COOS BAY DISTRICT OFFICE UMPQUA RESOURCE AREA

SALE DATE: December 20, 2024 SALE TIME: 10:00 a.m.

Locked Gates — Key Required

SALE NO. ORC03-TS-2025.0001, STEELE 27

COOS COUNTY: OREGON: Coos Bay Wagon Road Land: ORAL AUCTION: Bid deposit required: \$115,200.00

All timber designated for cutting on: T. 27 S., R. 12 W., Sec. 27, NW1/4 NE1/4, S1/2 NE1/4, NW1/4, 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
8,518	4,691.0	Douglas-fir	5,460.0	\$207.70	\$1,134,042.00
96	89.0	grand fir	107.0	\$92.60	\$9,908.20
149	16.0	western redcedar	21.0	\$251.20	\$5,275.20
67	17.0	western hemlock	21.0	\$78.80	\$1,654.80
92	5.5	red alder	8.0	\$37.80	\$302.40
8,922	4,818.5	Totals	5,617.0		\$1,151,182.60

Ī			Estimated	Appraised Price	Estimated Volume Times
	Product	Unit of Measure	Number of Units	Per Green Ton	Appraised Price
	Biomass	Green Tons	1,000	\$0.05	\$50.00

Total Appraised Value:\$1,151,232.60

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). THE MINIMUM BID INCREMENT WILL BE \$0.50 PER MBF. SCRIBNER BOARD FOOT VOLUMES (32 FOOT LOG) BY SPECIES ARE DISPLAYED FOR INFORMATIONAL PURPOSES.

A WRITTEN BID ON FORM NO. 5440-9 AT NO LESS THAN THE APPRAISED PRICE ON A UNIT BASIS PER MBF OF DOUGLAS-FIR VOLUME, AND THE REQUIRED MINIMUM BID DEPOSIT SHALL BE REQUIRED TO PARTICIPATE IN ORAL BIDDING FOR EACH TRACT. ALL OTHER SPECIES WILL BE SOLD AT THE APPRAISED PRICE PER UNIT (MBF).

<u>LOG EXPORT AND SUBSTITUTION</u>: 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.

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

<u>CRUISE INFORMATION</u>: With respect to merchantable trees of all species in all cruise strata: the average DBHOB is 21.5 inches: the average gross merchantable log contains 138 bd. ft.; the total gross volume is approximately 5,892 thousand bd. ft.; and 95% recovery is expected. The average DBHOB for Douglas-fir is 21.7 inches; and the average gross merchantable log contains 139 bd. ft. The following cruise methods were used for volume determination:

<u>3P CRUISE</u>: Douglas-fir only have been cruised using the 3P system to select 116 sample trees. The sample trees have been cruised and the 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. Maps showing the approximate locations of the sample trees are available at the Coos Bay District Office.

100% CRUISE: All minor species.

<u>CUTTING AREA</u>: Units 1-2 totaling 88 acres of regeneration harvest area and two (2) acres of right-of-way must be cut for a total of 90 acres; refer Exhibit A. Acres shown on Exhibit A have been computed using the S1 Mobile Mapping application.

<u>ACCESS</u>: Access to the sale area is provided via Oregon State highways, Coos County Roads, 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.

<u>DIRECTIONS TO SALE AREA</u>: From Coos Bay, travel south on Highway 101, turn left onto Highway 42 heading towards Coquille, turn left onto W Central Blvd, then left onto Fairview Road approximately 4.6 miles, then left on the 27-12-28.0 road. Please refer to Exhibits A and A-1 for unit locations.

<u>ROAD USE & MAINTENANCE</u>: Refer to Exhibit E Summary attached. Operator maintenance required on 2.3 miles of road.

Rock wear Fees Payable to BLM: Road Maintenance Fees Payable to BLM:	\$2,799.15 \$0.00
Total Fees Payable to BLM:	\$2,799.15
Leatherman Land and Timber Co:	\$0.00

<u>BUYOUT SECURITIES (OPTIONAL CONTIBUTION)</u>: Purchaser will have the option of performing pile burning or contributing \$11,677.02 in lieu thereof. The option must be declared prior to contract execution. Piling and covering are not included in the Optional Contribution and will remain the responsibility of the purchaser. 44.d.(3)(x)

<u>ROAD CONSTRUCTION</u>: Road construction and improvement estimates include the following:

New Construction:

0.48 miles

Road Renovation:

1.78 miles

Road Improvement:

0.00 miles

Aggregate:

Base/Landing Rock, Rip Rap 10"-34" hardrock: Base/Drain Rock, 6" minus hardrock: Base/Landing Rock, 3" minus hardrock: Bedding/Surfacing Rock, 1 ½" minus hardrock:

Maintenance Rock, 1 ½" minus hardrock: Maintenance Rock, 3" minus hardrock:

Drainage:

18" Corrugated Polyethylene Pipe:18" Corrugated Polyethylene Pipe: Full Round Downspout

Soil Stabilization:

Dry Seed & Mulch: Dry Seed & Mulch:

Roadside Brushing:

4.05 acres

<u>DURATION OF CONTRACT</u>: Will be 36 months for cutting and removal of timber. The contract will contain special stipulations regarding logging, road construction, road use and maintenance, fire prevention, hazard reduction and logging residue reduction, log export and substitution, optional scale check of lump sum sales, equal opportunity in employment, cultural resource protection, and sensitive, threatened, or endangered plants or animals.

10 C.Y. (Truck Measure)
1,330 C.Y. (Truck Measure)
807 C.Y. (Truck Measure)
350 C.Y. (Truck Measure)

200 C.Y. (Truck Measure) 300 C.Y. (Truck Measure)

200 Lineal Feet 0 Lineal Feet

1.17 acres (Pre-Haul) 0.00 acres (Post-Haul)

SPECIAL PROVISIONS:

- 1. Access to the sale area via Fairview Road requires a Series 2A-250 BLM gate key. Keys are available at the BLM office located at 1300 Airport Lane, North Bend, OR 97459, (541) 756-0100. A \$100 deposit is required.
- 2. Snags that are felled for safety reasons will be left on site.
- 3. All Pacific yew are reserved from cutting, except within road right-of-ways.
- 4. All existing down coarse woody debris is reserved from cutting and removal.
- 5. Directional felling is required away from roads, property lines, posted boundaries, orange-painted reserve trees, and snags.
- 6. All "non-conifer" trees three (3) inches DBHOB and/or twenty-five (25) feet greater designated for cutting shall be felled concurrently with all other trees designated for cutting and removal.
- 7. All cut trees within the Regeneration Cut Area will be whole tree yarded to the landing areas when feasible.
- 8. Yarding across riparian areas and through the reserve will be required. Special stipulations will apply.
- 9. In the Cable Yarding Area, one-end suspension is required. Lift trees and/or intermediate support trees may be necessary to achieve suspension.
- 10. The Ground-based yarding machine shall utilize slash on skid trail as directed by the Authorized Officer.
- 11. All Ground-based harvesting equipment must be approved in writing by the Authorized Officer prior to any operations.
- 12. Ground-based operations shall be conducted when soil moisture content is below 25% plastic limit, as determined by the Authorized Officer.
- 13. Road building and logging equipment will be washed prior to moving into the Contract Area to minimize the spread of noxious weeds. Exhibit F
- 14. Hauling on dirt surfaced roads will be permitted between June 1 and October 15, unless dry conditions extend the hauling season.
- 15. Any required construction, improvement, or renovation of structures and roads shall occur during the dry season, June 1 through October 15, both days inclusive, of the same calendar year unless dry conditions extend the construction season.
- 16. BLM will assume supervisory responsibility for disposal of logging slash.
- 17. Machine piling is required in all areas that are ground based designated or harvested.
- 18. Purchaser shall obtain a tailhold agreement with neighboring landowners if logging systems require tailholds outside of the contract area.
- 19. Within 1 year following the completion of yarding operations, the purchaser must create 96 snags, as directed by the Authorized Officer.
- 20. Per the terms of RE-C-674, the purchaser shall maintain and show satisfactory evidence of comprehensive liability insurance in the following amounts: <u>Commercial General Liability</u> covering all operations including vehicles of the Permittee: (Bodily Injury: \$1,000,000 for injury to any one person; \$1,000,000 for any one occurrence); <u>Property Damage</u> in the amount of \$1,000,000 for any one occurrence, and <u>Loggers Broad Form B</u> \$1,000,000 for any one occurrence.

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 Area, 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. All orange painted reserve trees marked with an "S" or a "W" above and or below stump height within the Regeneration Harvest area, as shown on Exhibit A and Exhibit I.
- c. All existing standing dead trees within the Regeneration Harvest area except those trees which must be felled to permit safe working operations. Snags felled for safety reasons shall be left on site.
- d. All existing coarse woody debris within the Contract Area, unless the Authorized Officer determines the volume to be included in the Exhibit B, which is attached hereto and made a part hereof.
- e. Bearing Trees with metal tags which mark property corners.
- f. All Pacific Yew trees.

SPECIAL PROVISIONS - Page 1 of 15 pages

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) 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.

(2) Before beginning operations on the contract area for the first time, or after a shutdown of ten or more days, the Purchaser shall notify the Authorized Officer in writing of the date he plans to begin operations. He shall also notify the Authorized Officer in writing if he intends to cease operations for any period of ten or more days.

(3) Directional felling is required away from roads, property lines, posted boundaries, orange-painted reserve trees, no-harvest areas and snags.

(4) All "non-conifer" trees three (3) inches DBHOB and/or twenty-five (25) feet tall or greater designated for cutting shall be felled concurrently with all other trees designated for cutting and removal within the Regeneration Cut Area.

SPECIAL PROVISIONS - Page 2 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

(5) All cut trees within the Regeneration Harvest Area shall be whole tree yarded to the landing areas when feasible,

(6) Slash generated from harvesting operations to a minimum size of eight (8) inches in diameter and eight (8) feet in length shall be gross yarded to the landing and piled in accordance with the requirements in <u>Sec.44.d.(3)h</u>. If a piece of slash meeting the minimum size requirements is bucked, all pieces shall be yarded to the landing.

(7) Where yarding must occur through the Reserve Area (including reserved trees marked with an orange S or W) or across any Stream Channel as shown on the Exhibit A, the following conditions apply:

- (a) Complete re-spooling of lines is required in making cable yarding road changes.
- (b) Yarding roads will be kept as perpendicular to the stream channel as possible.
- (c) Corridor trees felled within the Reserve Area will be felled toward the stream channel and left in place.
- (d) Logs will be fully suspended to protect stream banks. Where full suspension is not feasible, operations will occur only during the dry season, as designated by the Authorized Officer. Bare mineral soil within 50 feet of a stream channel, which has been exposed by yarding, shall be covered with slash to trap sediment and prevent erosion.
- (e) Before cutting any reserve trees necessary to facilitate logging through the Reserve Area, the Purchaser shall identify the location of the cable yarding roads on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser's identification of trees to be cut does not constitute authority to proceed with cutting and removal.

(8) One-end suspension will be required for in-haul of logs during cable yarding operations. Lift trees and or intermediate supports may be required to obtain the required suspension.

(9) Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain written approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed in writing by the Authorized Officer.

Purchaser shall obtain a tailhold agreement with the neighboring landowner(s) if logging systems require tailholds outside of the contract area. A tailhold agreement shall be obtained for each landowner as needed.

SPECIAL PROVISIONS - Page 3 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

(10) Incidental areas appropriate for Ground-based yarding not identified on the Exhibit A must be approved by the Authorized Officer prior to operation. In such case[s], the following applies to the Ground-based Yarding Area[s]:

(a) All Harvesting equipment must be approved in writing by the Authorized Officer prior to any operations.

(b) Ground-based operations shall be conducted when soil moisture content is below 25% plastic limit, 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 may be required to suspend ground-based operations during periods of rain, as directed by the Authorized Officer.

(c) Trees shall be felled manually or by a mechanized harvester utilizing a system capable of directionally felling, and depositing slash along the harvesting path. The yarding machine shall utilize slash on skid trails and continually place slash on trails so as to not expose bare mineral soil.

(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 which is an integral part of the machine that is 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 within the Ground-based Yarding Area.

apart.

(f) Primary skid trails shall use existing trails wherever possible, be spaced at least 100 feet

(g) Primary skid trails shall be blocked with slash or cull material after completion of harvest where the Authorized Officer determines vehicle access is possible.

(h) All ground-based equipment shall be restricted to operating on slopes less than 35% and shall not operate within 240 feet of a stream channel.

(i) Any skid trail 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^{th} of the same calendar year.

(11) As directed by Authorized Officer, all logs more than eight inches diameter at the large end and longer than eight feet in length shall be decked or windrowed at the location designated by the Authorized Officer except logs removed from the contract area. If a log or a piece of a log meeting or exceeding the above specifications is bucked all portions of that log shall be yarded and decked at the above described location.

SPECIAL PROVISIONS - Page 4 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

(12) To control the spread of noxious weeds, 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 part hereof. All road building and logging equipment which will be used off of existing roads will be washed prior to moving into the Contract Area to minimize the spread of noxious weeds.

(13) Hauling on dirt surfaced roads will be permitted between June 1 and October 15 unless dry conditions extend the hauling season, as directed by Authorized Officer.

(14) Signs and flaggers are required to control traffic when falling timber within 200 feet of any road or conducting any operations requiring flaggers under Sec. 29 of this contract.

(15) To minimize the risk of attracting predators to activity areas, **all garbage** (especially food products) must be contained and removed daily from the Contract Area.

(16) 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 five (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 forty-two (42) gallons of fuel or combined quantity of petroleum product and chemical substances would be transported to a project site as project materials, a spill kit that can absorb and contain fifty-five (55) gallons of petroleum product and chemical substances shall be readily available. 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, improve, or renovate a road 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, improvement, or renovation of structures and roads shall occur during the dry season, June 1 through October 15, unless dry conditions exist that may extend those dates as approved by the authorized officer.

(3) Any required construction, improvement, or renovation of structures and roads shall be completed and accepted prior to the haul of any timber, except right-of-way timber, over that road.

(4) 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

SPECIAL PROVISIONS - Page 5 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

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.

(5) The Purchaser shall, prior to construction of landings, 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 equipment over Government owned or controlled structures when that equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

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 15 days prior to proposed move in. Details shall include:

- (a) axle weights when fully loaded;
- (b) axle spacing;
- (c) transverse wheel spacing;
- (d) tire size;
- (e) outside width of vehicle;
- (f) operating speed;
- (g) frequency of use; 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.

(2) 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, which is attached hereto and made a part hereof, resulting from wear or damage in accordance with the maintenance specifications as shown on Exhibit D

SPECIAL PROVISIONS - Page 6 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

(3) The Purchaser is authorized to use the roads shown on Exhibit E, which is 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 a Maintenance Obligation to the Government totaling <u>\$2,799.15</u>, as shown on Exhibit E. Unless the total Maintenance Obligation due to the BLM is 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) 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 Secs. 44(b)(1) and 44(c)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 into with other users on these roads.

(5) Per the terms of RE-C-674, the purchaser shall maintain and show satisfactory evidence of comprehensive liability insurance in the following amounts: <u>Commercial General Liability</u> covering all operations including vehicles of the Permittee: (Bodily Injury: \$1,000,000 – for injury to any one person; \$1,000,000 – for any one occurrence); <u>Property Damage</u> in the amount of \$1,000,000 for any one occurrence, and <u>Loggers Broad Form B</u> - \$1,000,000 for any one occurrence.

d. Fire Prevention, Hazard Reduction and Logging Residue Reduction

(1) BLM will assume supervisory responsibility for disposal of logging slash. The assumption by the Government of all obligations for the disposal or reduction 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.

(2) <u>Fire Prevention and Hazard Reduction</u>. Primarily for purposes of fire prevention and fire hazard reduction, the Purchaser shall comply with the following provisions:

(a) Prior to the operation of power-driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, the Purchaser shall, on an annual basis during the term of this contract, prepare fire prevention and control plans to the satisfaction of the Authorized Officer.

(b) Slash shall be disposed of in accordance with the written instructions of the Authorized Officer.

(3) Logging Residue Reduction. Primarily for hazardous fuel reduction, watershed protection and

SPECIAL PROVISIONS - Page 7 of 15

silvicultural purposes, the Purchaser shall comply with the following provisions:

(a) In addition to the requirements of Section 15 of this contract, the Purchaser shall be responsible for logging residue reduction at all landing sites in the sale area.

Specifications for Landing Piling

(b) At all landing sites within the sale area, the Purchaser shall either (1) remove from the site for offsite utilization or (2) pile for burning, all logging residue that is presently on and around the immediate vicinity of the landing site.

(c) Any logs or useable residue identified in the contract as reserved shall remain the property of the Government and may not be shipped for offsite utilization.

(d) Prior to commencement of logging 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 residue removal, the Purchaser shall notify the Authorized Officer to arrange for a final inspection of the landing sites.

(e) Unless approved in advance by the Authorized Officer, landing piling shall be completed at each yarding location (setting) at the conclusion of yarding operations at that setting while logging equipment is on site.

(f) Unless directed or approved by the Authorized Officer, no landing piles shall be constructed within twenty 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 50 feet of property lines, or under powerlines.

(g) Logging residue within the immediate vicinity of the landing and any residue that overhangs the landing sites that can be reached with the logging equipment on site shall be pulled completely back up onto the landing surface and either piled for burning or segregated for other uses.

(h) Logging residue meeting the criteria set forth in <u>Sec. 44.a.(6)</u>, shall not be piled for burning but shall be segregated into separate piles that are no closer than twenty 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 meets the specifications as described in Sec. 44.a.(11), the purchaser may be required to remove the specified residue from the burn piles.

(j) Root wads from road and landing construction activities shall not be included in the landing

SPECIAL PROVISIONS - Page 8 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

piles. Piling of slash on top of root wad piles is not permitted. Any root wad piles found by the Authorized Officer to be capped by slash will require the removal and re-piling of the slash by the Purchaser.

(k) To promote efficient and complete burning, landing piles shall be constructed as upright as possible and have a solid base to promote stability and 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.

(1) 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.

(m) 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 a re-work, the Purchaser shall be responsible for costs associated with move-in of piling equipment to rework piles. Unless approved by the Authorized Officer, all requests for inspection of landing piling shall be made in writing (email is acceptable) at least ten days in advance of planned equipment removal.

Specifications for Landing Pile Covering

(n) Only landing 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.

(o) The Purchaser shall place polyethylene sheeting (PE), minimum four MIL thickness over the pile to provide an adequate level of 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 10 ft. x 10 ft. or less, the size of the PE sheeting should be a minimum of 100 square feet.

(p) To meet ignition and combustion needs, larger piles will 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 direction 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 may be required to re-cover or add additional covering to the piles before acceptance is made.

(q) At landing sites with excessive logging residue that overhangs the landing which cannot be

SPECIAL PROVISIONS - Page 9 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

reached and pulled back up onto the landing with equipment on site, the Purchaser shall place additional PE sheeting over the residue concentrations below the landings.

(r) On roads that have been closed and/or decommissioned, decks of Purchaser owned logs that were not shipped by the Purchaser shall be covered with PE for burning. The Authorized Officer may waive this requirement if future utilization is determined to be feasible. Decks of reserved logs belonging to the Government are exempt from this requirement.

(s) All PE sheeting shall be weighted down with slash or logging debris in order to prevent blowing off or sliding. An adequate amount of anchoring material should be placed on top of the pile but no more than 20 percent of the material to be piled may be placed on top of the PE.

(t) 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 may require the removal and disposal of PE sheeting.

Specifications for Slashing and Machine Piling

(u) Slashing: In all ground-based harvest areas, in preparation for piling and as directed by the Authorized Officer, slash all brush species one foot (1) or greater in height, damaged residual conifers, hardwoods not reserved from cutting, and activity slash. All top and side branches must be cut free of the central stem such that the stem is no more than twelve (12) inches from the ground at all points. Slash shall be lopped to facilitate piling. Activity slash includes all woody material (brush, limbs, tops, un-merchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract. All slashing, piling, and covering work must be completed by September 15th for all areas where logging was completed on August 1 of each year.

(v) Machine pile construction and covering: Ground based harvest areas will require piling and burning to prepare the site for planting. All tops, broken pieces, limbs and debris between two (2) and nine (9) inches in diameter and longer than three (3) feet in length will be piled. Piles will be kept free of dirt and located at least twenty (20) feet from any reserve tree or snag and as far as possible from culverts and unit boundaries. No piles shall be constructed within 50 feet of property lines or under powerlines. In areas with low slash loads, in lieu of piling, slash shall be scattered so that it does not exceed twelve (12) inches in depth and is discontinuous enough to provide clear planting spots at ten (10) foot spacing.

- 1. Material exceeding the diameter limits specified may be left un-piled; however, attached limbs and tops falling within the diameter limits shall be cut off and piled. Material sixteen (16) inches in diameter or larger (measured on the large end) shall not be piled.
- 2. Piles shall be constructed as upright as possible and have a solid base to prevent toppling. Piles shall be no smaller than eight (8) feet in diameter and six (6) feet in height.

