

COOS BAY SALE NO. ORC04-TS-2027.0030
KING SALMON

COOS BAY DISTRICT OFFICE
MYRTLEWOOD RESOURCE AREA

SALE DATE: October 30, 2026
SALE TIME: 10:00 a.m.

SCALE SALE
LOCKED GATE – 2A150 KEY REQUIRED

SALE NO.: ORC04-TS-2027.0030, KING SALMON

COOS COUNTY: OREGON: CBWR: ORAL AUCTION:

Bid deposit required: \$38,600.00

All timber designated for cutting on: T. 30 S., R. 11 W., Sec. 4, L3, Will. Mer.

Approx. No. Merch. Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Vol. Times Appraised Price
989	1,073.0	Douglas-fir	1,292.0	\$280.90	\$362,922.80
101	148.0	grand fir	178.0	\$108.00	\$19,224.00
78	15.0	western hemlock	19.0	\$75.80	\$1,440.20
5	3.0	Port-Orford cedar	5.0	\$33.00 *	\$165.00
78	4.0	red alder	5.0	\$44.50	\$222.50
1,251	1,243.0	Total	1,499.0		\$383,974.50

* = 10% of Pond Value

Product	Unit of Measure	Estimated Number of Units	Appraised Price Per Green Ton	Estimated Volume Times Appraised Price
Biomass	Green Tons	674.7	\$3.00	\$2,024.10

Total Appraised Value: \$385,998.60

THIS TIMBER SALE HAS BEEN CRUISED, APPRAISED, AND ADVERTISED BASED UPON SCRIBNER BOARD FOOT MEASURE (16 FOOT LOG). THE MINIMUM BID FIGURES SHOWN BY SPECIES ARE DOLLARS PER THOUSAND BOARD FEET (MBF). SCRIBNER BOARD FOOT VOLUMES (32 FOOT LOG) BY SPECIES ARE DISPLAYED FOR INFORMATIONAL PURPOSES ONLY.

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

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LOG EXPORT AND SUBSTITUTION RESTRICTIONS: Except Port-Orford cedar, all timber offered for sale hereunder is restricted from export from the United States in the form of unprocessed timber and is prohibited from being used as a substitute for exported private timber.

CRUISE INFORMATION: With respect to merchantable trees of all species in all cruise strata: the average DBHOB is 21.0 inches; the average gross merchantable log contains 183 bd. ft.; the total gross volume is approximately 1,741.0 MBF; and 81% recovery is expected. The average DBHOB for Douglas-fir is 28.8; and the average gross merchantable log contains 221 bd. ft. None of the total sale volume is salvage material. The following cruise methods were used for volume determination.

VP: 64 plots were used to produce 34 sample trees of all species. The sample trees were cruised, and their volumes computed using form class tables for estimating board foot volumes of trees in 16-foot logs. The volumes are then expanded to a total sale volume.

CUTTING AREA: One unit totaling approximately 32 acres must be regeneration cut. Acres shown on Exhibit A have been computed using the Field Maps program.

ACCESS: Access to the sale area is provided via: United States highways, privately controlled roads, and Government controlled roads. A gate restricts access to this sale area. Keys are available at the Coos Bay District Office. **A refundable deposit of \$100 is required to obtain a key.**

DIRECTIONS TO SALE AREA: From Coos Bay, Oregon, travel south on Highway 101 for approximately five miles. Take slight left onto OR-42 E and travel approximately 30 miles. Turn right onto Myrtle Creek, proceed 0.1 miles. Turn right onto Salmon Gulch Road at the Bridge Grange Hall. Proceed approximately 0.5 miles to locked gate. Go through gate, proceed about 1000 feet, turn left, cross bridge proceed up the hill on natural surface road (29-11-33.2) to the top of the hill and landing. See Exhibit A1.

ROAD USE, ROCKWEAR & MAINTENANCE: Refer to Exhibit E Summary attached. Operator maintenance required on 1.35 miles of road.

Road Use Fee Payable to Lone Rock TT Landco, LLC: \$45,089.92

ROAD CONSTRUCTION: Road Construction estimates include the following:

Road Renovation:

71.28 stations

Aggregate (All quantities are truck measurement):

1½" minus hard rock: 20 L.C.Y.

Soil Stabilization:

Dry Seed, fertilizer, & mulch: 1.7 acres (Pre-haul)

Dry Seed, fertilizer, & mulch: 0.1 acres (Post-haul)

Roadside Brushing:

3.27 stations

Road Decommissioning:
Water Bars: 40

DURATION OF CONTRACT: Shall be 36 months for cutting and removal of timber. The contract contains special stipulations regarding logging, road construction, road use and maintenance, fire prevention, hazard reduction and logging residue reduction, log export and substitution, equal opportunity in employment, cultural resource protection, and sensitive, threatened, or endangered plants or animals.

SPECIAL PROVISIONS: This list is not comprehensive. Please review the entire contract.

1. A license agreement is required with Lone Rock TT Landco, LLC, RWA- C-418. A performance bond in the amount of \$10,000 and comprehensive liability insurance will be required for this license agreement.
2. All equipment must be washed prior to entry into the contract area to control the spread of noxious weeds and Port-Orford cedar root disease.
3. No trees shall be felled into Reserve Areas, as shown on Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary.
4. All trees three (3) inches DBHOB or larger and/or twenty-five (25) feet or taller designated for cutting shall be felled concurrently with all other trees designated for cutting.
5. Lift trees and intermediate support trees may be necessary.
6. One-end suspension is required in Regeneration Cut Areas.
7. Full suspension is required over any stream channels. Trees cut for yarding corridors within the Reserve Area adjacent to Stream Channels shall be felled toward the channel and left on site.
8. A forwarder, log loader, tractor, or rubber tire skidder may be used to yard logs within the Ground-Based Yarding areas. Ground-based equipment are generally restricted to areas with slopes less than 35% and soil moisture less than 25%.
9. Purchaser shall verify all landing locations with an Authorized Officer if not previously identified on Exhibit A. Required clearing limits shall be staked prior to construction.
10. Purchaser shall shape and restore all landings to a natural contour to prevent erosion.
11. Purchaser shall seed, mulch, and fertilize all landings, road cuts and fills, and waste areas.
12. Soil stabilization, water bar construction, road decommissioning, and road barrier construction shall be conducted after the completion of harvest activities but no later than October 15 of the same year.
13. BLM will assume supervisory responsibility for disposal of logging slash.
14. Machine piling of logging slash is required at all landing areas, along all roads, and within Ground-Based Yarding Areas. Areas to be piled will be identified by the Authorized Officer.
15. Personnel supplied by the Purchaser for machine or landing pile burning shall include five (5) people qualified at a minimum, as Type-II Firefighters (FFT2), (National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1).
16. After yarding is completed, the purchaser shall girdle thirty-four (34) conifer trees marked with orange painted "S."
17. The Purchaser shall provide signage to control traffic when conducting logging and road construction operations on the Salmon Gulch Road.

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18. To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained and removed daily from the contract area pursuant to Section 27 of the contract.
19. Spill kits will be required to be on site during road construction and logging.

Seasonal Restriction Matrix ORC04-TS-2027.0030 KING SALMON; Timber Sale Prospectus

*Restricted periods are shaded; Conditional periods in dark shading; See Exhibit A and C for portions of units/haul route affected.

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sep t		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
General All Units	Road Construction, Renovation, or Improvement Work ¹																								
	Hauling ¹																								
	Hauling on approved rocked roads ³																								
	Ground based yarding ²											25 %													

¹ Wet season restrictions may be shortened or extended depending on weather conditions for all roads.

² Ground based yarding restricted to periods when soil moisture levels are below 25% as determined by the Authorized Officer.

³ Wet season haul on rocked roads may be suspended during periods of heavy rain.

SCHEDULE I

Sec 43. TIMBER RESERVED FROM CUTTING. The following timber on the Contract Area, shown on Exhibit A, which is attached hereto and made a part hereof, is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of the Government:

- a. All timber in the Reserve Areas, as shown on Exhibit A, and all blazed, orange painted and/or posted trees, which are on or mark the boundaries of the Reserve Area.
- b. Approximately sixty-eight (68) Douglas-fir, twelve (12) western hemlock, nine (9) grand fir, one (1) Port-Orford cedar, two (2) western red cedar, and fifty (50) hardwoods are each marked with an orange band above stump height and orange painted below stump height in Unit 1, as shown on Exhibit A. Reserve trees damaged or destroyed by the Purchaser shall be valued for purposes of determining damages at either current market value, or contract price, whichever is greater, of the merchantable volume plus the cost to replace the damages or destroyed trees. The Purchaser will be liable under applicable sections of this contract for the removal or destruction of these selected reserve trees, except for such trees, which are determined to be a safety hazard as defined by applicable safety codes and regulations. When selected reserve trees are determined to be danger trees, written approval to cut such trees shall be obtained from the Authorized Officer conforming to all requirements of Section 8 of this contract. The Authorized Officer can reserve trees previously designated for cutting and removal by applying orange paint as replacements for previously selected reserve and snag trees damaged or cut and removed due to harvest operations.
- c. Approximately thirty-one (31) Douglas-fir and three (3) grand fir are each marked with a orange painted "S" above stump height and orange painted below stump height in Unit 1.
- d. All existing standing dead trees within the harvest area except those trees, which must be felled to permit safe working operations. Snags felled for safety reasons shall be left on site.
- e. All existing downed wood in decay classes 3-5 and all existing downed wood 20 inches or larger in diameter measured on the large end regardless of decay class.
- f. All Bearing Trees with metal tags that mark property corners.

Sec 44. SPECIAL PROVISIONS. Purchaser shall comply with the special provisions, which are attached hereto and made a part hereof unless otherwise authorized, in writing, by the Authorized Officer:

a. Logging

- (1) Before beginning operations in the contract area for the first time, or after a shutdown of ten (10) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they

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plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of ten (10) or more days.

(2) Prior to 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.

(3) All trees designated for cutting shall be cut so that the resulting stumps shall not be higher than 12" inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.

(4) No trees may be felled into the Reserve Area or Basal Retention Area as shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary to prevent trees from falling into these areas.

(5) All trees three (3) inches DBHOB or larger and/or twenty-five (25) feet or taller designated for cutting shall be felled concurrently with all other trees designated for cutting.

(6) All trees designated for cutting shall be whole tree yarded when feasible to the landing areas.

(7) Yarding (except for road right-of-way and Ground-Based Yarding Area), as shown on Exhibit A, shall be done with a skyline cable system according to the following:

- a. One-end log suspension is required during yarding operations. Intermediate supports and/or lift trees may be required to obtain the required suspension. Full suspension is required when yarding over Stream Channels shown on the Exhibit A.
- b. The Purchaser shall make all cable road changes by completely re-spooling cables and restringing the layout from head spar to tail hold.
- c. If the placement of a yarding corridor requires the cutting of a tree within the Reserve Area adjacent to a Stream Channel, the tree shall remain on-site and felled toward the direction of the channel in a manner to protect the stream bank from disturbance during yarding. Yarding corridors shall cross-stream channels perpendicular where possible to minimize cutting of trees within the Reserve Area. Yarding corridor locations within the Reserve Area shall be approved by the Authorized Officer prior to cutting. Yarding corridors should be spaced approximately 150 feet apart on the back end and be no wider than 12 feet.

(8) All landings in the harvest unit shall be placed at the approximate locations shown on the

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Exhibit A. Any alternative landing sites must be approved by the Contracting Officer in the written operations and logging plan.

(9) In the Ground-Based Yarding Areas and within road rights-of-way, as shown on Exhibit A, cutting and yarding shall be done according to the following:

- a. In addition to the requirements set forth in Sec. 26 of this contract, ground-based logging operations shall be restricted to the dry season, which is typically May 15 to October 15.
- b. Ground-based operations shall be conducted when soil moisture content is below 25%, as determined by the Authorized Officer; unseasonably dry or wet weather may shorten or extend the operating season. The Purchaser shall be notified in writing when weather conditions extend the operating season. The Purchaser shall cease operations during periods of rain and shall be notified, after a soil-moisture assessment by the Authorized Officer, when operations may resume. Ground-based operations may be conducted when ground is frozen or adequate snow cover exists, with the approval of the Authorized Officer.
- c. Trees shall be felled manually or by a mechanized harvester utilizing a “cut-to-length” system capable of directionally felling, cutting to length, and depositing slash along the harvesting path to minimize soil exposure and compaction.
- d. The yarding machine must be approved by the Authorized Officer. It must be equipped with a grapple or an extendable and retractable arch and fairlead that is an integral part of the machine capable of lifting the leading end of the turn clear of the ground. All logs in the Ground-Based Yarding Area shall be yarded with their leading end clear of the ground. A forwarder or tracked log loader may also be used to yard logs.
- e. Primary skid roads/trails shall use existing trails wherever possible, designate skid trails with the objective of having less than 15 percent of a harvest area affected by compaction. Skid trails should generally be spaced 95 feet apart and be no wider than 12 feet.
- f. Primary skid trails shall be blocked with cull material after completion of harvest where the Authorized Officer determines vehicle access is possible.
- g. All ground-based equipment shall be restricted to operating on slopes less than 35% unless operating on previously constructed trails or accessing isolated ground-based harvest areas requiring short trails over steeper pitches. Also, limit the use of this equipment when surface displacement creates trenches, depressions, excessive removal of organic horizons, or when disturbance would channel water and sediment as overland flow.

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- h. Primary skid trails with a slope greater than 15% and/or are left with more than 100 feet of continuous bare ground shall have water bars installed and/or be covered with slash for erosion control prior to October 15 as directed by the Authorized Officer.

(10) Prior to attaching any logging equipment to any tree within the Reserve Area, the Purchaser shall obtain written approval from the Authorized Officer and shall take precautions to protect the trees from damage, as directed in writing by the Authorized Officer.

(11) The Purchaser shall provide signage to control traffic when conducting operations adjacent to any road as directed by the Authorized Officer and in accordance with Sec. 29 of the timber sale contract.

(12) To control the spread of noxious weeds and Port-Orford-cedar root disease, the purchaser shall conduct all operations involving the transportation and use of equipment and vehicles in strict accordance with the requirements shown on Exhibit F, which is attached hereto and made a part hereof. All road building and logging equipment shall be washed prior to moving into the Contract Area to control the spread of noxious weeds and Port-Orford-cedar root disease.

(13) After completion of yarding activities, the Purchaser shall girdle thirty-four (34) conifer trees (marked with white painted "S") in Unit 1, as shown on the Exhibit A and as directed by the Authorized Officer, according to the following:

Snags shall generally be created by girdling live green trees at three and one-half (3 1/2') feet above the root collar, cut 1/2 to 3/4 circumference around the tree and penetrate the cambium layer into the wood at half (1/2") inch, but no more than one (1") inch. The distance between the top and bottom cut shall be at least 1' foot apart but shall not exceed two (2') feet and on opposing sides of the tree bole. Alternatively, girdling may be achieved through the use of three (3) parallel cuts into the cambial tissue around the tree as specified within Exhibit I.

(14) To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained and removed daily from the contract area pursuant to Section 27 of the contract.

(15) Maintain and refuel heavy equipment a minimum of one hundred fifty (150') feet away from streams and other water bodies. Refuel small equipment at least one hundred (100') feet from waterbodies to prevent direct delivery of contaminants into a waterbody. Refuel small equipment from no more than 5-gallon containers. A small spill kit is required to be on-site during operations. In the event of a spill or release, take all reasonable and safe actions to contain the material. Specific actions are dependent on the nature of the material spilled. If more than 42 gallons of fuel or combined quantity of petroleum products and chemical substances were transported to a project site as project materials, a spill kit that can absorb and contain 55 gallons of petroleum product and chemical substances shall be readily available. The Purchaser shall be responsible for the clean-up, removal, and proper disposal of contaminated materials from the

site in accordance with Section 28 of the contract.

b. Road Construction

(1) The Purchaser shall construct, renovate, and improve in strict accordance with the road plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.

(2) Any required construction, renovation, or improvement of structures and roads shall be completed and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber, over that road.

(3) In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall complete erosion control and soil stabilization measures on all cuts, fills, waste areas, and scarified areas, as designated by the Authorized Officer, along all sections of roadway disturbed during the year prior to October 15 of each year. The Authorized Officer may set time limits for the beginning and completion of erosion control and soil stabilization measures and modify seasonal dates to conform to existing weather conditions and changes in the construction schedule. Such work shall be accomplished in accordance with Erosion Control and Soil Stabilization, 1700 and 1800 Series, contained in Exhibit C.

(4) The Purchaser, prior to construction of landings, shall stake all landing locations in accordance with the requirements set forth in Exhibit C. Concurrently with, or at the termination of logging operations, the Purchaser shall pull back and shape onto the landings all overhanging materials to prevent erosion in accordance with the requirements set forth in Exhibit C.

c. Road Use and Maintenance

(1) The Purchaser shall be required to secure written approval to use or haul forest products or equipment over Government owned or controlled structures when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

(2) Overweight vehicles and tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices. Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics, at least 30 days prior to proposed move in. Details shall include:

- a. Axle weights when fully loaded.
- b. Axle spacing.
- c. Transverse wheel spacing.
- d. Tire size.

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- e. Outside width of vehicle.
- f. Operating speed.
- g. Frequency of use; and,
- h. Special features (e.g. running tracks, overhang loads, etc.).

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

(3) The Purchaser is authorized to use the roads shown on Exhibit E, attached hereto and made a part hereof, for the removal of Government timber sold under the terms of this contract and for haul of mineral material required under the terms of this contract; provided, that the Purchaser shall pay the rockwear fees totaling \$0.00 as shown on Exhibit E. Unless the total maintenance and rockwear fees due BLM are paid prior to commencement of operations on the contract area, payments shall be made in installments payable in the same manner as and together with payments required by Sec. 3 of this contract.

(4) The Purchaser shall perform maintenance and repair of any required roads shown on Exhibit D in accordance with the maintenance specifications listed in Exhibit D, attached hereto, and made a part hereof.

(5) At all times during the period of his operations on the contract area, and upon completion of said operations, the Purchaser shall be liable for maintenance and repair of such roads shown on Exhibit D resulting from wear or damage in accordance with the maintenance specifications as shown on Exhibit D.

(6) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall clean road surfaces, cut banks, landings, ditch, lines, and culverts of all debris created by logging operations.

(7) With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of any BLM controlled road included in Sec. 42.c.(1) and 42.d.(3) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered with other users on these roads.

(8) The Authorized Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Sec. 42.c.(1) and 42.d.(3). If the total road maintenance fee does not exceed \$500.00, the Purchaser shall pay such amount in full

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prior to use of such roads. If the total road maintenance fee exceeds \$500.00, the Authorized Officer shall establish an installment schedule of payments of the maintenance obligation.

