COOS BAY DISTRICT OFFICE UMPQUA RESOURCE AREA

SALE DATE: January 26th, 2024

SALE TIME: 10:00 a.m.

# Locked Gates — Key Required

SALE NO. ORC03-TS-2024.0003, Steele Creek Ridge

COOS COUNTY: OREGON: Coos Bay Wagon Road Land: ORAL AUCTION: Bid deposit required:

\$97,700.00

All timber designated for cutting on: T. 27 S., R. 12 W., Sec. 27, N ½NE ¼, N ½NW ¼, 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
6,717	3,944	Douglas-fir	4,930	\$192.10	\$947,053.00
79	8	Red Alder	11	\$30.30	\$333.30
718	55	Western Redcedar	70	\$293.80	\$20,566.00
139	40	Western Hemlock	50	\$43.60	\$2,180.00
110	105	Grandfir	125	\$53.20	\$6,650.00
7,763	4,152	Totals	5,186		\$976,782.30

		Estimated	Appraised Price	Estimated Volume
Product	Unit of Measure	Number of Units	Per Green Ton	Times Appraised Price
Biomass	Green Tons	100	\$0.05	\$5.00

Total Appraised Value:	\$976,787.30
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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.

<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.

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<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 21.6 inches: the average gross merchantable log contains 131 bd. ft.; the total gross volume is approximately 5,415 thousand bd. ft.; and 96% recovery is expected. The average DBHOB for Douglas-fir is 22.5 inches; and the average gross merchantable log contains 134 bd. ft. The following cruise methods were used for volume determination:

<u>3P CRUISE</u>: All species have been cruised using the 3P system to select 117 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: The private timber along the 27-12-28.1 road was 100% cruised.

<u>CUTTING AREA</u>: Unit 1 contains 79 acres of regeneration harvest area and 4 acres of road right-of-way to be cut for a total of 83 acres; refer Exhibit A.

<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>: Purchaser shall pay a maintenance and rockwear obligation totaling \$3,303.02 to the Government. Purchaser shall maintain approximately 2.3 miles of road. The purchaser shall pay a maintenance and rockwear obligation totaling \$3,526.48 Leatherman Land and Timber Co.

<u>BUYOUT SECURITIES (OPTIONAL CONTIBUTION)</u>: Purchaser will have the option of performing pile burning or contributing \$11,694.45 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. <u>44.e.(3)(x)</u>

<u>ROAD CONSTRUCTION</u>: Road construction and improvement estimates include the following 73.39 stations Class SN-16 road

7.39 stations Class SN-12 road

Refer to Exhibit C and D:

Surfacing:

805 cu. yds. of 1½-inch minus crushed hardrock 1,896 cu. yds. of 3-inch minus crushed hardrock

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4,117 cu. yds. of 6-inch minus crushed hardrock 30 cu. yds. of Pit Run 10 cu. yds. of Rip Rap

# Drainage:

120 linear feet of 18-inch CPP culvert

<u>DURATION OF CONTRACT</u>: Will be 24 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.

#### **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. The purchaser shall complete the required road renovation and construction of Road No. 27-12-28.1 by October 15 of the first operating season.
- 17. BLM will assume supervisory responsibility for disposal of logging slash.

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- 18. Machine piling is required in Ground Based Areas.
- 19. Purchaser shall obtain a tailhold agreement with neighboring landowners if logging systems require tailholds outside of the contract area.
- 20. Within 1 year following the completion of yarding operations, the purchaser must create 85 snags, (34 topped above the third live whorl and 51 girdled at DBH), as directed by the Authorized Officer.
- 21. All trees within the 27-12-28.1 road to be improved right-of-way on private property are marked with teal green paint. Purchaser will be required to purchase approximately 7.1 MBF of trees from Leatherman Land & Timber Company at appraisal price of \$1,143.80.
- 22. 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 Loggers Broad Form B \$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.

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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. Periodic Payment and First Installment Adjustment

- (1) Notwithstanding the provisions of Sec. 3(b), the amount of the first installment may be reduced by the Government when the Contracting Officer requests the Purchaser to interrupt or delay operations for a period expected to last more than thirty days during the operating season. Such interruption or delay must be beyond the Purchaser's control. Operating Season shall be defined, for this purpose, as the time of year in which operations of the type required are normally conducted and not specifically restricted under the contract. The first installment may be reduced to five percent of the installment amount listed in Sec. 3(b), during the delay period. The Purchaser must request such a reduction in writing. When the Contracting Officer notifies the Purchaser that operations may proceed, the purchaser shall have fifteen days after such notification to return the first installment to the full value within the allotted time will be considered a material breach of contract. No timber shall be cut or removed from the contract area until the first installment is restored to the full amount.
- (2) Notwithstanding the provisions of Sec. 3(b), adjustments in the due dates for periodic payments may be made by the Government if the Contracting Officer interrupts or delays contract operations for a period expected to last at least thirty days, and the interruption or delay is beyond the Purchasers control. Any adjustment made shall provide the Purchaser with an equal amount of operating time as would have been available without the delay. The Purchaser shall request such adjustment in writing before the due date for a periodic payment contained in Sec. 3(b).

# b. <u>Logging</u>

- (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 prework 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.

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- (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.
- (5) All cut trees within the Regeneration Cut Area will be whole tree yarded to the landing areas when feasible, or as otherwise directed by the Authorized Officer.
- (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 Sec.44.e.(3)h. 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 (including trees marked with an orange S or W) or across any riparian area 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 no-harvest zone 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.
  - (a) 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.

- (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.
- (f) Primary skid trails shall use existing trails wherever possible, be spaced at least 100 feet apart.
- (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<sup>th</sup> 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

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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.

- (12) Before cutting and removing any trees necessary to facilitate logging through areas designated as Reserve Trees, the Purchaser shall identify the location of the harvester roads, cable yarding roads and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser's identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following conditions must be met:
  - (a) All cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with minimum damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of each cable yarding corridor shall be limited to 12 feet.
  - (b) The Purchaser may immediately cut and remove additional timber to clear cable yarding corridors; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees have been marked with blue paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Sec. 3(b) of the contract or sufficient bonding has been provided in accordance with Sec. 3(d) of the contract.
  - (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Authorized Officer and that such timber shall be sold at the unit prices shown in the Exhibit B of this contract unless the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that any tree that exceeds 24 inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Sec. 8 of the contract.
  - (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer which, under Sec. 10 of the contract, constitutes a violation of the contract, and, under Sec. 13 of the contract, may constitute a trespass rendering the Purchaser liable for damages under applicable law.

- (e) The Government may reserve trees previously designated for cutting and removal by applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding road corridors when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription. This may include the replacement of trees damaged by storm events, insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price stated in Sec. 2 of this contract shall be reduced accordingly through a unilateral modification to the contract executed by the Authorized Officer.
- (13) 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.
- (14) 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.
- (15) 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.
- (16) 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.

# c. 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) The purchaser shall renovate and construct Road No. 27-12-28.1 in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made part of. The purchaser shall complete the required road renovation and construction of Road No. 27-12-28.1 by October 15 of the first operating season.

- (4) 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.
- (5) In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall complete erosion control and soil stabilization measures on all cuts, fills, waste areas, and scarified areas, as designated by the Authorized Officer, along all sections of roadway disturbed during the year prior to October 15 of each year. The Authorized Officer may set time limits for the beginning and completion of erosion control and soil stabilization measures and modify seasonal dates to conform to existing weather conditions and changes in the construction schedule. Such work shall be accomplished in accordance with Erosion Control and Soil Stabilization, 1700 and 1800 Series, contained in Exhibit C.
- (6) 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.
- (7) Improvement road 27-12-28.1 right-of-way volume totaling approximately 7.1 MBF shall be purchased and payment totaling \$1,143.80 will be paid to Leatherman Land & Timber Company under the terms of the BLM timber sale contract. The purchaser shall contact Leatherman Land & Timber Company at least 30 days prior to harvesting any private right-of-way timber. All right-of-way timber on 27-12-28.1 road to be improved as shown on Exhibit A, marked with teal green paint on the ground, shall be harvested prior to removing timber from Unit 1.

# d. 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;

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- (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
- (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 \$3,303.02, 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(c)(1) and 44(d)3 of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered 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.

# USE IF OTHER THAN LEATHERMAN LAND & TIMBER CO IS PURCHASER

(6) In the use of required Leatherman Land & Timber Co roads, shown on Exhibit E, the Purchaser shall comply with the conditions of Non exclusive Easement RE-C-674, between the United States and Leatherman Land & Timber Co, available for inspection at the Bureau of Land Management, North Bend, Oregon. Prior to commencement of operations, the Purchaser shall enter into and furnish to the Authorized Officer a copy of the required executed License Agreement.

Default by the Purchaser of said Non exclusive Easement, of any License Agreement executed pursuant thereto shall be considered a violation of this contract. Road Maintenance and/or Rockwear Fees totaling \$3,526.48 payable to Leatherman Land & Timber Co.

# e. 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) <u>Logging Residue Reduction</u>. Primarily for hazardous fuel reduction, watershed protection and 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.

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- (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.b.(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 <u>Sec. 44.b.(11)</u>, 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 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.
- (l) 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

# SPECIAL PROVISIONS - Page 10 of 16

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 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

# SPECIAL PROVISIONS - Page 11 of 16

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. 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.
- 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 polyethylene plastic, 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. Plastic covering 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 polyethylene sheeting in accordance with any applicable Federal, State, and municipal laws. Removed polyethylene 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 44.e.(3)(w). 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 ninety-four and 45/100 dollars (\$11,694.45) 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 fifty-one (51) acres of SLS as directed by the Authorized Officer.
  - 1. The required work shall consist of the treatment listed in the table below. The 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:

Treatment Type	SLS Treatment Acres (estimated)	Cost per Acre	Total Cost
Slash, Lop and Scatter (SLS)	51	\$670.81	\$34,211.31
Total Appraised Cost			\$34,211.31

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.e.(3)(z)1. differs from: thirty-four thousand two hundred eleven and 31/100 dollars (\$34,211.31) as calculated by using the final acreage as determined by the Authorized Officer and the per acre cost listed in Section 44.e.(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.

# f. Snag Creation

- (1) The Purchaser shall, within 1 year following the completion of yarding operations, create 84 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 85 Snags to be created, the Purchaser shall top thirty-four (34) "S" marked conifer trees and girdle fifty-one (51) "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.

# g. 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 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 \$3,889.50. In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of \$3,889.50 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.

# h. Log Branding

# SPECIAL PROVISIONS - Page 16 of 16

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.

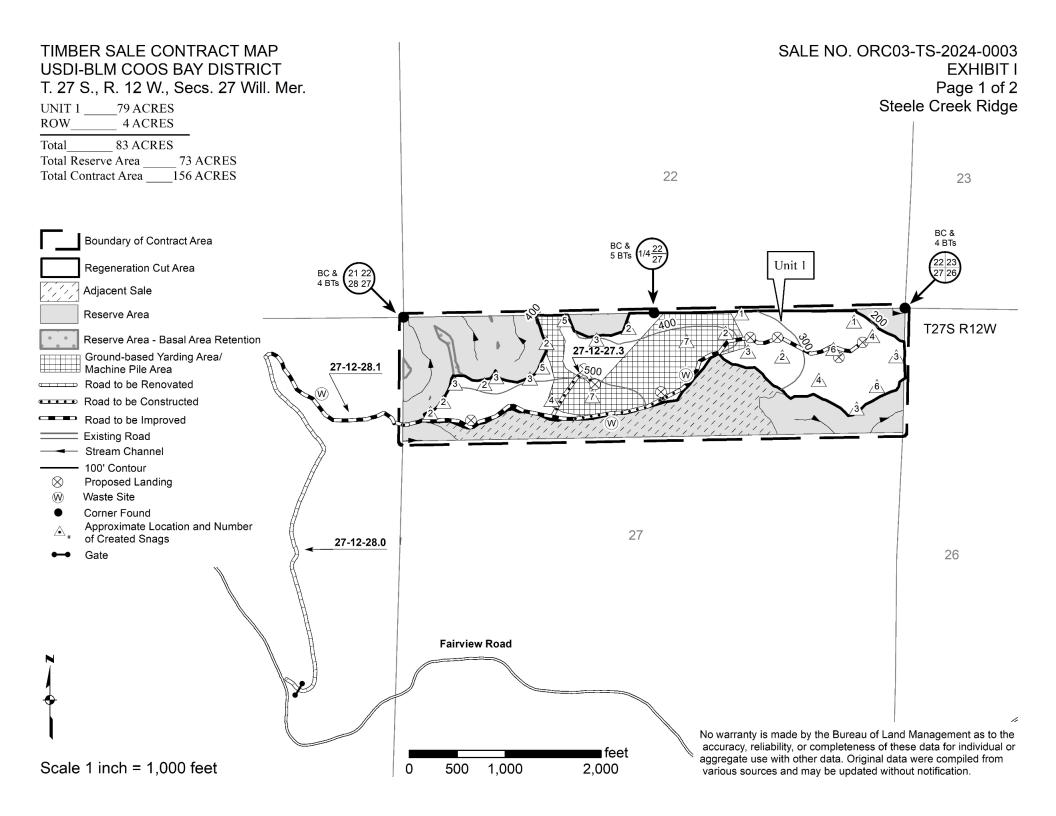
#### Exhibit F

#### 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.



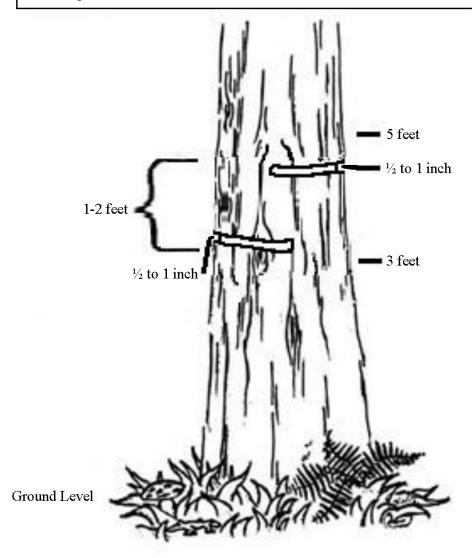
# SPECIFICATIONS FOR BASAL GIRDLING

# **GENERAL:**

(1) Cut ½ to ¾ circumference around the tree and penetrate through the cambium layer into the wood at least ½ inch, but not more than 1 inch. The distance between the top and bottom cut shall be at least 1 foot apart but shall not exceed 2 feet and on opposing sides of the tree bole. Trees shall be girdled between three (3) and five (5) feet above ground level measured from the uphill side of the tree