SPECIAL PROVISIONS - Page 10 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

- 3. 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.
- 4. The Purchaser shall place a minimum of a 10- foot by 10-foot cover of black PE Sheeting, four (4) MIL thickness, over the pile to provide a barrier from winter rains.
- 5. Material extending more than 2 feet beyond the general contour of the pile shall be flattened with the excavator or cut off to allow for covering in a manner that permits the piles to shed water.
- 6. PE Sheeting shall be placed on top of the pile to ensure the center of the pile remains dry, shall be weighted down with logging debris and shall be tied down with combustible cord on all four corners.

Specifications Applicable to Landing & Machine Pile Burning

(w) In accordance with verbal or written instructions to be issued by the Authorized Officer at least ten days in advance of the earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or his/her designated representative, assist in burning and fire control, at the Purchaser's expense, provide the services of personnel and equipment as follows:

- 1. The Purchaser shall begin pile burning within fourteen hours of notification by the Authorized Officer.
- 2. The Purchaser shall dispose of removed PE sheeting in accordance with any applicable Federal, State, and municipal laws. Removed PE sheeting shall not be disposed of in burn piles
- 3. All personnel directly involved in burning operations must have a current qualification card for FFT2 or higher. All qualifications are defined according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1. Qualifications and equipment levels are the minimum and may exceed those stated above. All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project area with the following personal safety equipment: lug-soled leather boots with minimum eight (8) inch uppers that provide ankle support; an approved hardhat; leather gloves; long pants and a long sleeve shirt made of approved aramid fabric (Nomex or equivalent); and an approved fire shelter.
- 4. For each entry, the Purchaser may provide more personnel, equipment and materials than indicated but no less than the minimum requirements below unless approved in advance by the Authorized Officer. Minimum personnel, equipment and materials requirements for burning landing piles are:

- a. One English-speaking foreman for crew supervision.
- b. Four people to assist the foreman in pile burning.

c. Five drip torches and sufficient mixed fuel to complete all pile burning.

- 5. A minimum of eighty percent consumption of each pile is required. Stoking of piled material around pile edges may be required to meet the 80% consumption requirement. Stoking can be accomplished by hand or the Purchaser will be allowed to use heavy equipment (if onsite) to facilitate stoking or re-piling of residue during pile burn operations. If used, the heavy equipment shall not be allowed to operate off of all-weather road surfaces.
- 6. No mop-up is required of the Purchaser.
- 7. Multiple entries over the life of the contract may be required to complete pile burning. Purchaser provided personnel; equipment and materials requirements will remain the same as No. 4 above for each entry. Any change in the requirements must be approved in advance by the Authorized Officer.
- (x) Buyout Securities
 - 1. The Purchaser shall assist in burning as described in Section <u>44.d.(3)(w)</u>. The Purchaser shall have the option of completing the work, or in lieu thereof, may make a buyout security deposit to the Bureau of Land Management in the amount of eleven-thousand, six-hundred seventy-seven and 02/100 dollars (\$11,677.02) and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this deposit prior to the date of the execution of this contract, and the Purchaser shall pay such amount in full prior to the commencement of operations.

Specifications for Slashing, Lopping and Scattering (SLS)

(y) In accordance with oral, email or written instructions to be issued by the Authorized Officer at least ten days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or their designated representative, assist in site preparation of the SLS treatment areas. The Purchaser, at their own expense, shall provide the services of personnel and equipment as follows:

(z) The Purchaser shall perform logging residue reduction and site preparation work on approximately seventy-six (76) acres of SLS as directed by the Authorized Officer.

1. The required work shall consist of the treatment listed in the table below. The

SPECIAL PROVISIONS - Page $12 \ {\rm of} \ 15$

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

locations of Slash, Lop, and Scatter (SLS) treatments shall be determined by the Authorized Officer as harvest activity progresses. The final number of treatment acres shall be determined by the Authorized Officer and specified in writing by the Contracting Officer before contract termination. Final treatment acreage shall be determined using the same methods that were used for calculating the sale unit acreage. The following treatment and estimated treatment acres was assumed for appraisal purposes on this contract:

Slash, Lop and Scatter (SLS)	76	\$670.81	\$50,981.56
Total Appraised Cost			\$50,981.56

2. The total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 44.d.(3)(z)1. differs from: fifty thousand nine hundred eighty-one and 56/100 dollars (\$50,981.56) as calculated by using the final acreage as determined by the Authorized Officer and the per acre cost listed in Section 44.d.(3)(z)1. An increase of treatment acres would result in a purchase price reduction whereas a decrease of treatment acres would result in a purchase price increase.

(aa) The required work shall consist of post-harvest slashing, lopping and scattering (SLS) of residual vegetation (brush and damaged trees) and logging residue. Multiple entries over the life of the contract may be required in order to meet critical silvicultural objectives. SLS work shall comply with the following:

- 1. All brush species one foot or greater in height, damaged conifer reproduction and hardwoods, and hardwoods not marked or otherwise identified for retention, shall be completely severed from the stumps. Brush species consist of shrubs with single or multiple stems originating at or near ground level and not normally reaching twenty 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.
- 2. Stump heights shall not exceed four inches measured on the uphill side.
- 3. No live limbs will be left on stumps.
- 4. Slashed hardwoods shall be bucked every four feet and the limbs will be completely severed from the bole of the cut hardwood.
- 5. 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 will be severed from the bole of the trees.

- 6. All slashed vegetation and logging debris (brush, limbs and boles) shall be sufficiently cut and/or scattered in such a manner that will reduce the average slash depth in any given location to no more than twelve inches (1 foot).
- 7. All slash, lop, and scatter work must be completed by October 15 for all areas where logging was completed on August 1 of each year.

(ab) Time is of the essence in complying with these 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 incurred by the Government in disposing of slash including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment, materials and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of treatments and conditions necessitate additional site preparation work and/or the use of additional personnel and equipment to accomplish the planned treatments, the Purchaser also shall be responsible for such additional costs.

e. Snag Creation

(1) The Purchaser shall, within (1) year following the completion of yarding operations, create 96 snags, as directed by the Authorized Officer and in accordance with the following stipulations:

- (a) Trees selected to become Snags are marked with an orange "S" on the bole of the trees. Snag Group estimated locations and quantities are indicated on the Exhibit I.
- (b) Of the 96 Snags to be created, the Purchaser shall top thirty-eight (38) "S" marked conifer trees and girdle fifty-eight (58) "S" marked conifer trees in Unit 1, as shown on the Exhibit I and as directed by the Authorized Officer, according to the following:
 - 1. The Purchaser shall top trees above the third live whorl of limbs at a minimum height of 40 feet or at 60 feet if no live limbs occur below 60 feet.
 - 2. Snags shall generally be created by girdling live, green trees at three and one-half (3½) feet above the root collar; girdling will consist of severing the cambial tissue at least ¾ of the circumference around the bole of the tree, without cutting into the sapwood more than one and one-half (1½) inches, and removing a four (4) inch band of bark.
- f. Optional Scale Check of Lump Sum Sales

(1) The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for

SPECIAL PROVISIONS - Page 14 of 15

COOS BAY SALE NO. ORC03-TS-2025.0001 STEELE 27

administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed.

(2) In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows. If the entire sale is check scaled by yard scale, the purchase price of this contract shall be reduced by \$4,212.75. In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of \$4,212.75 which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Eastside Scribner Scaling Rules by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

g. Log Branding

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

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

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

SPECIAL PROVISIONS - Page ${\bf 15}$ of ${\bf 15}$

Exhibit F

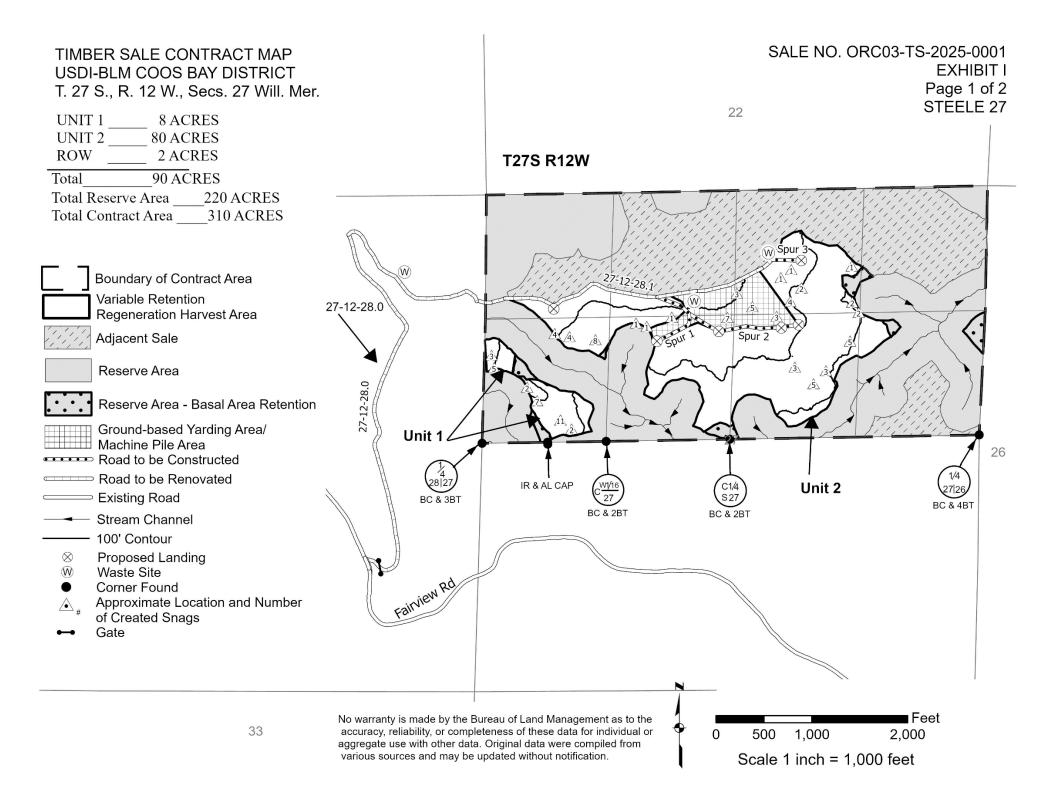
SPECIAL PROVISIONS TO CONTROL THE SPREAD OF NOXIOUS WEEDS

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.



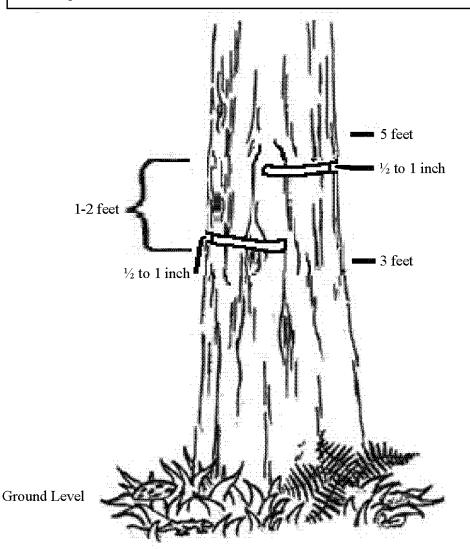
SPECIFICATIONS FOR BASAL GIRDLING

GENERAL:

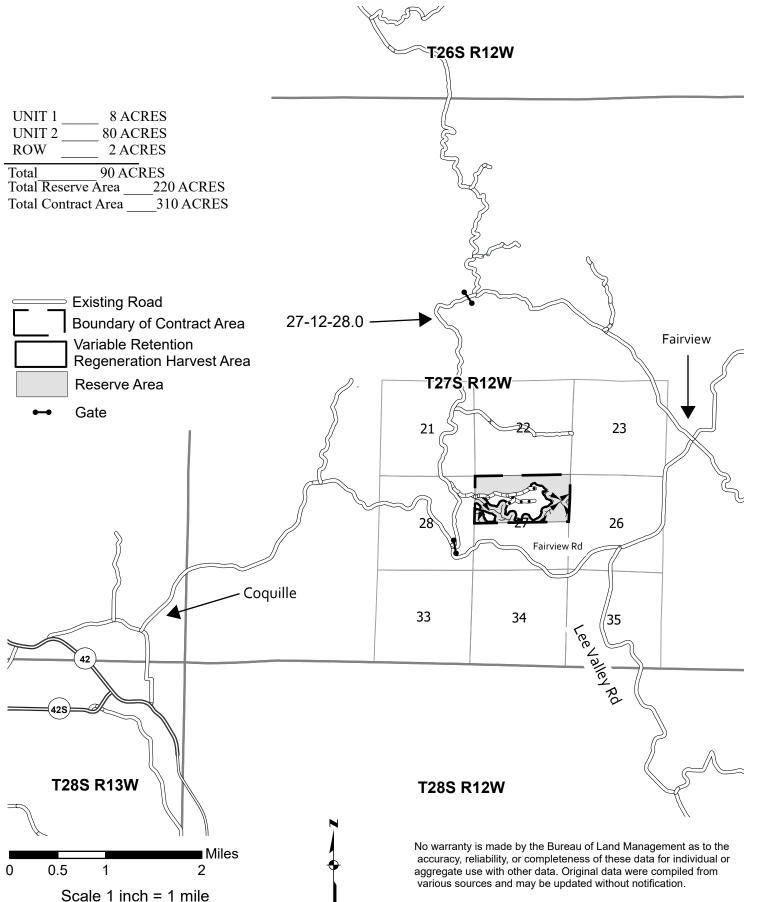
(1) Cut $\frac{1}{2}$ to $\frac{3}{4}$ circumference around the tree and penetrate through the cambium layer into the wood at least $\frac{1}{2}$ inch, but not more than 1 inch. The distance between the top and bottom cut shall be at least 1 foot apart but shall not exceed 2 feet and on opposing sides 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.

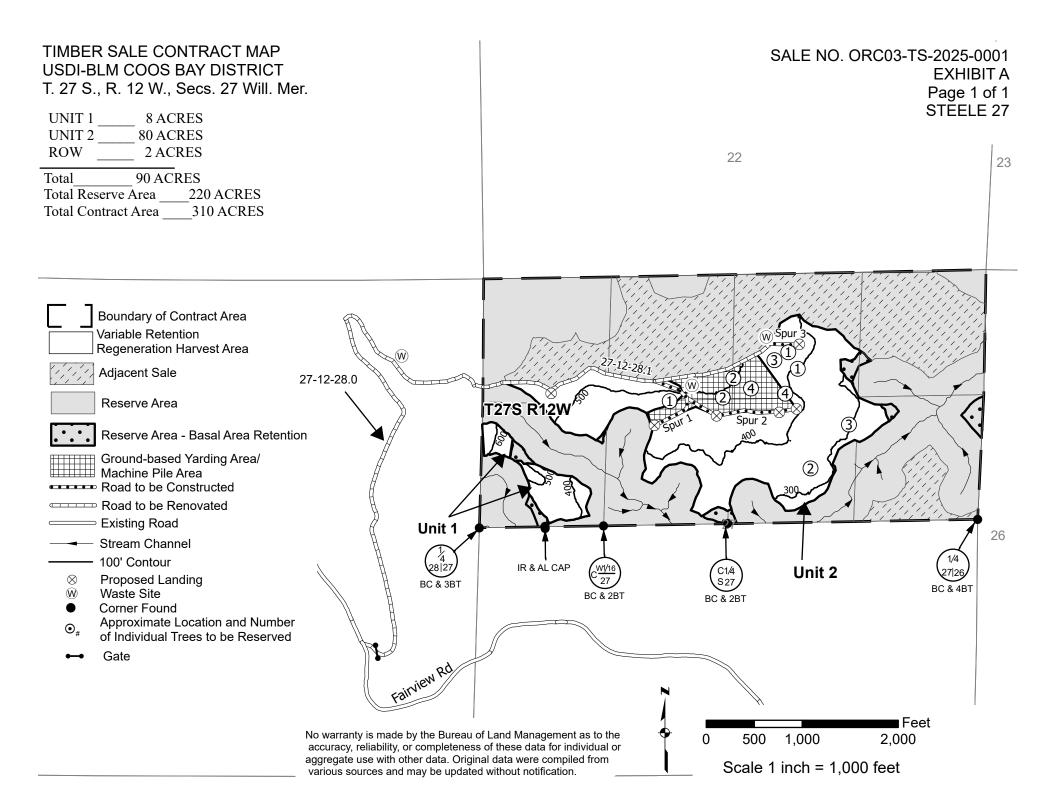
Illustration 1- Opposing Half-Girdle

<u>Opposing Half-Girdle example:</u> make two (2) 1/2 to 3/4 circumference girdles 1-2 feet apart on opposing sides of the tree. Cuts must penetrate at least 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.



TIMBER SALE CONTRACT MAP USDI-BLM COOS BAY DISTRICT T. 27 S., R. 12 W., Secs. 27, Will. Mer.





Form 5450-003a

(February 1986)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Contract No. ORC03-TS-2025.0001

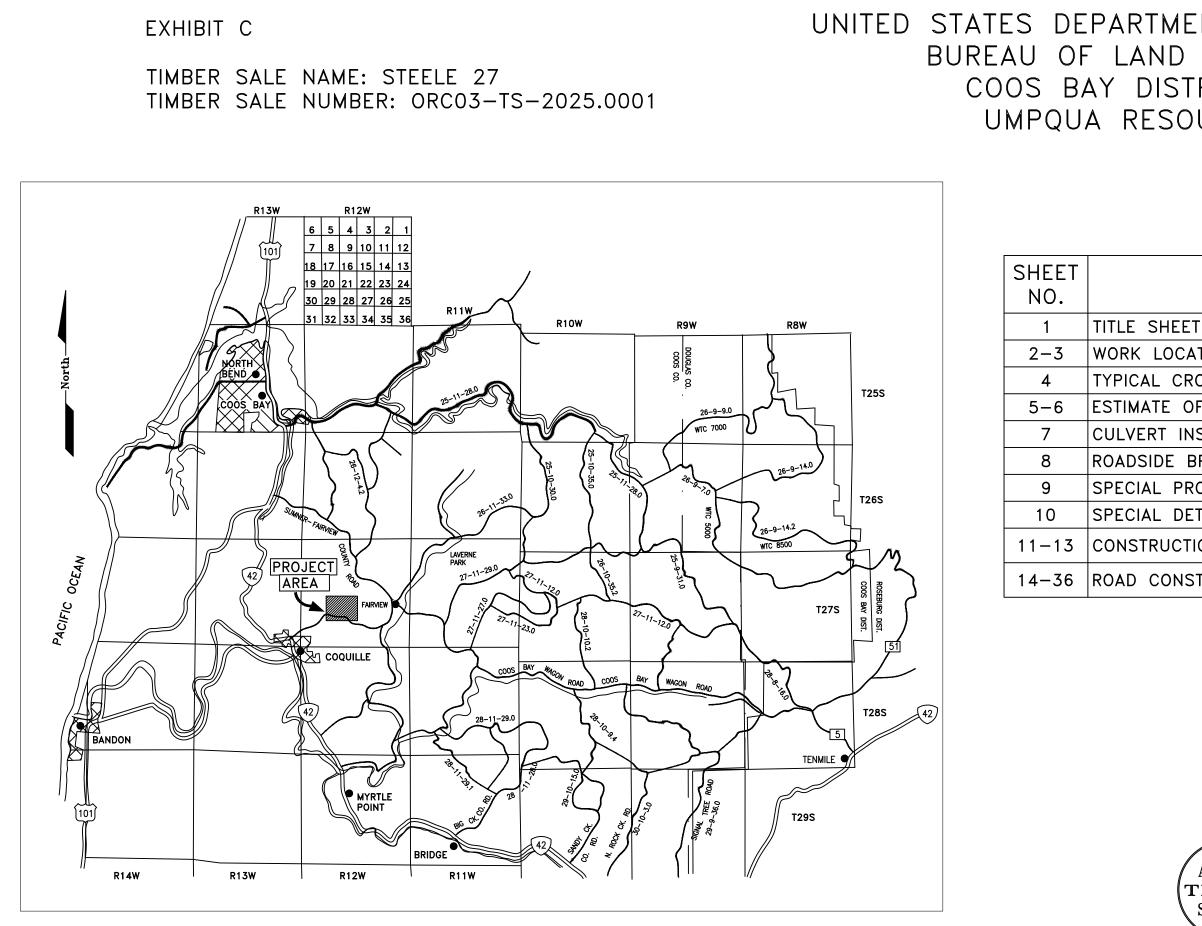
Steele 27

EXHIBIT B / PRE-SALE

5450-003

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

SPECIES	ESTIMATED VOLUME (Units Spec		JANTITY		PRICE PER UNIT	ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas Fir		5,	460.0	MBF	\$207.70	\$1,134,042.00
Grandfir			107.0	MBF	\$92.60	\$9,908.20
Western Redcedar			21.0	MBF	\$251.20	\$5,275.20
Western Hemlock			21.0	MBF	\$78.80	\$1,654.80
Red Alder			8.0	MBF	\$37.80	\$302.40
Mixed Species		1,	000.0 G	TON	\$0.05	\$50.00
TOTALS	5,61	7.0 MB	F, 1,000.0 G ⁻	TON		\$1,151,232.60
The apportionment of the total pure	chase price is as follows:					
<u>Unit 1 - Unit 1</u>						
Grandfir	2.5 MBF	Х	\$92.60	=	\$231.50	
Douglas Fir	511.0 MBF	Х	\$207.70	=	\$106,134.70	
Western Hemlock	2.5 MBF	Х	\$78.80	=	\$197.00	
Red Alder	4.0 MBF	Х	\$37.80	=	\$151.20	
Total	520.0 Mbf				\$106,714.40	÷ 8.0 acres = \$13,339.30/Acre
<u>Unit 2 - Unit 2</u>						
Grandfir	104.0 MBF	Х	\$92.60	=	\$9,630.40	
Douglas Fir	4,783.0 MBF	х	\$207.70	=	\$993,429.10	
Western Hemlock	18.5 MBF	Х	\$78.80	=	\$1,457.80	
Western Redcedar	21.0 MBF	Х	\$251.20	=	\$5,275.20	
Red Alder	4.0 MBF	Х	\$37.80	=	\$151.20	
Total	4930.5 Mbf				\$1,009,943.70	÷ 80.0 acres = \$12,624.30/Acre
<u>Unit ROW - ROW</u>						
Grandfir	0.5 MBF	Х	\$92.60	=	\$46.30	
Mixed Species	1,000.0 GTON	Х	\$0.05	=	\$50.00	
Douglas Fir	166.0 MBF	х	\$207.70	=	\$34,478.20	
Total	166.5 Mbf, 1000.0 Gton				\$34,574.50	÷ 2.0 acres = \$17,287.25/Acre



