states in the 24-months prior to the sale date shown on this form.
- (e) The signatory's bid was arrived at by bidder or offeror independently and was tendered without collusion with any other bidder or offeror.
- (f) The signatory and any affiliates are not currently suspended or debarred from contracting with the Federal government unless issued an exception by the Department's Director of the Office of Acquisition and Property Management (exception must be attached to bid form).

Mark each box above to acknowledge each of the certifying statements and complete sections 1-3 as appropriate and sections 4 and 5:

1. Signature, if firm is individually owned  _____	4. Name of firm <i>(type or print)</i>  _____
2. Signatures, if firm is a partnership or L.L.C. i. _____ ii. _____	5. Business address, include zip code <i>(type or print)</i>  _____
3. Corporation - organized under the state laws of:  Signature of Authorized Corporate Officer:  _____  Title:  _____	<p><i>(To be completed following oral bidding)</i></p> <p>I HEREBY confirm the above oral bid By <i>(signature)</i>:  _____  Date  _____</p>

Submit bid to qualify for either an oral auction or sealed bid sale, together with the required bid deposit.  
Make remittance payable to: "Department of the Interior – BLM"

Oral Auction – Submit to Sale Supervisor prior to closing of qualifying period for tract.

Sealed Bid – Send to Contracting Officer, who issued the sale notice, in a sealed envelope marked on the outside with:

- (1) "Bid for Timber and/or Other Wood Products" or "Bid for Vegetative Resources" depending on the products being sold.
- (2) Time bids are to be opened.
- (3) Legal description.
- (4) Sale name and number.

### NOTICES

The Privacy Act and the regulations in 43 CFR 2.223(d) require that you be furnished with the following information:

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

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

**ROUTINE USES:** 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 and/or Other Wood Products or Vegetative Resources.

## INSTRUCTIONS TO BIDDERS

1. *AUTHORITY* – Timber and/or Other Wood Products or Vegetative Resources, 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. 2601); Timber and/or Other Wood Products or Vegetative Resources located on other 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 and/or Other Wood Products or Vegetative Resources, are codified in 43 CFR Group 5400.

2. *QUALIFICATIONS OF BIDDERS* – A bidder for sale of Timber and/or Other Wood Products or 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 and/or Other Wood Products or Vegetative Resources are located.

3. *INSPECTION OF TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES* – Bidder is invited, urged, and cautioned to inspect the Timber and/or Other Wood Products or Vegetative Resources prior to submitting a bid. By executing the Timber and/or Other Wood Products or Vegetative Resources sale contract, bidder warrants that the contract is accepted on the basis of his/her examination and inspection of the Timber and/or Other Wood Products or Vegetative Resources and his/her opinion of its value.

4. *DISCLAIMER OF WARRANTY* – Government expressly disclaims any warranty of the fitness of the designated Timber and/or Other Wood Products or Vegetative Resources for any purpose of the bidder; all Timber and/or Other Wood Products or 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 and/or Other Wood Products or Vegetative Resources to be sold is expressly disclaimed by Government.

5. *BIDS* – Each Sealed or written bid for Timber and/or Other Wood Products or Vegetative Resources must be submitted to the Contracting Officer who issued *Timber and/or Other Wood Products or Vegetative Resources Sale Notice*.

(a) *Sealed Bid Sales* – Bids will be received until time specified in the Advertisement. Enclose the bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber and/or Other Wood Products or Vegetative Resources*, time bid is to be opened, timber sale name and number, and legal description of land on which Timber and/or Other Wood Products or Vegetative Resources are located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.

(b) *Oral 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/her 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/her 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 and/or Other Wood Products or Vegetative Resources 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) *Timber and/or Other Wood Products or Vegetative Resources Sales* – For each product and species, bids shall specify (1) Bureau of Land Management estimated unit volume or quantity, (2) bidder’s price per unit and total value, and (3) bidder’s total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, the high bidder agrees to pay the Government for the Timber and/or Other Wood Products or Vegetative Resources designated for removal in accordance with the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for removal may be less or more than the total estimated volume or quantity shown above.

7. *BID DEPOSIT* – All bidders must make a deposit of not less than the amount specified in the *Timber and/or Other Wood Products or Vegetative Resources 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 (*Applies To Timber Only*), or any approved guaranteed remittance approved by the Contracting Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder shall be applied toward the required sale deposit and/or the purchase price. If the BLM fails to award the timber sale within 90 days of the determination of the high bidder, a portion of the bid deposit may be refunded to the high bidder upon written request to the authorized officer, such that the BLM retains a deposit of at least 5% of the appraised value. The remainder of the full bid deposit must be resubmitted to the BLM once the high bidder is notified in writing that the delay of award has been remedied and the authorized officer is prepared to issue the contract. If the high bidder is unable to provide the full amount of the bid deposit within 30 days of the written notification, the sale may be re-auctioned and the high bidder will be barred from participating in any subsequent auctions for the same tracts.