Illustration 1- Opposing Half-Girdle

Opposing Half-Girdle example: make two (2) 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 SALE NO. ORC03-TS-2024-0003 **USDI-BLM COOS BAY DISTRICT EXHIBIT A-1** T. 27 S., R. 12 W., Secs. 27 Will. Mer. Page 1 of 1 Steele Creek Ridge UNIT 1 79 ACRES 4 ACRES 83 ACRES Total Total Reserve Area 73 ACRES Total Contract Area 156 ACRES — Highway □ Existing Road Road to be Constructed **Boundary of Contract Area** Regeneration Cut Area Reserve Area Gate 27-12-28.0 20 23 Fairview 27-12-28.0 26 FairvieW Rd **T27S R12W** 29 25 32 33 34 36 05 04 T28S R12W 03 Coquille Rink Creek

■ Miles

2

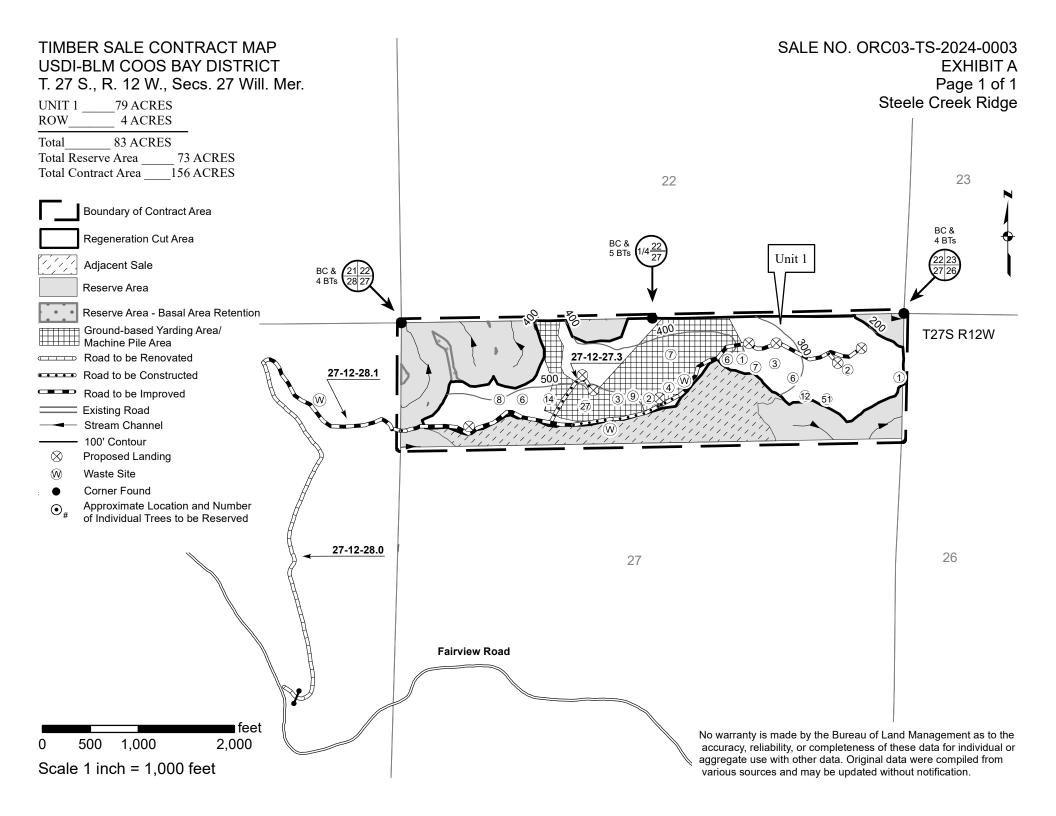
0.5

Scale 1 inch = 1 mile

1

0

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

**SPECIES** 

page 1

Contract No: ORC03-TS-2024.0003

AMOUNT OF ESTIMATED VOLUME OR QUANTITY X UNIT PRICE

SALE NAME Steel Creek Ridge

# EXHIBIT B LUMP SUM SALE

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. 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.

ESTIMATED VOLUMIPRICE PER UNIT

Douglas-fir 4	1930 MBF	\$	192.10		\$	947,053.00	
grand fir	125 MBF	\$	53.20		\$	6,650.00	
western hemlock	50 MBF	\$	43.60		\$	2,180.00	
western redcedar	70 MBF	\$	293.80		\$	20,566.00	
red alder	11 MBF	\$	30.30		\$	333.30	
Biomass	100 Tons	\$	0.05		\$	5.00	
Totals 5	5186 MBF				\$	976,787.30	
The apportionment of the total purchase	price is as follo	ws:					
Approx. No. of Trees UNIT NO. 1	EST. NET	MBF	VOL.				
6184 Douglas-fir	4583		192.1	880394.3			
103 grand fir	117		53.2	6224.4			
137 western hemlock	48		43.6	2092.8			
689 western redcedar	65		293.8	19097	•		
77 red alder	10		30.3	303			
Biomass	100 Tons		0.05	5			
7190 TOTALS	4823						
			79 Acres =	\$ 11,495.15	/Ac.		
				Unit Total	\$	908,116.50	
Approx. No. of Trees UNIT NO. RW	EST. NET	MRF	V∩I				
533 Douglas-fir	347	וטויי	192.1	66658.7			
7 grand fir	8		53.2	425.6			
2 western hemlock	2		43.6	423.0 87.2			
29 western redcedar	5		293.8	1469			
2 red alder	1		30.3	30.3			
573 TOTALS	363		00.0	00.0			

4 Acres =

\$ 17,167.70 /Ac.

\$

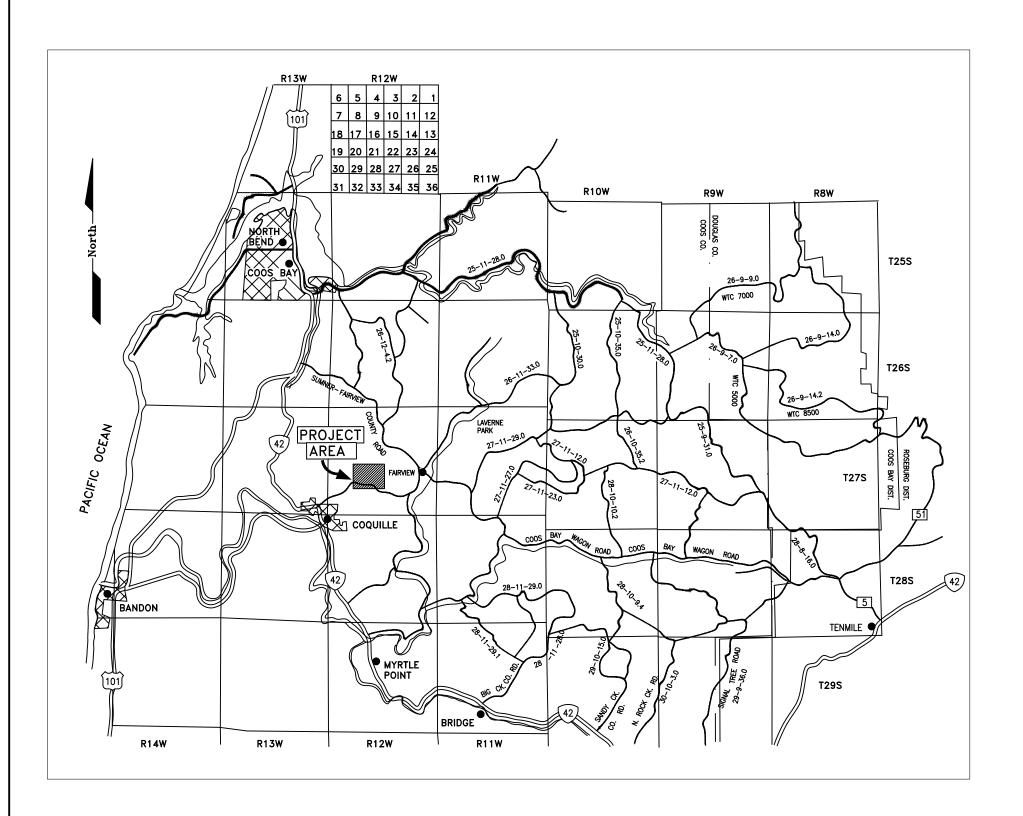
68,670.80

**Unit Total** 

# EXHIBIT C

TIMBER SALE NAME: STEELE CREEK RIDGE TIMBER SALE NUMBER: ORCO3-TS-2024.0003

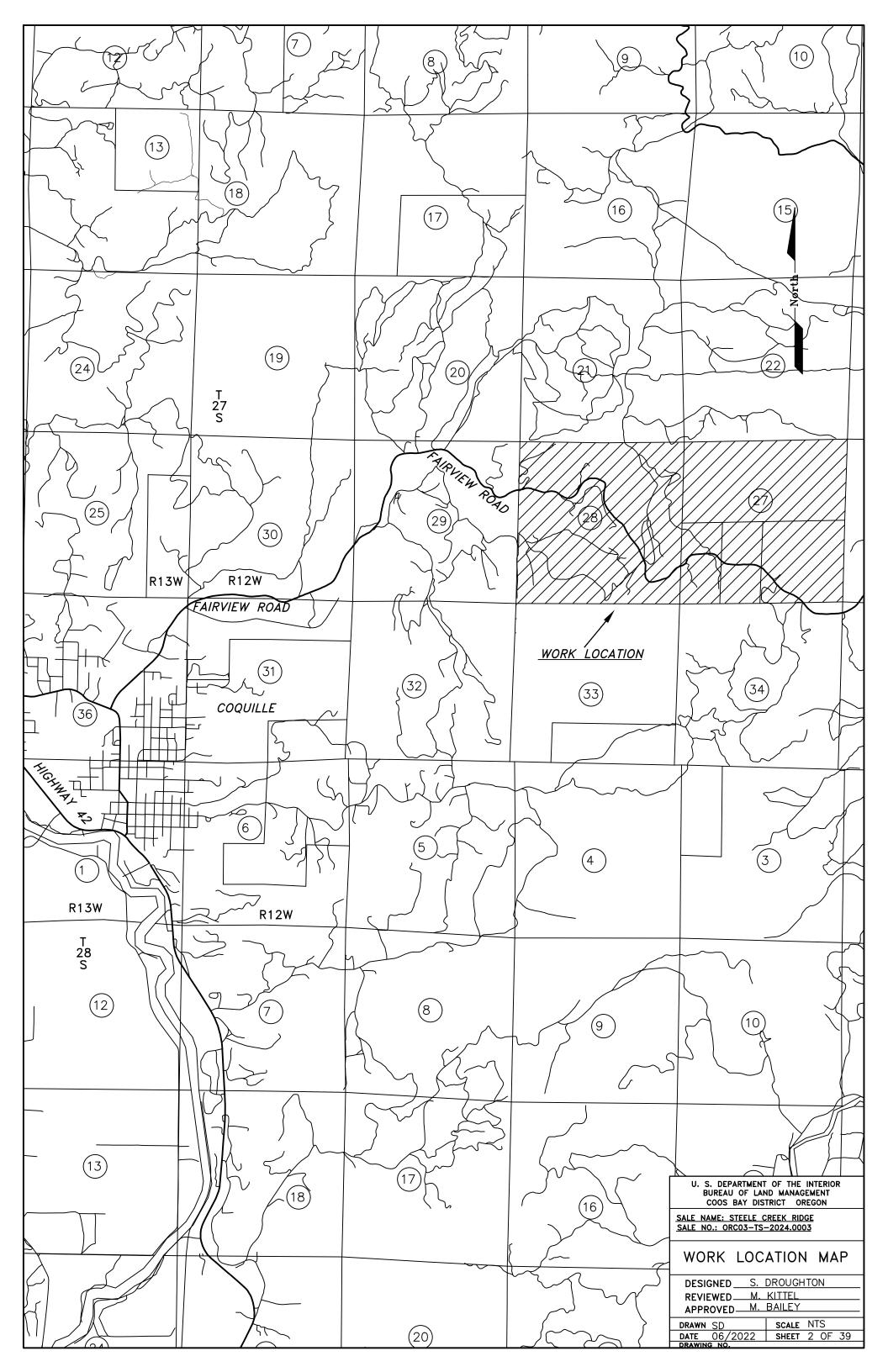
# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OFFICE UMPQUA RESOURCE AREA