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OFFICE UMPQUA RESOURCE AREA

CONTENTS

WORK LOCATION MAPS

TYPICAL CROSS SECTION DETAILS

ESTIMATE OF QUANTITIES

CULVERT INSTALLATION DETAILS

ROADSIDE BRUSHING DETAILS

SPECIAL PROVISIONS

SPECIAL DETAILS

11–13 CONSTRUCTION DETAIL SHEETS

14-36 ROAD CONSTRUCTION SPECIFICATIONS

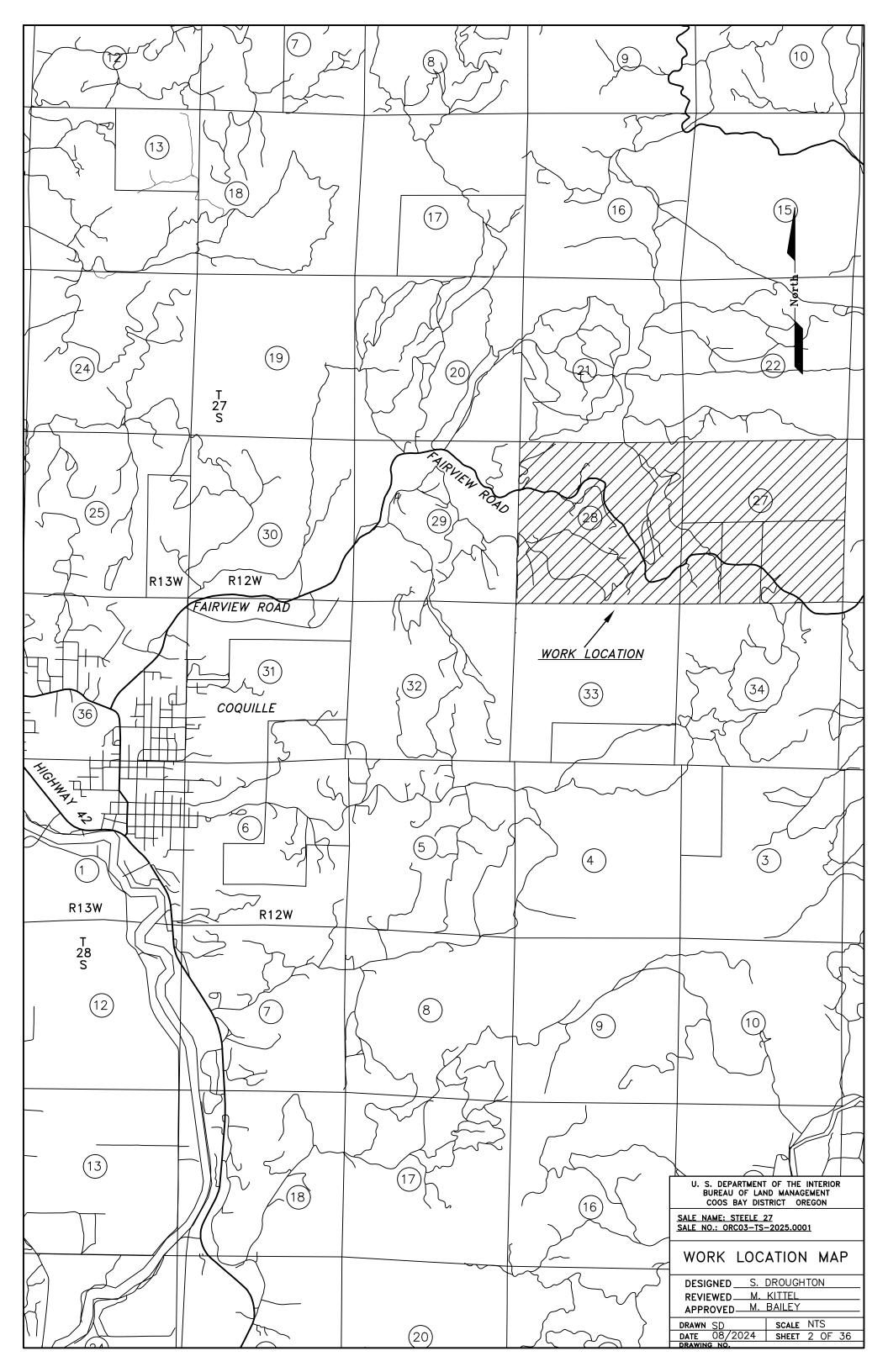


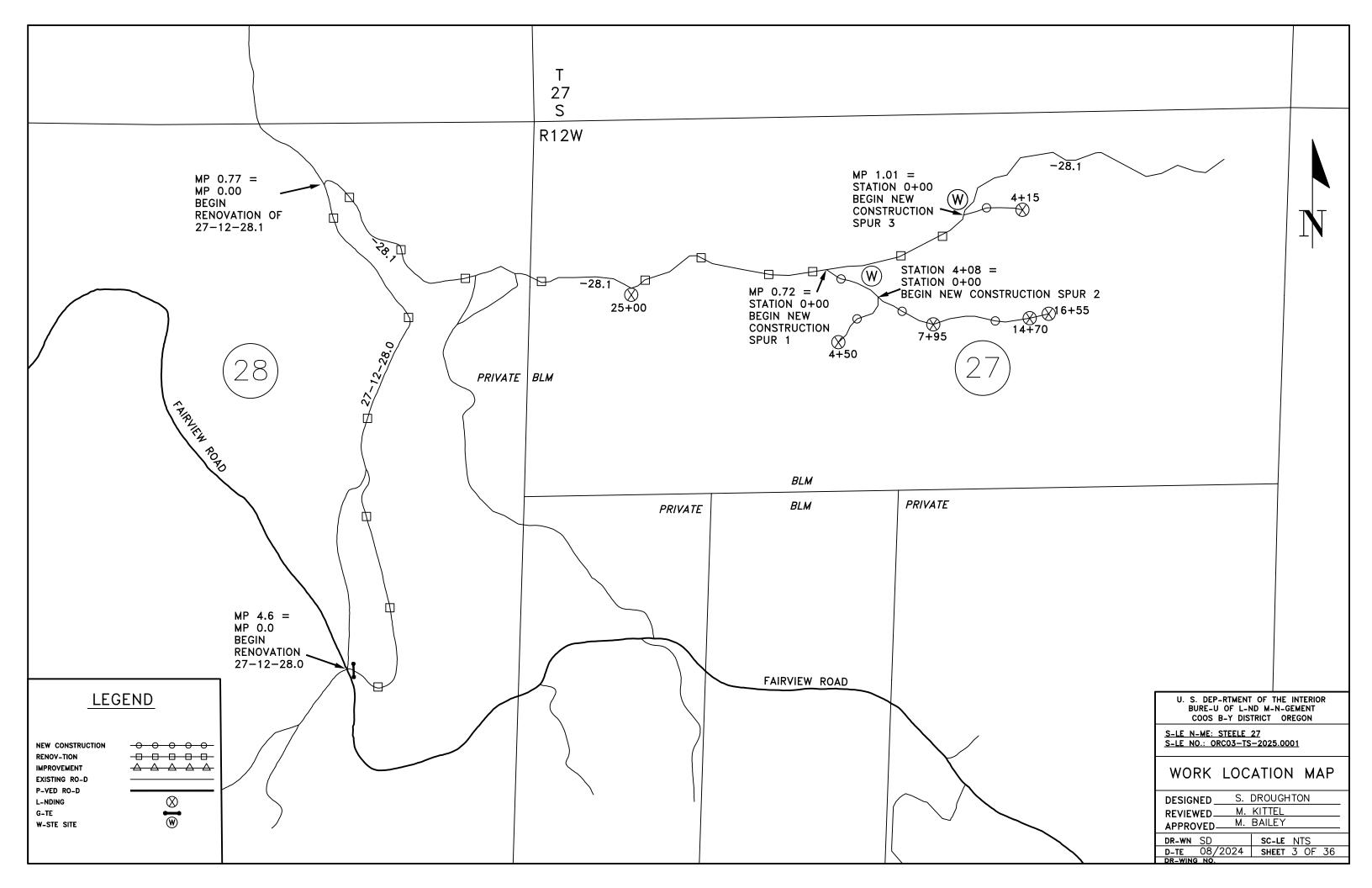
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

SALE NAME: STEELE 27 SALE NO.: ORC03-TS-2025.0001

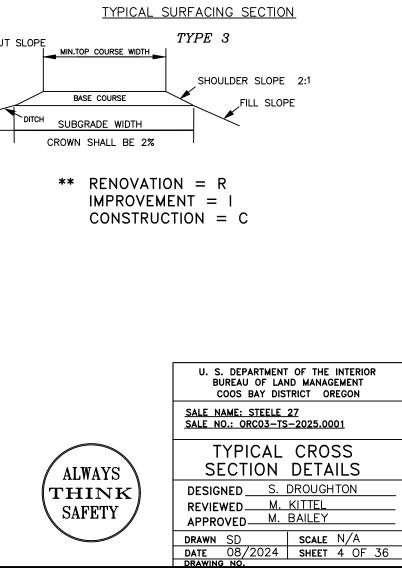
TITLE SHEET

DESIGNED S. DROUGHTON
REVIEWED M. KITTEL
APPROVED M. BAILEY
DRAWN SD SCALE NTS
DATE 08/2024 SHEET 1 OF 36
DRAWING NO





					ROAD W	/IDTH ¹	CLEA	RING	BRUS	SHING				S	URFACING				
	FROM	то	LENGTH	TYPICAL				OND		TING		BASE C	DURSE			SURFACE	COURSE		
ROAD NUMBER **		MILEPOST /STATION		SECTION	SUBGRADE	DITCH	TOP CUT	TOE FILL	L	R	Min Top Width	Comp. Depth	Type ²	Grading	Min To Width		Type ²	Grading	REMARKS
27-12-28.0 R	0.00	0.77	0.77	4	16'	2'			10'	10'					SP	DT ROCK	С	1.5-0"	CROWNED 2% W/DITCH
27-12-28.1 R	0.00	1.01	1.01	4	16'	2'			10'	10'									CROWNED 2% W/DITCH
SPUR 1 C	0.00	0.31	0.31	4	16'	2'	10'	5'			14'	6"	D	6-0"	1 2 '	6"	A	3-0"	CROWNED 2% W/DITC
SPUR 2 C	0.00	0.09	0.09	4	16'	2'	10'	5'			14'	6"	D	6-0"	12'	6"	A	3-0"	CROWNED 2% W/DITC
SPUR 3 C	0.00	0.08	0.08	4	16'	2'	10'	5'			14'	6"	D	6-0"	12'	6"	А	3-0"	CROWNED 2% W/DITC
ADD TO OF 1-6 WIDEN AS FOL WHEN 1 1 1 9 6 OR AS <u>MATERIALS</u>	FT. AND 2 F THE INSIDE SH LOWS: HE RADIUS OF 70-800 ADD 65-270 ADD 2 20-165 ADD 2 0-120 ADD 4 0-90 ADD 5 SHOWN ON PL <u>CUT SLOPI</u>	HOULDER 1 FT. T. FOR FILLS (OULDER OF AL CURVE EQUA T FT. 2 FT. 3 FT. FT. ANS E <u>FILL SLOF</u>	OVER 6 FT. LL CURVES LS 2E		6"	WITH DIT OR OUTSLOPE/	ide width TCH /INSLOPE (FI	YPE 1 LL SLOPE	s		OUTSLOPE/IN	WIDTH RSE DE WIDTH SLOPE @ 27	SHOULDER S	¥	DITCH SU	<u>TYPIC</u> . <u>top course wid</u> base course <u>BGRADE WIDTH</u> N SHALL BE	TYPE	ING SECTION 3 DULDER SLOPE 2:1 FILL SLOPE
SIDE SL 2. <u>Surfacing</u> A. Pit Run B. Grid Ro	1/4:1 ENCH CONSTRU OPES EXCEEDI	IAL. ATERIAL. ERIAL.	1	6"			YPE 4 COURSE WIDTH COURSE WIDTH		HOULDER	SLOPE 2 L SLOPE	CUT	YPICAL SUR TYF SLOPE MIN.TOP COURSE MIN.BASE COURS SURFACE BASE C SUBGRADI		SHOULDE	TR SLOPE 2:1 ,FILL SLOPE	**	IMPRO\	ATION = /EMENT = RUCTION	=
D. CRUSHE	'C' ASPHALT N					CROWN S	HALL BE 2	2%			I	OUTSLOPE/INS	LOPE @ 2%						



	ΟN	z	⊢ –				U Z		E4	ARTH WOR	K DESIGN	ED		CPF	*1		CMF	> *2		D	OWNSPOTS	*3	
ROAD NUMBER **	NEW CONSTRUCTH	RENOVATIO	IMPROVEMEN	SLASH TREATMENI	GRUBBING	ROADSIDE BRUSHING	SLOPE STAKI	соммон	RIPPABLE ROCK	ROCK CUT	FILL	SHORT HAUL 200– 500'	LONG HAUL 500'+	18"	24"	12"	18"	24"	142"×91 "	18" CPP 24" CPI (SW) (SW)	FULL ROUN P 18" CMP (SW)		MARKERS
SECTION NO.	300	500	500	200	200	2100	2300		300								4	400					
UNITS		MILEPOST		AC	RES	ACRES	SIDES	C	CUBIC YARD	S	YARDS	STA.YD.	YD.MI.					l	_INEAR FEI	ET			EA.
27-12-28.0 R		0.77				1.87																	
27-12-28.1 R		1.01				2.18																	
SPUR 1 C	0.31			1.20	0.60									120									
SPUR 2 C	0.09			0.35	0.17									40									
SPUR 3 C	0.08			0.31	0.16									40									
Total	0.48	1.78	0.00	1.86	0.93	4.05		Ī						200									

*1 CPP - CORRUGATED POLYETHYLENE PIPE

*2 CMP - CORRUGATED METAL PIPE

*3 SEE CULVERT INSTALLATION SHEET

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

	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON									
	<u>SALE NAME: STEELE 27</u> SALE NO.: ORCO3-TS-2025.0001									
ALWAYS	ESTIMATE OF QUANTITIES									
THINK SAFETY	DESIGNED S. DROUGHTON REVIEWED M. KITTEL APPROVED M. BAILEY									
	DRAWN SD SCALE N/A									
	DATE 08/2024 SHEET 5 OF 36									
	DRAWING NO.									

			SURFACIN	G			OTHER		SEE			
ROAD NUMBER	(3-0")	(6") OPEN GRADE ROCK	(6–0") BASE ROCK	(1.5–0") SURFACE ROCK		N/A	RIPRAP	GEO — TEXTILE	SEED, F AND	OTHER (SEDIMENT CONTROL		
	SURFACE ROCK						КІГКАГ		DRY	HYDRO	DEVICES)	
SECTION NO.		1000		1 2	200	N/A	1400	1300	18	N/A		
UNITS	С	UBIC YARE)S		CUBIC	C YARDS		S.Y.	AC	EACH		
GRADE	А	В	D		С	N/A	А		N⁄A			
27-12-28.0 R				200								
27-12-28.1 R			100									
SPUR 1 C	530		761	75			6		0.77			
SPUR 2 C	144		216				2		0.21			
SPUR 3 C	133		253	75			2		0.19			
TOTAL	807		1330	350			10		1.17			

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

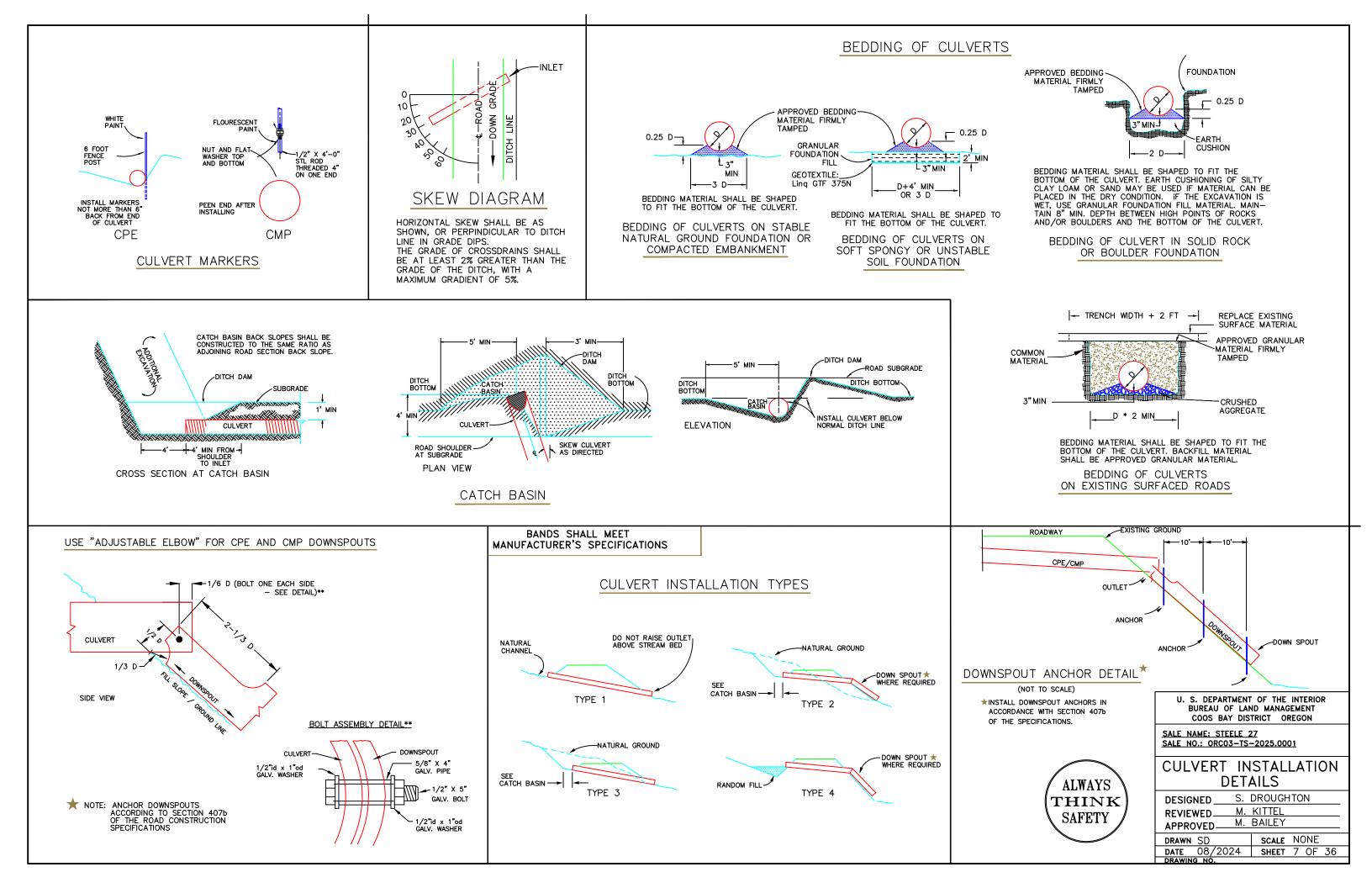
ALL ROCK QUANTITIES ARE TRUCK (LOOSE) MEASUREMENT QUANTITIES.