(9) The Purchaser shall cease log hauling when road surfaces that drain to wetlands and streams become rutted, developing a mud layer on running surfaces, developing areas of standing water, or turbid road runoff is entering wetlands or streams. The Purchaser shall apply water or approved road surface stabilizers/dust control additives to reduce surfacing material loss and buildup of fine sediment that can enter wetlands, floodplains, and waters of the State during the dry season.

(10) The Purchaser agrees that if they elect to use any other private road, which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, Purchaser shall request and agree to the modifications of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.

(11) In the use of required company roads shown on the Exhibit E, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement between the United States and Lone Rock TT Landco, LLC, RWA-C-418. The Agreements are available for inspection at the Bureau of Land Management, Coos Bay, Oregon. These conditions include payment of a road use fee of \$45,089.92 and \$0.00 for road maintenance and rockwear fees.

Prior to commencement of operations, the Purchaser shall furnish to the Authorized Officer a copy of the executed License Agreements issued under the terms of the Right-of-Way Agreements. Default by the Purchaser of said Right-of-Way and Road Use Agreements, or any License Agreements executed pursuant thereto, for failure to pay appropriate road use, rockwear or road maintenance 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. Road maintenance fees may change during the course of the contract as determined by the Licensor. It is the responsibility of the Purchaser to pay fees current at time of haul.

d. Fire Prevention and Control, Hazard Reduction and Logging Residue Reduction

(1) Fire Prevention and Control: Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:

(a) At least three (3) days prior to power driven equipment during any operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.

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- (b) Provide and maintain in the contract area in good working order, and immediately available, the following equipment for use during the closed fire season or periods of fire danger:

Firefighting tools shall be kept at each landing or at such other places as the Authorized Officer shall designate whenever employees are working on the contract area. All firefighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two (2) landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire. Operations with four (4) or less workers are not required to provide a fire toolbox as long as each worker is equipped with a shovel suitable for fire suppression.

At each landing during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with enough one and a half inch (1 ½") hose to reach from the water supply to any location in the operation area affected by power driven machinery, or one thousand (1,000) feet, whichever is greater. Two (2) nozzles and one (1) gated wye are required to support this hose lay. Each tank truck shall be equipped with a pump capable of delivering a minimum of twenty (20) gallons per minute (gpm) water flow at one hundred ten (110) pounds per square inch (psi) engine pressure. The pump may be either power take off driven or truck mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½") inches National Hose Thread (NH), (1") inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters use. All tank trucks shall be filled with water and made available for immediate use.

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

- (2) In addition to the requirements of Section 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the

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State's willingness to release Purchaser for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction and logging residue reduction measures required of them by this contract: Perform logging residue reduction and site preparation work on all thirty-two (32) acres within the harvest units as shown on Exhibit A. The required work shall consist of any treatment or combination of treatments, as determined by the Authorized Officer, and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer. Prior to commencement of any operation under this section of the contract, a slash disposal and pre-work conference between the Purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. The number of acres of each treatment shall be determined by the Authorized Officer. All slash disposal shall be done in accordance with the plans developed at this pre-work conference. BLM will assume supervisory responsibility for disposal of logging slash.

- (3) Logging Residue Reduction: In addition to the requirements of Section 15 of this contract and for hazardous fuel reduction, watershed protection, and silvicultural purposes, the Purchaser shall be responsible for logging residue reduction at all landing sites in the sale area as shown on Exhibit A.
 - (a) In lieu of burning, the Purchaser may remove landing residue for off-site utilization. If the utilization method is selected, the Purchaser shall provide information on the total tonnage of landing residue being removed from the sale area in accordance with Exhibit B.
 - (b) Prior to commencement of landing residue removal, the Purchaser shall provide advanced notification to the Authorized Officer in order to arrange for on-site inspections of the removal operations. Upon completion of landing residue removal, the Purchaser shall notify the Authorized Officer to arrange for a final inspection of the landing sites.
- (4) Specifications for Landing Piling: Unless otherwise approved in advance by the Authorized Officer, landing piling shall be completed at each yarding location (setting) concurrently with the conclusion of yarding operations while logging equipment is still on-site.
 - (a) Logging residue within the immediate vicinity of the landing, and any residue that overhangs the landing sites that can be reached by logging equipment, shall be pulled completely back onto the landing surface and either piled for burning or segregated for other uses.
 - (b) Any logs or useable residue identified in the contract as reserved shall remain the property of the Government and may not be shipped for off-site utilization.
 - (c) Logging residue at landings shall be accumulated into the fewest number of piles possible. Landing piles shall be free of dirt, constructed as upright as

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- possible, and have a solid base to prevent toppling. Construction of low-profile, flat-topped piles is generally considered as unacceptable. The Purchaser is responsible for ensuring that properly shaped; contoured and stable landing piles are constructed.
- (d) Root wads from road construction activities shall not be included in the landing piles. Piling slash on top of root wad piles is not permitted. Any root wad piles found to be capped by slash by the Authorized Officer will require the removal and re-piling of the slash by the Purchaser.
 - (e) During or after pile construction, landing piles shall be shaped and contoured in such a manner that will allow for polyethylene sheeting (PE) to lay in a smooth and uniform manner completely across the top and partially down the sides of the pile to promote shedding of water, prevent pooling of water, and to reduce the possibility of PE being ripped or torn by underlying slash or from wind. Landing piles found by the Authorized Officer not meeting this shaping requirement shall be reconstructed or reshaped by the Purchaser.
 - (f) Unless directed by the Authorized Officer, no landing piles shall be constructed within twenty (20') feet of any reserved green trees, snags, marked wildlife trees, corrugated plastic pipes (CPP's), or other constructed feature or improvement that could be damaged by fire. No landing piles shall be constructed within fifty (50') feet of property lines.
 - (g) The Purchaser shall request an inspection of landing piles before equipment used in piling is moved off site. If piling equipment is moved off site before inspection and the piles are subsequently found to be noncompliant with the specifications and require re-work, the Purchaser shall be responsible for costs associated with move-in of piling equipment. Unless approved by the Authorized Officer, all requests for inspection of landing piling shall be made in writing (email is acceptable) at least ten (10) days in advance of planned equipment removal.
 - (h) Logs larger than eight (8") inches diameter at the large end and longer than eight (8') feet in length shall not be piled for burning but shall be segregated into separate piles that are no closer than twenty (20') feet from residue piles that will be burned.
 - (i) If during the course of pile construction or during a final acceptance inspection, the Authorized Officer determines that landing piles contain excessive amounts of logging residue that is larger than eight (8") diameter at the large end and longer than eight (8') feet in length, the Purchaser may be required to remove the specified residue from the landing piles.
- (5) Specifications for Landing Covering: Only piles that have been inspected and approved by the Authorized Officer shall be covered. Pile covering shall be completed no later than September 15 of the current year at all landing sites where yarding activities have been completed. This applies to each year that the timber sale is active.

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- (a) The Purchaser shall place four (4) MIL, black polyethylene sheeting (PE) over the pile to provide maximum protection from fall/winter rains. PE sheeting shall lie uniformly and as smoothly as possible across the top of the pile and shall extend partially down the sides. For small properly constructed piles with base dimensions of approximately ten feet by ten feet (10' x 10') or less, the size of the PE sheeting should be a minimum of one hundred (100) square feet.
 - (b) To meet ignition and combustion needs, larger piles shall require additional PE sheeting to adequately cover the pile and protect it from wetting fall/winter rains. The Purchaser shall contact the Authorized Officer before any pile covering begins to receive specific directions on which piles will require additional covering. At that time, the Authorized Officer will identify all piles that shall have additional PE covering. If piles are covered without the advice and consent of the Authorized Officer and are subsequently found to be inadequately covered, the Purchaser shall be required to re-cover or add additional covering to the piles before acceptance is made.
 - (c) At landing sites with excessive logging residue that overhangs the landing which cannot be reached and pulled back onto the landing with equipment on site, the Purchaser shall place additional PE sheeting over the residue concentrations below the landings.
 - (d) All PE shall be weighed down with slash or logging debris in order to prevent sheeting from tearing and blowing or sliding off the pile. An adequate amount of anchoring material should be used, but no more than twenty (20%) percent of the material to be piled may be placed on top of the sheeting. Sheeting shall be tied down with twine on all four (4) corners.
 - (e) Piles of root wads generated from road and landing construction activities and piles of residue identified by the Authorized Officer for other uses shall not be covered with PE sheeting. If root wad piles are found to be covered, the Authorized Officer shall require the Purchaser to remove and dispose of the PE sheeting.
- (6) Specifications for Pile Burning: Notwithstanding the provisions of Sec. 15 of this contract, the Government shall be responsible for disposing of slash created by the Purchaser's operations on Government lands except for assistance as required herein. The assumption by the Government of all obligations for the disposal of fire hazard under state law does not relieve the Purchaser of the obligations to perform the fire prevention hazard reduction and logging residue reduction measures required by this contract. In accordance with verbal or written instructions to be issued by the Authorized Officer at least fourteen (14) days in advance of the earliest date of required performance, the Purchaser shall, under the supervision of the Authorized Officer, assist with landing pile burning by furnishing, at the Purchasers expense, the services of personnel and equipment as follows:

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- (a) The Purchaser shall begin burning within fourteen (14) hours of notification by the Authorized Officer.
- (b) The Purchaser shall dispose of removed polyethylene sheeting in accordance with any applicable Federal, State, and municipal laws. Removed polyethylene sheeting shall not be disposed of in burn piles.
- (c) For each entry, the Purchaser may provide more personnel, equipment, and materials than indicated, but no less than the minimum requirements listed below. Minimum personnel, equipment and materials requirements are:

Landing and Machine Pile Burning:

- 1. One (1) English-speaking crew supervisor (minimum FFT2)
 - 2. Five (5) person burn crew (minimum FFT2)
 - 3. Six (6) drip torches and sufficient mixed fuel to complete all pile burning
- (d) All listed personnel shall be qualified as a Type-II Firefighter (FFT2) or higher (National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, (PMS 310-1). All personnel shall be physically fit, experienced, and fully capable of functioning as required. All personnel shall arrive at the project area with the following safety equipment: Lug-soled boots with a minimum of eight (8") inch uppers that provide ankle support; an approved hard hat; leather gloves; long-sleeve shirt and full-length trousers made of approved aramid fabric (Nomex or equivalent) and an approved fire shelter. All tools and equipment shall be in good 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.
- (e) A minimum of eighty percent (80%) consumption of each pile is required. Stoking of piled material around the edges may be required to meet the 80% consumption requirement. Stoking may be accomplished by hand, or the Purchaser may be allowed to use heavy equipment (if onsite) to facilitate stoking or re-piling or residue during pile burn operations. If used, the heavy equipment shall not be allowed to operate off all-weather road surfaces.
- (f) No mop-up is required of the Purchaser.
- (g) Based on the time of year and sequence in which the harvest and treatment of the units is completed, burning may be required over multiple seasons. Purchaser provided personnel: equipment and materials requirements will remain the same as Section 44.e.6.(c) for each entry. Any change in the requirements must be approved in advance by the Authorized Officer.
- (h) Time is of the essence in complying with burning provisions. In the event the Purchaser fails to provide the personnel, equipment and materials required herein, the Purchaser shall be responsible for all additional costs not limited to, wages and associated expenses of providing federal employees or others

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as a substitute labor force, the cost of providing substitute equipment, and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of burning, and new conditions necessitate additional site preparation work and/or use of additional personnel and equipment to accomplish the planned burn, the Purchaser also shall be responsible for such additional costs.

- (7) Specifications for Hand Piling and Slashing, Lopping and Scattering (SLS): In accordance with oral, email, or written instructions to be issued by the Authorized Officer at least ten (10) days in advance of the earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or their designated representative, begin site preparation of the hand pile and SLS treatment areas. The Purchaser, at their own expense, shall provide the services or personnel and equipment as follows:
- (a) All brush species one (1') foot or greater in height, damaged conifer reproduction or hardwoods, and hardwoods not marked or otherwise identified for retention, shall be completely severed from the stump. Brush species consist of shrubs with single or multiple stems originating at or near ground level and not normally reaching twenty (20') feet in height. Examples include (but are not limited to) vine maple, salmonberry, hazel, huckleberry, thimbleberry, manzanita, ocean spray, ceanothus species, broom species, blackberry species, and rhododendron.
 - (b) Stump heights shall not exceed four (4") inches measured on the uphill side of the stump.
 - (c) No live limbs shall be left on the stumps.
 - (d) Slashed hardwoods shall be bucked every four (4') feet and the limbs shall be completely severed from the bole.
 - (e) Except for felled or existing down trees identified by the Authorized Officer as coarse wood, conifers (including blowdown) and hardwoods felled but not yarded during harvest operations shall be bucked sufficiently to bring the bole down to the ground. All limbs shall be severed from the bole of the tree.
 - (f) All slashed vegetation and logging debris (brush, limbs, and boles) shall be sufficiently cut and scattered or piled in such a manner that will reduce the average slash depth in any given location to no more than twelve (12") inches and discontinuous to provide planting spots at ten (10') feet spacing.
 - (g) All slash, lop, scatter, and pile work shall be completed by October 15 for all areas where logging was completed on August 1 of each calendar year.
 - (h) All tops, broken pieces, limbs and debris between two (2) and six (6) inches in diameter and longer than three (3) feet in length will be piled. Piles will be located at least fifteen (15) feet from any reserve tree or snag and as far as possible from culverts and unit boundaries.
 - (i) Material exceeding the diameter limits specified may be left un-piled; however, attached limbs and tops falling within the diameter limits shall be

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cut off and piled. Material nine (9) inches in diameter or larger (measured on the large end) shall not be piled.

- (j) Piles shall be constructed as upright as possible and have a solid base to prevent toppling. Piles shall be no smaller than six (6) feet in diameter and five (5) feet in height.
- (k) All piled material shall be laid perpendicular to the slope. There shall be an adequate supply of finer fuels located within the interior of the pile to ensure ignition of the larger fuels.
- (l) The Purchaser shall place black polyethylene plastic, four (4) MIL thickness, over the pile to provide a barrier from winter rains. Unless otherwise directed, the size of plastic shall not exceed 100 square feet (10 X 10).
- (m) Plastic covering shall be placed on top of the pile to ensure the center of the pile remains dry and shall be weighted down with logging debris and tied down with combustible cord on all four corners.

(8) The Purchaser shall perform logging residue reduction and site preparation work on approximately thirty-two (32) acres of harvest area located in Cutting Unit 1 as shown on Exhibit A.

(aa) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treatment	Cost/Acre
Slash, lop	\$ 355.30
Scatter	\$ 309.30
Hand pile & cover	\$ 678.80
Hand pile burn	\$ 691.88
Landing pile & cover	\$ 4.19
Landing pile burn	\$ 34.47

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

Appraised Treatment	Acres	Cost/ Acre	Total Cost per Treatment
Slash, lop	32	\$ 355.30	\$ 11,369.60
Scatter	16	\$ 309.30	\$ 4,948.80
Hand pile & cover	16	\$ 678.80	\$ 10,860.80
Hand pile burn	16	\$691.88	\$ 11,070.08
Landing pile & cover	32	\$ 4.19	\$ 134.08
Landing pile burn	32	\$34.47	\$ 1,103.04

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Total Appraised Cost

\$ 39,486.40

(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 site preparation treatments designated pursuant to Section 44.e.9(bb) differs from \$39,486.40 as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 44.e.8(bb).

(dd) Landing pile construction, covering, and burning will be done in accordance with Section 44.e.4 and Section 44.e.5, Hand pile construction, covering, and burning will be done in accordance with Section 44.e.7 and Section 44.e.6

g. Log Export and Substitution

All timber sales, including timber from Federal rights-of-ways, shall be subject to the restrictions relating to the export and substitution of unprocessed timber from the United States in accordance with P.L. 94165 and 43 CFR 5400 and 5424 as amended.

(1) All timber sold to the Purchaser under the terms of this contract is restricted from export from the United States in the form of unprocessed timber and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters (8-3/4) inches in thickness; (3) split or round bolts or other round wood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8-3/4) inches in thickness or less; (6) shakes and shingles.

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

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

- a. date of last export sale.
- b. volume of timber contained in last export sale.

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- c. volume of timber exported in the past 24 months from the date of last export sale.
- d. volume of Federal timber purchased in the past 24 months from the date of last export sale.
- e. volume of timber exported in succeeding 24 months from date of last export sale; and,
- f. volume of Federal timber purchased in succeeding 24 months from date of last export sale.

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

(3) In the event an affiliate of the Purchaser has exported private timber within 24 months prior to purchasing or otherwise acquiring Federal timber sold under this contract, the Purchaser shall, upon request, obtain from the affiliate information in a form specified by the Authorized Officer and furnish the information.

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

(5) The Purchaser shall brand clearly and legibly one end of all logs, prior to the removal of timber from the contract area. One end of all branded logs to be processed domestically shall be marked with a three (3) square inch spot of highway yellow paint. The Purchaser shall 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 shall apply to each bunked load. If a flatbed stake trailer is used, each bundle shall be treated as a separate load. The Purchaser shall be required to brand and paint all logs. Any increased costs for log branding and painting shall be the responsibility of the Purchaser.

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

h. Safety

Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties on Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors, and subcontractors.

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

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

Exhibit F

SPECIAL PROVISIONS TO CONTROL THE SPREAD OF NOXIOUS WEEDS

Vehicle and Equipment Cleaning

1. Cleaning shall consist of the removal of soil and debris by washing with a high-pressure hose or steam cleaning. Cleaning and inspection sites will be agreed to by Purchaser and BLM. All petroleum product residues shall be contained at wash sites and dealt with in accordance to DEQ standards. Contractor shall provide an approved plan for the cleaning station that demonstrates that the station meets all DEQ and water quality regulations. All necessary permits shall be obtained by the contractor.

2. All equipment parts shall be cleaned as designated by the Authorized Officer, including removal of tractor belly plates, in accordance with Sec.1 above.

All construction, logging and slash disposal equipment shall be cleaned prior to entering the contract area. The Authorized Officer will determine if log trucks and vehicles used for transportation of personnel shall be cleaned, based upon the location of use immediately prior to current timber sale. If the vehicles have been in a weed-infested area, they shall be washed before entering Contract Area, as shown on Exhibit A.