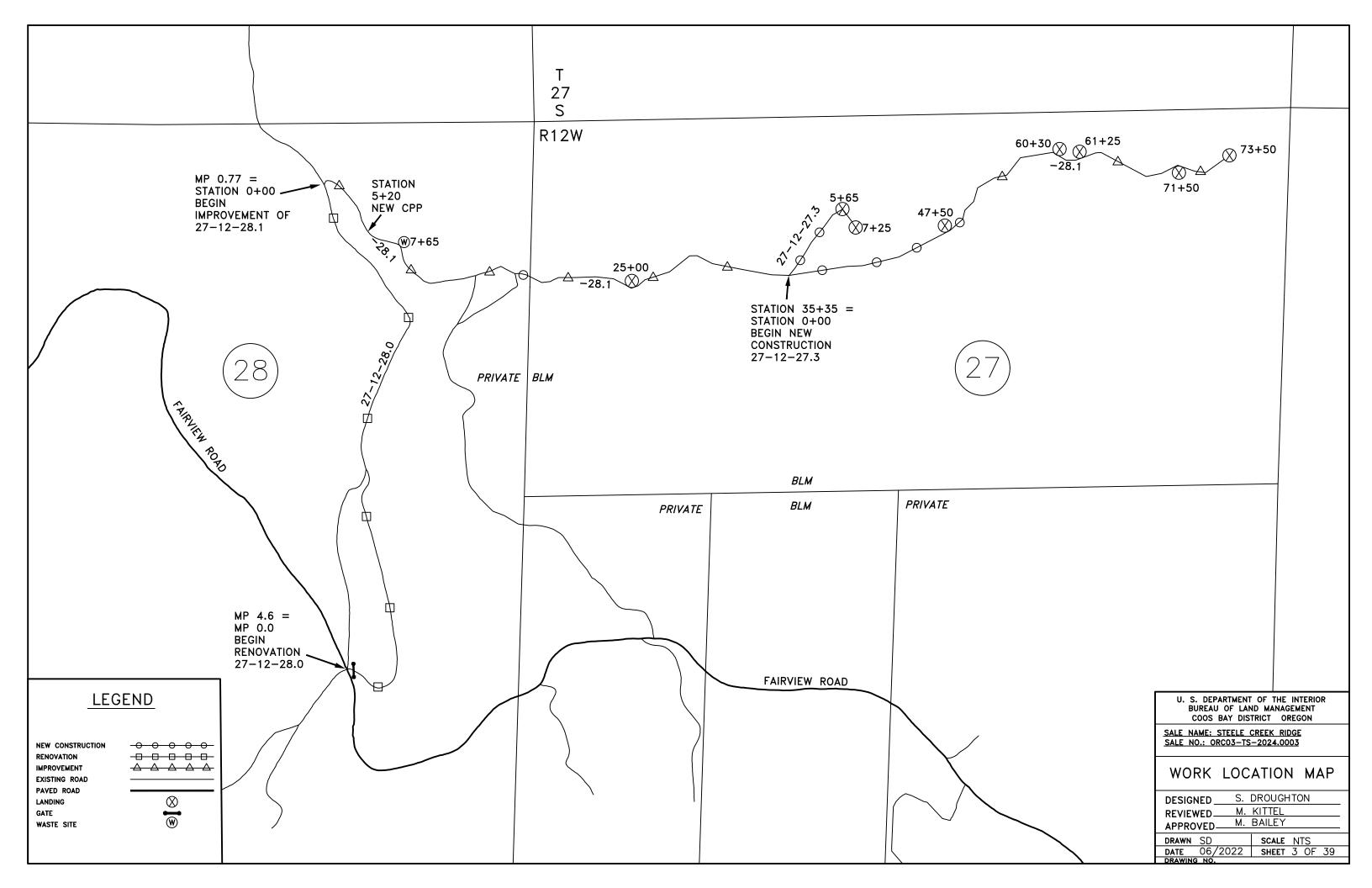


SHEET NO.	CONTENTS
1	TITLE SHEET
2-3	WORK LOCATION MAPS
4	TYPICAL CROSS SECTION DETAILS
5-6	ESTIMATE OF QUANTITIES
7	CULVERT INSTALLATION DETAILS
8	ROADSIDE BRUSHING DETAILS
9	SPECIAL PROVISIONS
10-11	SPECIAL DETAILS
12-13	CONSTRUCTION DETAIL SHEETS
14-39	ROAD CONSTRUCTION SPECIFICATIONS



BUREAU OF LAN	OF THE INTERIOR ND MANAGEMENT TRICT OREGON										
	SALE NAME: STEELE CREEK RIDGE SALE NO.: ORCO3-TS-2024.0003										
TITLE	SHEET										
DESIGNED S.	DROUGHTON										
REVIEWED M.	KITTEL										
I INL VIL VIL D	BAILEY										
	l NEC										
DRAWN SD	scale NTS										
DATE 06/2022	SHEET 1 OF 39										
DRAWING NO.											





					ROAD W	'IDTH¹	WIDTH WIDTH			SURFACING										
ROAD NUMBER **	FROM MILEPOST	TO MILEPOST	LENGTH MILES/	TYPICAL SECTION			BEY	DNC		STING ADS		BASE	COURSE	=			SURFACE	E COUR	!SE	REMARKS
NOMBLI	/STATION	/STATION	STATIONS	TYPE	SUBGRADE	DITCH	TOP CUT		L	R	Min Top Width	Comp.	Type <sup>2</sup>	Grading		Min Top Width	Comp. Depth	Type²	Grading	
27-12-27.3 C	0.00	0.14	0.14	5	12'		10'	5'												OUTSLOPE/INSLOPE @2%
27-12-28.0 R	0.00	0.77	0.77	4	16'	2'			10'	10'						12'	3"	D	1.5-0"	CROWNED 2% W/DITCH
27-12-28.1 C 1	0.32	0.37	0.05	5	16'		10'	5'			13.3	8"	D	6-0"		12'	4"	D	3-0"	OUTSLOPE/INSLOPE @2%
27-12-28.1 C 2	0.72	0.95	0.23	5	16'		10'	5'			13.3	8"	D	6-0"		12'	4"	D	3-0"	OUTSLOPE/INSLOPE @2%
27-12-28.1   1	0.00	0.32	0.32	4	16'	2'	10'	5'	10'	10'	13.3	8"	D	6-0"		12'	4"	D	3-0"	CROWNED 2% W/DITCH
27-12-28.1   2	0.37	0.72	0.35	5	16'		10'	5'	10'	10'	13.3	8"	D	6-0"		12'	4"	D	3-0"	OUTSLOPE/INSLOPE @2%
27-12-28.1   3	0.95	1.39	0.44	5	16'		10'	5'	10'	10'	13.3	8"	D	6-0"		12'	4"	D	3-0"	OUTSLOPE/INSLOPE @2%

#### **NOTES**

1. EXTRA SUBGRADE WIDTHS

ADD TO EACH FILL SHOULDER 1 FT. FOR FILLS
OF 1-6 FT. AND 2 FT. FOR FILLS OVER 6 FT.
WIDEN THE INSIDE SHOULDER OF ALL CURVES
AS FOLLOWS:

WHEN THE RADIUS OF CURVE EQUALS 270-800 ADD 1 FT. 165-270 ADD 2 FT. 120-165 ADD 3 FT. 90-120 ADD 4 FT 60-90 ADD 5 FT. OR AS SHOWN ON PLANS

 MATERIALS
 CUT SLOPE
 FILL SLOPE

 COMMON
 1/2:1
 1&1/2:1

 SOFT ROCK&SHALE
 1/2:1
 1&1/2:1

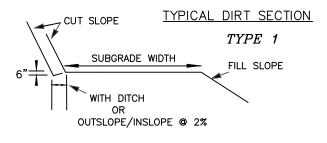
 SOLID ROCK
 1/4:1
 REPOSE

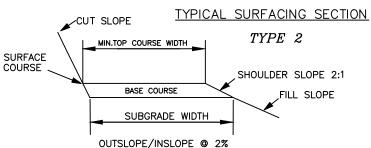
FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%

- 2. SURFACING TYPE
- A. PIT RUN ROCK MATERIAL.
  B. GRID ROLLED ROCK MATERIAL.
- C. SCREENED ROCK MATERIAL.D. CRUSHED ROCK MATERIAL.
- E. CLASS 'C' ASPHALT MIX.
- 3. SURFACING

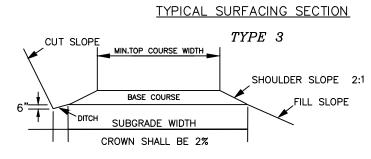
A. TURNOUTS, CURVE WIDENING AND ROAD APPROACH APRONS SHALL BE SURFACED.

- 4. DITCHES
  - . 4:1 SLOPE FROM SUBGRADE, OR AS OTHERWISE NOTED. DEPTH MAY BE EXCEEDED TO OBTAIN REQUIRED DRAINAGE
- 5. TURNOUTS
- A. WIDTH 10 FT. IN ADDITION TO SUBGRADE 10'-0"
  WIDTH, OR AS SHOWN ON THE PLANS.
- B. LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS OR NARRATIVE.

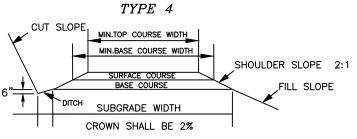


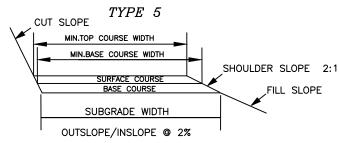


TYPICAL SURFACING SECTION



TYPICAL SURFACING SECTION



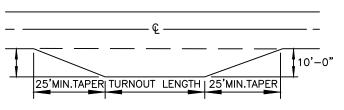


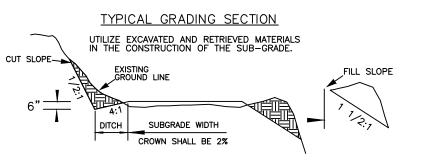
\*\* RENOVATION = R
IMPROVEMENT = I
CONSTRUCTION = C

**ALWAYS** 

THINK SAFETY /







U.	s.	DEP#	RTM	ENT	OF	THE	INTER	RIOR
	BUR	EAU	OF	LAN	D M	ANAG	EMEN	T
	CO	OS E	BAY	DIST	RICT	OF	REGON	1

SALE NAME: STEELE CREEK RIDGE SALE NO.: ORCO3-TS-2024.0003

# TYPICAL CROSS SECTION DETAILS

DESIGNED_	S. DROUGHTON
REVIEWED_	M. KITTEL
APPROVED—	M. BAILEY
DRAWN SD	SCALE N/A

DATE 06/2022 SHEET 4 OF 39

DRAWING NO.

	N 0	Z	⊢ Z IJ	<u> </u>	()	шО	SNIX	EARTH WORK DESIGNED					CPP *1 CMP *2					DOW	/NSPOTS	3 *3		4.0			
ROAD NUMBER **	new truct	ATIC	$\Sigma$	N H MEN	B	OSID HIN	STAKII					SHORT	LONG								FU	LL ROU	ND		KERS
NOAD NOMBER	S	RENOVATION	ROV	SLASH TREATMEN	GRUBBING	ROADSIDE BRUSHING	) 3 0 0 1	COMMON	RIPPABL		FILL	HAUL 200-	HAUL 500'	18"	24"	12"	18"	24"	142"x 91"	18"	24"	18"	24"	36"	MARK
	N 0 0	RE	IMPR	F		7 B	SLO		E ROCK	CUT		500°	+						91	CPP (SW)	CPP (SW)	CMP (SW)	CMP (SW)	СМР	_
SECTION NO.	300	500	500	200	200	2100	2300			300	)								40	00					
UNITS		MILEPOST		ACR	ES	ACRES	SIDES	CUBIC YARDS YARDS STA.YD. YD.MI.				LINEAR					near fe	EET					EA.		
27-12-27.3 C	0.14			0.60	0.30																				
27-12-28.0 R		0.77				1.87																			
27-12-28.1 C 1	0.05			0.20	0.10																				
27-12-28.1 C 2	0.23			1.00	0.50																				
27-12-28.1   1			0.32	0.20	0.10	0.78								40											
27-12-28.1   2			0.35	1.40	0.70																				
27-12-28.1   3			0.44	1.80	0.90									80											
Total	0.42	0.77	1.11	5.20	2.60	2.65	0.00	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0

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



U.	s.	DEF	PARTI	<b>IENT</b>	OF	THE	INTERI	OR
	BU	REAL	J OF	LAN	D M	ANAG	EMENT	•
	CC	200	BAY	DIST	RICT	. 01	REGON	

SALE NAME: STEELE CREEK RIDGE SALE NO.: ORCO3-TS-2024.0003

# ESTIMATE OF QUANTITIES

S. DROUGHTON
M. KITTEL
M. BAILEY
NI /A

 DRAWN
 SD
 SCALE
 N/A

 DATE
 06/2022
 SHEET
 5 OF 39

 DRAWING NO.