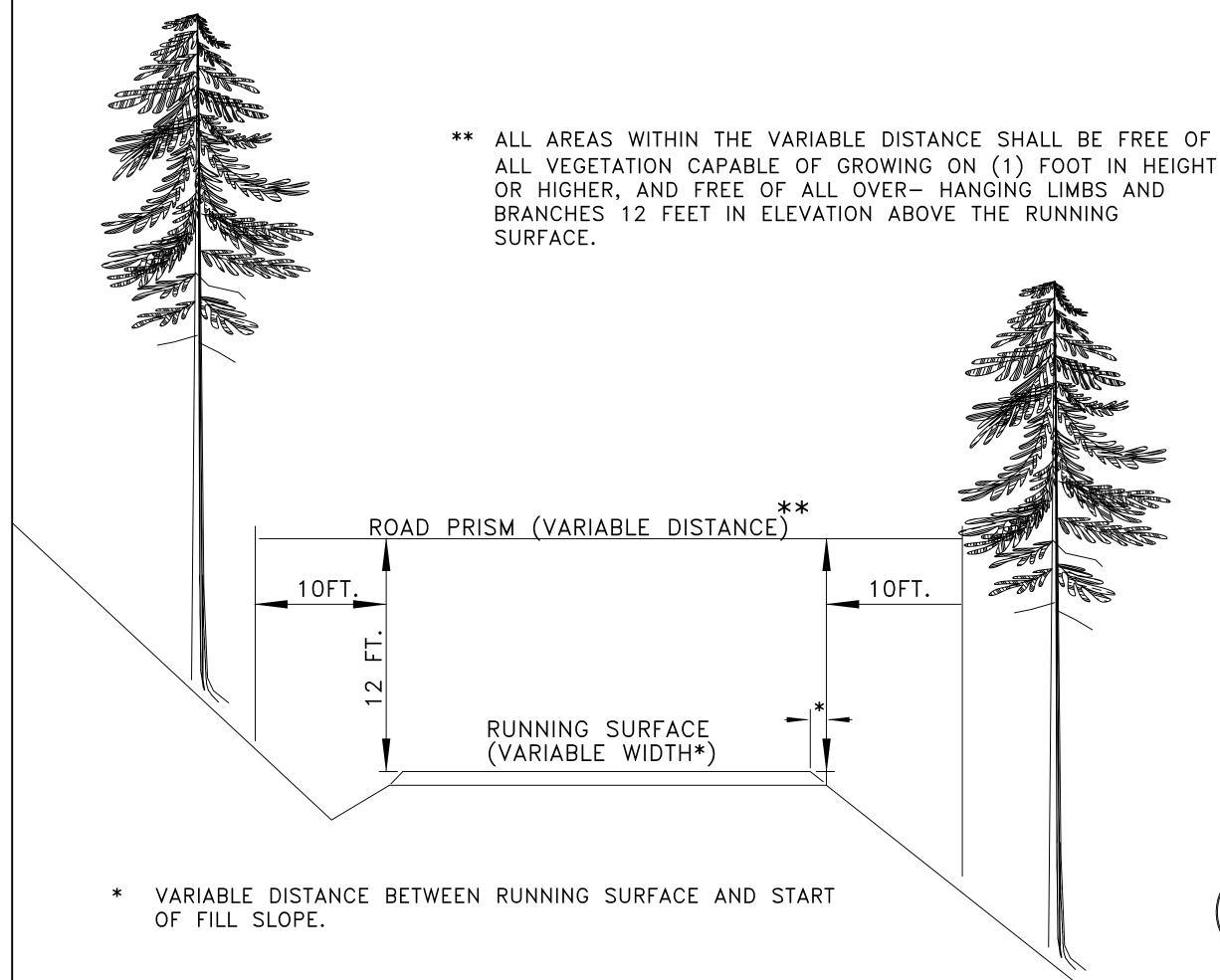
** 6" OPEN GRADED CRUSHED AGGREGATE. N-W = NON-WOOVEN (MIRAFIN 1120N) W = WOOVEN (POPEX 200ST)

*** RENOVATION = R IMPROVEMENT = ICONSTRUCTION = C

SECTION	GRADE	SIZE
400	С	1 1/2"
700	В	PITRUN
	А	3"
1000	В	3" OPEN GRADE
1000	С	2"
	D	6"
1100	В	4"
1200	С	1.5"
1200	D	1 "
1 400	А	10"-34"
CHIP SEAL ROCK	S	3/4"

	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON
	SALE NAME: STEELE 27 SALE NO.: ORCO3-TS-2025.0001
ALWAYS	ESTIMATE OF QUANTITIES
THINK SAFETY	DESIGNED S. DROUGHTON REVIEWED M. KITTEL APPROVED M. BAILEY
	DRAWN SD SCALE N/A
	DATE 08/2024 SHEET 6 OF 36
	DRAWING NO.





	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON
	SALE NAME: STEELE 27 SALE NO.: ORCO3-TS-2025.0001
ALWAYS THINK SAFETY	ROADSIDE BRUSHING DETAILS
	DESIGNED S. DROUGHTON REVIEWED M. KITTEL APPROVED M. BAILEY
	DRAWN SD SCALE N/A
	DATE 08/2024 SHEET 8 OF 36

GENERAL - 100

101 Pre-work Conference(s):

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

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

102 Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SPECIAL PROVISIONS

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

Road Centerline - Longitudinal center of roadbed.

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

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

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

<u>Tackifier</u> - A compound which penetrates into the earth and assists in creating a crust through the cohesive bonding of the surface materials to a depth sufficient to stabilize the soil surface and/or a compound used to mat together mulching material.

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

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

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

<u>Timber</u> - Standing trees, downed trees, or logs, or portions thereof, which are capable of being measured in board feet.

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

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

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

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

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

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

- 102a Tests Used in These Specifications:
 - AASHTO T 11 Quantity of rock finer than No. 200 sieve.
 - <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 0 sieve. Water content at which the soil passes from a plastic to a liquid state.
 - AASHTO T 90 Plastic limits and plasticity index of soil.
 - a. Plastic limit lowest water content at which the soil remains plastic.

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

- <u>AASHTO T 96</u> Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
- AASHTO T 99 Relationship between soil moisture and maximum density of soil.
- Method A 4" mold, soil passing a Sieve. 25 blows/layer & 3 layers.
- Method D 6" mold, soil passing a 19.00 mm (3/4 inches) sieve. 56 blows/layer & 5 layers.
- <u>AASHTO T 176</u> Shows relative portions of fine dust or clay-like materials in soil or graded aggregate.

- AASHTO T 180 (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop.
- AASHTO T 191 Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
- <u>AASHTO T 205</u> <u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil.
- AASHTO T 210 Durability of aggregates based on resistance to produce fines.
- AASHTO T 224 Correction for coarse particles in the soil.
- <u>AASHTO T 238</u> Determination of density of soil and soil-aggregates 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.
- DES. E-12 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:
- 103e <u>Grid roller.</u> 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 at a speed of at least 4 miles per hour.
- 103f <u>Vibratory roller.</u> The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer. The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.
- 103i <u>Other.</u> Compaction equipment approved by the Authorized Officer.

CLEARING AND GRUBBING - 200

- 201 This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections as shown on the plans.
- 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.
- 203 Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 and as shown on the plans.
- 203a Brush under 2 feet in height need not be cut within the limits established for clearing.
- 203b Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 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 Subsection(s) 204a, 204b, 204c, 204d, 204e between the top of the cut slope and the toe of the fill slope. Undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excepted.
- 204a Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.
- 204b Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet. When authorized, stumps and other nonperishable objects may be left provided they do not extend more than 6 inches above the existing ground line.
- 204c On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 204d On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.
- 204e Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- 206 Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210.
- 210 Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.

SPECIAL PROVISIONS

213 No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- 301 This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 302 Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 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.
- 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 of 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 and final subgrade material as specified under Subsection(s) 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 Subsection 103f and in accordance with the following table:

Road No.	From Station/M.P.	To Station/M.P.
SPUR 1	0.00	0.31
SPUR 2	0.00	0.09
SPUR 3	0.00	0.08

- 306d Compacted materials within 1 foot of the established subgrade elevation shall have a density in place of not less than 95 percent of maximum density, and below the 1-foot limit, these materials shall have a density in place of not less than 90 percent of maximum density. Maximum density shall be determined by AASHTO T 99, Method A or Method D.
- 306f Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures except as specified in Subsection 306.

306g The face of all fill slopes shall be compacted to 85% of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.

- 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 both the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 312 When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.
- 313 In cut areas where solid rock is encountered at or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.
- 314 When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 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.

- 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 Subsection 321c.
- NOTE: Any material being hauled over gravel or bituminous surfaced roads will be done in vehicles which meet legal highway weight requirements while hauling.
- 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. Placement in layers is required. Materials placed shall be sloped, shaped, and otherwise brought to a neat and sightly 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.
- 328 The Purchaser shall adopt methods and procedures in using explosives which will prevent damage to adjacent landscape features and which will minimize scattering rocks and other debris outside the road prism.

PIPE CULVERTS - 400

- 401 This work shall consist of furnishing and installing pipe culverts, pipe arch culverts, half rounds flume(s), perforated pipe culverts, downspout(s), elbow(s), and other erosion control device(s) 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 from 2 percent to 4 percent greater than the adjacent road grade and shall be skewed down grade 30 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.
- 405 Corrugated steel riveted and helical pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 as specified on the plans.
- 405a Corrugated-steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 as specified on the plans.
- 405e Corrugated-polyethylene pipe for culverts 12-inch through 24-inch diameter shall meet the requirements of AASHTO M 294 for type S. 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.
- 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 2 annular corrugations.
- 406b Coupling bands produced from flat galvanized steel sheets with impressed dimples will be permitted only for connecting annular corrugated steel pipe to helically corrugated steel pipe. Such coupling bands shall conform to the width requirements shown on the plans.
- 406f Channel-type or flanged-end coupling bands may be used on helical pipe with reformed rolled ends and flanged specifically to receive these bands. Such coupling bands shall conform to the requirements shown on the plans.
- 407 Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- 407b Full round culvert downspouts conforming to the material and construction requirements as shown on the plans shall be anchored with two six-foot steel fence posts (one on each side of the pipe) wired together with No. 12 galvanized wire in a manner approved by the Authorized Officer. These anchors shall be placed every ten feet along the pipe beginning at the outlet of the culvert pipe.
- 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.
- 409 Structural-plate pipe culverts and pipe-arch culverts shall be installed in accordance with the plans and detailed erection instructions furnished by the manufacturer. One copy of the erection instructions shall be furnished the Authorized Officer prior to erection.
- 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 included in the plans shown on Exhibit C and the Culvert Installation Detail Sheet.
- 412 Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled with selected granular or fine readily compactable soil material.
- 413 Pipe culverts and pipe-arch culverts shall be bedded on a selected granular or fine readily compactable soil material. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- 413a Bedding material for pipe culverts on existing surfaced roads shall be 1½ inch minus crushed

- 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.
- Inspection of pipe culverts having a diameter of 48 inches and pipe-arch culverts having a height of 40 inches or a cross sectional area of 13 square feet 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.
- Side-fill material for pipe culverts shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel and to 1 foot over the pipe with fine, readily compactable soil or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.
- For pipe culvert(s) side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe in layers not exceeding 6 inches in depth and 1 pipe diameter/span or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of 95 percent of the maximum density is attained as determined by AASHTO T 99, Method C.
- 418 Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- 423 Construction of catch basins and ditch dams conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for grade culverts.
- 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 marker(s) consisting of ½-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 all grade culvert

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

- 501 This work shall consist of reconditioning and preparing the roadbed and shoulders, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications and as 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 sufficient 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 NUMBER **	FROM MILEPOST/STATION	TO MILEPOST/STATION
27-12-28.0 R	0.00	0.77
27-12-28.1 R	0.00	1.01

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.
 Drainage ditches that are vegetated, capable of adequate water flow, and are in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans shall not be bladed.

- 503 Debris from slides shall be disposed of as directed by the Authorized Officer.
- 504 Scarified material and existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsection 103f and in accordance with the following table:

ROAD NUMBER **	FROM MILEPOST/STATION	TO MILEPOST/STATION
27-12-28.0 R	0.00	0.77
27-12-28.1 R	0.00	1.01

- 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.
- 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 designated pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- 507 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.

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 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.

AGGREGATE BASE COURSE AND LANDING ROCK - 1000 CRUSHED ROCK MATERIAL

- 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.
- 1002a Crushed rock materials may be obtained from commercial sources selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- 1003 Crushed rock material produced from gravel shall have 3 manufactured fractured face(s) on 75 percent, by weight, of the material retained on the sieve.
- 1004 Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradiation requirements:

ORC03-TS-2025.0001 STEELE 27 EXHIBIT C SHEET 28 OF 36 SHEET

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

Sieve Designation	А	В	D
6-inch	-	100	100
3-inch	100	-	45-65
2-inch	90-95	-	-
12-inch	-	-	-
1-inch	45-75	-	-
3/4-inch	-	-	-
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	-	-

- 1005 Crushed rock material retained on the sieve shall have a percentage of loss of not more than 35 at 500 revolutions, 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 0 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 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:

Sand Equivalent AASHTO T 176 Maximum	Percentage Passing No. 200 Sieve AASHTO T 27 Maximum
34	9
33	8
32	7
31	6
30	5
29 or less	4

- 1008 If additional binder or filler is necessary in order to meet the grading or plasticity requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 1008a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading to full depth until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1009 The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of crushed rock materials. Notification for subgrade approval prior to rocking shall be 3 days prior to that approval 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. When more than one layer is required, each shall be shaped, processed, and 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.
- 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. 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.

AGGREGATE SURFACE COURSE, SPOT, AND MAINTENANCE ROCK - 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.
- 1202a Crushed rock materials used in this work may be obtained from commercial source(s) selected by the Purchaser at his option and expense, providing rock materials furnished comply with the specifications in this section.
- 1203 When crushed rock material is produced from gravel, not less than 75 percent by weight of the particles retained on the sieve will have 3 manufactured fractured face(s).
- 1204 Crushed rock material shall consist of hard durable rock fragments conforming to the following gradiation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

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

GRADIATION		
Sieve Designation	С	
1-1/2-inch	100	
1-inch	-	
3/4-inch	50-90	
1/2-inch	-	
No. 4	25-50	
No. 8	-	
No. 30	-	
No. 40	5-25	
No. 200	2-15	

GRADIATION

1205 Crushed rock material retained on the sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.

1206 Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.

- 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.
- 1207 That portion of crushed rock material passing the 0 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.
- 1207a That portion of crushed rock material passing sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

Sand Equivalent AASHTO T 176 Maximum	Liquid Limit AASHTO T 89 Maximum	Plasticity Index AASHTO T 90 Maximum	Percentage Passing No. 200 Sieve AASHTO T 27 Maximum
34	25	9	9
33	25	8	8
32	25	7	7
31	25	6	6
30	25	5	5
29 or less	25	4	4

- 1208 If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 1208a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1209 Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsections 500 for placing on the roadbeds. Notification for roadbed inspection, prior to rocking, shall be 3 days prior to that inspection and shall be 6 days prior to start of rocking operations.
- 1210 Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

- 1210a Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1212 Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection 103i. Minimum compaction shall be 1 hour of continuous compacting for each 150 cubic yards or fraction thereof, of crushed rock material placed per layer.

SLOPE PROTECTION - 1400

- 1401 This work shall consist of furnishing, hauling, and placing stone materials (riprap) for slope protection structures (energy dissipaters at culvert outlets) in accordance with these specifications. Material not conforming to these specifications will be rejected, and shall be removed from the slope protection structure as directed by the Authorized Officer.
- 1402 **Riprap shall be hard, durable, angular in shape, and resistant to weathering and water action.** Thickness of a single stone should be more than one-third its length. Do not use rounded rock or boulders. Stone shall be free from overburden, spoil, shale, and organic material and conforming to the following:

a. Apparent Specific Gravity (AASHTO T85)	2.50 Min.
b. Absorption (AASHTO T85)	4.2% Max.
c. Coarse Durability Index (AASHTO T210)	20 Min.

1403 Loose riprap shall meet the following gradation:

	<u>A</u>
Equivalent	Total Size
Cubic	Smaller
Dimensions	<u>Than Given</u>
34 inches	100
27 inches	80
22 inches	50
10 inches	10

- 1404 The placement of slope protection riprap by the end dumping method is not permitted.
- 1405 **Riprap shall be placed to produce a well keyed mass of rock with the least practical amount of void spaces.** The foundation course is the course placed in contact with the ground surface, and shall be placed on a stable key bench. Bearing shall not be on smaller rocks that may be used for filling voids.
- 1405a Riprap shall be placed directly under the culvert outlet and extend to the point where a 45degree angle from the outlet invert intersects the key bench. Riprap shall extend a minimum distance equal to the culvert diameter on all sides.
- 1406 Determination of the acceptability of the slope protection structure will be by visual inspection and / or physical measurements by the Authorized Officer.

EROSION CONTROL - 1700

- 1701 This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 1702 The Purchaser shall construct dike(s), dam(s), diversion channel(s), settling basin(s) and other erosion control structure(s) as directed by the Authorized Officer.
- 1704 The erosion control provisions specified under this subsection shall be coordinated with the soil stabilization requirement(s) 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.
- 1706a The Purchaser shall perform, during the same construction season, erosion control measures specified in the plans on all exposed excavation, borrow, and embankment areas.
- 1707 Completed and partially completed segments of road(s) to be carried over the winter and early spring periods shall be stabilized by mulching exposed areas at the rate of 2,000 pounds per acre.
- 1708a Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway by water barring, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

SOIL STABILIZATION - 1800

- 1801 This work shall consist of seeding, fertilizing 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, fertilizing and mulching shall be performed on new road construction, road renovation, improvements, landings and disturbed 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 1707 and then complete the requirements of Soil Stabilization 1800 the next construction season.

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

- 1806 The Purchaser shall apply the seed mixtures specified under Special Provisions to the corresponding seeding projects as shown on Sheet No. 6.
- 1806a Additional soil stabilization work consisting of seeding, fertilizing 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 Section 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.
- 1809 Mulch materials conforming to the requirements of Subsections 1809b, 1809d or 1809e shall be furnished by the Purchaser in the amounts specified under Subsection 1812.
- 1809b Natural wood cellulose or grass fiber shall have the property of dispersing readily in water and shall have no toxic effect when combined with seed or other materials. The homogeneous slurry or mixture shall be capable of application with power spray equipment. A green-colored dye which is non-injurious to plant growth shall be used. Processed wood cellulose or grass fiber shall be packaged in new, labeled containers in an air dry condition. Processed wood cellulose or grass fiber furnished by the Purchaser shall be one of the following brand names or approved equal :

Silva Fiber	-	Weyerhaeuser Timber Co.
Conweb Fiber	-	Wood Conversion Co.
Spra-Mulch	-	Spra-Mulch Industries, Inc.
Grass-Mulch	-	Grass Mulch, Inc.

If the Purchaser proposes using a wood or grass fiber other than those listed above, he shall furnish a sample and descriptive literature to the Authorized Officer for approval prior to application. Processed wood cellulose or grass fiber furnished by the Purchaser which has become wet or otherwise damaged in transit or storage will not be accepted.

- 1809d Straw mulch shall be from oats, wheat, rye, or other approved grain crops which are free from noxious weeds, mold, or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing with power spray equipment.
- 1809e Grass straw mulch shall be from perennial grass or, if specified, an annual rye grass, from which the seed has been removed. The straw shall be free from noxious weed seed, mold, or other objectionable materials.
- 1810 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 be maintained in a dry state and has the approval of the Authorized Officer.
- 1811 Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding and plastic twine will not be permitted.
- 1812 The Purchaser shall furnish and apply to approximately **1.17** acres designated for treatment as shown on the plans and as specified under Subsection 1806, a mixture of water, fertilizer and mulch material, or a mixture of grass seed and fertilizer material at the following rate of application:

a.	Single Stage (Hydraulic): Water 3,000 Grass Seed Fertilizer Mulch 3,000	gals./acre 60 lbs./acre 200 lbs./acre lbs./acre
b.	Dry Application: Grass Seed Fertilizer	60 lbs./acre 200 lbs./acre

Mulch/Straw

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

3,000 lbs./acre

- 1815 The Purchaser may reduce the application rate on partially covered slopes and no application on areas already well stocked with grass or on rock surfaces.
- 1816 The seed, fertilizer and mulch materials shall be placed by the hydraulic or dry method in accordance with the requirements set forth in Subsection 1816a and 1816b.
- 1816a Hydraulic Method The seed, fertilizer and mulch materials shall be mixed with water to form a slurry and then applied under pressure by hydroseeder. When processed wood cellulose or grass fiber mulch material is to be incorporated as an integral part of the slurry mix, it shall be added after the seed and fertilizer have been thoroughly mixed.
- 1816b Dry Method Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, fertilizer spreaders, or other approved mechanical seeding equipment may be used when seed and fertilizer are to be applied in dry form.
- 1817 Hydraulic equipment used for the application of slurry shall meet the following requirements: The equipment shall have a built-in agitation system. The slurry distribution lines shall be large enough to prevent stoppage. Discharge line shall be equipped with a set of hydraulic spray nozzles which will provide even distribution of the slurry on the various slopes to be treated. The slurry tank shall have a minimum operation capacity of 1,300 gallons and shall be mounted on a traveling unit which will place the slurry tank and spray nozzles within sufficient proximity to the areas to be treated so as to provide uniform distribution without waste. Lug- or track-type units are not authorized. The hydroseeder must be capable of spraying the slurry a minimum distance of 100 feet. The nozzle, mounted on a stand, must be capable of traversing 360 degrees on a horizontal plane and a minimum of 70 degrees on a vertical plane.
- 1817a Hydromulch slurry mixing shall be with water and seed first, followed by fertilizer, and finally fiber. The time between mixing and application shall not exceed 1 hour.
- 1819 The maximum distance to be seeded, fertilized and mulched from the road centerline shall be 100 feet for the cut slopes and 150 feet for the fill slopes.
- 1820 The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- 1822 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.