EXHIBIT I

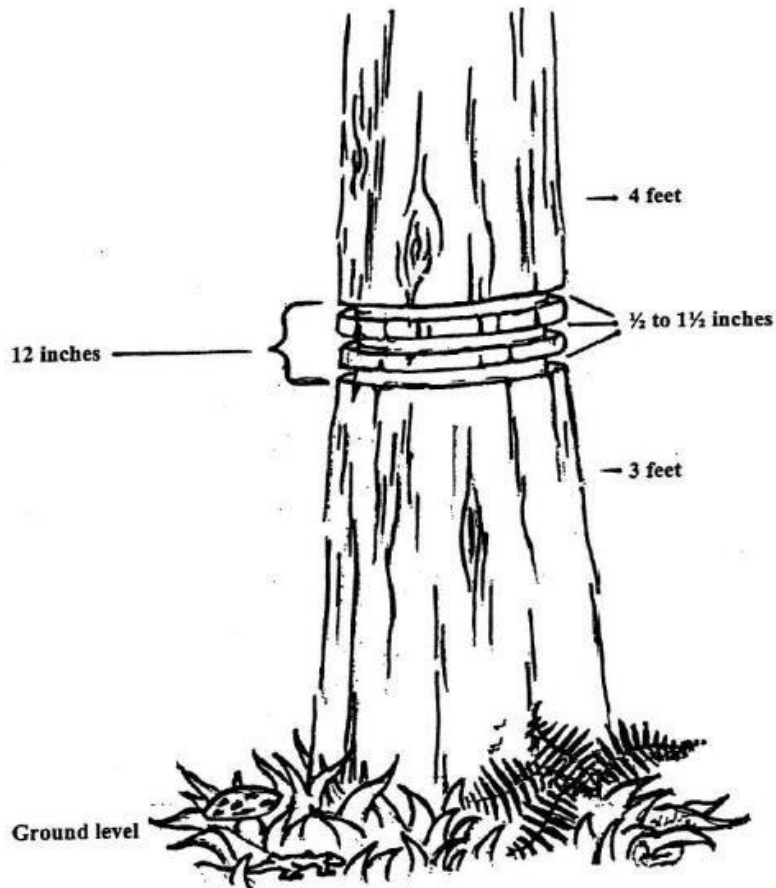
SPECIFICATIONS FOR BASAL GIRDLING

GENERAL:

- (1) Cut around the tree. Each cut must connect or extend at least three-fourths ($\frac{3}{4}$) of the circumference, around the tree and penetrate through the cambium layer into the wood at least one half ($\frac{1}{2}$ ") inch, but not more than one and half ($1\frac{1}{2}$ ") inches. The distance between the top cut and the bottom cut shall not exceed twelve (12") inches. Trees shall be girdled between three (3') feet and four (4') feet above ground level measured from the uphill side of the tree.

Illustration 1- Basal Girdling

Basal-Girdling example: make three (3) parallel unbroken cuts around the tree. The distance between the top and bottom of the cut shall not exceed twelve inches. Cuts must penetrate at least $\frac{1}{2}$ inch, but not more than $1\frac{1}{2}$ inches into the wood of the tree. Trees shall be girdled between 3 and 4 feet from the ground.



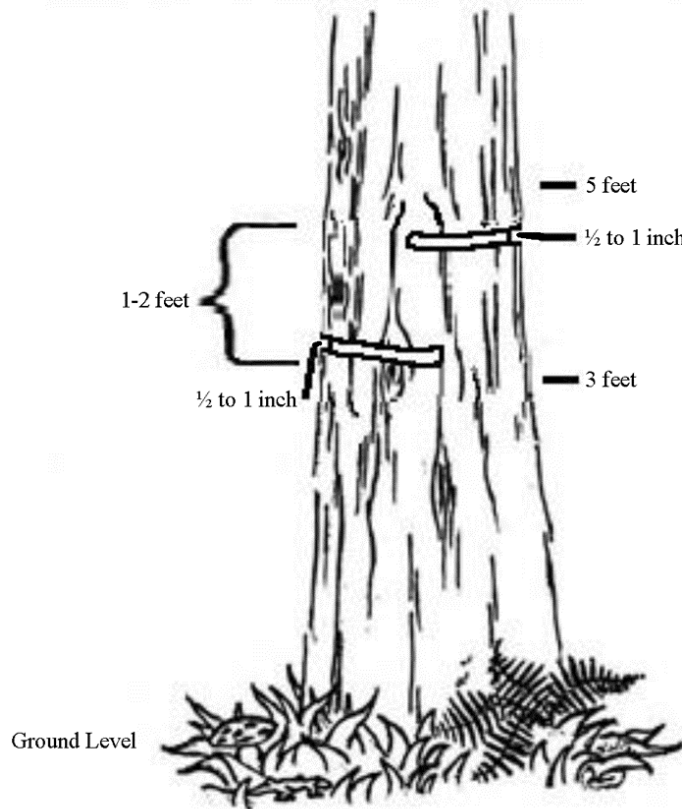
SPECIFICATIONS FOR BASAL GIRDLING

GENERAL:

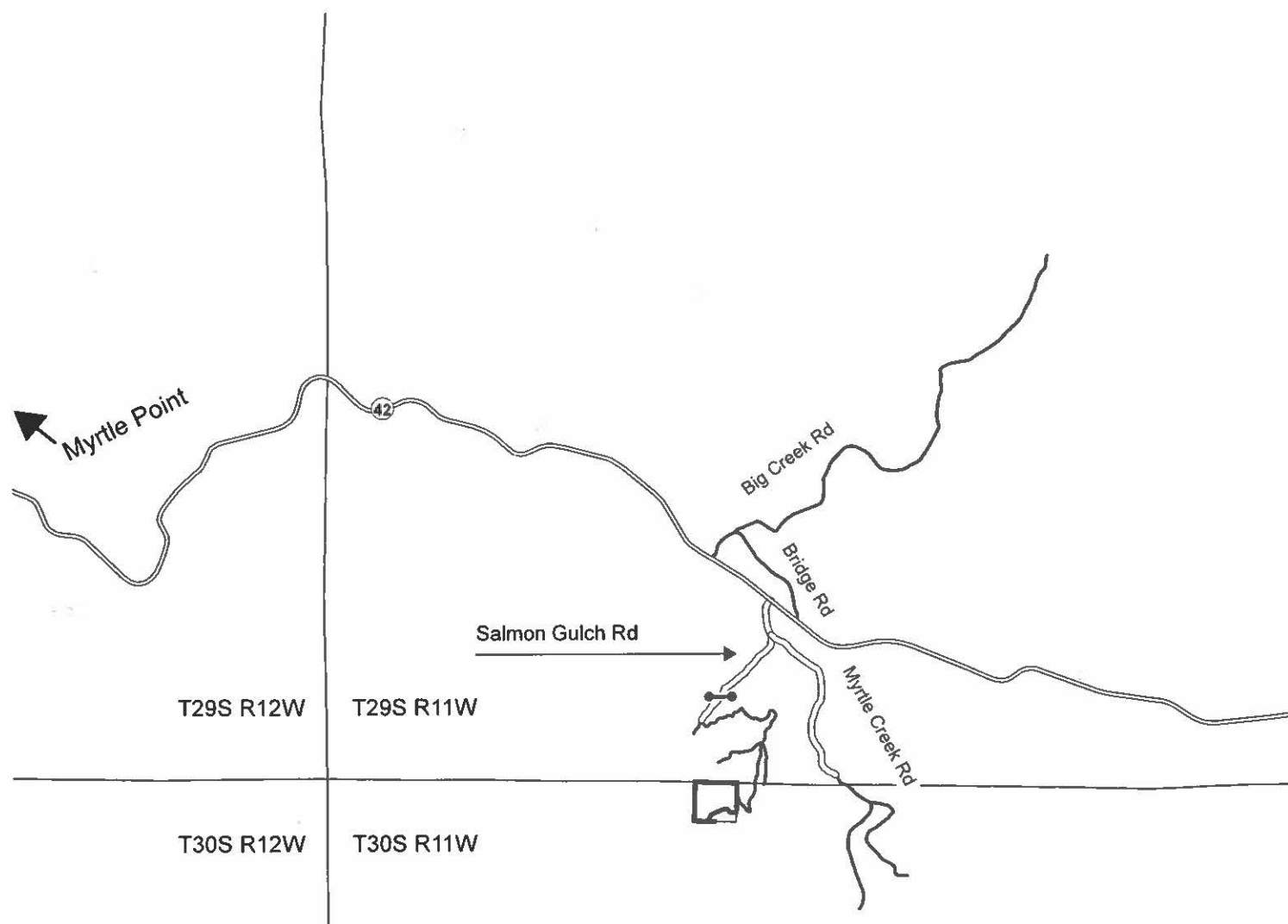
(1) Cut $\frac{1}{2}$ to $\frac{3}{4}$ circumference around the tree and penetrate through the cambium layer into the wood at least $\frac{1}{2}$ inch, but not more than 1 inch. The distance between the top and bottom cut shall be at least 1 foot apart but shall not exceed 2 feet and on opposing sides of the tree bole. Trees shall be girdled between three (3) and five (5) feet above ground level measured from the uphill side of the tree.

Illustration 1- Opposing Half-Girdle

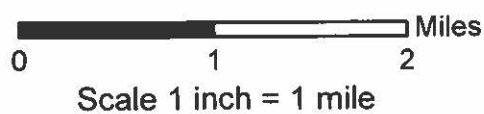
Opposing Half-Girdle example; make two (2) $\frac{1}{2}$ to $\frac{3}{4}$ circumference girdles 1-2 feet apart on opposing sides of the tree. Cuts must penetrate at least $\frac{1}{2}$ inch, but not more than 1 inch into the wood of the tree. The tree shall be girdled between 3 and 5 feet from the ground.



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EXHIBIT A-1
Page 1 of 1
King Salmon



-  Gate
 Boundary of Contract Area
 Harvest Unit Boundary
 Reserve Area
 Existing Road
 County Road
 Highway



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

TIMBER SALE CONTRACT MAP
USDI-BLM COOS BAY DISTRICT
T.30.S., R.11W., Sec. 4 Will. Mer.

SALE NO. ORC04-TS-2027-0030

EXHIBIT A
Page 1 of 2
King Salmon

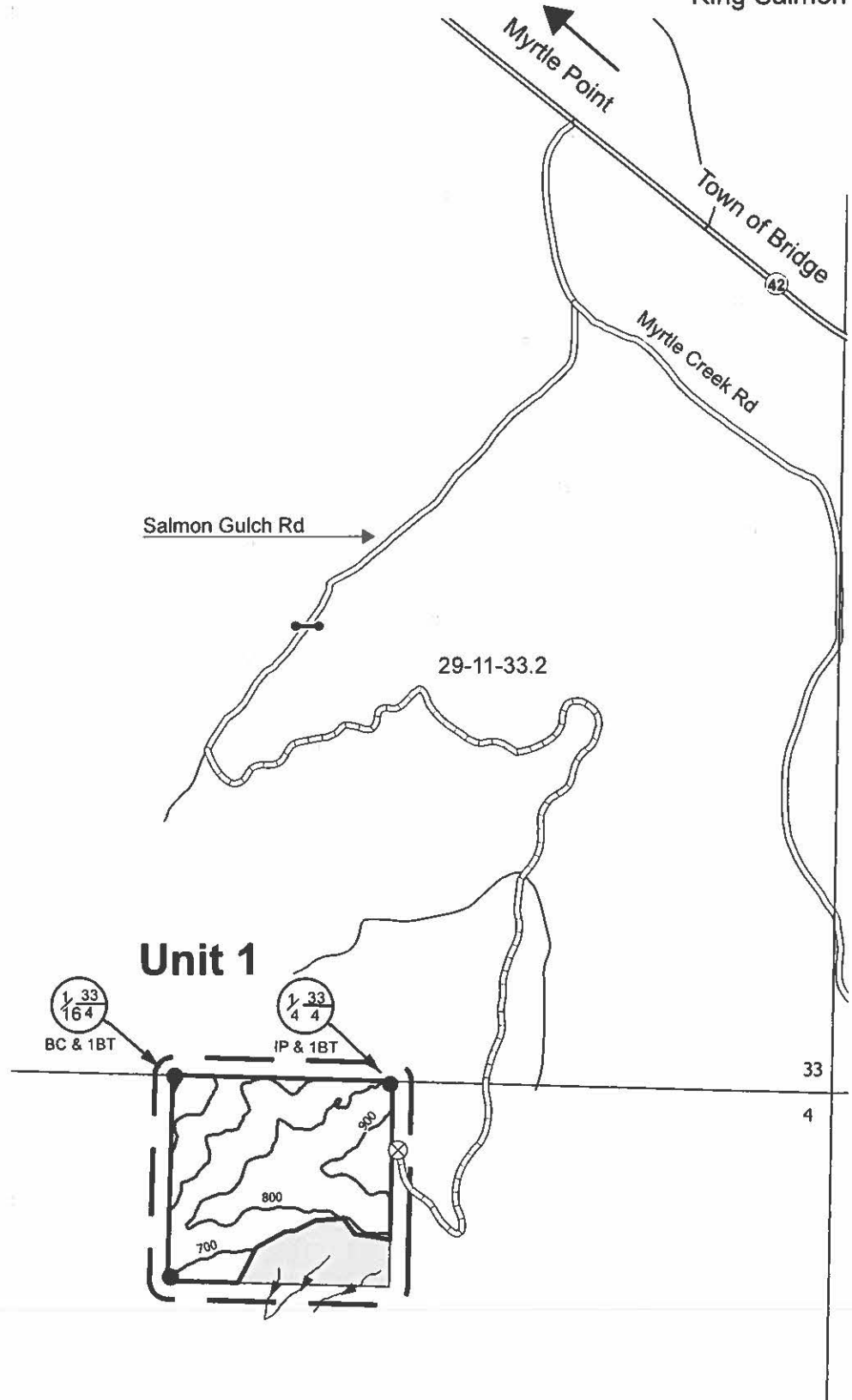
HARVEST AREA
UNIT 1 _____ 32 ACRES

Total _____ 32 ACRES

Total Reserve Area _____ 7 ACRES

Total Contract Area _____ 39 ACRES

-  Highway
-  County Road
-  Existing Road
-  Road to be Renovated
-  100' Contour
-  Stream Channel
-  Reserve Area
-  Boundary of Contract Area
-  Harvest Unit Boundary
-  Corner Found
-  Proposed Landing
-  Gate

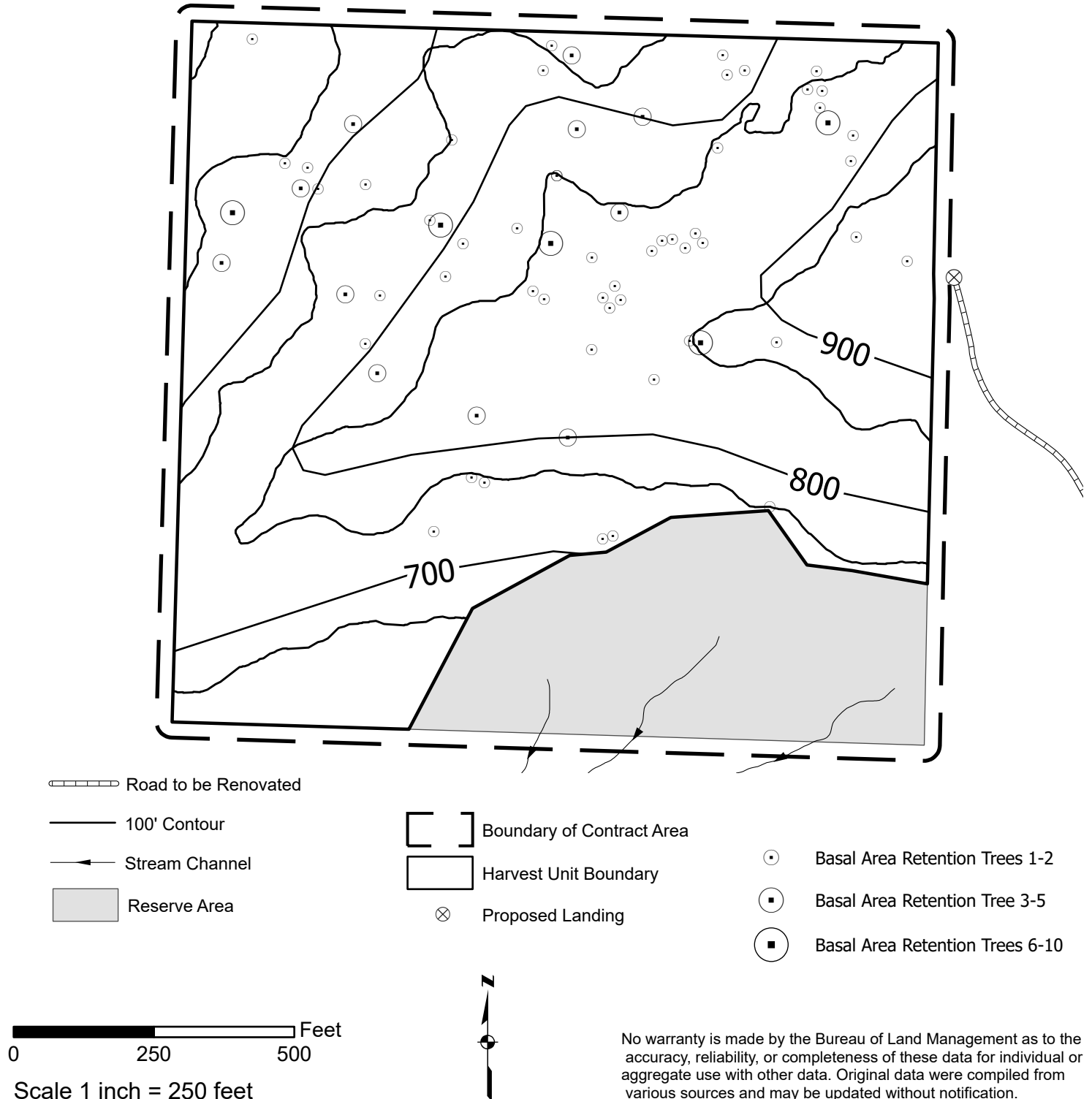


0 1,000 2,000 Feet
Scale 1 inch = 1000 feet

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

HARVEST AREA
UNIT 1 _____ 32 ACRES

Total _____ 32 ACRES
Total Reserve Area _____ 7 ACRES
Total Contract Area _____ 39 ACRES



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

Contract No.:

Sale Name:

Issuing Office:

**EXHIBIT B
SCALE SALE**

PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS

- I. **Timber and Other Wood Products Sold** - In accordance with Section 2 and 3, the Purchaser agrees to pay the Government for the timber and other wood products sold under the contract in accordance with the following schedule, measurement standards, and requirements. Wood products sold is comprised of Timber, Other Wood Products, and Timber and Other Wood Products Remaining as defined below. In the event an Extension of Time is approved, the prices per measurement unit may be subject to readjustment in accordance with Section 9 of the contract.