<sup>\*1</sup> CPP - CORRUGATED POLYETHYLENE PIPE

<sup>\*2</sup> CMP — CORRUGATED METAL PIPE

<sup>\*3</sup> SEE CULVERT INSTALLATION SHEET

	SURFACING				OTHER			SEEDING			
ROAD NUMBER	(3-0")	ACE DRAIN	(6-0") BASE ROCK	,	(OTHER) SURFACE ROCK	PIT RUN	RIPRAP	GEO- TEXTILE	SEED, FERTILIZE, AND MULCH		OTHER (SEDIMENT
	SURFACE ROCK								DRY	HYDRO	CONTROL DEVICES)
SECTION NO.		1000		12	200	700	1400	1300	1 8	300	N/A
UNITS	CUBIC YARDS			CUBIC YARDS		S.Y.	АС	RES	EACH		
GRADE	А	В	D	С		В	А		N/A		
27-12-27.3 C									0.34		
27-12-28.0 R				645							
27-12-28.0 C 1	55		127						0.12		
27-12-28.0 C 2	255		590						0.56		
27-12-28.0   1	362		838			30	10		0.78		
27-12-28.0   2	407		1043						0.85		
27-12-28.0   3	527		1519						1.08		
TOTAL	1606		4117	645		30	10		3.73		

\* 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 = I
CONSTRUCTION = 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"
1400	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 CREEK RIDGE SALE NO.: ORCO3-TS-2024.0003

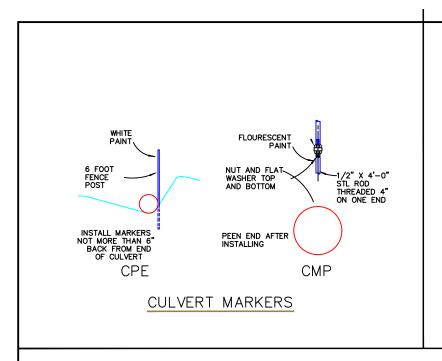
# ESTIMATE OF QUANTITIES

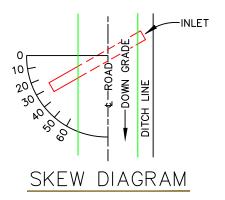
DESIGNED	S. DROUGHTON
REVIEWED	M. KITTEL
APPROVED—	M. BAILEY
ALTROTED	

DRAWN SD SCALE N/A

DATE 06/2022 SHEET 6 OF 39

DRAWING NO.





HORIZONTAL SKEW SHALL BE AS SHOWN, OR PERPINDICULAR TO DITCH LINE IN GRADE DIPS. THE GRADE OF CROSSDRAINS SHALL BE AT LEAST 2% GREATER THAN THE GRADE OF THE DITCH, WITH A MAXIMUM GRADIENT OF 5%.

CATCH BASIN

# BEDDING OF CULVERTS

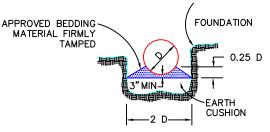


BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR COMPACTED EMBANKMENT

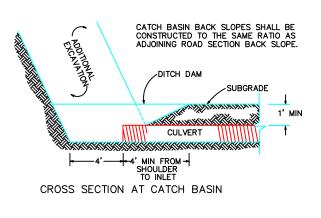
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION

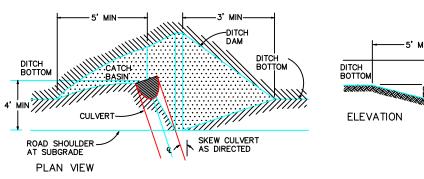


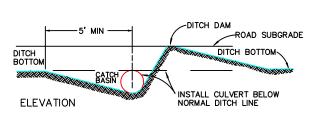
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAIN— TAIN 8" MIN. DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT.

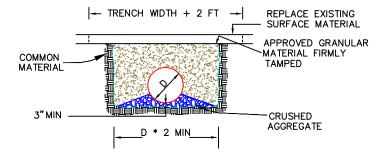
BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION



USE "ADJUSTABLE ELBOW" FOR CPE AND CMP DOWNSPOUTS



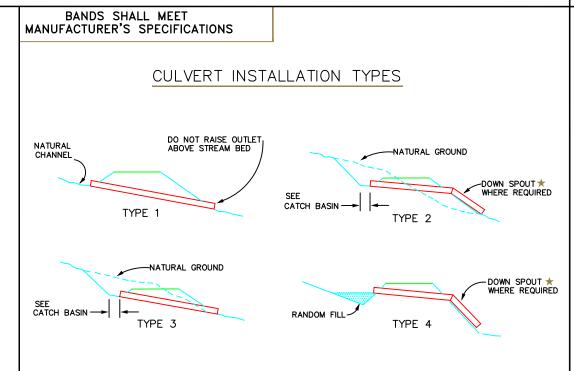


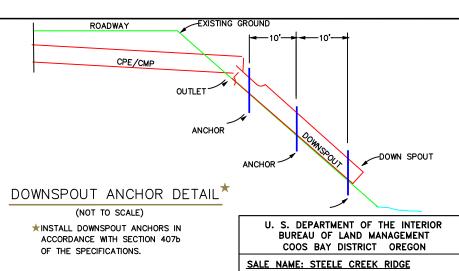


BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. BACKFILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL.

BEDDING OF CULVERTS ON EXISTING SURFACED ROADS

# -1/6 D (BOLT ONE EACH SIDE - SEE DETAIL)\*\* CULVERT 1/3 D SIDE VIEW **BOLT ASSEMBLY DETAIL\*\*** CULVERT 1/2"id x 1"od GALV. PIPE GALV. WASHER 1/2" X 5" GALV. BOLT \* NOTE: ANCHOR DOWNSPOUTS ACCORDING TO SECTION 407b OF THE ROAD CONSTRUCTION 1/2"id x 1"od **SPECIFICATIONS**



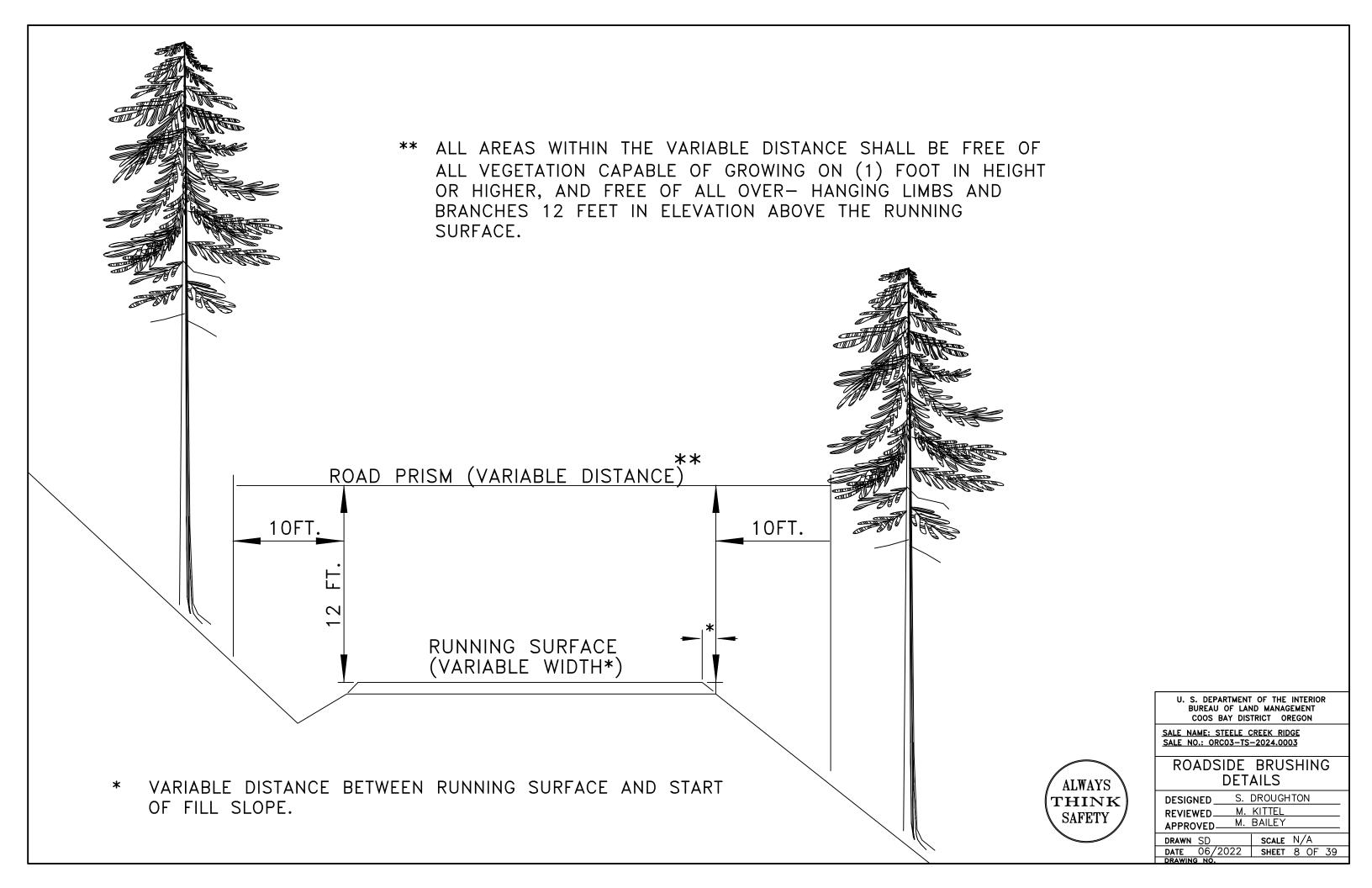


**ALWAYS** THINK SAFETY

SALE NAME: STEELE CREEK RIDGE SALE NO.: ORCO3-TS-2024.0003

CULVERT INSTALLATION DETAILS S. DROUGHTON DESIGNED

M. KITTEL REVIEWED. M. BAILEY APPROVED-SCALE NONE DRAWN SD DATE 06/2022 SHEET 7 OF 39



#### **SPECIAL PROVISIONS**

#### **Bituminous surfaced roads**

The Purchaser shall avoid damaging any bituminous surfaced roads and will be responsible for the repair of any road damaged as a result of the activity. Bituminous roads shall be left in the same condition that they were prior to logging operations.

The bituminous road surface at any roadside landing locations will be protected by applying a layer of wood chips, hog fuel, or other material (excluding rock or soil) approved by the Authorized Officer, to a depth sufficient to prevent damage from yarding and loading activities.

#### **Roadwork restrictions**

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

Seasonal restrictions apply to summer haul roads.

#### **Locked Gate**

#### BLM 2A-250 key required.

#### **Native Seed**

The Government will furnish native seed mix. The Purchaser shall pick up the native seed mix at the North Bend, BLM warehouse. The Purchaser shall give the Authorized Officer, or Goldie Warncke at (541) 751- 4283, a 3-day notice in advance before pick up. The native seed mix shall be applied at the rate of 20 pounds per acre. Sand can be mixed with the native seed to aid broadcast seeding. Approved mulch material shall be applied at the rate of 3000 pounds per acre. Seeding shall be applied according to the dates specified in road specification 1803.

#### **Over-wintering**

All natural-surfaced new construction shall not over-winter without being either decommissioned, as specified in the Exhibit D, or winterized, in accordance with the 1700 Erosion Control Specifications, prior to the first rains of the wet season, but no later than October 15 in the year of construction.

#### When haul road grades exceed 20 percent slope

The vehicle or machine must be approved by the manufacturer for operation on the steeper grades. Additional precautions must be taken, such as assisting or snubbing the vehicle or machine down the slope.

## **Bridge Requirement**

For all truck loads that are greater than legal or posted loads, a haul authorization is required to cross a BLM structure. Contact: Marc Van Camp, P.E. –District Engineer– 1-(541)-751-4469, <a href="mailto:mvancamp@blm.gov">mvancamp@blm.gov</a>. Allow for up to 90 days processing time in advance before bridge use.

# **SPECIAL DETAILS**

# RENOVATION OF ROAD NO. 27-12-28.0 Milepost 0.00 to Milepost 0.77

Milepost	Remarks
0.00	Begin renovation. Junction with Fairview Rd. at M.P. 4.6. Locked Gate. BLM 2A-250 Key Required.
	Begin roadside brushing, surfacing, grading, and shaping in accordance with Sections 500, 1200, 1800, and 2100 of the Road Specifications, Typical Cross Section Sheet, and Roadside Brushing Detail Sheet, or as directed by Authorized Officer.
NOTE:	Place a 3" lift of 1.5-0" crushed aggregate conforming to Section 1200 of the Road Specifications from milepost 0.00 to 0.77.
0.77	End renovation. Start improvement of 27-12-28.1.
	IMPROVEMENT OF ROAD NO. 27-12-28.1 Milepost 0.00 to Milepost 0.32 Milepost 0.37 to Milepost 0.72 Milepost 0.95 to Milepost 1.39
Station	Remarks
0+00	Begin improvement.
	Begin roadside brushing, culvert cleaning and installation, slope protection, surfacing, grading, and shaping in accordance with Sections 400, 500, 1200, 1400,1800, and 2100 of the Road Specifications, Typical Cross Section Sheet, and Roadside Brushing Detail Sheet, or as directed by Authorized Officer.
NOTE:	Place an 8" lift of 6-0" crushed aggregate capped with a 4" lift of 3-0" crushed aggregate conforming to Sections 1000 and 1200 of the Road Specifications from milepost 0.00 to milepost 1.39, this includes new construction segments.
	Widen and surface the entirety of the junction of the 27-12-28.1 and 27-12-28.0.
5+20	Install a new 18"x40' CPP in accordance to Section 400 of the Road Specifications. Place 10 CY of Class IV rip rap at the inlet and outlet of the new CPP in accordance with Section 1400 of the Road Specifications. Utilize pit run material for fill. Haul all waste to the designated waste site as shown on the Work Location Map. Waste shall be compacted and shaped for drainage and seeded and mulched as directed by the Authorized Officer.
7+65	Waste site left.
16+95	End improvement. Begin new construction.
19+60	End new construction begin improvement.
25+00	Construct landing left and truck turn out right. Utilize 100 CY of 6-0" crushed aggregate.