- 1823 No materials shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 1826 Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING – 2100

- 2101 This work shall consist of cutting and the removal of vegetation from the road prism variable distance and inside curves in accordance with these specifications. This work shall conform to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet, 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 chainsaws.
- 2103 Vegetation cut manually or mechanically less than 6 inches in diameter at D.B.H. shall be cut to a maximum height of 6 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill sloped and all limbs will be severed from the trunk.
- 2103a Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. All limbs 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. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 12 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 Vegetative growth capable of growing 1 foot in height or higher shall be cut within the road prism/variable distance or as directed by the Authorized Officer.
- 2108 Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 Debris resulting from roadside brushing shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.
- 2113 Roadside brushing shall be accomplished as specified on the roads listed in Estimate of Quantities Sheet.
- 2116 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2117 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Control Devices

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Version: 8.0.0.22 Summary of All Roads and Projects Updated: 11/4/2022 T.S. Contract Name: Steele 27 Tract No: 2025.0001 Sale Date: 11/22/2024 Prepared by: SD Ph: Print Date: 8/26/2024 11:28:21 AM Construction: 25.20 sta Improve: 0.00 sta Renov: 88.18 sta Decom: 0.00 sta Temp: 0.00 sta 200 Clearing and Grubbing: 0 acres \$0.00 300 Excavation: \$23,456.27 Haul < 500 ft: 0 sta-yds Haul > 500 ft: 0 yd-mi 400 Drainage: \$10,014.00 Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 200.00 lf 500 Renovation: \$3,275.66 Blading 1.78 mi 700-1200 Surfacing: \$71,578.44 Commercial Quarry Name: HERVEY 1.5-0" 350.00 LCY Commercial Quarry Name: HERVEY 3-0" 807.00 LCY Commercial Quarry Name: HERVEY 6-0" 1,330.00 LCY Commercial Quarry Name: HERVEY RIP RAP 10.00 LCY 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 1.17 acres \$1,254.13 Includes Small Quantity Factor of 1.53 1900 Cattleguards: \$0.00 2100 RoadSide Brushing: \$1,145.79 Mechanical Brushing: 4.05 acres 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$5,146.00 Surf. \$0.00..... \$5,146.00 Quarry Development: \$0.00 Total = \$115,870.29Notes: Quantities shown are estimates only and not pay items.

Surfacing Quantities are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele 27 Sale Date: 11/22/2024 Road Number: 27-12-28.0 R Road Name:	
Road Renovation: 0.77 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation:Blading 0.77 mi	\$1,417.00
700-1200 Surfacing: Quarry Name: HERVEY 1.5-0" 200.00 LCY	\$6,074.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.87 acres	\$529.04
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$372.74 Surf. \$0.00	\$372.74
Quarry Development:	\$0.00
Notes:	\$8,392.78

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are loose cubic yards.

```
Road Construction Worksheet
Road Number: 27-12-28.0 R Road Name:
Section 500 Renovation:
 Blading: $923.61/mi x 0.77 mi = $711.18
 Compaction: $415.02/mi x 0.77 mi = $319.57
 Clean Culverts: $501.63/mi x 0.77 mi = $386.26
                                                                 Subtotal: $1,417.00
Section 700-1200 Surfacing:
Commercial Quarry Name: HERVEY 1.5-0"
 Comment: SURFACING SPOT ROCK
 Length TopW
                BotW
                        Depth CWid #TOs Width F.W.L Taper
                                                                Other
                                                                 200 LCY
 Rock Volume = 200.00 LCY
 Purchase Price / Royalty: $14.15/LCY x 200.00 LCY = $2,830.00
 Processing: $1.20/LCY x 200.00 LCY = $240.00
 Compaction: $1.38/LCY x 200.00 LCY = $276.00
 Basic Rock Haul cost: $0.81/LCY x 200.00 LCY = $162.00
 Rock Haul +15% grades: $2.43/LCY-mi x 200.00 LCY x 2.00 mi= $972.00
 Rock Haul -15% grades: $1.21/LCY-mi x 200.00 LCY x 2.00 mi= $484.00
 Rock Haul St& Co Roads: $0.54/LCY-mi x 200.00 LCY x 6.00 mi= $648.00
 Basic Water Haul cost: $0.79/LCY x 200.00 LCY = $158.00
 Water Haul +15% grades: $0.34/LCY-mi x 200.00 LCY x 2.00 mi= $136.00
 Water Haul -15% grades: $0.17/LCY-mi x 200.00 LCY x 2.00 mi= $68.00
 Water Haul St&Co Roads: $0.10/LCY-mi x 200.00 LCY x 5.00 mi= $100.00
                                                                 Subtotal: $6,074.00
Section 2100 Roadside Brushing:
Mechanical Brushing
 Brushing width Left: 10ft. Right: 10ft.
 RoadSide Brushing Light: $282.91/acre x 1.87 acres = $529.04
                                                                 Subtotal: $529.04
Mobilization:
  Construction - 7.24\% of total Costs = \$372.74
                                                                 Subtotal:
                                                                              $372.74
                                                                 Total: $8,392.78
```

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele 27 Sale Date: 11/22/2024 Road Number: 27-12-28.1 R Road Name:	
Road Renovation: 0.9 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation:Blading 1.01 mi	\$1,858.66
700-1200 Surfacing: Quarry Name: HERVEY 6-0" 100.00 LCY	\$2,767.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.00 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):2.18 acres	\$616.74
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$243.65 Surf. \$0.00	\$243.65
Quarry Development:	\$0.00
Notes: Total:	\$5,486.05

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet Road Number: 27-12-28.1 R Road Name: Section 500 Renovation: Blading: \$923.61/mi x 1.01 mi = \$932.85 Compaction: \$415.02/mi x 1.01 mi = \$419.17 Clean Culverts: \$501.63/mi x 1.01 mi = \$506.65 Subtotal: \$1,858.66 Section 700-1200 Surfacing: Commercial Quarry Name: HERVEY 6-0" Comment: LANDING ROCK Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 100 LCY Rock Volume = 100.00 LCY Purchase Price / Royalty: \$11.45/LCY x 100.00 LCY = \$1,145.00 Processing: \$1.20/LCY x 100.00 LCY = \$120.00 Compaction: \$1.38/LCY x 100.00 LCY = \$138.00 Basic Rock Haul cost: $$0.81/LCY \times 100.00 LCY = 81.00 Rock Haul +15% grades: \$2.43/LCY-mi x 100.00 LCY x 2.00 mi= \$486.00 Rock Haul -15% grades: \$1.21/LCY-mi x 100.00 LCY x 2.00 mi= \$242.00 Rock Haul St& Co Roads: \$0.54/LCY-mi x 100.00 LCY x 6.00 mi= \$324.00 Basic Water Haul cost: $$0.79/LCY \times 100.00 LCY = 79.00 Water Haul +15% grades: \$0.34/LCY-mi x 100.00 LCY x 2.00 mi= \$68.00 Water Haul -15% grades: \$0.17/LCY-mi x 100.00 LCY x 2.00 mi= \$34.00 Water Haul St&Co Roads: \$0.10/LCY-mi x 100.00 LCY x 5.00 mi= \$50.00 Subtotal: \$2,767.00 Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: \$282.91/acre x 2.18 acres = \$616.74 Subtotal: \$616.74 Mobilization: Construction - 4.73% of total Costs = \$243.65Subtotal: \$243.65 Total: \$5,486.05

ROAD CONSTRUCTION SUMMARY

Road Number: SPUR 1 C Road Name:	
Road Construction: 0.31 mi 16 ft Subgrade 2 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation: \$	\$11,936.93
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 120.00 lf	\$6,008.40
500 Renovation:	\$0.00
700-1200 Surfacing: \$ Quarry Name: HERVEY 1.5-0" 75.00 LCY Quarry Name: HERVEY 3-0" 530.00 LCY Quarry Name: HERVEY 6-0" 761.00 LCY Quarry Name: HERVEY RIP RAP 6.00 LCY	339 , 175.34
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.77 acres Includes Small Quantity Factor of 1.53	\$869.59
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.00 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$2,695.14 Surf. \$0.00	\$2,695.14
Quarry Development:	\$0.00
Notes: Total: \$	\$60,685.41

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are loose cubic yards. Road Construction Worksheet Road Number: SPUR 1 C Road Name: Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 16.6 sta = \$572.46 Blading with ditch: \$18.27/station x 16.55 stations = \$302.37SUBGRADE CONSTRUCTION Tractor: D8 with rippers 35 hr x \$316.06/hr = \$11,062.10 Subtotal: \$11,936.93 Section 400 Drainage: Poly Pipe 18 inch 120 lf x 50.07/1f = 6,008.40Subtotal: \$6,008.40 Section 700-1200 Surfacing: Commercial Quarry Name: HERVEY 1.5-0" Comment: SPOT ROCK MP 0.0 TO 0.9 Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 75 LCY Rock Volume = 75.00 LCY Purchase Price / Royalty: \$14.15/LCY x 75.00 LCY = \$1,061.25 Processing: \$1.20/LCY x 75.00 LCY = \$90.00 Compaction: $1.38/LCY \times 75.00 LCY = 103.50$ Basic Rock Haul cost: \$0.81/LCY x 75.00 LCY = \$60.75 Rock Haul +15% grades: \$2.43/LCY-mi x 75.00 LCY x 2.00 mi= \$364.50 Rock Haul -15% grades: \$1.21/LCY-mi x 75.00 LCY x 2.00 mi= \$181.50 Rock Haul St& Co Roads: \$0.54/LCY-mi x 75.00 LCY x 6.00 mi= \$243.00 Basic Water Haul cost: \$0.79/LCY x 75.00 LCY = \$59.25 Water Haul +15% grades: \$0.34/LCY-mi x 75.00 LCY x 2.00 mi= \$51.00 Water Haul -15% grades: \$0.17/LCY-mi x 75.00 LCY x 2.00 mi= \$25.50 Water Haul St&Co Roads: \$0.10/LCY-mi x 75.00 LCY x 5.00 mi= \$37.50 Commercial Quarry Name: HERVEY 3-0" Comment: SURFACE ROCK #TOs Width F.W.L Taper Length TopW BotW Depth CWid Other 0.31mi 12ft 14ft 6in Rock Volume = 530.00 LCY Purchase Price / Royalty: \$13.30/LCY x 530.00 LCY = \$7,049.00 Processing: $$1.20/LCY \times 530.00 LCY = 636.00 Compaction: $$1.38/LCY \times 530.00 LCY = 731.40 Basic Rock Haul cost: \$0.81/LCY x 530.00 LCY = \$429.30 Rock Haul +15% grades: \$2.43/LCY-mi x 530.00 LCY x 2.00 mi= \$2,575.80 Rock Haul -15% grades: \$1.21/LCY-mi x 530.00 LCY x 2.00 mi= \$1,282.60 Rock Haul St& Co Roads: \$0.54/LCY-mi x 530.00 LCY x 6.00 mi= \$1,717.20 Basic Water Haul cost: \$0.79/LCY x 530.00 LCY = \$418.70 Water Haul +15% grades: \$0.34/LCY-mi x 530.00 LCY x 2.00 mi= \$360.40 Water Haul -15% grades: \$0.17/LCY-mi x 530.00 LCY x 2.00 mi= \$180.20 Water Haul St&Co Roads: \$0.10/LCY-mi x 530.00 LCY x 5.00 mi= \$265.00 Commercial Quarry Name: HERVEY 6-0" Comment: BASE ROCK Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.31mi 14ft 16ft 6in Rock Volume = 611.00 LCY Purchase Price / Royalty: \$11.45/LCY x 611.00 LCY = \$6,995.95 Processing: \$1.20/LCY x 611.00 LCY = \$733.20 Compaction: $$1.38/LCY \times 611.00 LCY = 843.18 Basic Rock Haul cost: \$0.81/LCY x 611.00 LCY = \$494.91 Rock Haul +15% grades: \$2.43/LCY-mi x 611.00 LCY x 2.00 mi= \$2,969.46 Rock Haul -15% grades: \$1.21/LCY-mi x 611.00 LCY x 2.00 mi= \$1,478.62 Rock Haul St& Co Roads: \$0.54/LCY-mi x 611.00 LCY x 6.00 mi= \$1,979.64 Basic Water Haul cost: \$0.79/LCY x 611.00 LCY = \$482.69

Water Haul +15% grades: \$0.34/LCY-mi x 611.00 LCY x 2.00 mi= \$415.48 Water Haul -15% grades: \$0.17/LCY-mi x 611.00 LCY x 2.00 mi= \$207.74 Water Haul St&Co Roads: \$0.10/LCY-mi x 611.00 LCY x 5.00 mi= \$305.50 Commercial Quarry Name: HERVEY 6-0" Comment: LANDING ROCK Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 150 LCY Rock Volume = 150.00 LCY Purchase Price / Royalty: \$11.45/LCY x 150.00 LCY = \$1,717.50 Processing: \$1.20/LCY x 150.00 LCY = \$180.00 Compaction: \$1.38/LCY x 150.00 LCY = \$207.00 Basic Rock Haul cost: \$0.81/LCY x 150.00 LCY = \$121.50 Rock Haul +15% grades: \$2.43/LCY-mi x 150.00 LCY x 2.00 mi= \$729.00 Rock Haul -15% grades: \$1.21/LCY-mi x 150.00 LCY x 2.00 mi= \$363.00 Rock Haul St& Co Roads: \$0.54/LCY-mi x 150.00 LCY x 6.00 mi= \$486.00 Basic Water Haul cost: \$0.79/LCY x 150.00 LCY = \$118.50 Water Haul +15% grades: \$0.34/LCY-mi x 150.00 LCY x 2.00 mi= \$102.00 Water Haul -15% grades: \$0.17/LCY-mi x 150.00 LCY x 2.00 mi= \$51.00 Water Haul St&Co Roads: \$0.10/LCY-mi x 150.00 LCY x 5.00 mi= \$75.00 Quarry Name: HERVEY RIP RAP Commercial Comment: ENERGY DISSIPATORS Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 6 LCY Rock Volume = 6.00 LCY Purchase Price / Royalty: \$16.30/LCY x 6.00 LCY = \$97.80 Processing: $$1.20/LCY \times 6.00 LCY = 7.20 Compaction: $$1.38/LCY \times 6.00 LCY = 8.28 Basic Rock Haul cost: $$0.81/LCY \times 6.00 LCY = 4.86 Rock Haul +15% grades: \$2.43/LCY-mi x 6.00 LCY x 2.00 mi= \$29.16 Rock Haul -15% grades: \$1.21/LCY-mi x 6.00 LCY x 2.00 mi= \$14.52 Rock Haul St& Co Roads: \$0.54/LCY-mi x 6.00 LCY x 6.00 mi= \$19.44 Basic Water Haul cost: $0.79/LCY \times 6.00 LCY = 4.74$ Water Haul +15% grades: \$0.34/LCY-mi x 6.00 LCY x 2.00 mi= \$4.08 Water Haul -15% grades: \$0.17/LCY-mi x 6.00 LCY x 2.00 mi= \$2.04 Water Haul St&Co Roads: \$0.10/LCY-mi x 6.00 LCY x 5.00 mi= \$3.00 Subtotal: \$39,175.34 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOILS Dry Method with Mulch: $\$09.34/acre \times 0.77 acres = \623.19 Includes Small Quantity Factor of 1.53 + Mulch Cost: \$320.00/acre x 0.77 acres = \$246.40 Subtotal: \$869.59 Mobilization: Construction - 52.37% of total Costs = \$2,695.14Subtotal: \$2,695.14 Total: \$60,685.41

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele 27 Sale Date: 11/22/2024 Road Number: SPUR 2 C Road Name:	
Road Construction: 0.09 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$6 , 559.07
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 40.00 lf	\$2,002.80
500 Renovation:	\$0.00
700-1200 Surfacing: Quarry Name: HERVEY 3-0" 144.00 LCY Quarry Name: HERVEY 6-0" 216.00 LCY Quarry Name: HERVEY RIP RAP 2.00 LCY	\$10,292.64
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.21 acres Includes Small Quantity Factor of 1.53	\$169.96
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.00 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$884.18 Surf. \$0.00	\$884.18
Quarry Development:	\$0.00
Notes: Total:	\$19,908.65

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are loose cubic yards. Road Construction Worksheet Road Number: SPUR 2 C Road Name: Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 4.5 sta = \$155.66 Blading with ditch: \$18.27/station x 4.50 stations = \$82.22SUBGRADE CONSTRUCTION Tractor: D8 with rippers 20 hr x \$316.06/hr = \$6,321.20 Subtotal: \$6,559.07 Section 400 Drainage: Poly Pipe 18 inch 40 lf x 50.07/1f = 2,002.80Subtotal: \$2,002.80 Section 700-1200 Surfacing: Commercial Quarry Name: HERVEY 3-0" Comment: SURFACE ROCK Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.09mi 12ft 14ft 6in Rock Volume = 144.00 LCY Purchase Price / Royalty: \$13.30/LCY x 144.00 LCY = \$1,915.20 Processing: \$1.20/LCY x 144.00 LCY = \$172.80 Compaction: $1.38/LCY \times 144.00 LCY = 198.72$ Basic Rock Haul cost: \$0.81/LCY x 144.00 LCY = \$116.64 Rock Haul +15% grades: \$2.43/LCY-mi x 144.00 LCY x 2.00 mi= \$699.84 Rock Haul -15% grades: \$1.21/LCY-mi x 144.00 LCY x 2.00 mi= \$348.48 Rock Haul St& Co Roads: \$0.54/LCY-mi x 144.00 LCY x 6.00 mi= \$466.56 Basic Water Haul cost: \$0.79/LCY x 144.00 LCY = \$113.76 Water Haul +15% grades: \$0.34/LCY-mi x 144.00 LCY x 2.00 mi= \$97.92 Water Haul -15% grades: \$0.17/LCY-mi x 144.00 LCY x 2.00 mi= \$48.96 Water Haul St&Co Roads: \$0.10/LCY-mi x 144.00 LCY x 5.00 mi= \$72.00 Quarry Name: HERVEY 6-0" Commercial Comment: BASE ROCK #TOs Width F.W.L Taper Length TopW BotW Depth CWid Other 0.09mi 14ft 16ft 6in Rock Volume = 166.00 LCY Purchase Price / Royalty: \$11.45/LCY x 166.00 LCY = \$1,900.70 Processing: \$1.20/LCY x 166.00 LCY = \$199.20 Compaction: \$1.38/LCY x 166.00 LCY = \$229.08 Basic Rock Haul cost: \$0.81/LCY x 166.00 LCY = \$134.46 Rock Haul +15% grades: \$2.43/LCY-mi x 166.00 LCY x 2.00 mi= \$806.76 Rock Haul -15% grades: \$1.21/LCY-mi x 166.00 LCY x 2.00 mi= \$401.72 Rock Haul St& Co Roads: \$0.54/LCY-mi x 166.00 LCY x 6.00 mi= \$537.84 Basic Water Haul cost: \$0.79/LCY x 166.00 LCY = \$131.14 Water Haul +15% grades: \$0.34/LCY-mi x 166.00 LCY x 2.00 mi= \$112.88 Water Haul -15% grades: \$0.17/LCY-mi x 166.00 LCY x 2.00 mi= \$56.44 Water Haul St&Co Roads: \$0.10/LCY-mi x 166.00 LCY x 5.00 mi= \$83.00 Quarry Name: HERVEY 6-0" Commercial Comment: LANDING ROCK Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 50 LCY Rock Volume = 50.00 LCY Purchase Price / Royalty: \$11.45/LCY x 50.00 LCY = \$572.50 Processing: $$1.20/LCY \times 50.00 LCY = 60.00 Compaction: $$1.38/LCY \times 50.00 LCY = 69.00 Basic Rock Haul cost: \$0.81/LCY x 50.00 LCY = \$40.50 Rock Haul +15% grades: \$2.43/LCY-mi x 50.00 LCY x 2.00 mi= \$243.00 Rock Haul -15% grades: \$1.21/LCY-mi x 50.00 LCY x 2.00 mi= \$121.00 Rock Haul St& Co Roads: \$0.54/LCY-mi x 50.00 LCY x 6.00 mi= \$162.00 Basic Water Haul cost: \$0.79/LCY x 50.00 LCY = \$39.50