Timber Schedule		
Species	Unit of Measure	Price Per Measurement Unit
Other Wood Products Schedule		
Product/Species	Unit of Measure	Price Per Measurement Unit

The Authorized Officer shall establish unit of measure and price per measurement unit, in accordance with standard Bureau of Land Management (BLM) procedures, for any species or products not listed in this Exhibit that are cut or removed from the contract area.

- II. **Timber** – Includes standing trees, downed trees or logs, or portions thereof, which can be cut into logs that equal or exceed the specifications below.

All logs defined below, which have not been reserved to Government in Section 43 of the

contract, shall be designated as timber under this contract. Logs or portions of logs which equal or exceed all the following minimum log specifications shall be considered timber sold. The Purchaser shall pay for all timber removed in accordance with Section 3 of the contract at the price per measurement unit shown in Section I of this Exhibit.

- Log or portion of a log that is:
 - One third (1/3) sound.
 - Small End Diameter Inside Bark (DIB) – Five (5) inches
 - Length – Eight (8) feet four (4) inches

III. Other Wood Products – Includes timber and other woody material not meeting the timber specifications above (i.e., pulp, biomass, chips, hog fuel).

If Purchaser removes any products or species which do not meet the minimum log specifications for timber in Section II, such material shall be considered other wood products. Purchaser shall pay for other wood products in accordance with Section 3 of the contract at the price per measurement unit shown in Section I of this Exhibit.

IV. Timber and Other Woods Products Remaining - The remaining volume of any timber or other wood products, which have not been reserved to Government in Section 43 of the contract, shall be determined as provided in Section 3(g) of the contract using specifications set forth in the table below. The Purchaser shall pay for the sum of all remaining volume in accordance with Section 3 of the contract at the unit prices shown in Section I of this Exhibit.

Left Standing Timber	Felled Timber Not Removed
Diameter at Breast Height (DBH):	Small End DIB:
Log Height:	Log Length:
% Sound:	% Sound:
Net Tree Volume:	Net Log Volume:

V. Measurement Standards

1. **Log Scaling Loads:** All species or products in Section I, with MBF as the Unit of Measure shall be designated as log scaling loads.
 - a. Log scaling services shall be provided and performed by BLM Certified Scalers or BLM-authorized Third-Party Scaling Organizations (TPSO), as determined by the Authorized Officer. The Purchaser's employees or contractors may not perform log scaling.
 - b. All logs shall be scaled in Eastside Scribner Log Rules according to the Official Log Scaling and Grading Bureaus, Northwest Log Rules Eastside and Westside Log Scaling Handbook, as amended or supplemented, at the time the logs are scaled.
 - c. All logs shall be scaled using an authorized BLM log scaling method approved by the Authorized Officer in accordance with BLM prescribed procedures. A list of authorized BLM log scaling methods is available upon request.

- d. Purchaser shall ensure all logs are presented so that they may be scaled in an economical and safe manner.
- e. Scaling deductions made for rot, check or other defect resulting from abnormal delay in scaling caused by Purchaser shall be recorded separately and charged to the Purchaser in accordance with Section 3(g) of the contract when applicable. Avoidable delay in log scaling caused by the Purchaser that results in a measurable reduction in timber volume or quality would generally be considered abnormal delay, as determined by the Authorized Officer.
- f. Mechanical damage to logs that occurs during unloading identified by the TPSO will not be considered a deductible defect.
- g. The BLM will conduct check scaling using the following standards:
 Gross Scale - A variance of one and ½ percent (1.5%) in gross scale is the standard unless otherwise justified.
 Net scale - The allowable variance is as follows:

Check scaler's percent defect in logs	Scalers allowable variance
0-10 percent	2 percent
over 10 percent	0.2 * percent defect to a maximum of 5 percent

Determinations as to volume of timber made by a BLM check scaler in conformance with the standards as set forth herein shall be final. When such checks show a variance in scale more than acceptable standards, in two or more consecutive check scales, an adjustment to the volume reported as scaled will be made by BLM. Such adjustments will be made based on the difference between available BLM check scales and the original scale during the period covered by the unsatisfactory check scales. Unless otherwise approved in writing by the Authorized Officer, the volume to which this difference will be applied will be fifty (50) percent of the volume scaled between the last satisfactory check and the first unsatisfactory check, one hundred (100) percent of the volume scaled during the unsatisfactory check, and fifty (50) percent of the volume between the last unsatisfactory check scale and the next satisfactory check scale.

- 2. **Weight Loads:** All species or products in Section I, with Tons as the Unit of Measure shall be designated as weight loads.
 - a. All weight loads shall be weighed on State certified scales.
 - b. Scales must have a current inspection tag or seal posted which shows the date of the most recent test by the State weights and measures agency.
 - c. No load shall be presented for weighing that exceeds the certified capacity of the scales in use.
 - d. Each load shall be weighed as a single unit. Gross and tare weight must be

machine printed on a weight receipt. Average tare weights shall not be used, unless approved by the Authorized Officer. In addition to the gross and tare weight, the following shall be recorded with each weight receipt:

- Contract name and number
- Load Ticket number
- Date, time, and location the load was weighed

VI. Accountability

1. Purchaser shall notify the Authorized Officer 10 () business days prior to starting or stopping of hauling operations performed under the contract.
2. The Purchaser must provide the following information to the Authorized Officer 10 () business days prior to the commencement of haul: log scaling and weighing location(s), planned beginning haul dates, anticipated number of loads per day to each scaling or weighing location, logger name and contact information, and log brands to be used, and the log brand registration number(s).
3. A Scaling Authorization Form(s) must be completed and approved by the Contracting Officer prior to beginning of hauling operations. The Scaling Authorization(s) will include approved measurement methods, merchantability standards, sort descriptions, and authorized delivery locations for all loads hauled from the contract area. For log scale loads, all log scaling locations on the Scaling Authorization(s) are required to have a Log Yard Authorization with the BLM. Approved Scaling Authorizations will be provided to the Purchaser upon request.
4. All loads will be scaled and/or weighed at locations listed on the Scaling Authorization as approved by the Authorized Officer.
5. Purchaser shall notify the Authorized Officer 10 () business days in advance to request additional log scaling and/or weighing locations for approval on the Scaling Authorization(s).
6. Purchaser shall not intermingle BLM timber and other wood products with any other timber or wood products before log scaling and/or weighing occurs.
7. All logs on timber loads will be painted and branded at the landing and accounted for accordance with Section 44 of the contract. If contract area is within a State that maintains a log brand register, brands shall be registered with the State and Purchaser shall use assigned brand(s) exclusively on logs from this contract until the Authorized Officer releases the brand(s).
8. The Authorized Officer shall issue the Purchaser serially numbered load ticket books prior to any haul operations. The Purchaser shall sign a receipt for all ticket books received. The Purchaser shall accurately complete all load receipts in accordance with

the instructions on the front of the ticket books, or as directed by the Authorized Officer. Separate load ticket books will be used for timber and other wood products. Mule train timber loads will be treated as two separate loads with a ticket for each load. All load tickets will be marked with the cutting area number using a permanent marker or as directed by the Authorized Officer. The Purchaser shall deliver all loads to the log scaling or weighing location on the Scaling Authorization and listed on the BLM receipt. The load receipt and BLM receipt shall remain attached to the log load until it is scaled and/or weighed. For log scale loads, attach on the bunk or wing log at the front of the load on the driver's side, and surrender the load receipt and BLM receipt to the TPSO or Authorized Officer at the scaling location. For weight loads, either attach at the front of the load on the driver's side or place on the driver's side dashboard, attach the load receipt and BLM receipt to the weight receipt and deliver to the BLM weekly, unless otherwise directed by the Authorized Officer. The Purchaser will return all used load ticket books with woods receipts still attached to the BLM at the time new books are being issued. All unused and partial load ticket books, with receipts still attached, must be returned to the BLM upon completion of the contract and prior to final payment, or at the request of the Authorized Officer.

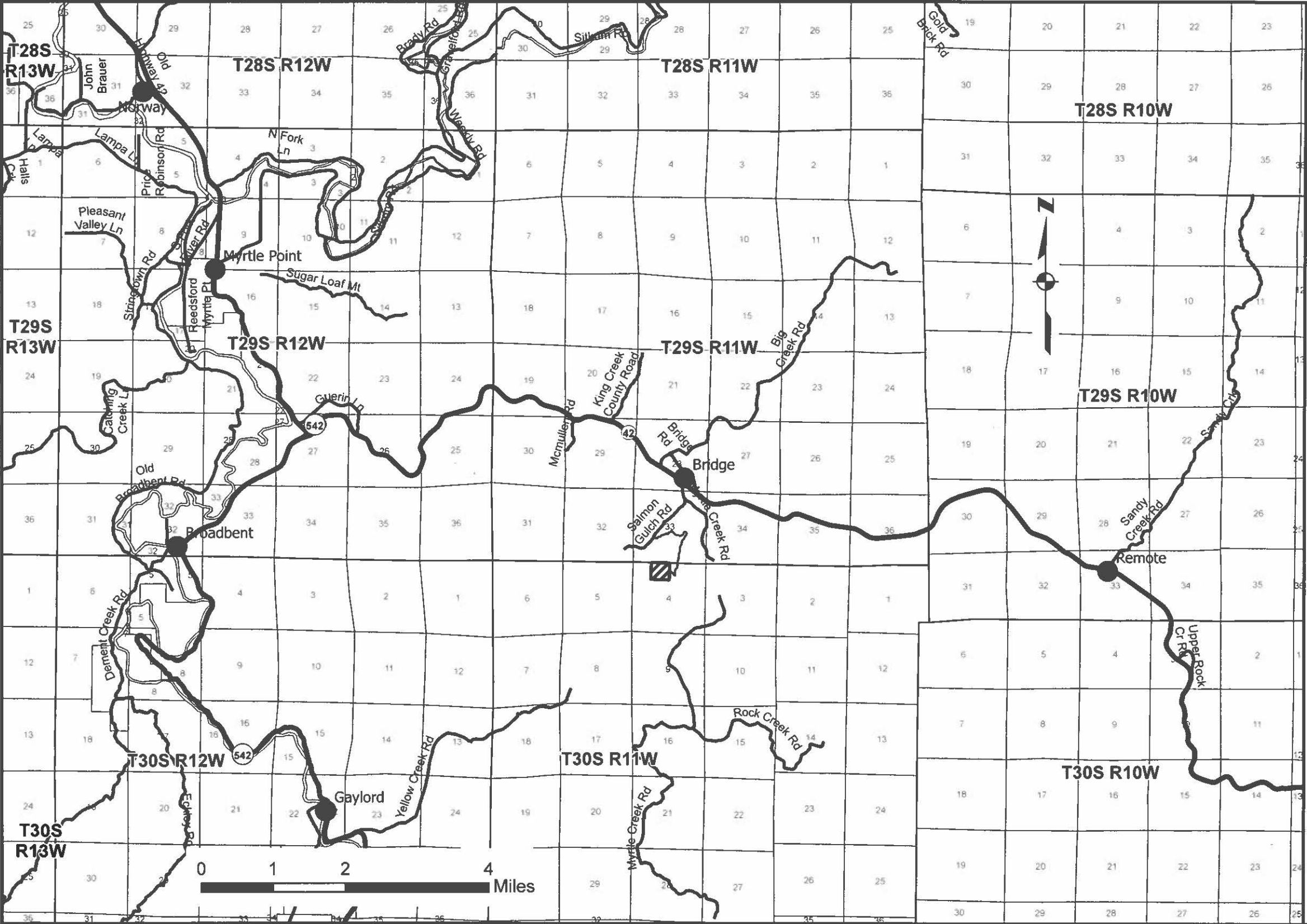
9. The Purchaser must account for all load receipts from each load ticket book. For all load receipts not accounted for, the Contracting Officer, at their sole discretion, will determine if the receipts are void or if the Purchaser shall pay damages for lost products. The value of lost products shall be equal to the highest value load for the month in which the receipt is lost. If no loads have been hauled in that month, value will be determined from the closest month in which loads were hauled. In the event a load receipt or load ticket book is lost or stolen, the Purchaser must immediately notify the Authorized Officer, and provide a complete explanation.
10. The Purchaser shall furnish BLM a map showing the route which shall be used to haul loads from the timber sale area to the log scaling/weighing location. Upon loading timber or other wood products in the contract area, all loads shall be hauled directly to the authorized scaling or weighing location as stated on the load receipt. The route of haul may be changed only with advance notice to and approval by BLM.
11. The Purchaser shall notify the Authorized Officer and receive advance authorization if any loads will arrive at an authorized scaling or weighing locations outside of their normal operating hours. No loads will be left on the truck for overnight storage without advance permission from the Authorized Officer.
12. If scaling or weighing services are unavailable, delayed or interrupted for any reason, hauling operations will cease immediately until services resume or an alternate scaling or weighing location is approved by the Authorized Officer.
13. Any removal of wood products from loaded trucks before being accounted for as required by the contract shall be considered a trespass and render the Purchaser liable for damages under applicable law in accordance with Section 13 of the contract. Any payment made for purchase of such loads shall be deducted from amount due because of trespass.

VII. Total Estimated Purchase Price – For administrative purposes, the following will be used for determining (1) when payments are due and (2) the value of timber or other wood products subject to any special bonding provisions in accordance with Section 3(f) of the contract.

1. When payments are made under Section 3 of the contract, the Authorized Officer shall determine the value of removed timber and other wood products using the Government's records of log scale and/or weight volumes removed from the contract area.
2. The estimated value of timber and other wood products not yet removed from the contract area will be determined by subtracting the Government's records for value of removed timber and other wood products from the estimated total purchase price as shown in the table below. The estimated Total Purchase price is calculated by multiplying the estimated volume or weight for all species/products, listed below, by the bid prices in Section 1.

Total Estimated Purchase Price for Timber and Other Wood Products			
Species/Product	Estimated Volume (MBF or Tons)	Bid Price (\$/MBF or \$/Ton)	Estimated Value
Total Estimated Purchase Price:			

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT
MYRTLEWOOD FIELD OFFICE



SHEET NO.	CONTENTS
1	TITLE SHEET
2	WORK LOCATION M
3	TYPICAL CROSS SECTION DETAILS
4-5	ESTIMATE OF QUANT
6	CULVERT INSTALLAT DETAILS
7	ROADSIDE BRUSHIN DETAIL
8-9	SPECIAL PROVISIO
10-11	ROADS WORKLIS
12-52	TIMBER SALE ROA SPECIFICATIONS

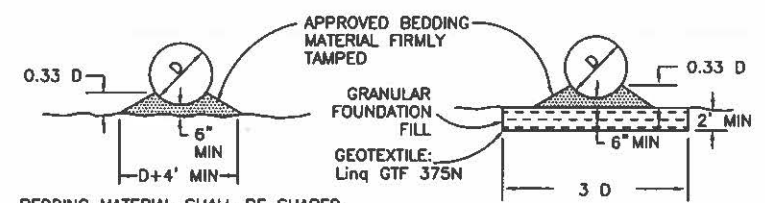
LEGEND
PROJECT AREA



U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TITLE SHEET	
PREPARED:	J. AGUILAR
REVIEWED:	L. MURPHY
APPROVED:	M. RUSSELL
DRAWN: JAA	SCALE: AS SHOWN
DATE 08/2026	SHEET 1 OF 52

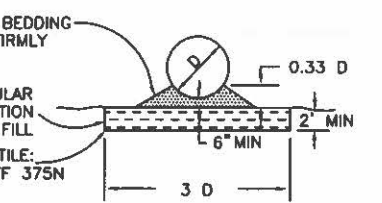
BEDDING OF CULVERTS

BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR COMPACTED EMBANKMENT



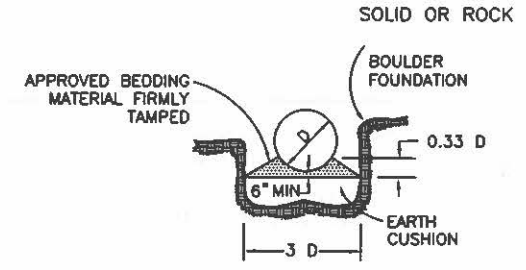
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION



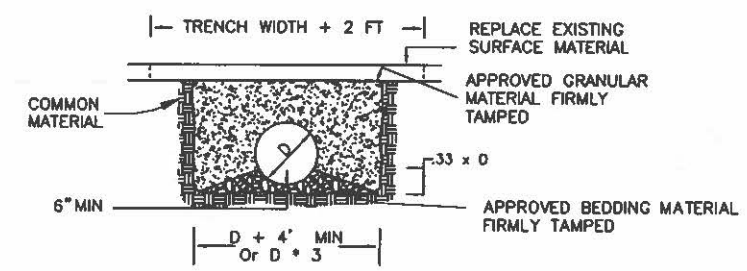
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS IN SOLID ROCK OR BOULDER FOUNDATION



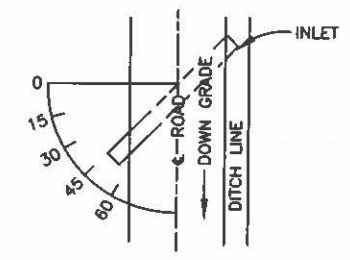
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAINTAIN 10" MIN. DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON EXISTING AGGREGATE SURFACED ROADS



BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. BACKFILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL.