ORC03-TS-2024.0003 STEELE CREEK RIDGE EXHIBIT C SHEET 11 OF 39 SHEET

35+35	Junction left begin new construction of 27-12-27.3.
37+95	End improvement. Begin new construction.
47+50	Construct landing with approach left and truck turn out right. Utilize 125 CY of 6-0" crushed aggregate.
50+10	End new construction. Begin improvement.
55+00	Install a new 18"x40' CPP in accordance with Section 400 of the Road Specifications.
60+30	Construct landing left. Utilize 50 CY of 6-0" crushed aggregate.
61+25	Construct landing left. Utilize 50 CY of 6-0" crushed aggregate.
71+50	Construct landing with approach right and truck turn out left. Utilize 125 CY of 6-0" crushed aggregate.
72+00	Install a new 18"x40' CPP in accordance with Section 400 of the Road Specifications.
73+00	Construct truck turn around right. Utilize 25 CY of 6-0" crushed aggregate.
73+50	Construct end landing. Utilize 50 CY of 6-0" crushed aggregate.

#### CONSTRUCTION DETAIL SHEET ROAD NO. 27-12-28.1 CONTROL POINT ROAD

#### **GENERAL**

Purchaser shall construct Road No. 27-12-28.1 from Sta. 16+95 to 19+60 and 37+95 to 50+10 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

#### **SHAPING**

The roadway shall be constructed and shaped to conform to standards shown on Road Specifications Sheet.

#### **TURNOUTS**

Construct turn out at station 47+50 right.

#### SUBGRADE

The subgrade shall be excavated and compacted in accordance with the Road Specifications, 200 and 300 Sections. Waste shall be hauled to designated waste sites as shown on the location map.

Geotextile shall be placed from station 26+05 to 32+70 in accordance with Section 1300 of the Road Specifications.

#### DRAINAGE FEATURES

Inslope/Outslope road to achieve drainage.

#### **SURFACING**

Place an 8" lift of 6-0" crushed aggregate capped with a 4" lift of 3-0" crushed aggregate conforming to Sections 1000 and 1200 of the Road Specifications from station 16+95 to 19+60 and 37+95 to 50+10.

#### **ALIGNMENT**

Roadway shall be constructed within posted or painted right-of-way boundaries. Minimum curve radius shall be sixty (60) feet.

#### **GRADE**

Grade shall not exceed 18% favorable.

#### TRUCK TURNAROUND

Utilize landings, junctions, and turn outs.

#### **LANDINGS**

Construct landing at station 47+50 left. Utilize 125 CY of 6-0" crushed aggregate allocated conforming to Section 1000 of the Road Specifications and placed as directed by the Authorized Officer.

#### SOIL STABILIZATION

Apply seed, fertilizer, and mulch in accordance with Section 1800 of the Road Construction Specifications.

# CONSTRUCTION DETAIL SHEET ROAD NO. 27-12-27.3 CONTROL POINT ROAD

#### **GENERAL**

Purchaser shall construct Road No. 27-12-27.3 from Sta. 0+00 to 7+25 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

#### **SHAPING**

The roadway shall be constructed and shaped to conform to standards shown on the Road Specifications Sheet.

#### **TURNOUTS**

None.

#### **SUBGRADE**

The subgrade shall be excavated and compacted in accordance with the Road Specifications, 200 and 300 Sections.

#### DRAINAGE FEATURES

Inslope/Outslope road to achieve drainage.

#### **SURFACING**

Natural.

#### **ALIGNMENT**

Roadway shall be constructed within posted or painted right-of-way boundaries. Minimum curve radius shall be sixty (60) feet.

#### **GRADE**

Grade shall not exceed 18% favorable.

### TRUCK TURNAROUND

Utilize landings.

#### **LANDINGS**

Construct landing at station 5+65 and end landing at 7+25. Utilize 100 CY of 6-0" crushed aggregate allocated conforming to Section 1000 of the Road Specifications and placed as directed by the Authorized Officer.

#### **SOIL STABILIZATION**

Apply seed, fertilizer, and mulch in accordance with Section 1800 of the Road Construction Specifications.

#### **ROAD CONSTRUCTION SPECIFICATIONS**

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

Section	
100	GENERAL
200	CLEARING AND GRUBBING
300	EXCAVATION AND EMBANKMENT
400	PIPE CULVERTS
500	RENOVATION AND IMPROVEMENT OF EXISTING ROADS
600	WATERING
1000	AGGREGATE BASE COURSE (CRUSHED ROCK)
1200	AGGREGATE SURFACE COURSE (CRUSHED ROCK)
1300	GEOTEXTILES
1400	SLOPE PROTECTION
1700	EROSION CONTROL
1800	SOIL STABILIZATION
2100	ROADSIDE BRUSHING

#### **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.

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

ACI - American Concrete Institute

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

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

ORC03-TS-2024.0003 STEELE CREEK RIDGE EXHIBIT C SHEET 16 OF 39 SHEET

<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.

ORC03-TS-2024.0003 STEELE CREEK RIDGE EXHIBIT C SHEET 17 OF 39 SHEET

<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.

ORC03-TS-2024.0003 STEELE CREEK RIDGE EXHIBIT C SHEET 18 OF 39 SHEET

<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.

AASHTO T 27 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.

AASHTO T 96 Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.

AASHTO T 99 Relationship between soil moisture and 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.

AASHTO T 176 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. Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch AASHTO T 191 cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12inch cone. AASHTO T 205 Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil. Durability of aggregates based on resistance to produce fines. AASHTO T 210 AASHTO T 224 Correction for coarse particles in the soil. AASHTO T 238 Determination of density of soil and soil-aggregates in place by nuclear methods.

AASHTO T 248 Reducing field samples of aggregate to testing size by mechanical

splitter, quartering, or miniature stockpile sampling.

<u>DES. E-12</u> Determination of relative density of cohesionless soils.

<u>DMSO (dimethyl sulfide)</u> - Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

103 Compaction equipment shall meet the following requirements:

Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3-inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller at a speed of at least 4 miles per hour.

Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer. The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.

103i Other. Compaction equipment approved by the Authorized Officer.

#### **CLEARING AND GRUBBING - 200**

This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris,

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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. Brush under 2 feet in height need not be cut within the limits established for clearing. 203a 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 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.

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

#### **EXCAVATION AND EMBANKMENT - 300**

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 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.
- 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.
- 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.
- 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.
- 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.
27-12-27.3 C	0.00	0.14
27-12-28.1 I & C	0.00	1.39

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

- Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c.
- NOTE: Any material being hauled over gravel or bituminous surfaced roads will be done in vehicles which meet legal highway weight requirements while hauling.
- 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.
- Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 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.
- 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**

- 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.
- 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.
- 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.

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- 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.
- "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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

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aggregate meeting the requirements of Sections 1204, 1205, 1206, 1207, and 1208 of these specifications.

- 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.
- Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- 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.
- Where pervious materials are used for backfilling 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.
- 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**

- 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.
- 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 No.	From Station/M.P.	To Station/M.P.
27-12-28.0 R	0.00	0.77

- 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.
- 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.
- 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 No.	From Station/M.P.	To Station/M.P.
27-12-28.0 R	0.00	0.77

- 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.
- 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.
- 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**

- 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.
- 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.
- 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.

#### 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.
- 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 gradation requirements:

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# TABLE 1004 AGGREGATE BASE COURSE CRUSHED ROCK MATERIAL

#### 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.

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.

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

- 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.
- 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.
- 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.
- 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

- 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.
- 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 gradation requirements:

#### **TABLE 1204**

### AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

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

#### **GRADATION**

Sieve Designation	С
1-1/2-inch	100
1-inch	-
3/4-inch	50-90
½-inch	-
No. 4	25-50
No. 8	-
No. 30	-
No. 40	5-25
No. 200	2-15

- 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.

- 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.
- 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.
- 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

- 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.
- Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance with the requirements of Subsections 500 for placing on the 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.
- 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.

#### **GEOTEXTILES - 1300**

- This work shall consist of furnishing, hauling, and installing geotextile material at the locations and in accordance with these specifications and the lines, grades, dimensions, and typical cross sections shown on the plans.
- Use long-chain, synthetic polymers, composed of at least 95 percent by mass of polyolefins or polyesters, to manufacture geotextile or the threads used to sew geotextile.
- Furnish to the Authorized Officer a commercial certification including the name of the manufacturer, product name, style number, chemical composition of the filaments or yarns, and other pertinent information to fully describe the geotextile.
- Each roll of geotextile material shall be labeled to provide for identification of the material. Elevate and protect rolls with a waterproof cover if stored outdoors.
- When using a geotextile for a permanent installation limit material exposure to ultraviolet radiation to less than 10 days. (Geotextile material deemed to have been overexposed to sunlight by the Authorized Officer shall be rejected.)
- Where subgrade reinforcement or material separation is required, clearing, grubbing, and excavation of the subgrade shall be completed prior to the placement of geotextile material. The subgrade shall be leveled and smoothed to remove lumps and depressions which exceed (6) inches in height and depth. Small pieces of woody debris shall be removed. Light vegetation, i.e., grasses, weeds, leaves, and other small woody debris, may be left in place.
- The geotextile material shall be installed directly on the prepared surface. Place the geotextile smooth and free of tension, stress, or wrinkles. Fold or cut the geotextile to conform to curves. Overlap in the direction of construction. Overlap the geotextile a minimum of (2) feet at the ends and sides of adjoining sheets or sew the geotextile joints according to manufacturer's recommendations. Do not place longitudinal overlaps below anticipated wheel loads. Hold the geotextile in place with pins, staples, or piles of cover material.
- End-dump the cover material onto the geotextile from the edge of the geotextile or from previously placed cover material. Do not operate equipment directly on the geotextile. Spread the end-dumped pile of cover material maintaining a minimum lift thickness of (4) inches. Compact the cover material with rubber-tired or non-vibratory smooth drum rollers. Avoid sudden stops, starts, or turns of the construction equipment. Fill all ruts from construction equipment with additional cover material. Do not re-grade ruts with placement equipment.
- 1310 Repair or replace all geotextile that is torn, punctured, or muddy. Remove the damaged area and place a patch of the same type of geotextile overlapping 3 feet beyond the damaged area.

Geotextile material used for slope reinforcement or material separation shall meet the following requirements:

<u>TABLE 1311a</u>

Physical Requirements for Slope Reinforcement or Material Separation Geotextile

Dranarty	Test Method ASTM	Units	Specifications <sup>(1)</sup>
Property			Type II-B
Grab strength	D 4632	N	1100/700
Sewn seam strength	D 4632	N	990/630
Tear strength	D 4533	N	400 <sup>(3)</sup> /250
Puncture strength	D 4833	N	400/250
Burst strength	D 3786	kPa	2700/1300
Permittivity	D 4491	S <sup>-1</sup>	0.02
Apparent opening size	D 4751	mm	0.60(2)
Ultraviolet stability	D 4355	%	50% after 500 hours of exposure

- The first values in a column apply to geotextiles that break at < 50 percent elongation (ASTM D 4632). The second values in a column apply to geotextiles that break at ≥ 50 percent elongation (ASTM D 4632).
- 2) Maximum average roll value.
- 3) The minimum average tear strength for woven monofilament geotextile is 245 N.
- Where geotextile material is specified as filter wrap for underdrains it shall be inert to commonly encountered chemicals, mildew and rot resistant, resistant to ultraviolet light exposure, and insect and rodent resistant.
- Trenches for underdrains shall be excavated to the dimensions and grades shown on the plans and adjusted to meet field conditions. Smooth the trench surfaces by removing all projections that may damage the geotextile. Minimum slope of trenches shall be one percent. The Authorized Officer shall have a minimum of 3 days of notice in which to approve trenches prior to installation of the geotextile material, pipe, drain rock, or other backfill.
- Geotextile material used as a filter shall be placed in a manner and at the locations shown on the plans. Place the long dimension of the geotextile parallel to the centerline of the trench. Position the geotextile, without stretching, in contact with the trench surface. Overlap the joints a minimum of 24 inches with the upstream geotextile placed over the downstream geotextile. Replace geotextile damaged during installation.
- 1315 Geotextile materials used for subsurface drainage shall meet the following requirements:

## <u>TABLE 1315</u> Physical Requirements for Subsurface Drainage Geotextile

Dranarty	Test Method ASTM	Units	Specifications <sup>(1)</sup>
Property			Type I-A
Grab strength	D 4632	N	1100/700
Sewn seam strength	D 4632	N	990/630
Tear strength	D 4533	N	400 <sup>(3)</sup> /250
Puncture strength	D 4833	N	400/250
Burst strength	D 3786	kPa	2750/1350
Permittivity	D 4491	s <sup>-1</sup>	0.5
Apparent opening size	D 4751	mm	0.43(2)
Ultraviolet stability	D 4355	%	50% after 500 hours of exposure

- (1) The first values in a column apply to geotextiles that break at < 50 percent elongation (ASTM D 4632). The second values in a column apply to geotextiles that break at ≥ 50 percent elongation (ASTM D 4632).
- (2) Maximum average roll value.
- (3) The minimum average tear strength for woven monofilament geotextile is 245 N.

#### **SLOPE PROTECTION - 1400**

- 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.
- 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.

Loose riprap shall meet the following gradation:

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

- 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

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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.

- Riprap shall be placed directly under the culvert outlet and extend to the point where a 45-degree angle from the outlet invert intersects the key bench. Riprap shall extend a minimum distance equal to the culvert diameter on all sides.
- 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**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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**

- 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.
- 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.

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.

The Purchaser shall apply the seed mixtures specified under Special Provisions to the corresponding seeding projects as shown on Sheet No. 7.

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.

1808 Fertilizer shall be a standard commercial grade of fertilizer conforming to all State and Federal regulations and to the standards of the Association of Official Agricultural Chemists. Fertilizer furnished shall provide the minimum percentage of available nutrients as specified below:

Available nitrogen 16% Available phosphoric acid 20% Potassium 16%

The Authorized Officer will take what samples he deems necessary for determining compliance with the above requirements.