Road Number: SPUR 2 C Continued Water Haul +15% grades: \$0.34/LCY-mi x 50.00 LCY x 2.00 mi= \$34.00 Water Haul -15% grades: \$0.17/LCY-mi x 50.00 LCY x 2.00 mi= \$17.00 Water Haul St&Co Roads: \$0.10/LCY-mi x 50.00 LCY x 5.00 mi= \$25.00 Commercial Quarry Name: HERVEY RIP RAP Comment: ENERGY DISSIPATORS Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 2 LCY Rock Volume = 2.00 LCY Purchase Price / Royalty: \$16.30/LCY x 2.00 LCY = \$32.60 Processing: $$1.20/LCY \times 2.00 LCY = 2.40 Compaction: $$1.38/LCY \times 2.00 LCY = 2.76 Basic Rock Haul cost: $$0.81/LCY \times 2.00 LCY = 1.62 Rock Haul +15% grades: \$2.43/LCY-mi x 2.00 LCY x 2.00 mi= \$9.72 Rock Haul -15% grades: \$1.21/LCY-mi x 2.00 LCY x 2.00 mi= \$4.84 Rock Haul St& Co Roads: \$0.54/LCY-mi x 2.00 LCY x 6.00 mi= \$6.48 Basic Water Haul cost: $0.79/LCY \times 2.00 LCY = 1.58$ Water Haul +15% grades: \$0.34/LCY-mi x 2.00 LCY x 2.00 mi= \$1.36 Water Haul -15% grades: \$0.17/LCY-mi x 2.00 LCY x 2.00 mi= \$0.68 Water Haul St&Co Roads: \$0.10/LCY-mi x 2.00 LCY x 5.00 mi= \$1.00 Subtotal: \$10,292.64 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOILS Dry Method with Mulch: $\$809.34/acre \times 0.21 acres = \169.96 Includes Small Quantity Factor of 1.53 Subtotal: \$169.96 Mobilization: Construction - 17.18% of total Costs = \$884.18 Subtotal: \$884.18

Total: \$19,908.65

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele 27 Sale Date: 11/22/2024 Road Number: SPUR 3 C Road Name:	
Road Construction: 0.08 mi 16 ft Subgrade 2 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 40.00 lf	\$2,002.80
500 Renovation:	\$0.00
700-1200 Surfacing: Quarry Name: HERVEY 1.5-0" 75.00 LCY Quarry Name: HERVEY 3-0" 133.00 LCY Quarry Name: HERVEY 6-0" 253.00 LCY Quarry Name: HERVEY RIP RAP 2.00 LCY	\$13,269.46
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.19 acres Includes Small Quantity Factor of 1.53	\$214.57
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.00 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$950.30 Surf. \$0.00	\$950.30
Quarry Development:	\$0.00
Total:	\$21,397.40
Notes:	

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are loose cubic yards. Road Construction Worksheet Road Number: SPUR 3 C Road Name: Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 4.2 sta = \$143.55 Blading with ditch: \$18.27/station x 4.15 stations = \$75.82SUBGRADE CONSTRUCTION Tractor: D8 with rippers 15 hr x \$316.06/hr = \$4,740.90 Subtotal: \$4,960.27 Section 400 Drainage: Poly Pipe 18 inch 40 lf x 50.07/1f = 2,002.80Subtotal: \$2,002.80 Section 700-1200 Surfacing: Commercial Quarry Name: HERVEY 1.5-0" Comment: SPOT ROCK MP 0.0 TO 0.6 Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 75 LCY Rock Volume = 75.00 LCY Purchase Price / Royalty: \$14.15/LCY x 75.00 LCY = \$1,061.25 Processing: \$1.20/LCY x 75.00 LCY = \$90.00 Compaction: $1.38/LCY \times 75.00 LCY = 103.50$ Basic Rock Haul cost: \$0.81/LCY x 75.00 LCY = \$60.75 Rock Haul +15% grades: \$2.43/LCY-mi x 75.00 LCY x 2.00 mi= \$364.50 Rock Haul -15% grades: \$1.21/LCY-mi x 75.00 LCY x 2.00 mi= \$181.50 Rock Haul St& Co Roads: \$0.54/LCY-mi x 75.00 LCY x 6.00 mi= \$243.00 Basic Water Haul cost: \$0.79/LCY x 75.00 LCY = \$59.25 Water Haul +15% grades: \$0.34/LCY-mi x 75.00 LCY x 2.00 mi= \$51.00 Water Haul -15% grades: \$0.17/LCY-mi x 75.00 LCY x 2.00 mi= \$25.50 Water Haul St&Co Roads: \$0.10/LCY-mi x 75.00 LCY x 5.00 mi= \$37.50 Quarry Name: HERVEY 3-0" Commercial Comment: SURFACE ROCK #TOs Width F.W.L Taper Length TopW BotW Depth CWid Other 0.08mi 12ft 14ft 6in Rock Volume = 133.00 LCY Purchase Price / Royalty: \$13.30/LCY x 133.00 LCY = \$1,768.90 Processing: \$1.20/LCY x 133.00 LCY = \$159.60 Compaction: \$1.38/LCY x 133.00 LCY = \$183.54 Basic Rock Haul cost: \$0.81/LCY x 133.00 LCY = \$107.73 Rock Haul +15% grades: \$2.43/LCY-mi x 133.00 LCY x 2.00 mi= \$646.38 Rock Haul -15% grades: \$1.21/LCY-mi x 133.00 LCY x 2.00 mi= \$321.86 Rock Haul St& Co Roads: \$0.54/LCY-mi x 133.00 LCY x 6.00 mi= \$430.92 Basic Water Haul cost: \$0.79/LCY x 133.00 LCY = \$105.07 Water Haul +15% grades: \$0.34/LCY-mi x 133.00 LCY x 2.00 mi= \$90.44 Water Haul -15% grades: \$0.17/LCY-mi x 133.00 LCY x 2.00 mi= \$45.22 Water Haul St&Co Roads: \$0.10/LCY-mi x 133.00 LCY x 5.00 mi= \$66.50 Quarry Name: HERVEY 6-0" Commercial Comment: BASE ROCK Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.08mi 14ft 16ft 6in Rock Volume = 153.00 LCY Purchase Price / Royalty: \$11.45/LCY x 153.00 LCY = \$1,751.85 Processing: $$1.20/LCY \times 153.00 LCY = 183.60 Compaction: \$1.38/LCY x 153.00 LCY = \$211.14 Basic Rock Haul cost: \$0.81/LCY x 153.00 LCY = \$123.93 Rock Haul +15% grades: \$2.43/LCY-mi x 153.00 LCY x 2.00 mi= \$743.58 Rock Haul -15% grades: \$1.21/LCY-mi x 153.00 LCY x 2.00 mi= \$370.26 Rock Haul St& Co Roads: \$0.54/LCY-mi x 153.00 LCY x 6.00 mi= \$495.72 Basic Water Haul cost: \$0.79/LCY x 153.00 LCY = \$120.87

Water Haul +15% grades: \$0.34/LCY-mi x 153.00 LCY x 2.00 mi= \$104.04 Water Haul -15% grades: \$0.17/LCY-mi x 153.00 LCY x 2.00 mi= \$52.02 Water Haul St&Co Roads: \$0.10/LCY-mi x 153.00 LCY x 5.00 mi= \$76.50 Commercial Quarry Name: HERVEY 6-0" Comment: LANDING ROCK Other Length TopW BotW Depth CWid #TOs Width F.W.L Taper 100 LCY Rock Volume = 100.00 LCY Purchase Price / Royalty: \$11.45/LCY x 100.00 LCY = \$1,145.00 Processing: \$1.20/LCY x 100.00 LCY = \$120.00 Compaction: \$1.38/LCY x 100.00 LCY = \$138.00 Basic Rock Haul cost: \$0.81/LCY x 100.00 LCY = \$81.00 Rock Haul +15% grades: \$2.43/LCY-mi x 100.00 LCY x 2.00 mi= \$486.00 Rock Haul -15% grades: \$1.21/LCY-mi x 100.00 LCY x 2.00 mi= \$242.00 Rock Haul St& Co Roads: \$0.54/LCY-mi x 100.00 LCY x 6.00 mi= \$324.00 Basic Water Haul cost: \$0.79/LCY x 100.00 LCY = \$79.00 Water Haul +15% grades: \$0.34/LCY-mi x 100.00 LCY x 2.00 mi= \$68.00 Water Haul -15% grades: \$0.17/LCY-mi x 100.00 LCY x 2.00 mi= \$34.00 Water Haul St&Co Roads: \$0.10/LCY-mi x 100.00 LCY x 5.00 mi= \$50.00 Quarry Name: HERVEY RIP RAP Commercial Comment: ENERGY DISSIPATORS Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 2 LCY Rock Volume = 2.00 LCY Purchase Price / Royalty: \$16.30/LCY x 2.00 LCY = \$32.60 Processing: $$1.20/LCY \times 2.00 LCY = 2.40 Compaction: $$1.38/LCY \times 2.00 LCY = 2.76 Basic Rock Haul cost: \$0.81/LCY x 2.00 LCY = \$1.62 Rock Haul +15% grades: \$2.43/LCY-mi x 2.00 LCY x 2.00 mi= \$9.72 Rock Haul -15% grades: \$1.21/LCY-mi x 2.00 LCY x 2.00 mi= \$4.84 Rock Haul St& Co Roads: \$0.54/LCY-mi x 2.00 LCY x 6.00 mi= \$6.48 Basic Water Haul cost: $0.79/LCY \times 2.00 LCY = 1.58$ Water Haul +15% grades: \$0.34/LCY-mi x 2.00 LCY x 2.00 mi= \$1.36 Water Haul -15% grades: \$0.17/LCY-mi x 2.00 LCY x 2.00 mi= \$0.68 Water Haul St&Co Roads: \$0.10/LCY-mi x 2.00 LCY x 5.00 mi= \$1.00 Subtotal: \$13,269.46 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOILS Dry Method with Mulch: $\$09.34/acre \times 0.19 acres = \153.77 Includes Small Quantity Factor of 1.53 + Mulch Cost: \$320.00/acre x 0.19 acres = \$60.80 Subtotal: \$214.57 Mobilization: Construction - 18.47% of total Costs = \$950.30Subtotal: \$950.30 Total: \$21,397.40

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Steele 27 Sale Date: 11/22/2024

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Fire Equipment: 1 ea x (1.00 x \$91.00/ea + 0 mi x \$5.06/mi) = \$91.00
Graders-all: 1 ea x (1.00 x \$536.00/ea + 0 mi x \$18.44/mi) = \$536.00
Rollers & Comp: 1 ea x (1.00 x \$536.00/ea + 0 mi x \$27.67/mi) = \$536.00
Excavators (Lg): 1 ea x (1.00 x \$1176.00/ea + 0 mi x \$33.32/mi) = \$1,176.00
Tractors >= D8: 1 ea x (1.00 x \$1176.00/ea + 0 mi x \$63.21/mi) = \$1,176.00
Water Truck: 1 ea x (1.00 x \$131.00/ea + 0 mi x \$5.47/mi) = \$131.00
Equipment Washing: 6 ea x (\$250.00) /ea = \$1,500.00

Subtotal: \$5,146.00

Mobilization: Surfacing

Subtotal: \$0.00

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name	: Steele 27 Sa	le Date: 11/22	2/2024	
Road Number 27-12-28.0 R 27-12-28.1 R	Const Impr	ov Renov 40.66 47.52	Decomm	Temp
SPUR 1 C	16.55			
SPUR 2 C	4.5			
SPUR 3 C	4.15			
Total Sta:	25.20	88.18		
200 Clearing and G	rubbing*	Clearing		
		acres		
27-12-28.0 R		0.0		
27-12-28.1 R SPUR 1 C		0.0		
SPUR 1 C SPUR 2 C		0.0		
SPUR 3 C		0.0		
STOR 5 0				
	Totals			
*Costs for Clearin	ng and Grubbing	included in E	Excavation.	
300 Excavation		Excav	Haul	Haul
		LCY.s	sta-yds	yd-mi
	Totals	: 0	0	0
SUBGRADE CONSTRU	CTION SPUR 3	С		
Tractor: D8	with rippers .			
SUBGRADE CONSTRU				
	with rippers .			
SUBGRADE CONSTRU				
Tractor: D8	with rippers .			
400 Drainage				
-				
Road Number	CMP Culvert 0 lf	Polypipes 120 lf	Downspouts 0 lf	3
SPUR 1 C SPUR 2 C	0 11 0 1f	40 lf	0 11 0 1f	
SPUR 2 C SPUR 3 C	0 11 0 1f	40 lf	0 11 0 1f	
STOR 5 C	0 11	40 11	0 11	
Total Drainage:		200 lf		
Culvert Qty	Aluminized	Galvanized	Poly Pipe	
12 inch	0 lf	0 lf		
18 inch	0 lf	0 lf	200 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		
				\

15 hr

20 hr

35 hr

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

Continuation of Construction Quantities

24 in	ch 0	lf	0 lf	0	lf
30 in	ch			0	lf

500 Renovation		Blade Miles	Slide cy
27-12-28.0 R		0.77	0
27-12-28.1 R		1.01	0
	Totals:	1.78	0

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.

1.5-0" Totals:	Roadway 0 0 0	Turnouts 0 0 0	Other 200 75 75 350	200 75 75 350
	Roadway 530 144 133 807	Turnouts 0 0 0	Other 0 0 0	530 144 133
	Roadway 611 166 153 0 0 0	Turnouts 0 0 0 0 0 0 0 0 0	Other 0 0 100 150 50 100	611 166 153 100 150 50 100
Totals:	930	0	400	1,330
	Roadway 0 0 0	Turnouts 0 0 0	Other 6 2 2	6 2 2
	3-0" Totals: 6-0"	Roadway 0 0 0 3-0" Roadway 530 144 133 Totals: 807 6-0" Roadway 611 166 153 0 0 0 0 Totals: 930 RIP RAP Roadway 0 0	Roadway Turnouts 0 0 0 0 0 0 3-0" Roadway Turnouts 530 530 0 144 0 133 0 Totals: 807 0 6-0" Roadway Turnouts 611 0 166 0 0 0 153 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Roadway Turnouts Other 0 0 200 0 0 75 0 0 75 0 0 350 3-0" Roadway Turnouts Other 530 0 0 0 144 0 0 0 133 0 0 0 6-0" Roadway Turnouts Other 610 0 0 0 6-0" Roadway Turnouts Other 611 0 0 0 612 0 0 0 166 0 0 0 153 0 0 0 0 0 100 100 0 0 0 100 0 0 0 100 0 0 0 400 RIP RAP Roadway Turnouts Other

1300 Geotextiles

1400 Slope Protection

Totals:	

0 cy

<u>_</u>

1800 Soil	stabilization -	- acres	Dry W/O	Dry/with	Hydro
			Mulch	Mulch	Mulch
SPUR 1	С		0.0	0.0	0.0
SPUR 2	С		0.0	0.0	0.0
SPUR 3	С		0.0	0.0	0.0
		Totals:	0.00	1.17	0.00
		Small Quar	ntity Facto	or of 1.53	used

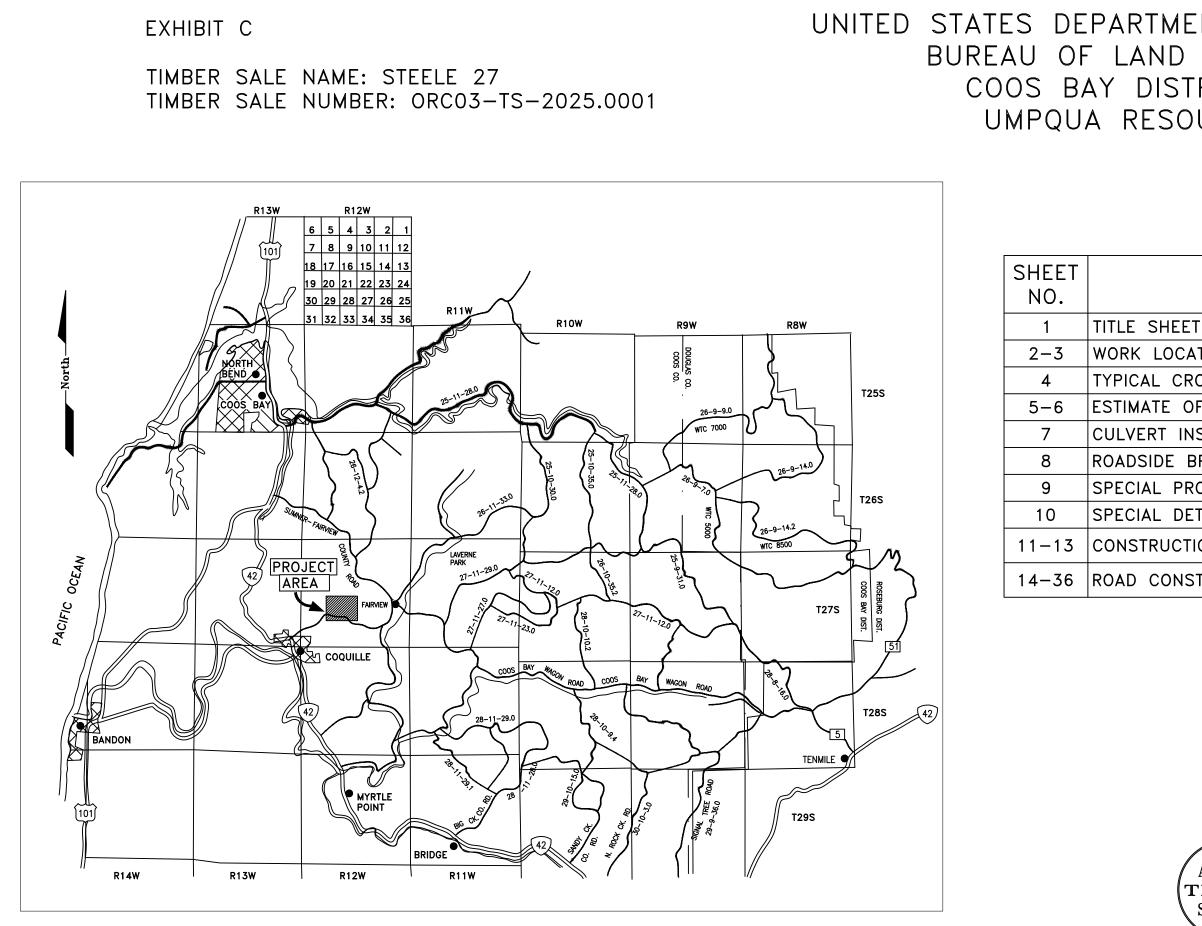
1900 Cattleguards

	rushing - Mechanical Brushin - Mechanical Brushin	2
	Totals:	4.05
2300 Engineerin	d	stations
	Totals:	0.00