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/she 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. If contract award is delayed more than 90 days, half of the bid deposit may be refunded to the high bidder until the sale award process resumes.

9. *TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES SALE CONTRACTS* – To be executed by purchaser, has been prepared by Government, and may be examined in the District or Field Manager’s office.

10. *PERFORMANCE BOND – (Primarily Used For Timber Sales)*

(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 Contracting Officer.

(b) If purchaser elects to cut Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources covered by the bond increase. This increased amount of bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources cut in advance of payment.

11. *PAYMENT BOND – (Primarily Used For Timber Sales)*

If purchaser elects to (a) cut and remove Timber and/or Other Wood Products or Vegetative Resources, or (b) remove Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources covered by the bond. Payment bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources* 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/her 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 and/or Other Wood Products or Vegetative Resources, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

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

16. [RESERVED]

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 any exporters of unprocessed private timber west of the 100th meridian in the contiguous 48 states within 24-months of the sale date are not eligible to purchaser Federal Timber west of the 100th meridian in the contiguous 48 states. For the purpose of this contract, unprocessed timber is defined as:

(1) any logs except those of utility grade or below, such as saw logs, 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 dimensions 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 or construction timbers, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list grades, sawn on four sides, not intended for remanufacture; (2) Lumber, construction timbers, or cants for remanufacture, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list clear grades, sawn on four sides, not to exceed twelve inches in thickness; (3) Lumber, construction timbers, or cants for remanufacture, except western red cedar, that do not meet the grades referred to in subclause 2 and are sawn on four sides, with wane less than 1/4 of any face, not exceeding 8 3/4 inches in thickness; (4) Chips, pulp, or pulp products; (5) Veneer or plywood; (6) Poles, posts, or piling cut or treated with preservatives for use as such; (7) Shakes or shingles; (8) Aspen or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp; (9) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 saw logs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.

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

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Form 5430-11  
(November 2011)  
(formerly 1140-6)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Timber Sale Number  
ORN05-TS-2026.0575  
Timber Sale Name  
Power Play  
Sale date  
06/25/2026

**INDEPENDENT PRICE DETERMINATION CERTIFICATE**

Bidder or Offeror (Name)	Address (include zip code)
<p>A. By submission of this bid or proposal, each bidder or offeror certifies, and in the case of a joint bid or proposal, each party thereto certifies as to its own organization, that in connection with this sale:</p> <p>1. The prices in this bid or proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices, with any other bidder or offeror or with any competitor;</p> <p>2. Unless otherwise required by law, the prices which have been quoted in this bid or proposal have not been knowingly disclosed by the bidder or offeror and will not knowingly be disclosed by the bidder or offeror prior to opening, in the case of a bid, or prior to award, in the case of a proposal, directly or indirectly to any other bidder or offeror or to any competitor; and</p> <p>3. No attempt has been made or will be made by the bidder or offeror to induce any other person or firm to submit or not to submit a bid or proposal for the purpose of restricting competition.</p> <p>B. Each person signing this bid or proposal certifies that:</p> <p>1. He is the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein and that he has not participated, and will not participate, in any action</p>	<p>contrary to A. 1 through 3 above; or</p> <p>2. (i) He is not the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to A. 1 through 3, above, and as their agent does hereby so certify; and</p> <p>(ii) He has not participated, and will not participate, in any action contrary to A. 1 through 3, above.</p> <p>C. This certification is not applicable to a foreign bidder or offeror submitting a bid or proposal for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.</p> <p>D. A bid or proposal will not be considered for award where A. 1, 3, or B., above, has been deleted or modified. Where A. 2, above, has been deleted or modified, the bid or proposal will not be considered for award unless the bidder or offeror furnishes with the bid or proposal a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, determines that such disclosure was not made for the purpose of restricting competition.</p>
(Authorized Signature of Bidder)	Name and Title (type or print)

**INSTRUCTIONS**

Submit a properly completed and signed original copy of this form, with offers or bids for sales of all government-owned property to Bureau of Land Management as follows:

- A. Include with sealed bids, written quotations and written offers.
- B. At auction, at close of bidding and before award of spot bid sale.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**EXPORT DETERMINATION**

FORM APPROVED  
OMB NO. 1004-0058  
Expires: Jan. 31, 2028

Location of facility where Federal timber is  
expected to be processed:

In compliance with requirements of 43 CFR 5424.1,  I  We hereby submit the following information:

(1) Have you exported unprocessed private timber, or if a sourcing area is established, have you exported private timber from lands tributary to the above processing facility, in the 24 months prior to the auction or purchase date of Federal timber?