Fertilizer shall be furnished in new sealed and properly labeled containers with name, weight, and guaranteed analysis of contents clearly marked. Material failing to meet these requirements, or that which has become wet or otherwise damaged in transit or storage, will be subject to rejection by the Authorized Office.

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, 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.

- 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.
- 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.
- 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.
- The Purchaser shall furnish and apply to approximately **3.75** 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 gals./acre
Grass Seed 60 lbs./acre
Fertilizer 200 lbs./acre
Mulch 3,000 lbs./acre

b. Dry Application:

Grass Seed 60 lbs./acre
Fertilizer 200 lbs./acre
Mulch/Straw 3.000 lbs./acre

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

- 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.
- 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.
- 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.
- 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.

- 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.
- 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.
- The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- 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.
- 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.
- Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

#### **ROADSIDE BRUSHING – 2100**

- This work shall consist of 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.
- 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.
- Vegetation shall be cut and removed from the roadbed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 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.
- 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.

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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 on Sheet No. 6. Mechanical brush cutters shall not be operated when there are people and occupied vehicles 2116 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 Devices

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Version: 8.0.0.14

Summary of All Roads and Projects  T.S. Contract Name: Steele Creek Ridge Tract No: 2024.0003 Sale Date: 11  Prepared by: SD Ph: Print Date: 8/28/2023 10:25:46 AM  Construction: 22.03 sta	11/4/2022 L/17/2023
Improve: 58.61 sta Renov: 40.66 sta Decom: 0.00 sta Temp: 0.00 sta	
200 Clearing and Grubbing: 0 acres	\$0.00
300 Excavation:	\$31,217.17
400 Drainage:	\$7,850.67
500 Renovation: Blading 1.09 mi	\$2,846.36
700-1200 Surfacing:	179,193.91
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 3.75 acres	\$3,927.91
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$1,132.58
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$5,200.00 Surf. \$0.00	\$5,200.00
Quarry Development:	\$0.00
Total: = \$2	231,368.60

#### Notes:

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

#### ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023  Road Number: 27-12-27.3 C Road Name:	
Road Construction: 0.14 mi 12 ft Subgrade ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$2,364.07
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.34 acres	\$356.13
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. \$62.54 Surf. \$0.00	\$62.54
Quarry Development:	\$0.00
Total: Notes:	\$2,782.74

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

Road Construction Worksheet

Road Number: 27-12-27.3 C Road Name:

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 7.3 sta = \$250.78 Blading without ditch: \$15.35/station x 7.25 stations = \$111.29

Subgrade Construction

Tractor: D7 with rippers 8 hr x \$250.25/hr = \$2,002.00

Subtotal: \$2,364.07

Section 700-1200 Surfacing:

Surfacing:

Section 1800 Soil Stabilization:

Dry Method with Mulch:  $$727.44/acre \times 0.34 acres = $247.33$ 

Includes Small Quantity Factor of 1.38

+ Mulch Cost: \$320.00/acre x 0.34 acres = \$108.80

Subtotal: \$356.13

Mobilization:

Construction - 1.20% of total Costs = \$62.54

Subtotal: \$62.54

Total: \$2,782.74

#### ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023  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:	\$0.00
500 Renovation:	\$1,417.00
700-1200 Surfacing:	\$19,330.65
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. \$489.19 Surf. \$0.00	\$489.19
Quarry Development:	\$0.00
Total:	\$21,765.88

#### Notes:

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"

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

Rock Volume = 645.00 LCY

Purchase Price / Royalty: \$13.75/LCY x 645.00 LCY = \$8,868.75

Processing:  $$1.20/LCY \times 645.00 LCY = $774.00$ Compaction:  $$1.38/LCY \times 645.00 LCY = $890.10$ 

COMPACTION, \$1.50/LCT & 045.00 LCT - \$090.10

Basic Rock Haul cost:  $$0.81/LCY \times 645.00 LCY = $522.45$ 

Rock Haul +15% grades:  $$2.43/LCY-mi \times 645.00 LCY \times 2.00 mi= $3,134.70$ Rock Haul -15% grades:  $$1.21/LCY-mi \times 645.00 LCY \times 2.00 mi= $1,560.90$ 

Noch Hard -13% grades, vi.21/Let-mi. a 95.00 Ect & 2.00 mi- \$1,500.90

Rock Haul St& Co Roads:  $$0.54/LCY-mi \times 645.00 LCY \times 6.00 mi = $2,089.80$ 

Basic Water Haul cost:  $$0.79/LCY \times 645.00 LCY = $509.55$ 

Water Haul +15% grades:  $$0.34/LCY-mi \times 645.00 LCY \times 2.00 mi= $438.60$ 

Water Haul -15% grades:  $$0.17/LCY-mi \times 645.00 LCY \times 2.00 mi= $219.30$ 

Water Haul St&Co Roads: \$0.10/LCY-mi x 645.00 LCY x 5.00 mi= \$322.50

Subtotal: \$19,330.65

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 - 9.41% of total Costs = \$489.19

Subtotal: \$489.19

Total: \$21,765.88

#### ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023  Road Number: 27-12-28.1 C1 Road Name:	
Road Construction: 0.05 mi 16 ft Subgrade ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$885.59
400 Drainage:  Culvert: 0.00 lf  DownSpout: 0.00 lf  PolyPipe: 0.00 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$5,058.54
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.12 acres	\$125.69
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. \$139.56 Surf. \$0.00	\$139.56
Quarry Development:	\$0.00
Total:	\$6,209.38

#### Notes:

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 C1 Road Name:

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 2.7 sta = \$93.39 Blading without ditch: \$15.35/station x 2.70 stations = \$41.45

Subgrade Construction

Tractor: D7 with rippers 3 hr x \$250.25/hr = \$750.75

Subtotal: \$885.59

Section 700-1200 Surfacing:

Commercial Quarry Name: Hervey 3-0"

0.05mi 12ft 13.33ft 4in

Rock Volume = 55.00 LCY

Purchase Price / Royalty: \$12.90/LCY x 55.00 LCY = \$709.50

Processing:  $$1.20/LCY \times 55.00 LCY = $66.00$ Compaction:  $$1.38/LCY \times 55.00 LCY = $75.90$ 

Basic Rock Haul cost:  $$0.81/LCY \times 55.00 LCY = $44.55$ 

Rock Haul +15% grades: \$2.43/LCY-mi x 55.00 LCY x 2.00 mi= \$267.30

Rock Haul -15% grades:  $$1.21/LCY-mi \times 55.00 LCY \times 2.00 mi= $133.10$ 

Rock Haul St& Co Roads: \$0.54/LCY-mi x 55.00 LCY x 6.00 mi= \$178.20

Basic Water Haul cost:  $$0.79/LCY \times 55.00 LCY = $43.45$ 

Water Haul +15% grades:  $$0.34/LCY-mi \times 55.00 LCY \times 2.00 mi = $37.40$ 

Water Haul -15% grades:  $\$0.17/LCY-mi \times 55.00 LCY \times 2.00 mi = \$18.70$ 

Water Haul St&Co Roads: \$0.10/LCY-mi x 55.00 LCY x 5.00 mi= \$27.50

Commercial Quarry Name: Hervey 6-0"

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

0.05mi 13.33ft 16ft 8in

Rock Volume = 127.00 LCY

Purchase Price / Royalty: \$11.00/LCY x 127.00 LCY = \$1,397.00

Processing:  $$1.20/LCY \times 127.00 LCY = $152.40$ 

Compaction:  $$1.38/LCY \times 127.00 LCY = $175.26$ 

Basic Rock Haul cost: \$0.81/LCY x 127.00 LCY = \$102.87

Rock Haul +15% grades: \$2.43/LCY-mi x 127.00 LCY x 2.00 mi= \$617.22

Rock Haul -15% grades:  $$1.21/LCY-mi \times 127.00 LCY \times 2.00 mi= $307.34$ 

Rock Haul St& Co Roads: \$0.54/LCY-mi x 127.00 LCY x 6.00 mi= \$411.48

Basic Water Haul cost:  $$0.79/LCY \times 127.00 LCY = $100.33$ 

Water Haul +15% grades:  $$0.34/LCY-mi \times 127.00 LCY \times 2.00 mi= $86.36$ 

Water Haul -15% grades: \$0.17/LCY-mi x 127.00 LCY x 2.00 mi= \$43.18

Water Haul St&Co Roads:  $$0.10/LCY-mi \times 127.00 LCY \times 5.00 mi = $63.50$ 

Subtotal: \$5,058.54

Section 1800 Soil Stabilization:

Dry Method with Mulch:  $$727.44/acre \times 0.12 acres = $87.29$ 

Includes Small Quantity Factor of 1.38

+ Mulch Cost: \$320.00/acre x 0.12 acres = \$38.40

Subtotal: \$125.69

Mobilization:

Construction - 2.68% of total Costs = \$139.56

Subtotal: \$139.56

Total: \$6,209.38

#### ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023  Road Number: 27-12-28.1 C2 Road Name:	
Road Construction: 0.23 mi 16 ft Subgrade ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$4,363.02
400 Drainage:	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$23,485.40
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.56 acres	\$586.57
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. \$653.77 Surf. \$0.00	\$653.77
Quarry Development:	\$0.00
Total: Notes:	\$29,088.76

#### Notes:

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 C2 Road Name: Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 12.2 sta = \$422.00Blading without ditch: \$15.35/station x 12.20 stations = \$187.27Subgrade Construction Tractor: D7 with rippers 15 hr x \$250.25/hr = \$3,753.75Subtotal: \$4,363.02 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 3-0" Comment: OTHER LCY FOR TURN OUT AND LZ  $\frac{\text{Length}}{\text{0.23mi}} \; \frac{\text{TopW}}{\text{12ft}} \qquad \frac{\text{BotW}}{\text{13.33ft}} \; \frac{\text{Depth}}{\text{4in}} \; \frac{\text{CWid}}{\text{1\$}} \qquad \frac{\#\text{TOs}}{\text{1\$}} \; \frac{\text{Width}}{\text{f.W.L}} \; \frac{\text{F.W.L}}{\text{Taper}} \qquad \frac{\text{Other}}{\text{Other}}$ Rock Volume = 255.00 LCY Purchase Price / Royalty:  $$12.90/LCY \times 255.00 LCY = $3,289.50$ Processing:  $$1.20/LCY \times 255.00 LCY = $306.00$ Compaction:  $$1.38/LCY \times 255.00 LCY = $351.90$ Basic Rock Haul cost: \$0.81/LCY x 255.00 LCY = \$206.55 Rock Haul +15% grades: \$2.43/LCY-mi x 255.00 LCY x 2.00 mi= \$1,239.30 Rock Haul -15% grades: \$1.21/LCY-mi x 255.00 LCY x 2.00 mi= \$617.10 Rock Haul St& Co Roads: \$0.54/LCY-mi x 255.00 LCY x 6.00 mi= \$826.20 Basic Water Haul cost:  $$0.79/LCY \times 255.00 LCY = $201.45$ Water Haul +15% grades: \$0.34/LCY-mi x 255.00 LCY x 2.00 mi= \$173.40 Water Haul -15% grades:  $\$0.17/LCY-mi \times 255.00 LCY \times 2.00 mi = \$86.70$ Water Haul St&Co Roads: \$0.10/LCY-mi x 255.00 LCY x 5.00 mi= \$127.50 Commercial Quarry Name: Hervey 6-0" Comment: OTHER LCY FOR TURN OUT AND LZ Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.23mi 13.33ft 16ft 8in 1% Rock Volume = 590.00 LCY Purchase Price / Royalty:  $$11.00/LCY \times 590.00 LCY = $6,490.00$ Processing:  $$1.20/LCY \times 590.00 LCY = $708.00$ Compaction:  $$1.38/LCY \times 590.00 LCY = $814.20$ Basic Rock Haul cost:  $$0.81/LCY \times 590.00 LCY = $477.90$ Rock Haul +15% grades: \$2.43/LCY-mi x 590.00 LCY x 2.00 mi= \$2,867.40 Rock Haul -15% grades: \$1.21/LCY-mi x 590.00 LCY x 2.00 mi= \$1,427.80 Rock Haul St& Co Roads: \$0.54/LCY-mi x 590.00 LCY x 6.00 mi= \$1,911.60 Basic Water Haul cost:  $$0.79/LCY \times 590.00 LCY = $466.10$ Water Haul +15% grades: \$0.34/LCY-mi x 590.00 LCY x 2.00 mi= \$401.20 Water Haul -15% grades:  $\$0.17/LCY-mi \times 590.00 LCY \times 2.00 mi= \$200.60$ Water Haul St&Co Roads: \$0.10/LCY-mi x 590.00 LCY x 5.00 mi= \$295.00 Subtotal: \$23,485.40 Section 1800 Soil Stabilization: Dry Method with Mulch:  $$727.44/acre \times 0.56 acres = $407.37$ Includes Small Quantity Factor of 1.38 + Mulch Cost: \$320.00/acre x 0.56 acres = \$179.20 Subtotal: \$586.57 Mobilization: Construction - 12.57% of total Costs = \$653.77 Subtotal: \$653.77

Total: \$29,088.76

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023  Road Number: 27-12-28.1 I1 Road Name:	
Road Improvement: 0.32 mi 16 ft Subgrade 2 ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$3,845.07
500 Renovation: Blading 0.32 mi	\$1,429.36
700-1200 Surfacing:	\$34,383.60
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.80 acres	\$837.96
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.80 acres	\$603.54
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$944.95 Surf. \$0.00	\$944.95
Quarry Development:	\$0.00
Total: Notes:	\$42,044.47