2400 Minor Concrete

2500 Gabions

8000 Miscellaneous



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OFFICE UMPQUA RESOURCE AREA

CONTENTS

WORK LOCATION MAPS

TYPICAL CROSS SECTION DETAILS

ESTIMATE OF QUANTITIES

CULVERT INSTALLATION DETAILS

ROADSIDE BRUSHING DETAILS

SPECIAL PROVISIONS

SPECIAL DETAILS

11–13 CONSTRUCTION DETAIL SHEETS

14-36 ROAD CONSTRUCTION SPECIFICATIONS

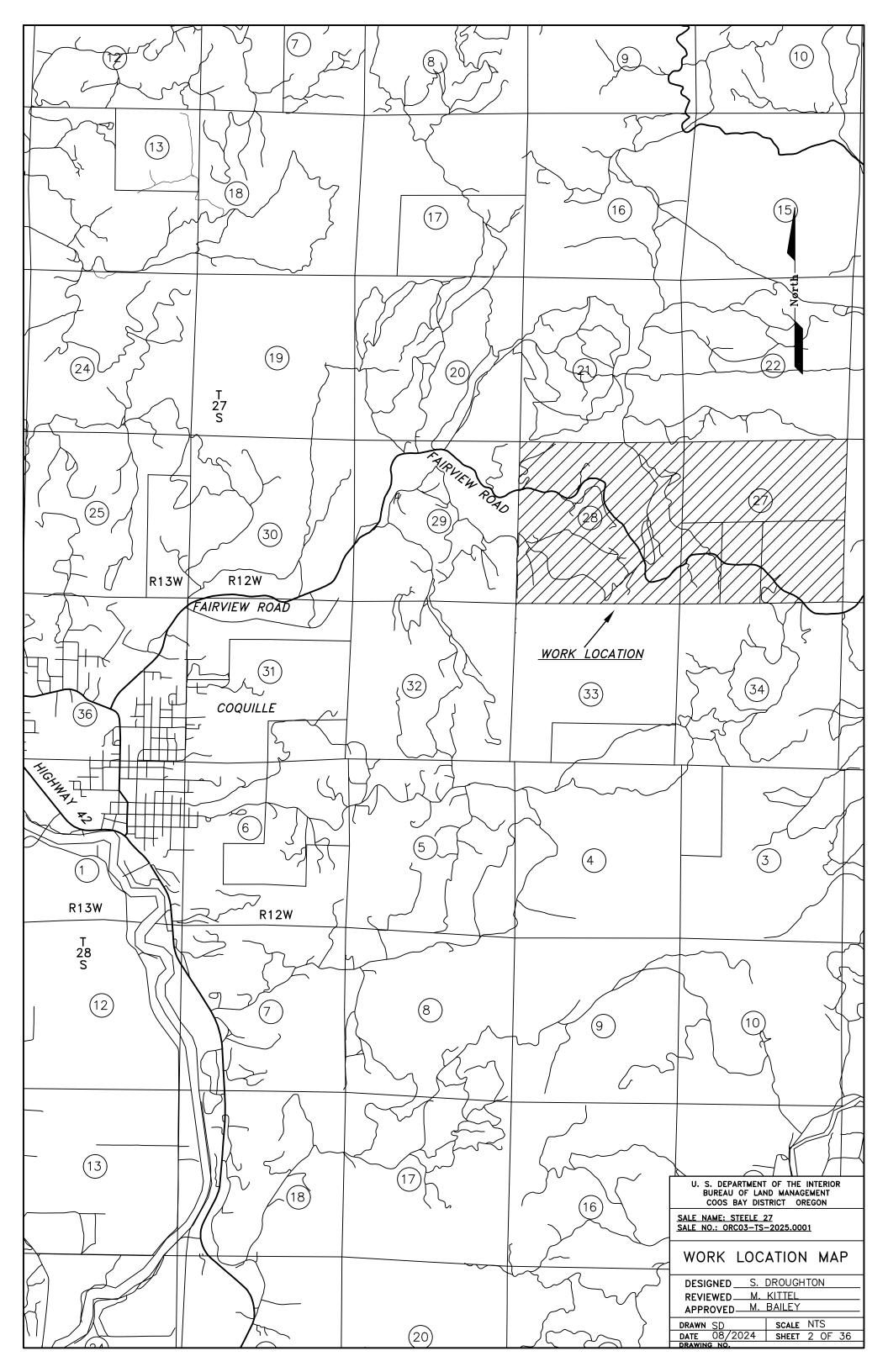


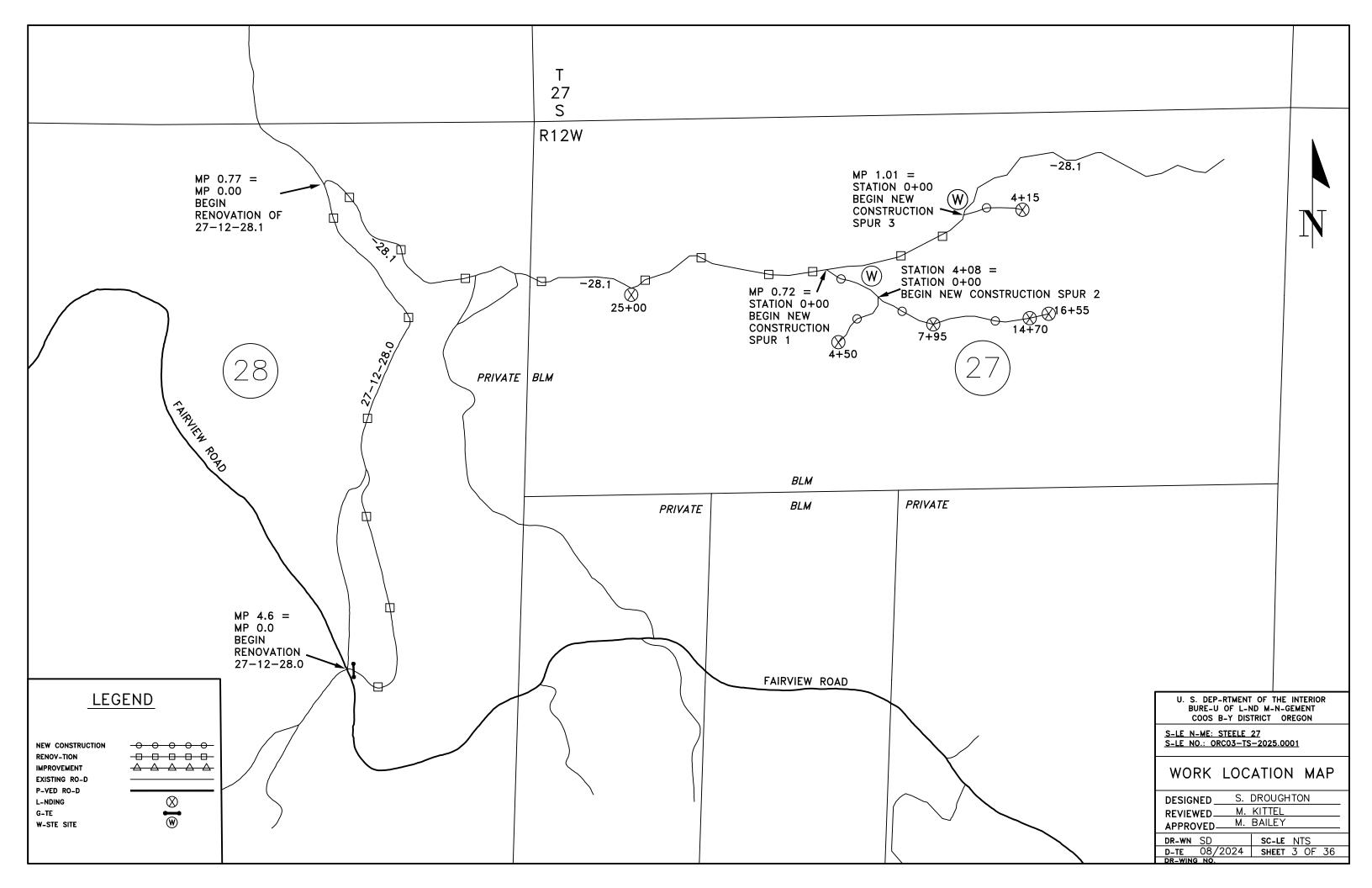
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

SALE NAME: STEELE 27 SALE NO.: ORC03-TS-2025.0001

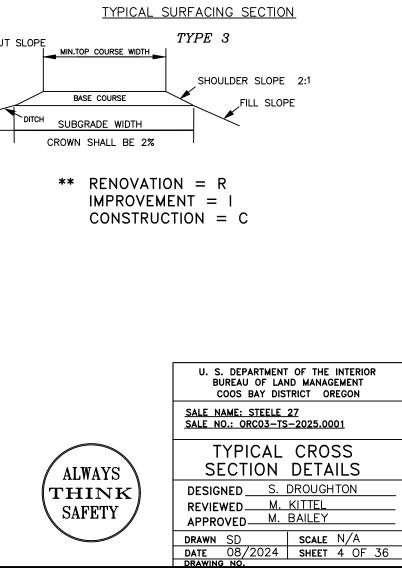
TITLE SHEET

DESIGNED S. DROUGHTON
REVIEWED M. KITTEL
APPROVED M. BAILEY
DRAWN SD SCALE NTS
DATE 08/2024 SHEET 1 OF 36
DRAWING NO





					ROAD W	/IDTH ¹	CLEA	RING	BRUS	SHING				S	URFACING				
	FROM	то	LENGTH	TYPICAL				OND		TING		BASE C	DURSE			SURFACE	COURSE		
ROAD NUMBER **		MILEPOST /STATION	MILES/ STATIONS	SECTION	SUBGRADE	DITCH	TOP CUT	TOE FILL	L	R	Min Top Width	Comp. Depth	Type ²	Grading	Min To Width		Type ²	Grading	REMARKS
27-12-28.0 R	0.00	0.77	0.77	4	16'	2'			10'	10'					SP	DT ROCK	С	1.5-0"	CROWNED 2% W/DITCH
27-12-28.1 R	0.00	1.01	1.01	4	16'	2'			10'	10'									CROWNED 2% W/DITCH
SPUR 1 C	0.00	0.31	0.31	4	16'	2'	10'	5'			14'	6"	D	6-0"	1 2 '	6"	A	3-0"	CROWNED 2% W/DITC
SPUR 2 C	0.00	0.09	0.09	4	16'	2'	10'	5'			14'	6"	D	6-0"	12'	6"	A	3-0"	CROWNED 2% W/DITC
SPUR 3 C	0.00	0.08	0.08	4	16'	2'	10'	5'			14'	6"	D	6-0"	12'	6"	А	3-0"	CROWNED 2% W/DITC
ADD TO OF 1-6 WIDEN AS FOL WHEN 1 1 1 9 6 OR AS <u>MATERIALS</u>	FT. AND 2 F THE INSIDE SH LOWS: HE RADIUS OF 70-800 ADD 65-270 ADD 2 20-165 ADD 2 0-120 ADD 4 0-90 ADD 5 SHOWN ON PL <u>CUT SLOPI</u>	HOULDER 1 FT. T. FOR FILLS (OULDER OF AL CURVE EQUA T FT. 2 FT. 3 FT. FT. ANS E <u>FILL SLOF</u>	OVER 6 FT. LL CURVES LS 2E		6"	WITH DIT OR OUTSLOPE/	ide width TCH /INSLOPE (FI	YPE 1 LL SLOPE	s		OUTSLOPE/IN	WIDTH RSE DE WIDTH SLOPE @ 27	TYPE SHOULDER S	¥	DITCH SU	<u>TYPIC</u> . <u>top course wid</u> base course <u>BGRADE WIDTH</u> N SHALL BE	TYPE	ING SECTION 3 DULDER SLOPE 2:1 FILL SLOPE
SIDE SL 2. <u>Surfacing</u> A. Pit Run B. Grid Ro	1/4:1 ENCH CONSTRU OPES EXCEEDI	IAL. ATERIAL. ERIAL.	1	6"			YPE 4 COURSE WIDTH COURSE WIDTH		HOULDER	SLOPE 2 L SLOPE	CUT	YPICAL SUR TYF SLOPE MIN.TOP COURSE MIN.BASE COURS SURFACE BASE C SUBGRADI		SHOULDE	TR SLOPE 2:1 ,FILL SLOPE	**	IMPRO\	ATION = /EMENT = RUCTION	=
D. CRUSHE	'C' ASPHALT N					CROWN S	HALL BE 2	2%			I	OUTSLOPE/INS	LOPE @ 2%						



	ΟN	z	⊢ –				U Z		E4	ARTH WOR	K DESIGN	ED		CPF	*1		CMF	> *2		D	OWNSPOTS	*3	
ROAD NUMBER **	NEW CONSTRUCTH	RENOVATIO	IMPROVEMEN	SLASH TREATMENI	GRUBBING	ROADSIDE BRUSHING	SLOPE STAKI	соммон	RIPPABLE ROCK	ROCK CUT	FILL	SHORT HAUL 200– 500'	LONG HAUL 500'+	18"	24"	12"	18"	24"	142"×91 "	18" CPP 24" CPI (SW) (SW)	FULL ROUN P 18" CMP (SW)		MARKERS
SECTION NO.	300	500	500	200	200	2100	2300			31	00								4	00			
UNITS		MILEPOST		AC	RES	ACRES	SIDES	C	CUBIC YARD	S	YARDS	STA.YD.	YD.MI.					l	_INEAR FEI	ET			EA.
27-12-28.0 R		0.77				1.87																	
27-12-28.1 R		1.01				2.18																	
SPUR 1 C	0.31			1.20	0.60									120									
SPUR 2 C	0.09			0.35	0.17									40									
SPUR 3 C	0.08			0.31	0.16									40									
Total	0.48	1.78	0.00	1.86	0.93	4.05		Ī						200									

*1 CPP - CORRUGATED POLYETHYLENE PIPE

*2 CMP - CORRUGATED METAL PIPE

*3 SEE CULVERT INSTALLATION SHEET

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

	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON						
	<u>SALE NAME: STEELE 27</u> SALE NO.: ORCO3-TS-2025.0001						
ALWAYS	ESTIMATE OF QUANTITIES						
THINK SAFETY	DESIGNED S. DROUGHTON REVIEWED M. KITTEL APPROVED M. BAILEY						
	DRAWN SD SCALE N/A						
	DATE 08/2024 SHEET 5 OF 36						
	DRAWING NO.						

			SURFACIN	G			OTHER		SEE	OTHER (SEDIMENT CONTROL	
ROAD NUMBER	(3–0") Surface	(6") OPEN		(1.5-0")		N/A	RIPRAP	GEO —	SEED, FERTILIZE, AND MULCH		
	ROCK	GRADE ROCK	BASE ROCK	SURFACE ROCK				TEXTILE	DRY	HYDRO	DEVICES)
SECTION NO.		1000		1 2	200	N/A	1400	1300	18	300	N/A
UNITS	С	UBIC YARE)S		CUBIC	C YARDS	YARDS S.Y. ACF			RES	EACH
GRADE	А	В	D		С	N/A	А		N	I/A	
27-12-28.0 R				200							
27-12-28.1 R			100								
SPUR 1 C	530		761	75			6		0.77		
SPUR 2 C	144		216				2		0.21		
SPUR 3 C	133		253	75			2		0.19		
TOTAL	807		1330	350			10		1.17		

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

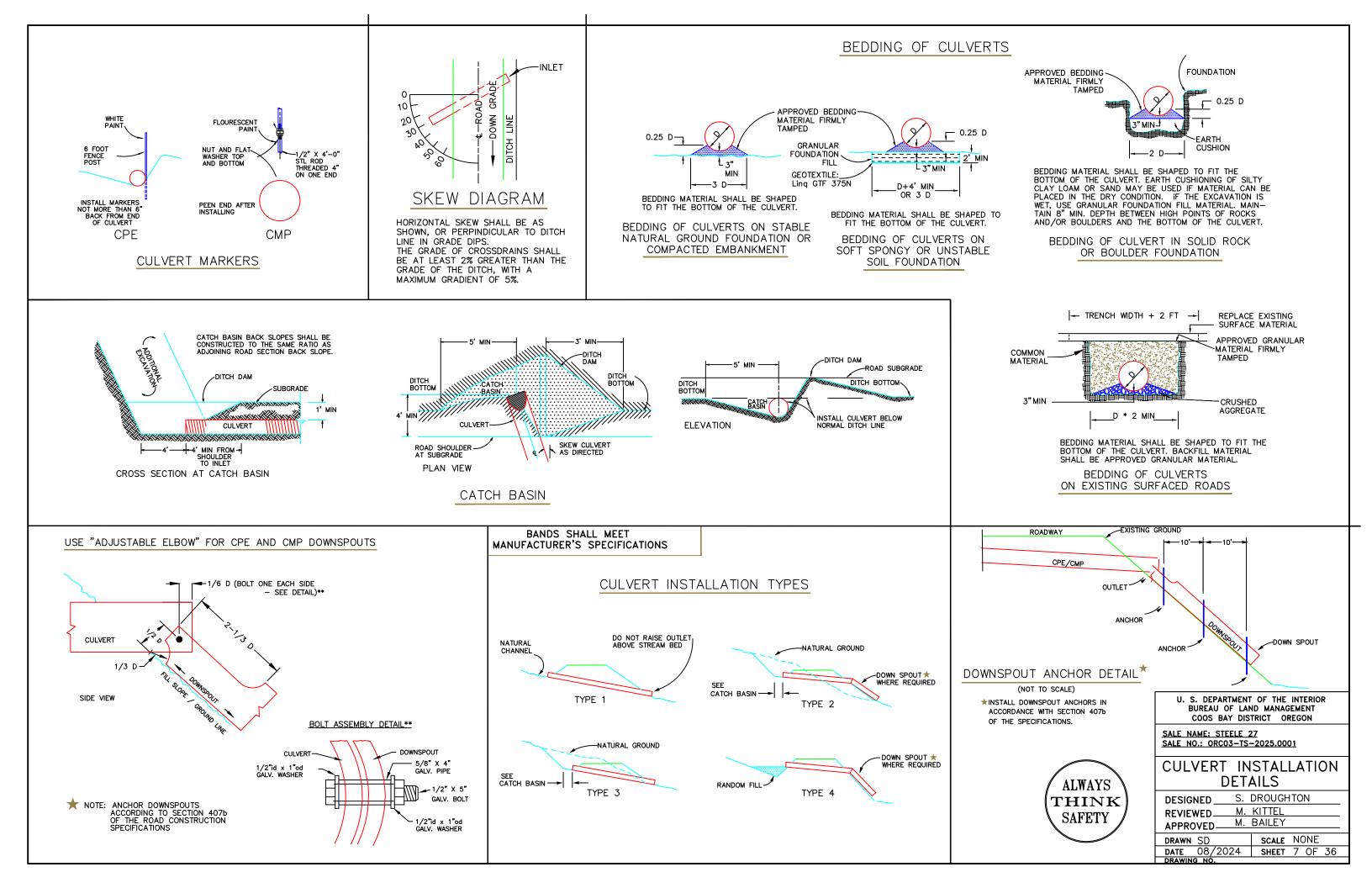
ALL ROCK QUANTITIES ARE TRUCK (LOOSE) MEASUREMENT QUANTITIES.

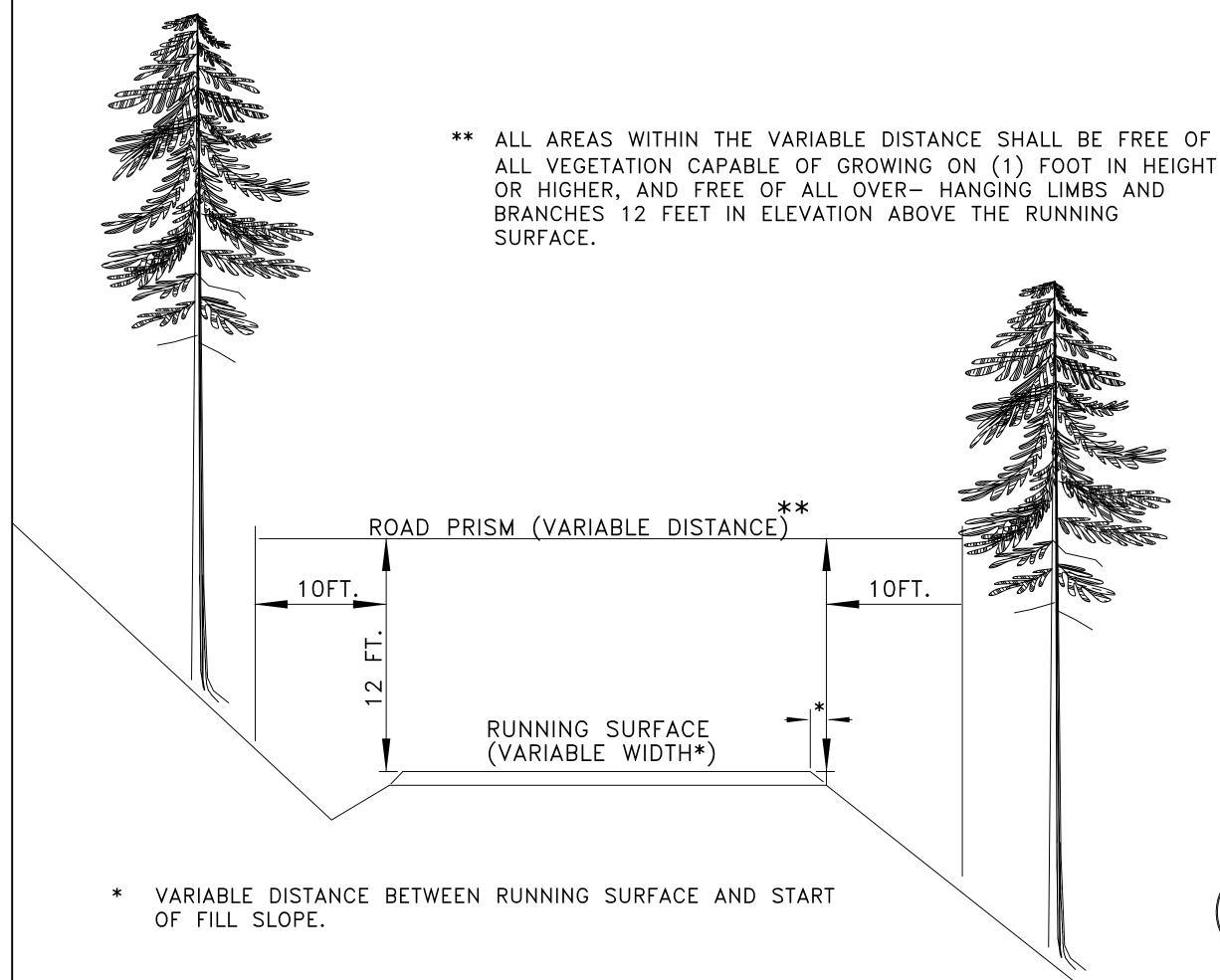
** 6" OPEN GRADED CRUSHED AGGREGATE. N-W = NON-WOOVEN (MIRAFIN 1120N) W = WOOVEN (POPEX 200ST)

*** RENOVATION = RIMPROVEMENT = ICONSTRUCTION = C

SECTION	GRADE	SIZE
400	С	1 1/2"
700	В	PITRUN
	А	3"
1000	В	3" OPEN GRADE
1000	С	2"
	D	6"
1100	В	4"
1200	С	1.5"
1200	D	1 "
1 400	А	10"-34"
CHIP SEAL ROCK	S	3/4"

	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON
	SALE NAME: STEELE 27 SALE NO.: ORCO3-TS-2025.0001
ALWAYS	ESTIMATE OF QUANTITIES
THINK SAFETY	DESIGNED S. DROUGHTON REVIEWED M. KITTEL APPROVED M. BAILEY
	DRAWN SD SCALE N/A
	DATE 08/2024 SHEET 6 OF 36
	DRAWING NO.