Yes  No - Last Export Date (if any within the past 5 years) \_\_\_\_\_

(2) If the answer in (1) is yes, you are not eligible to purchase federal timber until at least 24 months from the date in (1).

(3) Have any of your affiliates\* exported unprocessed private timber, or exported unprocessed private timber from lands tributary to the above processing facility if within an established sourcing area, within the 24 months prior to the auction or purchase date of the Federal timber?  Yes  No - Provide affiliate names and last export dates (if any, list latest export date within the past 5 years):

a. Affiliate \_\_\_\_\_ Last Export date \_\_\_\_\_

b. Affiliate \_\_\_\_\_ Last Export date \_\_\_\_\_

c. Affiliate \_\_\_\_\_ Last Export date \_\_\_\_\_

(4) If any affiliates have exported unprocessed private timber within 24 months of the auction or purchase date of the Federal timber, you are not eligible to purchase federal timber until at least 24 months from the most recent export date shown in (3).

\*From 43 CFR 5400.0-5: Affiliate means a business entity including but not limited to an individual, partnership, corporation, or association, which controls or is controlled by a purchaser, or, along with a purchaser, is controlled by a third business entity. From 16 USC 620e: Export prohibition applies to any individual, partnership, corporation, association, or other legal entity and includes any subsidiary, subcontractor, or parent company, and business affiliates where one affiliate controls or has the power to control the other or when both are controlled directly or indirectly by a third person.

Name of Firm: \_\_\_\_\_

Signature of Signing Officer	Title	Date

By signing this form, you certify that you or your affiliates have not exported unprocessed private timber within the 24 months prior to the sale date of Federal timber and will not export unprocessed private or federal timber for the duration of the federal timber sale. Timber export and substitution violations are subject to civil penalties described in 16 USC 620d and may result in monetary damages and suspension and debarment.

INSTRUCTIONS: The Purchaser must complete the form and return to the Contracting Officer. 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 complete a copy of this form and file the form with the Contracting Officer.

Timber Sale Name and Number:  <b>Power Play, ORN05-TS-2026.0575</b>	Return Form to Contracting Officer at:  <b>3106 Pierce Parkway, Suite E, Springfield, Oregon 97477</b>
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Unprocessed timber means trees or portions of trees or other roundwood not processed to standards and specifications suitable for end-product use. The term "unprocessed timber" does not include timber processed into any one of the following: (i) Lumber or construction timbers, except Western Red Cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list grades, sawn on 4 sides, not intended for remanufacture; (ii) Lumber, construction timbers, or cants for remanufacture, except Western Red Cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list clear grades, sawn on 4 sides, not to exceed 12 inches in thickness; (iii) Lumber, construction timbers, or cants for remanufacture, except Western Red Cedar, that do not meet the grades referred to in clause (ii) and are sawn on 4 sides, with wane less than 1/4 of any face, not exceeding 3 3/4 inches in thickness; (iv) Chips, pulp, or pulp products; (v) Veneer or plywood; (vi) Poles, posts, or piling cut or treated with preservatives for use as such; (vii) Shakes or shingles; (viii) Aspen or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp; (ix) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 sawlogs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.

## NOTICES

The Privacy Act and 43 CFR 2.48(d) require that you be furnished with the following information in connection with the information requested by this form.

**AUTHORITY:** 16 USC 620 and 43 CFR Part 5420 permit collection of the information requested by this form.

**PRINCIPAL PURPOSE:** The BLM uses the information in this form to determine eligibility to purchase federal timber.

**ROUTINE USES:** Timber sale purchaser provides information regarding their export of private timber.

**EFFECT OF NOT PROVIDING INFORMATION:** Submission of the requested information is required to obtain or retain a benefit. Failure to submit all of the requested information or to complete this form may result in delay or preclude the BLM's acceptance of your form.

**The Paperwork Reduction Act requires us to inform you that:**

The BLM collects this information to determine whether Federal timber has been substituted for exported private timber in accordance with 43 CFR 5424.1 and 5424.0-6(e).

You do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** The estimated public reporting burden for this form is 1 hour per response for a majority of responses, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. You may submit comments regarding the burden estimate or any other aspect of this form to: U.S. Department of the Interior, Bureau of Land Management (1004-0058), Bureau Information Collection Clearance Officer, 1849 C Street, N.W., Room 2134 LM, Washington, D.C. 20240.