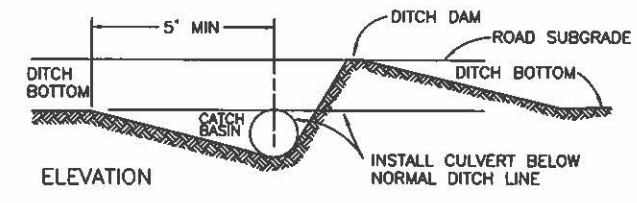
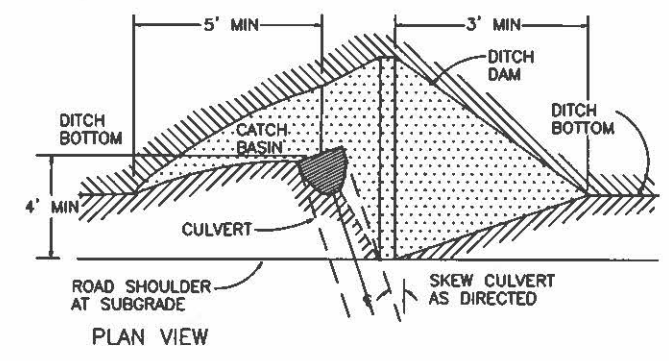
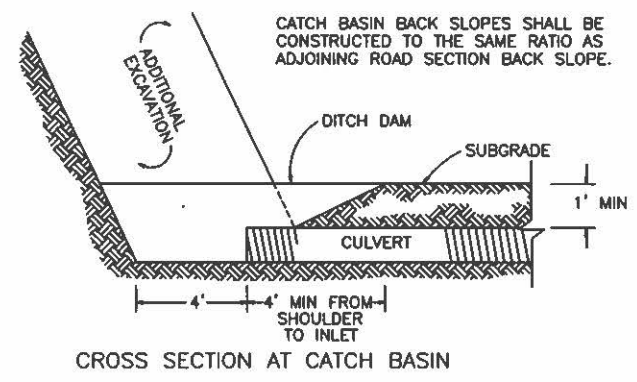
SKUEW DIAGRAM



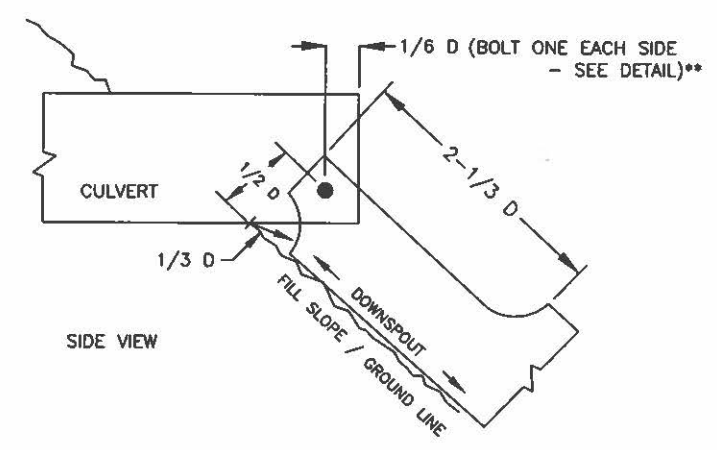
CULVERTS SHALL BE SKEWED DOWN GRADE 45 DEGREES AS MEASURED FROM THE PERPENDICULAR TO ROAD CENTERLINE UNLESS OTHERWISE SPECIFIED.

CULVERTS SHALL HAVE A GRADIENT OF 2%-4% GREATER THAN ADJACENT ROAD GRADE UNLESS OTHERWISE SPECIFIED.

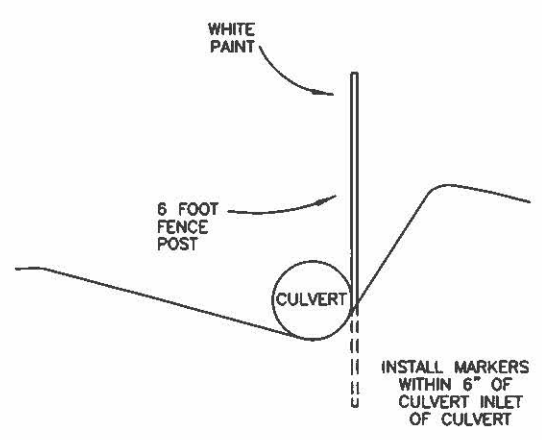
CATCH BASIN



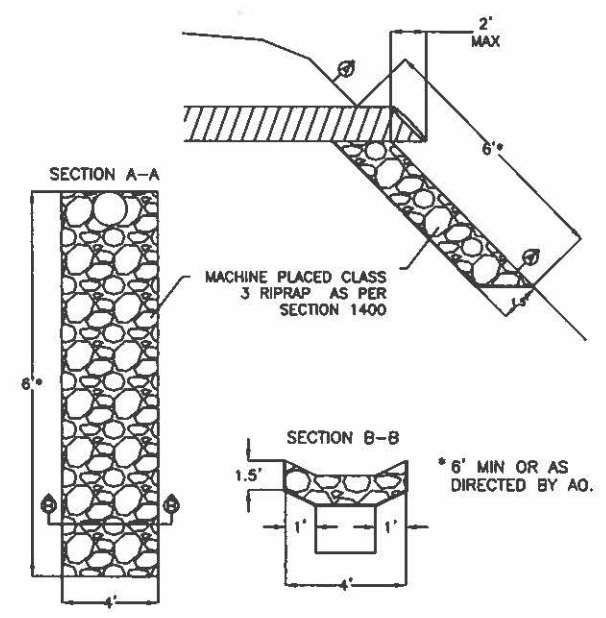
USE "ADJUSTABLE ELBOW" FOR DOWNSPUTS



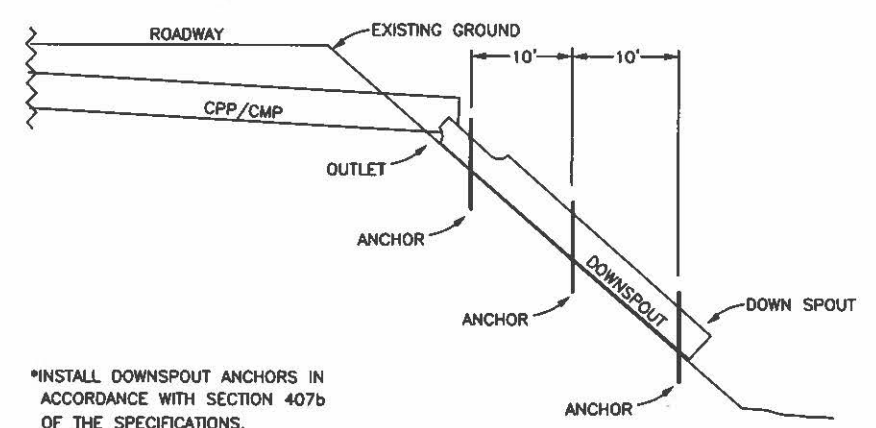
CULVERT MARKER DETAIL



ENERGY DISSIPATER DETAIL

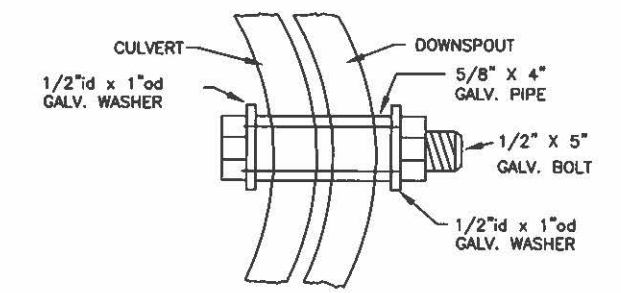


DOWNSPOUT ANCHOR DETAIL*



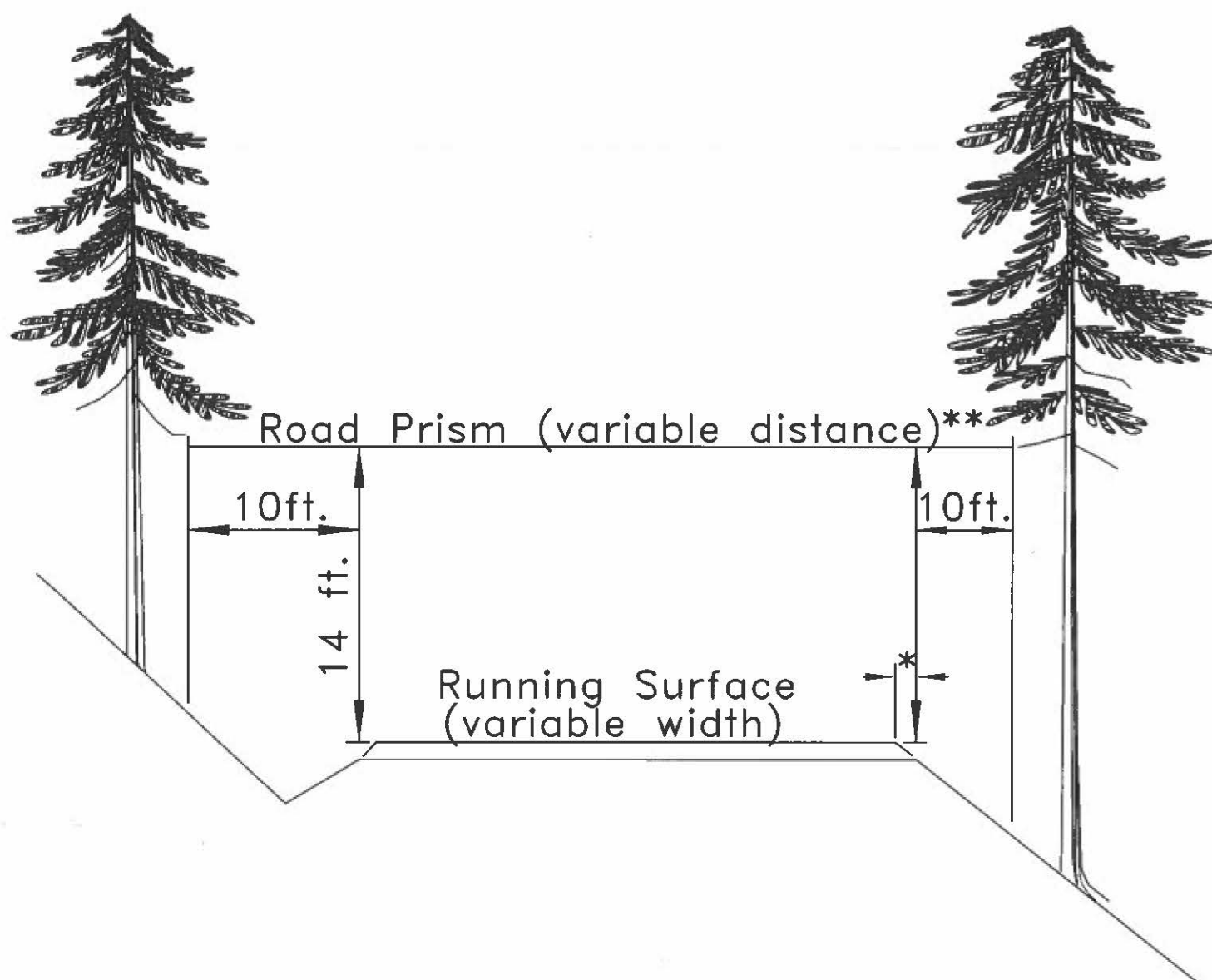
*INSTALL DOWNSPOUT ANCHORS IN ACCORDANCE WITH SECTION 407b OF THE SPECIFICATIONS.

BOLT ASSEMBLY DETAIL



ALWAYS THINK SAFETY

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON	
ORC04-TS-2027.0030 KING SALMON CULVERT DETAILS	
PREPARED	J. AGUILAR
REVIEWED	L. MURPHY
APPROVED	M. RUSSELL
DRAWN JAA	SCALE NONE
DATE 08/2026	SHEET 6 OF 52

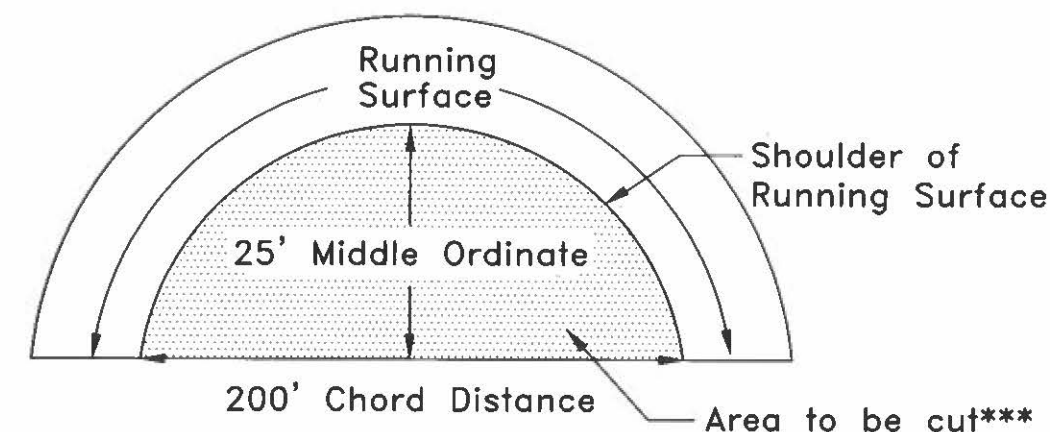


* Variable distance between running surface and start of fill slope.

** All areas within the variable distance shall be free of all vegetation capable of growing one (1) foot in height or higher, and free of all overhanging limbs and branches 14 feet in elevation above the running surface.

Roadside Brushing – Inside Corner

Sight Distance Diagram



*** Inside curves, upon BLM lands or in coordination with private landowners, shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot height, shall be cut within this area.



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT – OREGON	
ORC04-TS-2027.0030 KING SALMON ROADSIDE BRUSHING DETAILS	
PREPARED	J. AGUILAR
REVIEWED	L. MURPHY
APPROVED	M. RUSSELL
DRAWN JAA	SCALE NONE
DATE 08/2026	SHEET 7 OF 52

EXHIBIT C

-  King Salmon Timber Sale Unit
-  BLM Administered Land
-  Bureau of Indian Affairs
-  Private or Other Lands
-  Highway
-  Existing Road
-  Road to be Renovated
-  Gate
-  Bridge
-  Proposed Landing
- MP Milepost
- STA Station

T29S R11W

T30S R11W



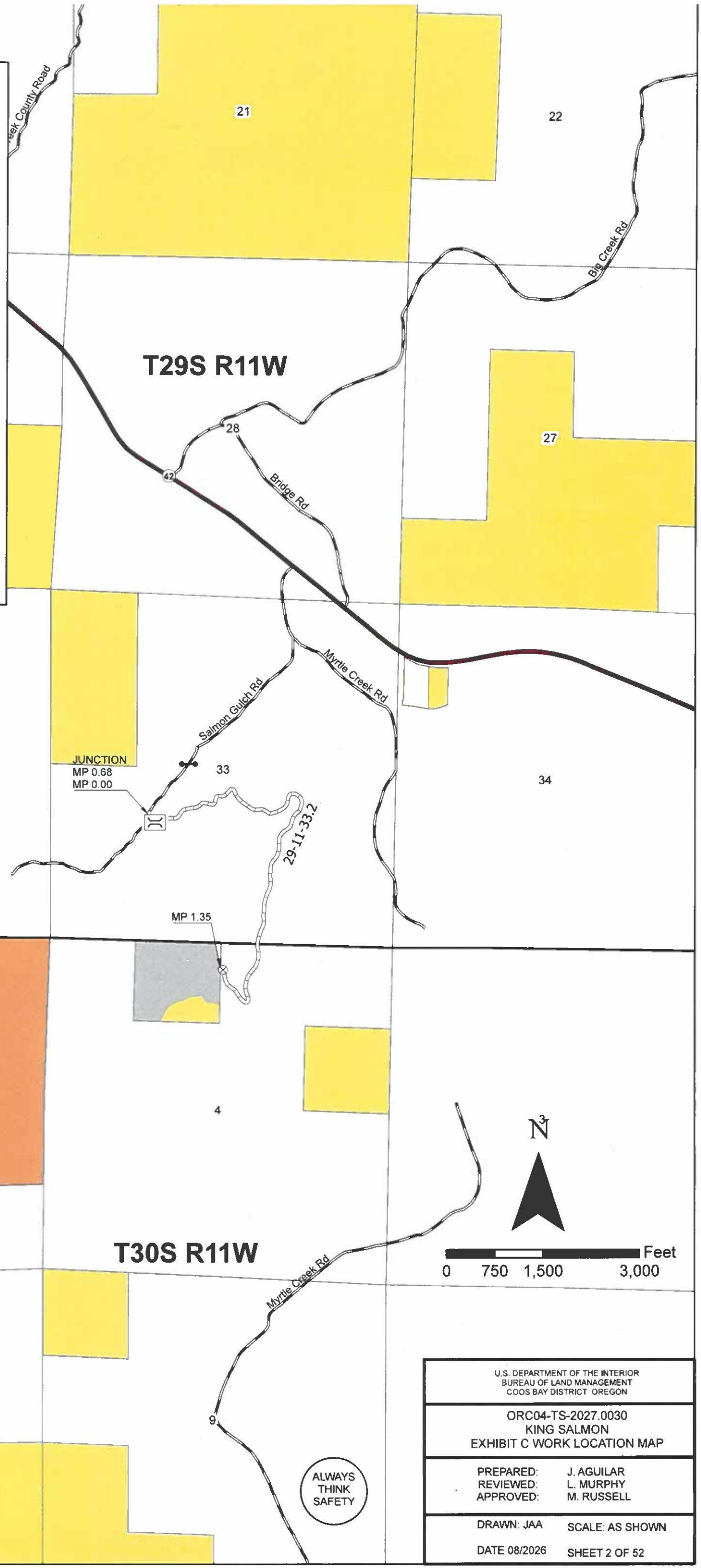
ALWAYS
THINK
SAFETY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

ORC04-TS-2027.0030
KING SALMON
EXHIBIT C WORK LOCATION MAP

PREPARED: J. AGUILAR
REVIEWED: L. MURPHY
APPROVED: M. RUSSELL

DRAWN: JAA SCALE: AS SHOWN
DATE 08/2026 SHEET 2 OF 52



SPECIAL PROVISIONS

Prewrite Conference

A prework conference will be held prior to the start of operations. The Purchaser shall request the conference at least **45 days** prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representative(s), subcontractor(s) and/or his or their representative(s) and the Authorized Officer and/or his representative(s).

Purchaser Responsibility

The Purchaser shall avoid damaging any bituminous and/or aggregate surfaced roads. The Purchaser will be responsible for the repair or the cost of repair of any road damaged as a result of activities. Bituminous and aggregate roads shall be left in the same condition that they were prior to Purchaser's activities.

Prior to any road construction, improvement, renovation of structures or roads, contact Oregon Utility Notifications Center (800-332-2344 or 811) for locations of buried lines or cables. The Purchaser shall be responsible for repair or replacement of any damage or destruction to structures, utilities, and cables.

When operations are in progress adjacent to or on roads and/or trails in the harvest unit area, Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with adequate warning of and protection from hazardous or potentially hazardous conditions associated with its operations. Purchaser shall prepare a Traffic Control Plan, which the Purchaser has determined is compliant with state and local OSHA and Transportation standards no later than the pre-work meeting and prior to commencing operations.

General Roadwork Season

All road construction, renovation, and decommissioning work would be done during the dry construction season, avoiding precipitation periods, between June 1 and October 15.

Uniform Optimum Moisture Content

Acceptable moisture content, as field tested by Authorized Officer, can be determined by hand clump test i.e., where a soil sample forms a firm ball by hand that does not crumble, free moisture is not visible on the surface, and material does not squeeze between fingers.