	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON								
	SALE NAME: STEELE 27 SALE NO.: ORCO3-TS-2025.0001								
ALWAYS	ROADSIDE BRUSHING DETAILS								
(THINK SAFETY	DESIGNED S. DROUGHTON REVIEWED M. KITTEL APPROVED M. BAILEY								
	DRAWN SD SCALE N/A								
	DATE 08/2024 SHEET 8 OF 36								

ROAD MAINTENANCE APPRAISAL

SALE NO.	SALE NAME:
ORC03-TS-2025.0001	STEELE 27

ROAD	NUMBERS	MILES

27-12-28.0 R	0.77
27-12-28.1 R	1.01
SPUR 1 C	0.31
SPUR 2 C	0.09
SPUR 3 C	0.08

TOTAL 2.3 MILES

-SUMMARY-

1	MOVE IN:	\$1,603.00
2	CULVERTS, SLOUGH, SLUMPS, & MISC	\$1,859.78
3	GRADING FOR TIMBER HAUL	\$1,953.25
4	MAINTENANCE ROCK	\$15,815.00
5	OTHER MAINTENANCE	\$0.00

TOTAL MAINTENANCE: \$21,231.03

ROAD MAINTENANCE APPRAISAL

SALE NO. ORCO3-TS-2025.	0001		SALE NAME: STEELE 27		
		-APPRAISAL	WORKSHEET-		
1	MOVE-IN: EQUIPMENT		MOVE-INS	COST/MOVE	
	DUMP TRUCK COMPACTOR GRADER BACKHOE W/ FE LOADER	२	1 1 1 1	\$536.00 \$536.00	\$132.00 \$536.00 \$536.00 \$399.00 \$1,603.00
2	CULVERT MAINT., SLOUGI MAINT. OBLIGATION		AVE. COS	TC.	
3	2.3 GRADING FOR TIMBER HA		\$808.60	/ MILE =	\$1,859.78
	2.3	MILES @	TOTAL MILES \$849.24	2.3 / MILE =	\$1,953.25
4	MAINTENANCE ROCK: SIZE	1.5-0"	APPR FROM	MILES	
ROYALTY	200	CU. YDS. @	\$14.15		\$2,830.00
PROCESSING	200		\$1.20		\$240.00
COMPACTION	200	CU. YDS. @	\$1.38		\$276.00
BASIC HAUL	200	CU. YDS. @	\$0.81		\$162.00
SLOW HAUL	200	CU. YDS. @	\$2.43	2	\$972.00
MED. HAUL	200	CU. YDS. @	\$1.21	2	\$484.00
FAST HAUL	200	CU. YDS. @	\$0.54	6	\$648.00
BASIC WATER	200	CU. YDS. @	\$0.79		\$158.00
SLOW WATER	200	CU. YDS. @	\$0.34	2	\$136.00
MED. WATER	200	CU. YDS. @	\$0.17	2	\$68.00
FAST WATER	200	CU. YDS. @	\$0.10	5	\$100.00
				TOTAL =	\$6,074.00
	SIZE	3.0-0"	APPR FROM	MILES	
ROYALTY	300	CU. YDS. @	\$16.25		\$4,875.00
PROCESSING	300	CU. YDS. @	\$1.20		\$360.00
COMPACTION	300		\$1.38		\$414.00
BASIC HAUL	300		\$0.81		\$243.00
SLOW HAUL	300	CU. YDS. @	\$2.43	2	\$1,458.00
MED. HAUL	300		\$1.21	2	\$726.00
FAST HAUL	300		\$0.54	6	\$972.00
BASIC WATER	300		\$0.79		\$237.00
SLOW WATER	300		\$0.34	2	\$204.00
MED. WATER	300		\$0.17		\$102.00
FAST WATER	300		\$0.10		\$150.00
			·	TOTAL =	\$9,741.00

SALE NO. ORC03-TS-2025.0001 STEELE 27 EXHIBIT D SHEET 4 OF 7 SHEETS

ROAD MAINTENANCE SPECIFICATIONS

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

Section

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

SALE NO. ORC03-TS-2025.0001 STEELE 27 EXHIBIT D SHEET 5 OF 7 SHEETS

GENERAL - 3000

3001 The Purchaser shall be required to maintain all roads as shown on the Exhibit D map of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this Exhibit. 3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the standards required in Exhibit C of this contract. 3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105. 3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily. **OPERATIONAL MAINTENANCE - 3100** 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor patrol grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer. 3102 The Purchaser shall place **500 cubic yards** of crushed aggregate, conforming to the requirements in Section 1200 of Exhibit C of this contract, on the roadway at locations and in the amounts designated by the Authorized Officer. This crushed aggregate shall be used to repair surface failures, and areas of depleted surface depth, excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, spread, and compacted by use of dump trucks, water trucks, roller, and motor patrol grader. 3103 The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer. 3104 The Purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor patrol grader, rubber-tired front-end bucket loader, rubber-tired backhoe or comparable equipment, and by the use of hand tools. 3104a Removal of bank slough and slide material includes placement of material at the nearest suitable turnout or disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion. 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen (15) station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to removal of any slough or slide material exceeding fifteen (15) station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement. Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of work, based on current BLM Timber Appraisal Production Cost Schedules. Adjustments in purchase price for completed work shall be made as necessary as and no less than

once per year when actual work is ongoing.

SALE NO. ORC03-TS-2025.0001 STEELE 27 EXHIBIT D SHEET 6 OF 7 SHEETS

- 3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe and maintaining water dips and water bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- 3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen (15) station yards in quantity, at any one site. The work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen (15) station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source, and method of repair. Work may commence immediately after agreement.

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

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

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

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

SEASONAL MAINTENANCE - 3200

- 3201 The Purchaser shall perform preventive maintenance at the end of Purchaser's hauling each season and during no haul periods which occur between other operations on the contract area. This includes cross ditching, blockage, removing ruts or other surface irregularities, and all other requirements specified in Section 3100.
- 3202 The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the preceding operating seasons.
- 3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any road(s) located in an area separate from the area where logging activities will resume.
- 3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

SALE NO. ORC03-TS-2025.0001 STEELE 27 EXHIBIT D SHEET 7 OF 7 SHEETS

FINAL MAINTENANCE 3300

The Purchaser shall complete final maintenance and/or damage repairs on all roads used under 3301 terms of their contract within 30 calendar days following the expiration of Purchaser's right to cut and remove timber (Sec. 4) and in accordance with Sec.16 (b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section. The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Section 16(b), Special Provisions Sections 3000, 3100, 3200, and 3300 of the maintenance specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser. 3302 The Purchaser shall perform final road maintenance only when weather or soil moisture conditions are suitable for normal maintenance equipment operations as determined by the Authorized Officer. If final maintenance is delayed after the date required in Subsection 3301 of this contract by adverse soil moisture or unsuitable equipment operating conditions, the Purchaser will be notified by the Authorized Officer when soil moisture and equipment operating conditions are suitable. The Purchaser shall then be required to complete final maintenance within 30 days. **OTHER MAINTENANCE - 3400** 3401 The Purchaser shall repair any damage to road surfaces that was specified under Subsections 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104. 3402 The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

A. ROAD USE FEES - Payable to Private Company:

COMPANY NAME:	AGREEMENT NUMBER:	ROAD NUMBER	NET MBF	USE FEE per MBF	TOTAL FEES:
Leatherman Land & Timber Co	RE-C-674	27-12-28.1	5617	\$0.00	\$0.00
Leatherman Land & Timber Co	RE-C-674	27-12-28.0	5617	\$0.00	\$0.00
			TOTAL USE FEE	:	\$0.00

B. MAINTENANCE FEES:

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

a. Timber Haul:

Surface		NET	ROAD	SURFACE REPLACEMENT	N	REGULAR IAINTENANCE	1	TOTAL
Type	ROAD NUMBER:	MBF	MILES:	/MBF/Mile	Subtotal	/MBF/Mile	Subtotal	FEE:
					\$0.00		\$0.00	\$0.00
					\$0.00		\$0.00	\$0.00
			0		\$0.00		\$0.00	\$0.00

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

	a. Timber Haul:			SURFACE	
Surface		NET	ROAD	REPLACEMENT	ROCKWEAR
Туре	ROAD NUMBER:	MBF	MILES:	/MBF/Mile	Subtotal
	-				
ASC	Spur 3	925	0.1	\$0.85	\$62.90
ASC	27-12-28.1	1603	0.3	\$0.85	\$408.77
ASC	Spur 2	1048	0.1	\$0.85	\$89.08
ASC	Spur 2	2157	0.1	\$0.85	\$183.35
ASC	Spur 1	308	0.1	\$0.85	\$26.18
ASC	Spur 1	2465	0.1	\$0.85	\$209.53
ASC	27-12-28.1	4068	0.3	\$0.85	\$864.45
ASC	27-12-28.1	5617	0.2	\$0.85	\$954.89
					\$0.00
			1.23		\$2,799.15

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

						MAINTENANCE AND/	OR
Surface		AGREEMENT	ROAD	NET	ROAD	ROCKWEAR FEE	
Туре	COMPANY NAME:	NUMBER:	NUMBER	MBF	MILES:	/MBF/MILE	TOTALS:
							\$0.00
							\$0.00

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX. 2.3 MILES OF ROAD. (SEE EXHIBIT D)

0

SALE VOLUME: 5617	MBF.		ROCKV	VEAR	MAINTE	NANCE
	RO	AD USE FEES:	FEI	ES	FEI	ES
SUMMARY OF ROAD USE & ROAD MAINTENANCE FEE	TOTAL:	\$/MBF	TOTAL:	\$/MBF	TOTAL:	\$/MBF:
1. COMPANY-OWNED ROADS:	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
2. BLM-MAINTAINED ROADS:			\$0.00	\$0.00	\$0.00	\$0.00
3. OPERATOR-MAINTAINED ROADS:			\$2,799.15	\$0.50		\$0.00
	\$0.00	\$0.00	\$2,799.15	\$0.50	\$0.00	\$0.00

MAINTENANCE OBLIGATION PAYABLE TO BLM \$2,799.15 0.4983354

\$0.00



United States Department of the Interior Bureau of Land Management

Timber Appraisal

Sale Name:Steele 27BLM District:Coos Bay DOContract #:ORC03-TS-2025.0001Sale Type:Advertised

Sale Date:Friday, December 20, 2024Unit of Measure:16' MBFContract Term:36 monthsContract Mechanism:5450-003Lump Sum Sale of Timber and other Wood Products

Content

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

Prepared By: Murphy, Luke C - 10/15/2024 Approved By: Kirkland, Travis S - 10/30/2024

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
CBWR	Coos	T27S	R12W	27	NW1/4NE1/4, S1/2NE1/4, NW1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	5,460.0	5,666.0	5,723.0	40,241	1,846	8,518
Grandfir	107.0	110.0	115.0	552	62	96
Western Redcedar	21.0	22.0	23.0	371	19	149
Western Hemlock	21.0	23.0	23.0	231	16	67
Red Alder	8.0	8.0	9.0	183	49	92
Totals	5,617.0	5,829.0	5,893.0	41,578	1,992	8,922

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
88.0	0.0	2.0	90.0	62.4

Logging Costs

Stump to Truck	\$989,306.58
Transportation	\$354,066.02
Road Construction	\$115,870.29
Maintenance/Rockwear	\$24,030.18
Road Use	\$0.00
Other Allowances	\$84,139.01
Total:	\$1,567,412.08
Total Logging Cost per MBF:	\$279.05

Utilization Centers

Location	Distance	% of Net Volume
Coquille	8.8 miles	88%
Roseburg	69.1 miles	12%

Profit & Risk

Risk	2%
Total Profit & Risk	13%

Tract Features

Quadratic Mean DBH	21.5 in
Average GM Log	138 bf
Average Volume per Acre	62.4 mbf
Recovery	95%
<u>Net MBF volume:</u>	
Green	5,617.0 mbf
Salvage	0 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	14%
Average Yarding Slope	0%
Average Yarding Distance	0 ft
Cable Logging:	
Percent of Sale Volume	86%
Average Yarding Slope	0%
Average Yarding Distance	400 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	0%
Average Yarding Slope	0%
Average Yarding Distance	0 ft

Cruise

Cruise Completed	August 2024
Cruised By	Umpqua
Cruise Method	

Regen harvest 3P with 116 sample trees (DF), Minor species BLM100

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value (\$)
Douglas Fir	8,518	5,460.0	\$559.47	\$72.73	\$279.05	\$0.00	\$207.70	\$1,134,042.00
Grandfir	96	107.0	\$427.21	\$55.54	\$279.05	\$0.00	\$92.60	\$9,908.20
Western Redcedar	149	21.0	\$609.52	\$79.24	\$279.05	\$0.00	\$251.20	\$5,275.20
Western Hemlock	67	21.0	\$411.29	\$53.47	\$279.05	\$0.00	\$78.80	\$1,654.80
Red Alder	92	8.0	\$364.20	\$47.35	\$279.05	\$0.00	\$37.80	\$302.40
Totals	8,922	5,617.0						\$1,151,182.60

Stumpage Computation

Other Wood Products

Product	Unit of Measure	# of Units	\$/Unit	Appraised Value
Biomass	Green Tons	1000	\$0.05	\$50.00
Totals				\$50.00

Total Appraised Value: \$1,151,232.60

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir				80.0%	19.0%	1.0%	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Grandfir				85.0%	15.0%		

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill		Camp Run
Western Redcedar		15.0%	48.0%	37.0%		

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				68.0%	28.0%	4.0%	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	Camp Run
Red Alder		14.0%	47.0%	39.0%		

Steele 27

Unit Summary

ORC03-TS-2025.0001

Unit: 1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	511.0	531.0	536.0	640
Red Alder	4.0	4.0	4.5	57
Grandfir	3.0	3.0	3.0	1
Western Hemlock	2.5	3.0	3.0	10
Totals:	520.5	541.0	546.5	708

Net Volume/Acre: 65.1 MBF

Regeneration Harvest	8.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	8.0

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	4,783.0	4,963.0	5,013.0	7,650
Grandfir	104.0	107.0	112.0	95
Western Redcedar	21.0	22.0	23.0	149
Western Hemlock	18.5	20.0	20.0	57
Red Alder	4.0	4.0	4.5	35
Totals:	4,930.5	5,116.0	5,172.5	7,986

Unit: ROW

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	166.0	172.0	174.0	228
Totals:	166.0	172.0	174.0	228

Net Volume/Acre: 61.6 MBF

Regeneration Harvest	80.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	80.0

Net Volume/Acre: 83.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	2.0
Total Acres:	2.0

Stump to Truck Costs

Total Stump To Truck	Net Volume	\$/MBF	
\$989,306.58	5,617.0	\$176.13	

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	GM MBF	4,986.0	\$170.40	\$849,614.40	\$3.23/gal, 9 loads/day, 4.5mbf/load
Wheel Skidder	GM MBF	843.0	\$161.26	\$135,942.18	\$3.23/gal, 9 loads/day, 4.5mbf/load
Subtotal				\$985,556.58	

Additional Costs

ltem		# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Lift Tree	Each	25.0	\$150.00	\$3,750.00	
Subtotal				\$3,750.00	

Additional Moves

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

Comments:

Fuel \$3.83/gal September 2024

Steele 27

Transportation

Total	Net Volume	\$/MBF
\$354,066.02	5,617.0	\$63.03

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Roseburg	69.1	sawlogs	GM MBF	679.0	\$125.38	\$85,133.02	12%
Coquille	8.8	sawlogs	GM MBF	5,150.0	\$52.22	\$268,933.00	88%

Comments:

WRC, GF, RA, & oversized DF sent to Roseburg. DF & WH sent to Coquille.

Engineering Allowances

Total	Net Volume	\$/MBF
\$139,900.47	5,617.0	\$24.91

Cost Item	Total Cost
Road Construction:	\$115,870.29
Road Maintenance/Rockwear:	\$24,030.18
Road Use Fees:	\$0.00

Comments:

Road Maintenance/Rockwear includes Exhibits D & E

Other Allowances

Total	Net Volume	\$/MBF
\$84,139.01	5,617.0	\$14.98

Environmental Protection

Cost item	Total Cost
Snag creation: Girdled	\$870.00
Snag creation: Topped	\$4,750.00
Vehicle Washing	\$2,600.00
Subtotal	\$8,220.00

Slash Disposal & Site Prep

Cost item	Total Cost
Landing Piling / Covering	\$672.74
Ground Base Slash & Lop	\$6,712.56
Machine Pile & Cover	\$7,868.11
Pile Burning	\$9,684.04
Slash, Lop, & Scatter	\$50,981.56
Subtotal	\$75,919.01

UNITED STATES DEPARTMENT OF THE INTERIOR

DEPORTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT DEPOSIT AND BID FOR: (Check One): Timber and/or Other Wood Products (Examples of Other Wood Products: biomass, firewood, posts, poles, etc)		Tract Number Sale Name Sale Notice (dated)	
		U Vegetative Resources (Examples of Vegetative Resources: boughs, pinyon nuts, cones, plan	nts, etc)
Sealed Bid for Sealed Bid Sale		Auction Sale	
Deadline for accepting sealed bids a.m. p.m. Sale commences		a.m. p.m.	
On <i>(date)</i> Place	On (date)	Place	
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 \$ and is enclosed in the	ne 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.			

Name of Bidder

T

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			ORAI	BID MADE		
PRODUCT & SPECIES	UNIT of MEASURE	ESTIMATED VOLUME OR QUANITY	UNIT PRICE	PRODUCT VALUE (Quantity X Price)	UNIT PRICE	PRODUCT VALUE (Quantity X Price)
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
			\$	\$	\$	= \$
		TOTAL PUR	CHASE PRICE	\$		\$

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

Bid submitted on *(date)*

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

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

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

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

<u>Oral Auction</u> – 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.

BID DEPOSIT - All bidders must make a deposit of not 7. 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. EQUAL OPPORTUNITY CLAUSE – This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity *Compliance Report Certification* will be completed by prospective contractors. Certification may be obtained from District Manager.

17. LOG EXPORT-All timber offered for sale except as noted in the Timber Sale Notice is restricted from export from the United States in the form of unprocessed timber and any exporters of unprocessed private timber west of the 100th meridian in the contiguous 48 states within 24-months of the sale date are not eligible to purchaser Federal Timber west of the 100th meridian in the contiguous 48 states. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as saw logs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimensions or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better.

Timber manufactured into the following will be considered processed: (1) Lumber or construction timbers, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list grades, sawn on four sides, not intended for remanufacture; (2) Lumber, construction timbers, or cants for remanufacture, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list clear grades, sawn on four sides, not to exceed twelve inches in thickness; (3) Lumber, construction timbers, or cants for remanufacture, except western red cedar, that do not meet the grades referred to in subclause 2 and are sawn on four sides, with wane less than 1/4 of any face, not exceeding 8³/₄ 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.

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

to any competitor; and

competition.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Timber Sale Number

Timber Sale Name

Sale date

Bidder or Offeror (Name) Address (include zip code) A. By submission of this bid or proposal, each bidder or contrary to A. 1 through 3 above; or offeror certifies, and in the case of a joint bid or proposal, each 2. (i) He is not the person in the bidder's or offeror's party thereto certifies as to its own organization, that in organization responsible within that organization for the decision as to the prices being bid or offered herein but that connection with this sale: 1. The prices in this bid or proposal have been arrived at he has been authorized in writing to act as agent for the independently, without consultation, communication, or persons responsible for such decision in certifying that such agreement, for the purpose of restricting competition, as to any persons have not participated, and will not participate, in any matter relating to such prices, with any other bidder or offeror action contrary to A. 1 through 3, above, and as their agent or with any competitor; does hereby so certify; and (ii) He has not participated, and will not participate, in 2. Unless otherwise required by law, the prices which have been quoted in this bid or proposal have not been any action contrary to A. 1 through 3, above. knowingly disclosed by the bidder or offeror and will not C. This certification is not applicable to a foreign bidder or knowingly be disclosed by the bidder or offeror prior to offeror submitting a bid or proposal for a contract which opening, in the case of a bid, or prior to award, in the case of a requires performance or delivery outside the United States, proposal, directly or indirectly to any other bidder or offeror or its possessions, and Puerto Rico.

D. A bid or proposal will not be considered for award 3. No attempt has been made or will be made by the where A. 1, 3, or B., above, has been deleted or modified. bidder or offeror to induce any other person or firm to submit Where A. 2, above, has been deleted or modified, the bid or or not to submit a bid or proposal for the purpose of restricting proposal will not be considered for award unless the bidder or offeror furnishes with the bid or proposal a signed B. Each person signing this bid or proposal certifies that: statement which sets forth in detail the circumstances of the disclosure and the head of the agency, determines that such 1. He is the person in the bidder's or offeror's organization responsible within that organization for the

disclosure was not made for the purpose of restricting competition.

(Authorized Signature of Bidder)

decision as to the prices being bid or offered herein and that he

has not participated, and will not participate, in any action

Name and Title (type or print)

INSTRUCTIONS

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

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