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Form 5450-22  
(November 2011)

Sale Number  
ORN05-TS-2026.0575

Power Play

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**CASH BID BOND**

Bid Date  
06/25/2026

KNOW ALL MEN BY THESE PRESENTS, That  I  We \_\_\_\_\_

of \_\_\_\_\_, State of Oregon

doing business as an  individual  partnership  corporation organized and existing under the laws of the State  
of \_\_\_\_\_ Oregon as Principal, is held and firmly bound unto the United States of America in the penal sum

of Two Hundred Forty-one Thousand Three Hundred and 00/100----- dollars (\$ 241,300.00 ),

lawful money of the United States, for the payment of which, well and truly to be made. I bind myself, my heirs, executors,  
administrators, successors and assigns, jointly and severally, as a further guarantee of which a cash deposit or assured payment  
has been made with the Bureau of Land Management at 3106 Pierce Pkwy, Suite E, Springfield, Oregon 97477 in the form of

a \_\_\_\_\_ in the amount of \$ 241,300.00.

A Sight Draft shall not be negotiated unless the principal fails to enter into a written contract with  
the Government in accordance with the bid and terms and conditions of the notice of the above sale.

THAT, The said Principal does hereby constitute and  
appoint the Secretary of the Interior as his attorney, to transfer  
and apply the said deposit, as security for the faithful performance  
of the above condition, and it is agreed that, in case of any  
default in the performance of this condition, the said attorney  
shall have full power to assign, appropriate, transfer, and apply  
said deposit without notice, as liquidated damages.

The said Principal hereby ratifies and confirms whatever his  
said attorney shall do by viture of these presents.

If the said Principal shall within the period specified in the  
notification of award enter into a written contract with the  
Government, in accordance with the bid and the terms and  
conditions of the notice of sale, then and in that event the above  
obligation shall be null and void and the deposit shall be  
released and returned to the Principal. Otherwise, said obligation  
shall remain in full force and effect.

Signed, sealed, and delivered this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

IF INDIVIDUAL OR PARTNERSHIP, SIGN HERE:

IN THE PRESENCE OF TWO WITNESSES:

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Witness Signature)

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Witness Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)

IF CORPORATION, SIGN HERE:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Name of Corporation)

\_\_\_\_\_  
(Signature)

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Title)

CORPORATION CERTIFICATE

If Purchaser is a corporation, the following certificate shall be executed by the Secretary or Assistant Secretary of the Corporation.

I, \_\_\_\_\_, certify that I am the \_\_\_\_\_ Secretary of the corporation named as Purchaser herein; that \_\_\_\_\_, who signed this contract, was then \_\_\_\_\_ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

\_\_\_\_\_  
(Signature)

(Corporate Seal)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.



Agency Forest

BLM, Northwest Oregon District-  
Upper Willamette Field Office

Sale Name

Power Play



**SMALL BUSINESS CERTIFICATION REQUIRED ON  
ALL PREFERENTIAL SALES OF SET-ASIDE TIMBER**

The purchaser certifies, at the time of executing timber sale Contract No. ORN05-TS-2026.0575, to which this statement is annexed, that in accordance with the Rules and Regulations (13 CFR 121) of the Small Business Administration (SBA):

1. His firm (a) is primarily engaged in the logging or forest products industry; (b) is independently owned and operated; (c) is not dominant in its field of operation; and (d) employs, together with its affiliates, 500 or fewer persons.
2. (a) He agrees not to sell and/or exchange more than 30 percent (50 percent in the case of Alaska) of the timber of log volume from this preferential sale to concerns not meeting SBA's small business size standard. Such timber and log volume comprises logs, bolts and pieces that are suitable for manufacture into lumber dimension and/or veneer and normally appraised as such. Timber and log volume of the preferential sale includes the contract rights, standing and down trees or portions thereof.
 

(b) Whenever he does sell and/or exchange timber or logs from this preferential sale, records of such transactions will be maintained for a period of three years showing the name, address, and SBA size status (i.e., whether large or small) of each concern to whom the timber or logs were sold or disposed and the species, grades and volumes involved. In the event of such sale or sales, purchaser shall also require other purchasers to maintain similar records for a period of three years (OMB Approval No. 0596-0021). A signed certificate similar to this one will be obtained from each party buying such timber and will be retained for review in event of investigation.

(c) If his concern is purchased by, becomes controlled by, or merged with a large business, so much of such timber and log volume from this preferential sale as is necessary will be sold (not bartered) to one or more small businesses for compliance with the 30 percent (50 percent in the case of Alaska) restriction.
3. He agrees that if he utilizes log volume from this preferential sale in the manufacture of a product, such manufacture will be done with his own facilities or those of another concern that qualifies as a small business.
4. He understands that in addition to other penalties which may be imposed for violating the foregoing, he may be declared ineligible to participate in future Federal timber sales.

Signed \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_