In-place Density and Relative Compaction Field Testing

Final subgrade, finished grading, and surfacing layers (Subsections 306, 306e, 504, 504a, 1012, and 1212) shall be observed by the Authorized Officer, as a truck with H-20 loading, loaded to GVW, travels over a length of half a mile of compacted surface. Testing vehicle shall complete four (4) passes, traveling at a rate of 350'/minute (4 MPH). There shall be no movement, indentation, or vertical displacement of the compacted surface. The half mile road segment, selected for testing, shall be identified by Authorized Officer. Loaded dump truck or water tender with operator shall be provided by Purchaser. Purchaser shall give Authorized Officer 3 days' notice to complete inspection of compaction. Compaction shall be approved in writing by the Authorized Officer. Compaction testing costs are included in roadwork appraisal.

Over-wintering

Roads shall be maintained and winterized in accordance with Exhibit D, Section 1700, and as directed by Authorized Officer. This work shall be completed prior to the first rains of the wet season, but no later than October 1 of each season.

Waste Areas

Waste areas, designated in plans or created at time of active operations, shall be sloped, shaped to drain, seeded, and mulched upon completion of use, in accordance with Sections 1700 and 1800 of the Timber Sale Road Specifications.

Spill Containment

Spill containment kit is required on-site during work.

Equipment Cleaning (Washing)

The Purchaser is responsible for vehicle and equipment cleaning in accordance with the Exhibit F.

Native Seed

The Government will furnish native seed mix for soil stabilization and if necessary, erosion control.

Rock Quantity Accounting

Purchaser shall provide Authorized Officer with rock tickets for all rock materials furnished to timber sale. Rock tickets will be physical duplicates of originals that are obtained from the commercial source utilized by Purchaser. Information on the rock tickets shall at minimum include commercial source, rock grade, quantity (cubic yards or tons), purchaser name, date, and end destination. Rock tickets will be provided to Authorized Officer within 3 days after placement of rock. Acceptance of road is conditional upon providing rock tickets.

ROADS WORKLIST

RENOVATE BLM ROAD NO. 29-11-33.2 (Private owned & controlled)
Milepost 0.00 to 1.35

MP.	Remarks
0.00	Junction with Salmon Gulch Road (county road) at milepost 0.68. Begin renovation, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1200, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist. NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 1 (3% Outsloped with identified drainage features) . Ditch backslope shall match adjacent road cut slope. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste area, however, when site conditions permit and with <u>written approval</u> from the Authorized Officer, excavated material may be placed in a stable manner upon fill slope utilizing equipment with a bucket. An estimate of 30 CY of material to be removed. NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 1 (3% Outsloped). Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance. NOTE: From milepost 0.00 to 0.08, place 20 CY 1.5-0" crushed aggregate surfacing as directed by BLM Authorized Officer. NOTE: Estimated 40 CY of cut slope failure material will be treated as directed by Authorized Officer. Estimated cubic yards of failure material includes specified and unspecified failures located along road.
0.02	Existing steel girder bridge with crushed aggregate surfacing – Private owned and controlled structure.
0.06	Existing 30" x 60' corrugated polyethylene pipe (CPP) stream crossing culvert. Clean inlet, outlet, and barrel.
0.08	Existing truck turnout left. Existing rock surfacing ends.
0.22	Existing 18" x 40' CPP cross drain culvert with associated dry swale. Clean culvert's catch basin, inlet, outlet, and barrel. Renovate any associated ditch.
0.39	Existing 18" x 40' CPP cross drain culvert with associated seep. Clean culvert's catch basin, inlet, outlet, and barrel. Renovate associated 150' ditch.
0.46	Existing 18" x 40' CPP cross drain culvert with associated seep. Clean culvert's catch basin,

- inlet, outlet, and barrel. Renovate associated ditch.
- 0.48 Remove cut slope failure (estimated 40 CY).
- 0.60 Renovate existing landing right for use as truck turnout.
- Designated waste area to be used as directed by Authorized Officer.
- 0.80 Junction with private road right, not proposed for timber sale use.
- 1.04 Existing 18" x 30' CPP cross drain culvert with associated seep. Clean culvert's catch basin, inlet, outlet, and barrel. Renovate associated 150' ditch.
- 1.11 Junction with private road right, not proposed for timber sale use.
- 1.35 Renovate end landing.
- End renovation.

TIMBER SALE ROAD SPECIFICATIONS

TABLE OF CONTENTS

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

Asterisks () on following pages indicate those Subsections always included for Sections.*

Please note, while the Timber Sale Road Specifications is tailored to individual projects, some Subsections are included for the purpose of addressing latent conditions and situations frequently encountered during active operations.

TIMBER SALE ROAD SPECIFICATIONS

GENERAL – 100

101* - Prewrite Conference(s):

A prework conference will be held prior to the start of operations. The Purchaser shall request the conference at least **45 days** prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representative(s), subcontractor(s) and/or his or their representative(s) and the Authorized Officer and/or his representative(s).

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

102* - Definitions:

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, pit run 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.

TIMBER SALE ROAD SPECIFICATIONS

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).

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

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.

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

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

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

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

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

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.

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

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.

TIMBER SALE ROAD SPECIFICATIONS

Slope ratio notation (horizontal: vertical) – Slope ratios for constructed cut and fill slopes are expressed as a ratio of horizontal units to vertical units.

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

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.

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

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

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.

TIMBER SALE ROAD SPECIFICATIONS

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

Unaged 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:

<u>AASHTO T 11</u>	Quantity of rock finer than No. 200 sieve.
<u>AASHTO T 27</u>	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
<u>AASHTO T 89</u>	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
<u>AASHTO T 90</u>	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.
<u>AASHTO T 96</u>	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
<u>AASHTO T 99</u>	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.
<u>AASHTO T 119</u>	Slump of hydraulic cement concrete.
<u>AASHTO T 152</u>	Air content of freshly mixed concrete.
<u>AASHTO T 166</u>	Specific Gravity of compacted Bituminous Mixtures.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.

TIMBER SALE ROAD SPECIFICATIONS

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| <u>AASHTO T 180</u> | (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height. |
| <u>AASHTO T 191</u> | <u>Sand Cone.</u> Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone. |
| <u>AASHTO T 205</u> | <u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil. |
| <u>AASHTO T 209</u> | Maximum Specific Gravity of Bituminous Paving Mixtures. |
| <u>AASHTO T 210</u> | Durability of aggregates based on resistance to produce fines. |
| <u>AASHTO T 224</u> | Correction for coarse particles in the soil. |
| <u>AASHTO T 238</u> | Density of Soil and Soil-Aggregate in place by nuclear methods. |
| <u>AASHTO T 248</u> | Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling. |
| <u>ASTM D 4564</u> | Determination of relative density of cohesionless soils. |
| <u>DMSO (dimethyl sulfide)</u> | Determines volume of expanding clays in aggregates. Usually associated with marine basalts. |
- 103* - Compaction equipment shall meet the following requirements:
- 103a - Padded Drum 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.
- 103b - Sheepfoot rollers. A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7 inches from the face of the drums.
- The distance between circumferential rows of tamper feet shall be such that the diagonal distance from any foot to the nearest foot in each adjacent row shall be not more than 12". The cross-sectional area of the face of each tamper foot, measured perpendicular to the axis of the stud, shall be not less than 5-1/2 square inches nor more than 8 square inches.

TIMBER SALE ROAD SPECIFICATIONS

The weight of the tamping-roller unit shall be such as to exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet, and the roller shall be so designed that the weight may be increased to exert a pressure up to 500 pounds per square inch on the ground area in contact with the tamping feet. The ground pressure shall be determined by dividing the total weight of the roller unit, not including the weight of the tractor, by the total cross-sectional area of the tamping feet in one row of tamping feet parallel to the axis of the roller.

- 103c - Smooth-wheel power rollers. Smooth-wheel power rollers shall either be of the 3-wheel type, weighing not less than 10 tons, or of the tandem type, 2-wheel, or 3-wheel, weighing not less than 8 tons. Smooth-wheel roller shall provide compression of 325 pounds per linear inch of width of rear wheels or drum.
- 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 space 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.

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- 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.
- 103h - Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibration frequency shall be regulated in steps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.
- 103i - Other. Compaction equipment approved by the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

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 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 202a - Where clearing limits for structures have not been staked or shown on the plans, the limits shall extend 10 feet out from the outside edge of the structure.
- 202b - Where clearing limits for borrow pits and ditches have not been staked or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet outside of the outside slope lines.
- 203* - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202, as shown on the plans, and as posted.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 203c - Disposal of logs from private timber cleared within the limits established as shown on the plans shall consist of decking at a location designated by the Authorized Officer.
- 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. When authorized, 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.

TIMBER SALE ROAD SPECIFICATIONS

- 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.
- 210 - Disposal of clearing and grubbing debris shall be by piling or scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. **The areas for such piling or scattering shall have the prior approval of the Authorized Officer.** Piled slash may be used as mulch during road decommissioning.
- 210a - Disposal of clearing and grubbing debris on non-government property by scattering and/or piling this material outside of clearing limits will be permitted provided the **Purchaser obtains a written permit from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the permit and a written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.**
- 212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

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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.
- 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.
- 303a - Excavated material shall not be wasted as sidecast or perched. All material perched or sidecast as waste shall be retrieved and disposed of at the Purchaser's expense and at the direction of 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 shown on the plans.
- 305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. **Roadway embankments** of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.

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- 305c - Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent rock not larger than 12 inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- 305d - Where embankments are constructed predominantly of blasted rock material, depth of layers shall not exceed 4 feet. Rock fragments having dimensions greater than 4 feet will be permitted provided that they have no dimensions greater than 6 feet and that clearance between adjacent fragments is adequate for the placing and compacting of material in horizontal layers as specified, and that no part of the larger fragments comes within 4 feet of subgrade.
- 306* - Layers of embankment, selected borrow, final subgrade, and selected roadway excavation material as specified under Subsections 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f and 103i.

NOTE: SPECIAL PROVISION- Uniform Optimum Moisture Content shall apply to Subsection 306.

- 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.

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- 306e - The final subgrade including landings, truck turnouts, and truck turnarounds shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f 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.

NOTE: SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 306e.

- 306g - **All fill slopes shall be compacted to 85 percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.**
- 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.

TIMBER SALE ROAD SPECIFICATIONS

- 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.

NOTE: Additional material excavated in accordance with Subsections 313 and/or 314 should not be viewed as a design change.

- 315 - Borrow material required for the construction of embankment or for other portions of the work shall be obtained from sources as shown on the plans.
- 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 from sources shown on the plans.
- 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 shown on the plans and as directed by the Authorized Officer.
- 318 - Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed (6) inches in depth until the required thickness shown on the plans is attained.

Each layer shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

- 320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.

TIMBER SALE ROAD SPECIFICATIONS

- 321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsections 321a and/or 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.

NOTE: Any material being hauled over gravel or bituminous surfaced roads will be transported in vehicles which meet legal highway weight requirements while hauling.

- 321a - Excess construction materials specified under Subsection 321 shall be loaded, hauled, and disposed of at a designated disposal site or placed as embankment for designated roadbeds as shown on plans.
- 321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- 324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 327* - The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations and start of surfacing operations.

TIMBER SALE ROAD SPECIFICATIONS

PIPE CULVERTS - 400

- 401* - This work shall consist of furnishing and installing pipe culverts, full round downspouts, and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 403 - Grade culverts shall have a gradient of 2%-4% percent greater than the adjacent road grade unless otherwise specified. Grade culverts shall be skewed down grade 45 degrees as measured from the perpendicular 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 metallic coated steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274 as specified on the plans.
- 405e - Corrugated-polyethylene pipe for culverts 18-inch through 36-inch diameter shall meet the requirements of AASHTO M 294, Type S.

Corrugated-polyethylene pipe for culverts to be used for downspouts 18-inch through 24-inch diameter shall meet the requirements of AASHTO M 294, Type C. Installation will be subject to the same specification as other pipe materials.
- 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.

TIMBER SALE ROAD SPECIFICATIONS

- 406a - "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.
- 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.
- 407b - Full round culvert downspouts conforming to the material and construction requirements (i.e., adjustable elbow) shall be anchored in accordance with details, dimensions, and typical diagrams as shown on Culvert Details sheet. Downspouts will be anchored with two six-foot steel fence posts (one on each side of the pipe) wired together with No. 12 galvanized wire. These anchors will be placed every ten feet along the pipe beginning at outlet of culvert.
- 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* - Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411* - Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram that are shown on the Culvert Detail sheet.
- 412 - Where ledge rock or boulders are encountered, they shall be excavated a minimum of 10 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled, as directed by the Authorized Officer, with selected granular or fine readily compactable soil material or crushed rock material in accordance with Section 1200 gradation.

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- 412a - Where soft or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled, as directed by the Authorized Officer, with selected granular or fine readily compactable soil material or crushed rock material in accordance with Section 1200 gradation.
- 413* - Pipe culverts and pipe-arch culverts shall be bedded on a selected granular, crushed rock material in accordance with Section 1200 gradation (E-1), or fine readily compactable soil material, as directed by Authorized Officer, having a depth of not less than 6 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- 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 48 inches or larger 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 at the Purchaser's expense.
- 416* - Side-fill material for pipe culverts shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel, and to 1 foot over the pipe with fine, readily compactable soil, or crushed rock material in accordance with Section 1200 gradation (E-1), or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.
- 417* - For pipe culverts: Side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 6 inches in depth and 1 pipe diameter, or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of 85 percent of the maximum density, is attained as determined by AASHTO T 99, Method C.

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NOTE: *SPECIAL PROVISION - Uniform Optimum Moisture Content shall apply to subsection 417.*

- 418 - Side 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 for culverts.
- 424 - Construction of energy dissipaters (splash pads) conforming to lines, grades, dimensions, and typical diagram shown on the plans, shall be required for culverts as indicated on Roads Worklist.
- 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.
- 426 - Culvert markers consisting of 1/2-inch round steel bars 4 feet in length bolted to the culvert at the inlet or 6 foot steel fence posts painted white, shall be furnished, fabricated, and installed by the Purchaser at culverts as shown on the plans and as directed by the Authorized Officer.
- 428 - Remove and dispose of old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the work site prior to road acceptance.
- 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 waterflow 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.

TIMBER SALE ROAD SPECIFICATIONS

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, installing culverts and energy dissipaters, brushing vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications and as shown on the plans.
- 501a - This work shall include the removal and disposal of slides in accordance with these specifications.
- 502 - The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans at the following location(s):

Road No.	From Sta./M.P.	To Sta./M.P.
All crushed rock surface roads listed in Roads Worklist.	See Roads Worklist	See Roads Worklist
All native surface roads listed in Roads Worklist.	See Roads Worklist	See Roads Worklist

- 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 specified in Roads Worklist or as directed by the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

- 504 - Scarified material and existing road surfaces shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f 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.

NOTE: SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 504a.

- 506 - The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- 507 - Existing and new drainage structures shall be replaced or placed 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 Section 2100 of these specifications.
- 509 - The finished grading shall be approved in writing by the Authorized Officer 3 days prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.

TIMBER SALE ROAD SPECIFICATIONS

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

TIMBER SALE ROAD SPECIFICATIONS

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 a commercial source 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 3 manufactured fractured faces on 75 percent, by weight, of the material retained on the No. 4 sieve.

TIMBER SALE ROAD SPECIFICATIONS

- *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)

GRADATION

Sieve Designation	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	0-10
No. 8	-	-
No. 10	-	-
No. 30	-	-
No. 40	5-25	-
No. 200	2-15	-

TIMBER SALE ROAD SPECIFICATIONS

- 1005 - Crushed rock material shall not exceed (35) percent loss as determined by AASHTO T 96.
- 1006 - Crushed rock material shall show durability value of not less than 35, as determined by AASHTO T 210.
- 1007 - That portion of 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 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

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
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.

TIMBER SALE ROAD SPECIFICATIONS

- 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 3 days prior to that inspection and shall be 6 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 compacted in layers not to exceed 4 inches in depth for 3-0" or not to exceed 6 inches in depth for 6-0" . When more than one layer is required, each shall be shaped, processed, compacted, 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 Subsection 103f 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.

NOTE: *SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 1012.*

TIMBER SALE ROAD SPECIFICATIONS

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 the rock materials furnished comply with the specifications.
- *1203 - When crushed rock material is produced from gravel, not less than 75 percent by weight of the particles retained on the No. 4 sieve will have 3 manufactured fractured faces.

TIMBER SALE ROAD SPECIFICATIONS

- *1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE

CRUSHED ROCK MATERIAL

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

GRADATION

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

- 1205 - Crushed rock material shall not exceed 35 percent loss as determined by AASHTO T 96.
- 1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.
- 1206a - The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.

TIMBER SALE ROAD SPECIFICATIONS

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

TABLE 1207a

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
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.

TIMBER SALE ROAD SPECIFICATIONS

- *1209 - Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance with the requirements of Subsections 500 for placing on the roadbed and landings. Notification for final inspection prior to rocking shall be 3 days prior to the inspection and shall be 6 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, and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
 - 1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
 - 1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection 103f. Minimum compaction shall be one (1) hour of continuous compacting for each 150 cubic yards of crushed rock material placed per layer, or fraction thereof.
- NOTE:** *SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 1212.*

TIMBER SALE ROAD SPECIFICATIONS

SLOPE PROTECTION - 1400

- *1401 - This work shall consist of furnishing, hauling, and placing stone materials (rip rap) for slope protection structures and energy dissipaters (splash pads) in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross-sections shown on the plans and Roads Worklist. Material not conforming to these specifications will be rejected and shall be removed from the slope protection structure at the purchaser's expense as directed by the Authorized Officer.
- *1402 - Stone material shall consist of hard, durable, angular in shape quarry rock of such quality that it will not disintegrate on exposure to water or weathering and shall be graded in accordance with these specifications.
- 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.

TIMBER SALE ROAD SPECIFICATIONS

1405 - Rip rap shall conform to the following gradations:

TABLE 1405¹

Class	Range of Intermediate Dimensions ² (inches)	Range of Rock Mass ³ (pounds)	% of Rock Equal or Smaller by Count
0	6-8	18-42	100
	5-6	10-18	85
	2-5	1-10	50
	0-2	0-1	15
1	9-15	59-270	100
	7-11	28-110	85
	5-8	10-42	50
	3-6	2-18	15
2	15-21	270-750	100
	11-15	110-270	85
	8-11	42-110	50
	6-8	10-42	15
3	21-27	750-1600	100
	15-19	270-560	85
	11-14	110-220	50
	8-10	42-81	15
4	27-33	1600-2900	100
	19-23	560-990	85
	14-17	220-400	50
	9-12	59-140	15

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

- 1405a - Stone materials shall show a durability value of not less than 50 as determined by AASHTO T 210.
- 1405b - Stone materials shall conform to a minimum apparent specific gravity of 2.50 and a maximum absorption of 4.2 percent as determined by AASHTO T 85.
- 1406 - The placement of slope protection stones by the end dumping method is not permitted.
- 1406a - The embankment shall be placed (with excavator) 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.
- *1407 - Determination of the acceptability of the slope protection material gradation will be through visual inspection, and/or 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 and Roads Worklist shall be approved prior to placing the slope protection material.
- 1408b - The Purchaser shall excavate unsuitable roadway material as shown on the plans, details, Roads Worklist, or directed by the Authorized Officer prior to the placement of the required rock structures.
- 1409 - Slope protection material shall be placed so as to form the cross sections shown on the plans.
- 1410 - Specified embankment slopes shall be protected and/or stabilized by placement of rock materials to form a slope-protection structure conforming to the construction requirements and details of these specifications.