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

```
Road Number: 27-12-28.1 I1 Road Name:
Section 400 Drainage:
                                                 18 inch 40 lf x $50.07/1f = $2,002.80
 Poly Pipe
                   5+20 NEW CPP
  CPP AT 5+20 WASTE AT 7+65
   Excavator - Large (3 CY) 5 \text{ hr x } \$166.61/\text{hr} = \$833.05
   Dump Truck 10 cy 5 \text{ hr x } \$103.09/\text{hr} = \$515.45
   Trash Pump 5 \text{ hr x } \$59.94/\text{hr} = \$299.70
   Tamper - handheld 3 hr x $64.69/hr = $194.07
                                                                     Subtotal: $3,845.07
Section 500 Renovation:
 Blading: $923.61/mi \times 0.32 mi = $295.56
  Compaction: $415.02/mi \times 0.32 mi = $132.81
 SUBGRADE RENOVATION
   Tractor: D7 with rippers 4 \text{ hr x } $250.25/\text{hr} = $1,001.00
                                                                     Subtotal: $1,429.36
Section 700-1200 Surfacing:
Commercial Quarry Name: Hervey 3-0"
  Length TopW
                BotW
                          Depth CWid #TOs Width F.W.L Taper Other
                 13.33ft 4in 3%
  0.32mi 12ft
 Rock Volume = 362.00 LCY
 Purchase Price / Royalty: $12.90/LCY \times 362.00 LCY = $4,669.80
 Processing: $1.20/LCY \times 362.00 LCY = $434.40
 Compaction: $1.38/LCY \times 362.00 LCY = $499.56
 Basic Rock Haul cost: $0.81/LCY x 362.00 LCY = $293.22
 Rock Haul +15% grades: $2.43/LCY-mi x 362.00 LCY x 2.00 mi= $1,759.32
 Rock Haul -15% grades: $1.21/LCY-mi x 362.00 LCY x 2.00 mi= $876.04
 Rock Haul St& Co Roads: $0.54/LCY-mi x 362.00 LCY x 6.00 mi= $1,172.88
 Basic Water Haul cost: $0.79/LCY \times 362.00 LCY = $285.98
 Water Haul +15% grades: $0.34/LCY-mi x 362.00 LCY x 2.00 mi= $246.16
 Water Haul -15\% grades: \$0.17/LCY-mi \times 362.00 LCY \times 2.00 mi= \$123.08
 Water Haul St&Co Roads: $0.10/LCY-mi x 362.00 LCY x 5.00 mi= $181.00
Commercial Quarry Name: Hervey 6-0"
 Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other
  0.32mi 13.33ft 16ft
                          8in 3%
 Rock Volume = 838.00 LCY
 Purchase Price / Royalty: $11.00/LCY x 838.00 LCY = $9,218.00
 Processing: $1.20/LCY \times 838.00 LCY = $1,005.60
 Compaction: $1.38/LCY \times 838.00 LCY = $1,156.44
 Basic Rock Haul cost: $0.81/LCY \times 838.00 LCY = $678.78
 Rock Haul +15% grades: $2.43/LCY-mi \times 838.00 LCY \times 2.00 mi= $4,072.68
 Rock Haul -15% grades: $1.21/LCY-mi x 838.00 LCY x 2.00 mi= $2,027.96
 Rock Haul St& Co Roads: $0.54/LCY-mi \times 838.00 LCY \times 6.00 mi= $2,715.12
 Basic Water Haul cost: $0.79/LCY \times 838.00 LCY = $662.02
 Water Haul +15% grades: $0.34/LCY-mi x 838.00 LCY x 2.00 mi= $569.84
 Water Haul -15% grades: $0.17/LCY-mi x 838.00 LCY x 2.00 mi= $284.92
 Water Haul St&Co Roads: $0.10/LCY-mi x 838.00 LCY x 5.00 mi= $419.00
Commercial Quarry Name: Hervey Rip Rap
 Comment: Inlet and Outlet Protection for CPP at 5+20
  Length TopW
                BotW
                         Depth CWid #TOs Width F.W.L Taper
                                                                    Other
  0.00mi
                                                                     10 LCY
 Rock Volume = 10.00 LCY
 Purchase Price / Royalty: $15.80/LCY x 10.00 LCY = $158.00
 Processing: $1.20/LCY \times 10.00 LCY = $12.00
  Compaction: $1.38/LCY \times 10.00 LCY = $13.80
 Basic Rock Haul cost: $0.81/LCY \times 10.00 LCY = $8.10
```

Rock Haul +15% grades: \$2.43/LCY-mi x 10.00 LCY x 2.00 mi= \$48.60

Road Number: 27-12-28.1 I1 Continued

Rock Haul -15% grades:  $$1.21/LCY-mi \times 10.00 LCY \times 2.00 mi = $24.20$  Rock Haul St& Co Roads:  $$0.54/LCY-mi \times 10.00 LCY \times 6.00 mi = $32.40$ 

Basic Water Haul cost:  $$0.79/LCY \times 10.00 LCY = $7.90$ 

Water Haul +15% grades:  $$0.34/LCY-mi \times 10.00 LCY \times 2.00 mi= $6.80$  Water Haul -15% grades:  $$0.17/LCY-mi \times 10.00 LCY \times 2.00 mi= $3.40$  Water Haul St&Co Roads:  $$0.10/LCY-mi \times 10.00 LCY \times 5.00 mi= $5.00$ 

Commercial Quarry Name: Hervey - Pit Run

Rock Volume = 30.00 LCY

Purchase Price / Royalty:  $\$7.50/LCY \times 30.00 LCY = \$225.00$ 

Processing:  $$1.20/LCY \times 30.00 LCY = $36.00$ Compaction:  $$1.38/LCY \times 30.00 LCY = $41.40$ 

Basic Rock Haul cost:  $$0.81/LCY \times 30.00 LCY = $24.30$ 

Rock Haul +15% grades:  $$2.43/LCY-mi \times 30.00 LCY \times 2.00 mi= $145.80 Rock Haul -15% grades: <math>$1.21/LCY-mi \times 30.00 LCY \times 2.00 mi= $72.60 Rock Haul St& Co Roads: <math>$0.54/LCY-mi \times 30.00 LCY \times 6.00 mi= $97.20$ 

Basic Water Haul cost:  $$0.79/LCY \times 30.00 LCY = $23.70$ 

Water Haul +15% grades: \$0.34/LCY-mi x 30.00 LCY x 2.00 mi= \$20.40 Water Haul -15% grades: \$0.17/LCY-mi x 30.00 LCY x 2.00 mi= \$10.20 Water Haul St&Co Roads: \$0.10/LCY-mi x 30.00 LCY x 5.00 mi= \$15.00

Subtotal: \$34,383.60

Section 1800 Soil Stabilization:

Dry Method with Mulch:  $$727.44/acre \times 0.80 acres = $581.96$ 

Includes Small Quantity Factor of 1.38

+ Mulch Cost:  $$320.00/acre \times 0.80 acres = $256.00$ 

Subtotal: \$837.96

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Heavy: \$754.42/acre x 0.80 acres = \$603.54

Subtotal: \$603.54

Mobilization:

Construction - 18.17% of total Costs = \$944.95

Subtotal: \$944.95

Total: \$42,044.47

#### ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023  Road Number: 27-12-28.1 I2 Road Name:  Road Improvement: 0.35 mi 16 ft Subgrade ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$9,931.89
400 Drainage:  Culvert: 0.00 lf  DownSpout: 0.00 lf  PolyPipe: 0.00 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$40,242.30
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.85 acres	\$890.33
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. \$1,174.06 Surf. \$0.00	\$1,174.06
Quarry Development:	\$0.00
Total: Notes:	\$52,238.58

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 I2 Road Name: Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 18.5 sta = \$639.22Blading without ditch: \$15.35/station x 18.48 stations = \$283.67Subgrade Improvement Tractor: D7 with rippers 36 hr x \$250.25/hr = \$9,009.00Subtotal: \$9,931.89 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 3-0" Comment: Other LCY for LZ Other Rock Volume = 407.00 LCY Purchase Price / Royalty:  $$12.90/LCY \times 407.00 LCY = $5,250.30$ Processing:  $$1.20/LCY \times 407.00 LCY = $488.40$ Compaction:  $$1.38/LCY \times 407.00 LCY = $561.66$ Basic Rock Haul cost: \$0.81/LCY x 407.00 LCY = \$329.67 Rock Haul +15% grades: \$2.43/LCY-mi x 407.00 LCY x 2.00 mi= \$1,978.02 Rock Haul -15% grades: \$1.21/LCY-mi x 407.00 LCY x 2.00 mi= \$984.94 Rock Haul St& Co Roads: \$0.54/LCY-mi x 407.00 LCY x 6.00 mi= \$1,318.68 Basic Water Haul cost:  $$0.79/LCY \times 407.00 LCY = $321.53$ Water Haul +15% grades: \$0.34/LCY-mi x 407.00 LCY x 2.00 mi= \$276.76 Water Haul -15% grades:  $\$0.17/LCY-mi \times 407.00 LCY \times 2.00 mi= \$138.38$ Water Haul St&Co Roads:  $$0.10/LCY-mi \times 407.00 LCY \times 5.00 mi= $203.50$ Commercial Quarry Name: Hervey 6-0" Comment: Other LCY for LZ Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.35mi 13.33ft 16ft 100 LCY 8in 6% Rock Volume = 1,043.00 LCY Purchase Price / Royalty: \$11.00/LCY x 1,043.00 LCY = \$11,473.00 Processing:  $$1.20/LCY \times 1,043.00 LCY = $1,251.60$ Compaction:  $$1.38/LCY \times 1,043.00 LCY = $1,439.34$ Basic Rock Haul cost: \$0.81/LCY x 1,043.00 LCY = \$844.83 Rock Haul +15% grades: \$2.43/LCY-mi x 1,043.00 LCY x 2.00 mi= \$5,068.98 Rock Haul -15% grades: \$1.21/LCY-mi x 1,043.00 LCY x 2.00 mi= \$2,524.06 Rock Haul St& Co Roads: \$0.54/LCY-mi x 1,043.00 LCY x 6.00 mi= \$3,379.32 Basic Water Haul cost: \$0.79/LCY x 1,043.00 LCY = \$823.97 Water Haul +15% grades: \$0.34/LCY-mi x 1,043.00 LCY x 2.00 mi= \$709.24 Water Haul -15% grades: \$0.17/LCY-mi x 1,043.00 LCY x 2.00 mi= \$354.62 Water Haul St&Co Roads: \$0.10/LCY-mi x 1,043.00 LCY x 5.00 mi= \$521.50 Subtotal: \$40,242.30 Section 1800 Soil Stabilization: Dry Method with Mulch:  $$727.44/acre \times 0.85 acres = $618.33$ Includes Small Quantity Factor of 1.38 + Mulch Cost: \$320.00/acre x 0.85 acres = \$272.00 Subtotal: \$890.33

Mobilization:

Construction - 22.58% of total Costs = \$1,174.06

Subtotal: \$1,174.06

Total: \$52,238.58

#### ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023  Road Number: 27-12-28.1 I3 Road Name:	
Road Improvement: 0.44 mi 16 ft Subgrade ft ditch 200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$13,672.61
400 Drainage:  Culvert: 0.00 lf  DownSpout: 0.00 lf  PolyPipe: 80.00 lf	\$4,005.60
500 Renovation:	\$0.00
700-1200 Surfacing:	\$56,693.42
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.08 acres	\$1,131.24
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. \$1,735.94 Surf. \$0.00	\$1,735.94
Quarry Development:	\$0.00
Total:	\$77,238.80
Notes:	

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 I3 Road Name: Section 300 Excavation: Subgrade Compaction: 4 Sta/hr  $$34.59/sta. \times 23.2 sta = $803.53$ Blading without ditch: \$15.35/station x 23.23 stations = \$356.58Subgrade Improvement Tractor: D7 with rippers 50 hr x \$250.25/hr = \$12,512.50Subtotal: \$13,672.61 Section 400 Drainage: Poly Pipe Subtotal: \$4,005.60 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 3-0" Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.44mi 12ft 13.33ft 4in 9% Rock Volume = 527.00 LCY Purchase Price / Royalty:  $$12.90/LCY \times 527.00 LCY = $6,798.30$ Processing:  $$1.20/LCY \times 527.00 LCY = $632.40$ Compaction:  $$1.38/LCY \times 527.00 LCY = $727.26$ Basic Rock Haul cost: \$0.81/LCY x 527.00 LCY = \$426.87 Rock Haul +15% grades: \$2.43/LCY-mi x 527.00 LCY x 2.00 mi= \$2,561.22 Rock Haul -15% grades: \$1.21/LCY-mi x 527.00 LCY x 2.00 mi= \$1,275.34 Rock Haul St& Co Roads: \$0.54/LCY-mi x 527.00 LCY x 6.00 mi= \$1,707.48 Basic Water Haul cost:  $$0.79/LCY \times 527.00 LCY = $416.33$ Water Haul +15% grades: \$0.34/LCY-mi x 527.00 LCY x 2.00 mi= \$358.36 Water Haul -15% grades:  $$0.17/LCY-mi \times 527.00 LCY \times 2.00 mi= $179.18$ Water Haul St&Co Roads: \$0.10/LCY-mi x 527.00 LCY x 5.00 mi= \$263.50 Commercial Quarry Name: Hervey 6-0" Comment: Other LCY for Approach and LZ Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other  $\overline{0.44\text{mi}}$   $\overline{13.3}$ 3ft  $\overline{16\text{ft}}$ 8in 300 LCY Rock Volume = 1,519.00 LCY Purchase Price / Royalty: \$11.00/LCY x 1,519.00 LCY = \$16,709.00 Processing:  $$1.20/LCY \times 1,519.00 LCY = $1,822.80$ Compaction:  $$1.38/LCY \times 1,519.00 LCY = $2,096.22$ Basic Rock Haul cost:  $$0.81/LCY \times 1,519.00 LCY = $1,230.39$ Rock Haul +15% grades: \$2.43/LCY-mi x 1,519.00 LCY x 2.00 mi= \$7,382.34 Rock Haul -15% grades: \$1.21/LCY-mi x 1,519.00 LCY x 2.00 mi= \$3,675.98 Rock Haul St& Co Roads: \$0.54/LCY-mi x 1,519.00 LCY x 6.00 mi= \$4,921.56 Basic Water Haul cost: \$0.79/LCY x 1,519.00 LCY = \$1,200.01 Water Haul +15% grades:  $$0.34/LCY-mi \times 1,519.00 LCY \times 2.00 mi= $1,032.92$ Water Haul -15% grades:  $$0.17/LCY-mi \times 1,519.00 LCY \times 2.00 mi= $516.46$ Water Haul St&Co Roads: \$0.10/LCY-mi x 1,519.00 LCY x 5.00 mi= \$759.50 Subtotal: \$56,693.42 Section 1800 Soil Stabilization: Dry Method with Mulch:  $$727.44/acre \times 1.08 acres = $785.64$ Includes Small Quantity Factor of 1.38 + Mulch Cost: \$320.00/acre x 1.08 acres = \$345.60 Subtotal: \$1,131.24