TIMBER SALE ROAD SPECIFICATIONS

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.
- 1703 - This work shall consist of furnishing and installing straw wattle check dams and sediment fences in accordance with these specifications and in reasonably close conformity with the requirements and details specified by the Special Provisions and 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.
- 1705 - The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 25,000 square feet without prior approval by the Authorized Officer.
- 1706 - The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right-of-way shall not exceed 25,000 square feet without prior approval by the Authorized Officer.
- 1707 - Completed and partially completed segments of roads carried over the winter and early spring periods shall be stabilized by mulching as directed by Authorized Officer. Mulching shall be in accordance with Section 1800.
- NOTE: *EXHIBIT D - 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, after initial commencement of construction or logging operations.*
- 1708 - Newly constructed or graded roads to be carried over the winter period, shall be blocked to vehicular traffic as directed by Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

- 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.

TIMBER SALE ROAD SPECIFICATIONS

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.
- 1802a - Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation, improvements, landings, disturbed areas, borrow sites, disposal sites, and special areas in accordance with these specifications and as shown on the plans.
- 1803 - Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal periods:

From: March 15	To: April 30
From: September 1	To: October 15

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Section 1700 and then complete the requirements of Section 1800 the next construction season.

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

- 1803a - The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.
- 1804 - The BLM shall provide native grass/forb seed.
- 1806 - The Purchaser shall apply the seed mixtures specified under Subsection 1804 to the corresponding seeding projects as shown on Estimate of Quantities and Roads Worklist .

TIMBER SALE ROAD SPECIFICATIONS

- 1806a - Additional soil stabilization work consisting of seeding and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 1808 - Mulch materials conforming to the requirements of Subsections 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1812.
- 1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.
- 1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.
- 1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding will not be permitted.
- 1811 - The Purchaser shall furnish and apply to the areas designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806, grass seed, fertilizer, and mulch material at the following rate of application:

b. Dry Application:

Grass & Legume Seed	20 lbs./acre
Mulch	4000 lbs./acre

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

TIMBER SALE ROAD SPECIFICATIONS

- 1812 - Mulches shall be spread/placed in treatment areas to a depth of 1 inch or as directed by the Authorized Officer. Treatment area will be covered evenly and completely. Mulch can be broadcast onto the soil surface by hand or with hand/mechanical operated spreaders.
- 1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.
- 1815 - The seed and mulch materials shall be placed by dry method in accordance with the requirements set forth in Subsection 1815b.
- 1815b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, or other approved mechanical seeding equipment may be used when seed to be applied in dry form.
- 1818 - The maximum horizontal distance to be seeded and mulched from the road centerline shall be 50 feet for the cut slopes and 50 feet for the fill slopes.
- 1819 - The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- 1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- 1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

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, and at designated locations as shown in the plans.
- *2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.
- *2103 - Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at D.B.H.O.B. 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 roadbed 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 at D.B.H.O.B shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 12 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2106 - Vegetation 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.

TIMBER SALE ROAD SPECIFICATIONS

- 2107 - Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot in height, shall be cut within these areas.
- 2108 - Self-propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 - Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations or be placed against trees. Debris in excess of 1 foot in length and ½ inch in diameter shall not be allowed to remain on cut slopes, ditches, roadways, or water courses, or as directed by the Authorized Officer.
- 2115 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2116 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 8.0.0.34
Updated: 11/4/2022

Summary of All Roads and Projects

T.S. Contract Name: King Salmon Tract No: 2027.0030 Sale Date:
Prepared by: JAA Ph: 5417514397 Print Date: 8/21/2026 10:41:51 AM
Construction: 0.00 sta
Improve: 0.00 sta Renov: 71.28 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing*: 0 acres	\$0.00
300 Excavation:	\$0.00
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	\$0.00
Culvert: 0.00 lf	DownSpout: 0.00 lf
PolyPipe: 0.00 lf	
500 Renovation*:	\$1,996.42
Blading 1.35 mi	
Bank Failure Removal and Ditch Cleaning 70.00 cy	
700-1200 Surfacing:	\$537.10
Commercial Quarry Name: Bridge 1.5-0" Spot 20.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.70 acres	\$1,934.93
Includes Small Quantity Factor of 1.50	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing**:	\$940.26
Mechanical Brushing: 3.27 acres	
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$4,763.00 Surf. \$0.00.....	\$4,763.00
Quarry Development:	\$0.00

Total: = \$10,171.70

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are loose cubic yards.

*If not shown may be included in Section 300.

**If not shown may be included in Section 200.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: King Salmon Sale Date:

Road Number: 29-11-33.2 Road Name:

Road Renovation: 1.35 mi 16 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$1,996.42
Blading 1.35 mi	
Slide Removal 70.00 cy	
700-1200 Surfacing:	\$537.10
Quarry Name: Bridge 1.5-0" Spot 20.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.70 acres	\$1,934.93
Includes Small Quantity Factor of 1.50	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):3.27 acres	\$940.26
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$4,763.00 Surf. \$0.00.....	\$4,763.00
Quarry Development:	\$0.00

Total: \$10,171.70

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 29-11-33.2 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: GRADE-SHAPE-COMPACT, FAILURE + DITCH ENDHAUL

Slide Removal 70.00 cy

Front End Loader \$117.39/hr x 1.00 hr = \$117.39

Dump Truck: \$108.74/hr x 1.00 hr = \$108.74

Blading w/o Ditches: \$568.71/mi x 1.35 mi = \$767.76

Compaction: \$424.32/mi x 1.35 mi = \$572.83

Clean Culverts (ea): \$85.94/ea x 5 ea = \$429.70

Subtotal: \$1,996.42

Section 700-1200 Surfacing:

Commercial Quarry Name: Bridge 1.5-0" Spot

Comment: MP 0.00 TO 0.08 - SPOT ROCK SURFACING

Length	TopW	BotW	Depth	CWid	#TOs	Width	F.W.L	Taper	Other
									20 LCY

Rock Volume = 20.00 LCY

Purchase Price / Royalty: \$17.00/LCY x 20.00 LCY = \$340.00

Processing: \$1.22/LCY x 20.00 LCY = \$24.40

Compaction: \$1.41/LCY x 20.00 LCY = \$28.20

Basic Rock Haul cost: \$0.85/LCY x 20.00 LCY = \$17.00

Rock Haul +15% grades: \$2.56/LCY-mi x 20.00 LCY x 0.70 mi= \$35.84

Rock Haul -15% grades: \$1.28/LCY-mi x 20.00 LCY x 0.70 mi= \$17.92

Rock Haul St& Co Roads: \$0.57/LCY-mi x 20.00 LCY x 3.70 mi= \$42.18

Basic Water Haul cost: \$0.83/LCY x 20.00 LCY = \$16.60

Water Haul +15% grades: \$0.36/LCY-mi x 20.00 LCY x 0.70 mi= \$5.04

Water Haul -15% grades: \$0.18/LCY-mi x 20.00 LCY x 0.70 mi= \$2.52

Water Haul St&Co Roads: \$0.10/LCY-mi x 20.00 LCY x 3.70 mi= \$7.40

Subtotal: \$537.10

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Comment: FILL SLOPES + CUT SLOPES + WASTE AREAS

Dry Method with Mulch: \$818.19/acre x 1.70 acres = \$1,390.93

Includes Small Quantity Factor of 1.50

+ Mulch Cost: \$320.00/acre x 1.70 acres = \$544.00

Subtotal: \$1,934.93

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

Brushing width Left: 10ft. Right: 10ft.

Road Number: 29-11-33.2 Continued

RoadSide Brushing Light: \$287.54/acre x 3.27 acres = \$940.26	Subtotal:	\$940.26
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization:		
Construction - 100.00% of total Costs = \$4,763.00		
Surfacing - 100.00% by rock volume = \$0.00	Subtotal:	\$4,763.00
Quarry Development:		
Based on 100.00% of total rock volume	Subtotal:	\$0.00
	Total:	\$10,171.70

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: King Salmon Sale Date:

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Fire Equipment: 1 ea x (1.00 x \$98.00/ea + 0 mi x \$5.43/mi) = \$98.00
Graders-all: 1 ea x (1.00 x \$558.00/ea + 0 mi x \$18.75/mi) = \$558.00
Brush Cutter: 1 ea x (1.00 x \$558.00/ea) = \$558.00
Rollers & Comp: 1 ea x (1.00 x \$558.00/ea + 0 mi x \$28.29/mi) = \$558.00
Excavators (Sm): 1 ea x (1.00 x \$558.00/ea + 0 mi x \$25.73/mi) = \$558.00
RTBackhoes 24/30: 1 ea x (1.00 x \$415.00/ea + 0 mi x \$7.36/mi) = \$415.00
Dump Truck<=15cy: 1 ea x (1.00 x \$130.00/ea + 0 mi x \$5.44/mi) = \$130.00
Water Truck: 1 ea x (1.00 x \$138.00/ea + 0 mi x \$5.75/mi) = \$138.00
Equipment Washing: 7 ea x (\$250.00) /ea = \$1,750.00

Subtotal: \$4,763.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: King Salmon Sale Date:

Road Number	Const	Improv	Renov	Decomm	Temp
29-11-33.2			71.28		

Total Sta:			71.28		
------------	--	--	-------	--	--

200 Clearing and Grubbing*	Clearing
	acres
29-11-33.2	0.0

Totals:	0.00
---------	------

300 Excavation	Excav	Haul	Haul
	LCY.s	sta-yds	yd-mi
Totals:	0	0	0

400 Drainage

Road Number	CMP Culvert	Polypipes	Downspouts
-------------	-------------	-----------	------------

Total Drainage:

	Totals:		No Quantities
Culvert Qty	Aluminized	Galvanized	Poly Pipe
12 inch	0 lf	0 lf	
18 inch	0 lf	0 lf	0 lf
24 inch	0 lf	0 lf	0 lf
30 inch	0 lf	0 lf	0 lf
36 inch	0 lf	0 lf	0 lf
42 inch	0 lf	0 lf	
48 inch	0 lf	0 lf	

Downspout Qty	Half Round	Full (poly)	Full (galv)
18 inch	0 lf	0 lf	0 lf
21 inch	0 lf		
24 inch	0 lf	0 lf	0 lf
30 inch			0 lf

500 Renovation*	Blade Miles	Slide cy
29-11-33.2	1.35	70
Totals:	1.35	70

Surfacing (Loose Cubic Yards)

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

Continuation of Construction Quantities

08/21/26
Page 7 of 7

Quarry Name: Bridge 1.5-0" Spot

Commercial	Roadway	Turnouts	Other	
29-11-33.2	0	0	20	20
Totals:	0	0	20	20

1300 Geotextiles

Totals: No Quantities

1400 Slope Protection

Totals: 0 cy

Totals: 0

1800 Soil stabilization - acres	Dry W/O	Dry/with	Hydro
	Mulch	Mulch	Mulch
29-11-33.2	0.0	1.70	0.0

Totals: 0.00 1.70 0.00

Small Quantity Factor of 1.50 used

1900 Cattleguards

Totals: No Quantities

2100 RoadSide Brushing**	acres
29-11-33.2 - Mechanical Brushing	3.27

Totals: 3.27

2300 Engineering stations

Totals: 0.00

2400 Minor Concrete

Totals: No Quantities

2500 Gabions

Totals: No Quantities

8000 Miscellaneous

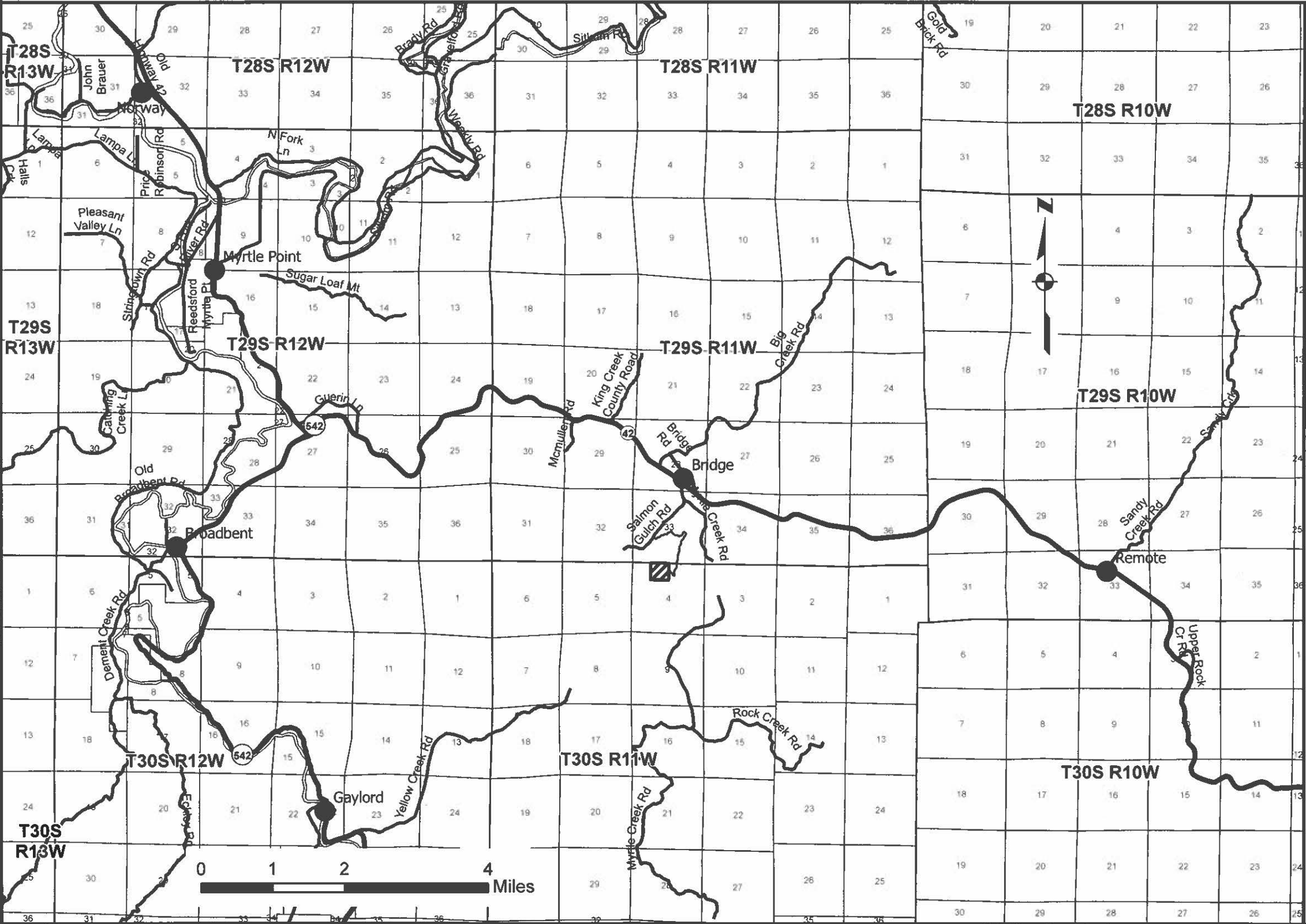
Totals: No Quantities

Notes:

*If not shown may be included in Section 300.

**If not shown may be included in Section 200.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT
MYRTLEWOOD FIELD OFFICE



SHEET NO.	CONTENTS
1	TITLE SHEET
2	WORK LOCATION MAP
3	ESTIMATE OF QUANTITY
4	BARRIER & EROSION CONTROL DETAILS
5-9	ROAD MAINTENANCE SPECIFICATIONS

LEGEND
PROJECT AREA



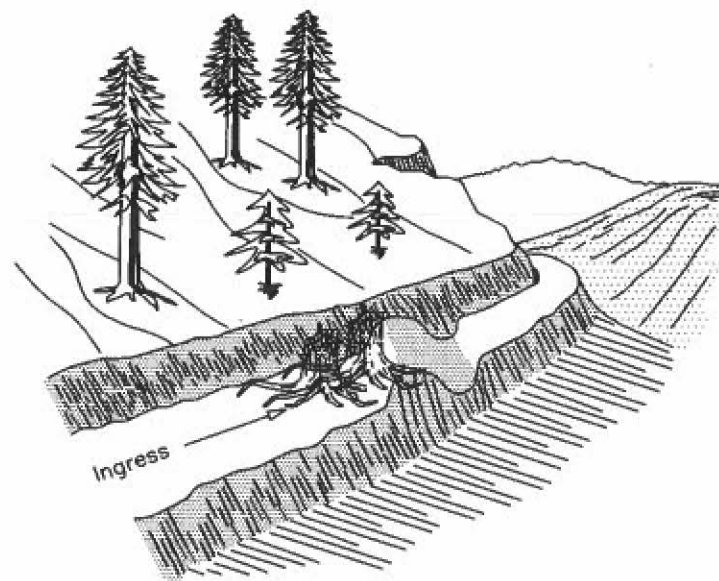
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

EXHIBIT D
TITLE SHEET

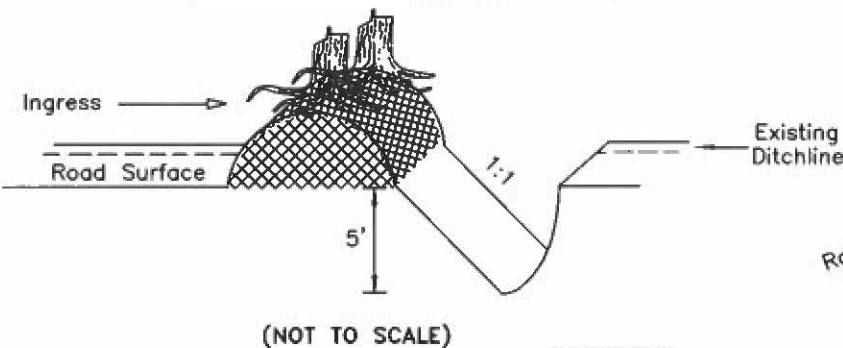
PREPARED: J. AGUILAR
REVIEWED: L. MURPHY
APPROVED: M. RUSSELL

DRAWN: JAA SCALE: AS SHOWN
DATE 08/2026 SHEET 1 OF 9

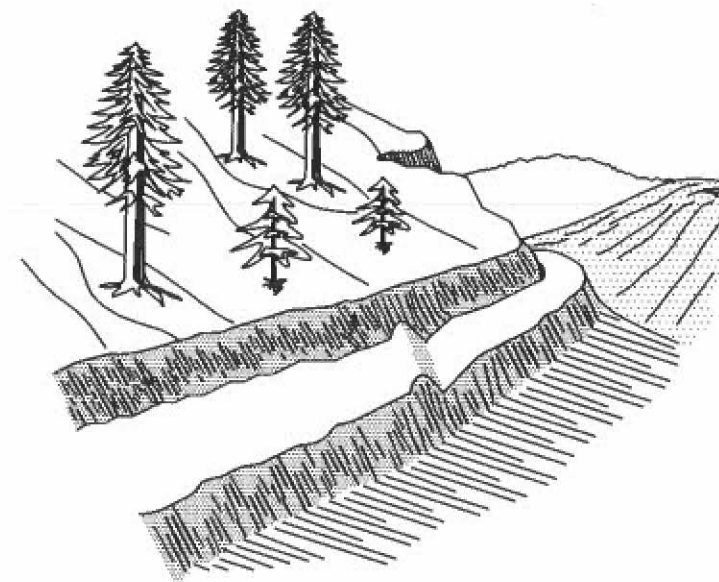
EXHIBIT D



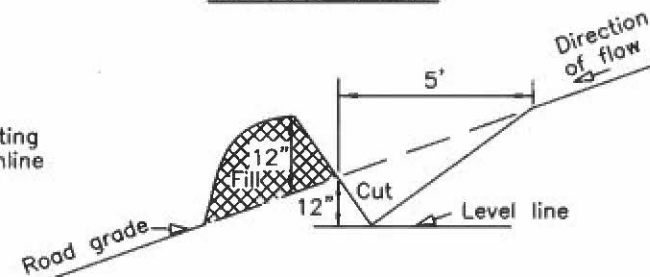
EARTHEN BERM BARRIER



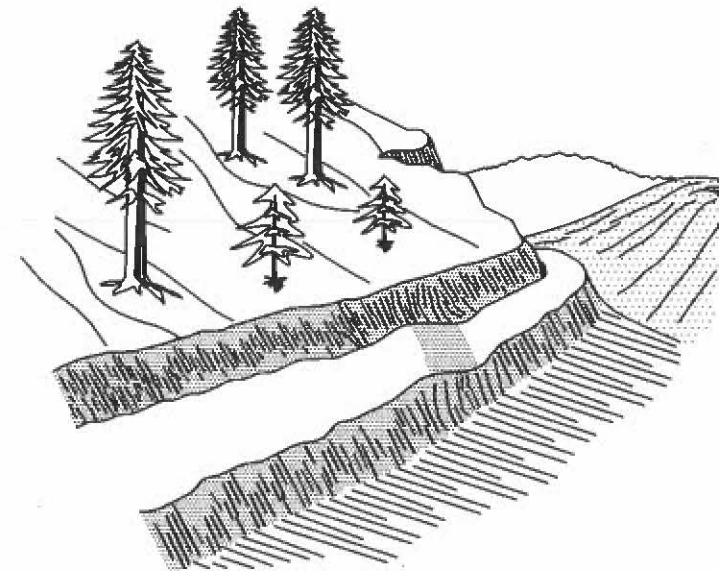
(NOT TO SCALE)



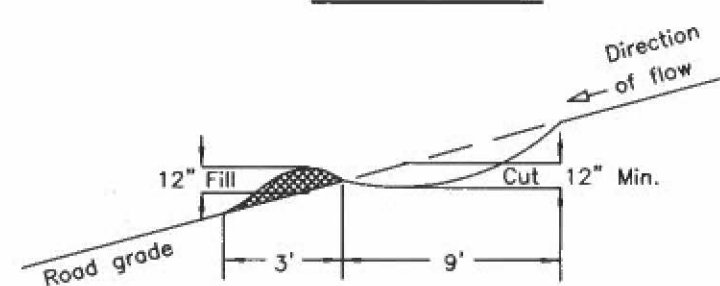
WATER BAR



(NOT TO SCALE)



WATER DIP

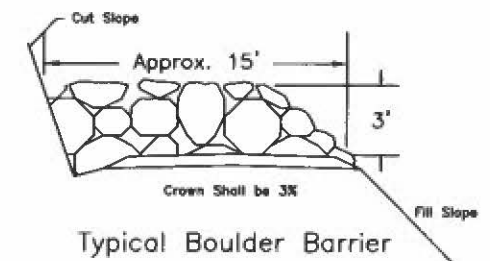


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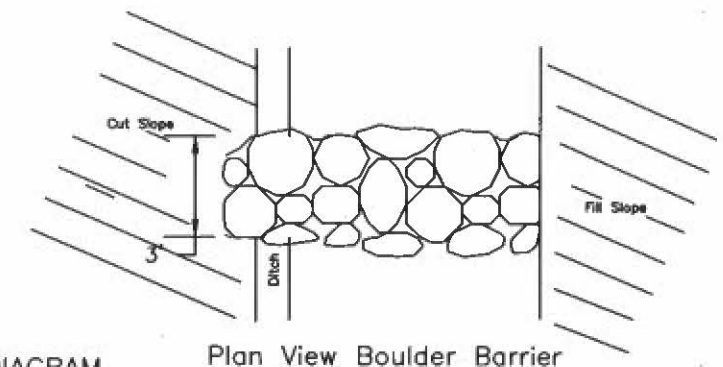
WATER DIP/BAR SPACING

ROAD GRADE %	Road Class	
	Maximum Spacing (in feet)	
	Natural	Rocked
3-5	200	400
6-10	150	300
11-15	100	200
16-20	75	150
21-35	50	100
36+	50	50

* ON GRADES IN EXCESS OF 14%
CONSTRUCT WATER BARS.

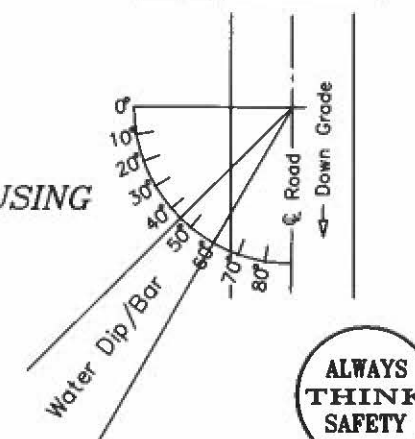


Typical Boulder Barrier



Plan View Boulder Barrier

SKEW DIAGRAM



ALWAYS
THINK
SAFETY

NOTES

1. ALL BARRIERS, WATER BARS, AND WATER DIPS AS REQUIRED SHALL BE CONSTRUCTED AS SHOWN.
2. LOCATIONS WILL BE AS DIRECTED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER DIPS AND WATER BARS SHALL BE SKEWED 45° - 60°.
4. INVERT GRADE OF WATER DIPS AND WATER BARS SHALL BE OUTSLOPED A MINIMUM OF 2-5%.
5. ALL WATER BARS AND WATER DIPS SHALL BE CUT INTO THE ROADBED FROM THE DITCHLINE.
6. DITCHLINES SHALL BE BLOCKED WITH EXCAVATED MATERIAL (DITCH DAM) DOWNGRADE FROM ALL WATER BARS AND WATER DIPS.
7. EXCAVATED MATERIAL FROM BARRIER TRENCH (TANK TRAP) SHALL BE PLACED ON THE SIDE NEAREST THE BEGINNING OF THE ROAD.
8. ALL BERMS INCLUDING WATER BARS, WATER DIPS, AND EARTHEN BARRIERS SHALL BE COMPACTED TO 85% OF MAXIMUM DENSITY.
9. RIP RAP BARRIERS SHALL BE AT LEAST 3' HIGH, 3' DEEP, AND OF SUFFICIENT WIDTH TO COMPLETELY BLOCK THE ROADWAY AND ANY ADJACENT SHOULDERS THAT CAN BE TRAVELED WITH A VEHICLE.
10. RIP RAP BARRIERS SHALL BE CONSTRUCTED USING A MINIMUM OF 20 CY OF RIP RAP.
11. RIP RAP SHALL BE DURABLE (NOT LESS THAN 50 AS DETERMINED BY AASHTO T210), AND RANGE FROM 28"-34" IN DIAMETER.

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON	
ORC04-TS-2027.0030 KING SALMON	
BARRIER & EROSION CONTROL DETAILS	
DESIGNED	J. AGUILAR
REVIEWED	L. MURPHY
APPROVED	M. RUSSELL
DRAWN JAA	SCALE NONE
DATE 08/2026	SHEET 4 OF 9

EXHIBIT D

- King Salmon Timber Sale Unit
- BLM Administered Land
- Bureau of Indian Affairs
- Private or Other Lands
- Highway
- County Road
- Existing Road
- Operator Maintained - Private Road
- Gate
- Bridge
- Proposed Landing
- MP Milepost
- STA Station

MAINTENANCE ROCK:
0 CY CRUSHED AGGREGATE ALLOCATED
FOR MAINTENANCE.

T29S R11W

T30S R11W



U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

ORC04-TS-2027.0030
KING SALMON
EXHIBIT D WORK LOCATION MAP

PREPARED: J. AGUILAR
REVIEWED: L. MURPHY
APPROVED: M. RUSSELL

DRAWN: JAA SCALE: AS SHOWN
DATE 08/2026 SHEET 2 OF 9

ALWAYS
THINK
SAFETY

JUNCTION
MP 0.68
MP 0.00

MP 1.35

Bridge Rd

Myrtle Creek Rd

Salmon Gulch Rd

Big Creek Rd

Yellow Creek Rd

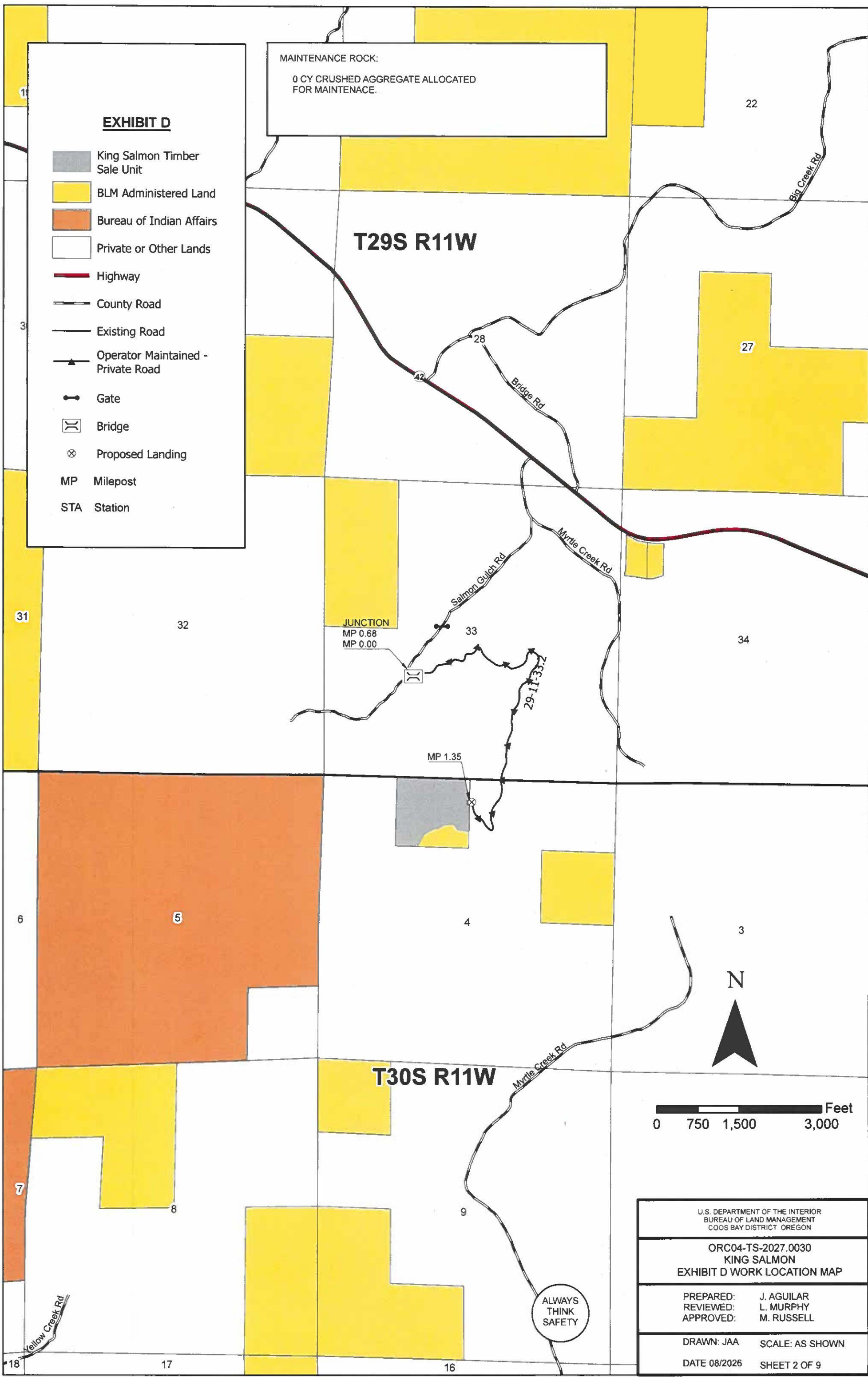


EXHIBIT E

Sale Name **King Salmon**
 SALE VOLUME: 1499 NET MBF 1668 Sale Number ORC04-TS-2027.0030

A. ROAD USE FEES - Payable to Private Company:

COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	USE FEE per MBF	TOTAL FEES
LRT	C-418	29-11-33.2	1499	\$7.00	\$10,493.00
LRT	C-418	33.2 Bridge	1499	\$23.08	\$34,596.92
TOTAL USE FEE					\$45,089.92

B. MAINTENANCE FEES:

1. Maintenance and Rockwear Fees Payable to the U.S. (BLM Maintained Roads):

a. Timber Haul:

Surface Type	ROAD NUMBER	NET MBF	ROAD MILES	ROCKWEAR /MBF/Mile	Subtotal	MAINT+Rock \$/MBF/Mile	Subtotal	TOTAL FEES
0.00								

2. ROCKWEAR Fees Payable to the U.S. (OPERATOR Maintained Roads):

a. Timber Haul:

Surface Type	ROAD NUMBER	NET MBF	ROAD MILES	SURFACE REPLACEMENT /MBF/Mile	TOTAL FEES
ASC					

3. ROAD MAINTENANCE AND/OR ROCKWEAR FEES - Payable to Private Company:

Surface Type	COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	ROAD MILES	MAINT+Rock \$/MBF/Mile	TOTAL FEES
NAT	LRT	C-418	29-11-33.2	1499	1.35	\$0.00	\$0.00
1.35							\$0.00

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX. 1.35 MILES OF ROAD. (SEE EXHIBIT D)

SUMMARY OF ROAD USE & ROAD MAINTENANCE FEES	ROAD USE FEES		ROCKWEAR & MAINTENANCE FEES		MAINTENANCE FEES	
	TOTAL	\$/MBF	TOTAL	\$/MBF	TOTAL	\$/MBF
1. COMPANY-OWNED ROADS:	\$45,089.92	\$30.08	\$0.00	\$0.00	\$0.00	\$0.00
2. BLM MAINTAINED ROADS:			\$0.00	\$0.00	\$0.00	\$0.00
3. BLM OPERATOR-MAINTAINED ROADS:			\$0.00	\$0.00	\$0.00	\$0.00
	\$45,089.92	\$30.08	\$0.00	\$0.00	\$0.00	\$0.00

MAINTENANCE OBLIGATION PAYABLE TO BLM:	TOTAL	\$/MBF
	\$0.00	\$0.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Name of Bidder

Tract Number
ORC04-TS-2027.0030

Sale Name
King Salmon

Sale Notice (dated)
10/01/2026

BLM Office
Coos Bay BLM

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...)

☐ Sealed Bid for Sealed Bid Sale

☒ Written Bid for Oral Auction Sale

Deadline for accepting sealed bids ☐ a.m. ☐ p.m.

Sale commences 10:00 ☒ a.m. ☐ p.m.

On (date) Place

On (date) 10/30/2026 Place Coos Bay BLM

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 \$ 38,600.00 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	1,292	\$	\$	\$	= \$
Grand fir	MBF	178	\$ 108.00	\$ 19,224.00	\$	= \$
Western Hemlock	MBF	19	\$ 75.80	\$ 1,440.20	\$	= \$
Port-Orford Cedar	MBF	5	\$ 33.00	\$ 165.00	\$	= \$
Red Alder	MBF	5	\$ 44.50	\$ 222.50	\$	= \$
BIOMASS	GT	674.7	\$ 3.00	\$ 2,024.10	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
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 (type or print)
2. Signatures, if firm is a partnership or L.L.C. i. _____ ii. _____	5. Business address, include zip code (type or print)
3. Corporation - organized under the state laws of: Signature of Authorized Corporate Officer: _____ Title: _____	(To be completed following oral bidding) I HEREBY confirm the above oral bid By (signature): _____ Date _____

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 purchase 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.

NOTICE OF LITIGATION

The Northwest Coastal Resource Management Plan covering the **King Salmon** timber sale, contract number ORC-04-2027-TS.0030, has been litigated. The court's decision is pending. The Bureau of Land Management (BLM) will proceed with normal bidding on the tracts.

Although the BLM does not know at this time what the court's decision will be, the BLM is providing this notice to advise all bidders that significant delays may occur before award of the contract or before any operations may be undertaken. Additionally, an adverse ruling may require the BLM to suspend, cancel, or modify the contract. The Authorized Officer retains the right to reject all bids associated with this tract.

To ensure that this notice is understood, the high bidders for each contract must sign the acknowledgement below and submit this document to the BLM to confirm your bid.

I acknowledge receipt of a copy of this notice and understand that because of the *Cascadia Wildlands v. Burgum et al.*, Case 6:26-cv-01262-AP lawsuit in U.S District Court, District of Oregon, any decision to award the King Salmon timber sale, contract number ORC04_TS_2027.0030, may be significantly delayed, or operations suspended, and that the BLM has authority under 43 CFR 5442.3 to reject all bids if the Government determines it is in the Government's interest to do so.

Company Name _____

By _____

Title _____

Date _____