Mobilization:

Construction - 33.38% of total Costs = \$1,735.94

Subtotal: \$1,735.94

Total: \$77,238.80

Road Number: 27-12-28.1 I3 Continued

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Steele Creek Ridge Sale Date: 11/17/2023

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 <= D7: 1 ea x (1.00 x \$856.00/ea + 0 mi x \$48.94/mi) = \$856.00 Dump Truck<=15cy: 1 ea x (1.00 x \$124.00/ea + 0 mi x \$5.15/mi) = \$124.00 Water Truck: 1 ea x (1.00 x \$131.00/ea + 0 mi x \$5.47/mi) = \$131.00

Equipment Washing: 7 ea x (\$250.00) /ea = \$1,750.00

Subtotal: \$5,200.00

Mobilization: Surfacing

Subtotal: \$0.00

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

# Summary of Construction Quantities

T.S. Contract Name	e: Steele	Creek Ric	lge S	ale Da	ate: 1	1/17	7/20	)23					
Road Number 27-12-27.3 C	Const 7.25	Improv	F	lenov	Dec	omm		T	emp				
27-12-27.3 C 27-12-28.0 R	1.25		/	0.66									
27-12-28.0 K 27-12-28.1 C1	2.64		7	0.00									
27-12-28.1 C2	12.14												
27-12-28.1 I1	12.11	16.9											
27-12-28.1 I2		18.48											
27-12-28.1 I3		23.23											
_													
Total Sta:	22.03	58.61	4	0.66									
200 Clearing and (	Grubbing*			ring									
27-12-27.3 C			acre	0.0									
27-12-27.3 C 27-12-28.0 R				0.0									
27-12-28.1 C1				0.0									
27-12-28.1 C2				0.0									
27-12-28.1 I1				0.0									
27-12-28.1 I2				0.0									
27-12-28.1 I3				0.0									
Costs for Clearin		Totals: obing inc	luded	0.00 in Ex	cavat	Lon.							
200			П		II.a	7		TT	1				
300 Excavation				cav	Ha sta-			Hau					
			T	CY.s	sta-	yus		Уq	-1111				
		Totals:		0		——————————————————————————————————————			0				
Subgrade Constr													
Subgrade Constru Tractor: D7	uction 2	7-12-28.1								 •			15 hr
Tractor: D7 Subgrade Constru	uction 2 with ripp uction 2	7-12-28.1 ers 7-12-28.1	 L C2 	0			_	· · ·		•			15 hr
Tractor: D7 Subgrade Constru Tractor: D7	uction 2 with ripp uction 2 with ripp	7-12-28.1 ers 7-12-28.1	 L C2 	0				уо 	0				15 hr 3 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru	uction 2 with ripp uction 2 with ripp uction 2	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3	C2	0					0				
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7	uction 2 with ripp uction 2 with ripp uction 2 with ripp	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers	C2	0					0	 		•	
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve	uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers -12-28.1	C2	· · · · · · · · · · · · · · · · · · ·		0			•	•	•		3 hr 8 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7	uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers -12-28.1 ers	C2	· · · · · · · · · · · · · · · · · · ·		0			•	•	•		3 hr 8 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve	uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers -12-28.1 ers	C2	· · · · · · · · · · · · · · · · · · ·		0			•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7	uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers -12-28.1 ers	C2	· · · · · · · · · · · · · · · · · · ·		0			•	•			3 hr 8 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7	uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers -12-28.1 ers	C2	· · · · · · · · · · · · · · · · · · ·		0			•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve	uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers -12-28.1 ers	C2	· · · · · · · · · · · · · · · · · · ·		0			•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7	uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers -12-28.1 ers	C2	· · · · · · · · · · · · · · · · · · ·		0			•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7	with ripp uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27 with ripp  CMP Cul 0 1	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers	C2	0 		0 · · · · · · · · · · · · · · · · · · ·			•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7	with ripp uction 2 with ripp uction 2 with ripp uction 27 with ripp ement 27 with ripp ement 27 with ripp ement 27	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers	C2	0  		0 · · · · · · · · · · · · · · · · · · ·			•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7	with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27 with ripp community	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers	C2	0		0 · · · · · · · · · · · · · · · · · · ·			•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7  Subgrade Improve Tractor: D7  400 Drainage  Road Number 27-12-28.1 I1 27-12-28.1 I3  Total Drainage:	with ripp uction 2 with ripp uction 2 with ripp uction 27 with ripp ement 27 with ripp ement 27 with ripp  CMP Cul 0 1 0 1	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers	C2		Dow	0	outs		•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7  400 Drainage  Road Number 27-12-28.1 I1 27-12-28.1 I3  Total Drainage: Culvert Qty	with ripp uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27 with ripp  CMP Cul 0 1 0 1 ———— Alumin	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers	C2 C1 C1 C3 C C1 C3 C C4 C4 C5		Dow	0 · · · · · · · · · · · · · · · · · · ·	outs		•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7  400 Drainage  Road Number 27-12-28.1 I1 27-12-28.1 I3  Total Drainage:  Culvert Qty 12 inch	with ripp uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27 with ripp  CMP Cul 0 1 0 1 ———— Alumin 0 1f	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers  vert f f f ized G	C2 C1 C1 C3 C C1 C3 C C2 C4 C4 C5	pes lf lf ized f	Dow	0 0	outs		•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7  400 Drainage  Road Number 27-12-28.1 I1 27-12-28.1 I3  Total Drainage: Culvert Qty	with ripp uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27 with ripp  CMP Cul 0 1 0 1 ———— Alumin	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers  vert f f f	C2 C1 C1 C3 C C1 C3 C C4 C4 C5	pes lf lf ized f f	Dow	0 0	outs of the pe		•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7  400 Drainage  Road Number 27-12-28.1 I1 27-12-28.1 I3  Total Drainage:  Culvert Qty 12 inch 18 inch	with ripp uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27 with ripp  CMP Cul 0 1 0 1 Alumin 0 1f 0 1f	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers	C2	pes lf lf ized f f	Dow	0 0	outs lf lf		•	•			3 hr 8 hr 50 hr
Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Constru Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7 Subgrade Improve Tractor: D7  400 Drainage  Road Number 27-12-28.1 I1 27-12-28.1 I3  Total Drainage:  Culvert Qty 12 inch 18 inch 24 inch	with ripp uction 2 with ripp uction 2 with ripp uction 2 with ripp ement 27 with ripp ement 27 with ripp  CMP Cul 0 1 0 1 0 1 0 1f 0 1f 0 1f	7-12-28.1 ers 7-12-28.1 ers 7-12-27.3 ers12-28.1 ers12-28.1 ers	C2 C1 C1 C3 C C1 C3 C C2 C4 C5 C7	pes lf lf ized f f f f f f	Dow	0 0 0 0 0 0 120 0 1	outs lf lf		•	•			3 hr 8 hr 50 hr

## Spout Oty   Half Round   Full (poly)   Full (galv)   No.   Name: Hervey 6-0"   Calal   Cala						
### Spout Qty   Half Round   Full (poly)   Full (galv)   Roch   O 1f   O						
Neme: Hervey 3-0   Name: Hervey 6-0   Name: Herve	18 inch 0	li	0 lf			
Neme: Hervey 3-0   Name: Hervey 6-0   Name: Herve	)ownspout Otv Half R	ound F	ull (poly)	Full (dal	l v/)	
nch				_		
AT 5+20 WASTE AT 7+65 27-12-28.1 I1  Excavator - Large (3 CY)		lf				
AT 5+20 WASTE AT 7+65 27-12-28.1 I1  Excavator - Large (3 CY)	4 inch 0	lf	0 lf	0 lf		
Excavator - Large (3 CY) Dump Truck 10 cy Trash Pump	) inch			0 lf		
12-28.0 R 12-28.1 II  Totals:  Totals:  1.09  O RADE RENOVATION 27-12-28.1 II  Tractor: D7 with rippers	Excavator - Large ( Dump Truck 10 cy . Trash Pump	3 CY)				
12-28.0 R 12-28.1 II  Totals:  Totals:  1.09  O RADE RENOVATION 27-12-28.1 II  Tractor: D7 with rippers						
Totals: 1.09 0  Totals: 1.09 0  RADE RENOVATION 27-12-28.1 I1  Tractor: D7 with rippers	Renovation			les Slide	-	
Totals: 1.09 0  RADE RENOVATION 27-12-28.1 I1  Tractor: D7 with rippers	27-12-28.0 R 27-12-28.1 I1				-	
### Tractor: D7 with rippers	_, <u> </u>					
Tractor: D7 with rippers					0	
Due to slight rounding differences between total LCY vs. subtotaled Los shown here may not be exactly as shown in the road summaries and work shown here may not be exactly as shown in the road summaries and work name: Hervey - 1.5-0"  Total						
Due to slight rounding differences between total LCY vs. subtotaled Les shown here may not be exactly as shown in the road summaries and work name: Hervey - 1.5-0"  Totals: Roadway Turnouts Other 12-28.0 R 645 0 0 645  Totals: 645 0 0 645  Totals: Roadway Turnouts Other 12-28.1 C1 55 0 0 55 12-28.1 C2 255 0 0 55 12-28.1 T1 362 0 0 362 12-28.1 T1 362 0 0 362 12-28.1 T2 407 0 0 407 12-28.1 T3 527 0 0 527  Totals: 1,606 0 0 1,606  Name: Hervey 6-0"  Totals: Roadway Turnouts Other 12-28.1 C1 127 0 0 127 12-28.1 C2 190 0 0 838 12-28.1 T1 838 0 0 838 12-28.1 T1 838 0 0 838 12-28.1 T2 943 0 100 1,043 12-28.1 T3 1,219 0 300 1,519  Totals: 3,717 0 400 4,117  Name: Hervey Rip Rap 12-28.1 T1 0 0 0 10 10	Tractor: D/ with ri	ppers	• • • • •			
Name: Hervey 3-0"  roial  12-28.1 C1  12-28.1 C2  12-28.1 I1  1362  12-28.1 I2  1362  12-28.1 I3  1362  1362  1362  1362  1362  1362  1362  1362  1363  1362  1363  1363  1363  1363  1364  1365  1366	te: Due to slight round tals shown here may not arry Name: Hervey - 1.5	ling differ be exactl	y as shown	in the road	summaries	
cial     Roadway     Turnouts     Other       12-28.1 C1     55     0     0     55       12-28.1 C2     255     0     0     255       12-28.1 I1     362     0     0     362       12-28.1 I2     407     0     0     407       12-28.1 I3     527     0     0     527       Totals:     1,606     0     0     1,606       Name: Hervey 6-0"     Roadway     Turnouts     Other       12-28.1 C1     127     0     0     127       12-28.1 C2     590     0     0     590       12-28.1 I1     838     0     0     838       12-28.1 I2     943     0     100     1,043       12-28.1 I3     1,219     0     300     1,519       Totals:     3,717     0     400     4,117       Name: Hervey Rip Rap     Roadway     Turnouts     Other       12-28.1 I1     0     0     10     10	e: Due to slight round cals shown here may not arry Name: Hervey - 1.5	ling differ be exactl	y as shown Roadway	in the road Turnouts	summaries Other	and wor
cial     Roadway     Turnouts     Other       12-28.1 C1     55     0     0     55       12-28.1 C2     255     0     0     255       12-28.1 I1     362     0     0     362       12-28.1 I2     407     0     0     407       12-28.1 I3     527     0     0     527       Totals:     1,606     0     0     1,606       Name: Hervey 6-0"     Roadway     Turnouts     Other       12-28.1 C1     127     0     0     127       12-28.1 C2     590     0     0     590       12-28.1 I1     838     0     0     838       12-28.1 I2     943     0     100     1,043       12-28.1 I3     1,219     0     300     1,519       Totals:     3,717     0     400     4,117       Name: Hervey Rip Rap     Roadway     Turnouts     Other       12-28.1 I1     0     0     10     10	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial	ling differ be exactl	y as shown  Roadway 645	Turnouts	other	and wor
12-28.1 C1	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R	ling differ be exactl	y as shown  Roadway 645	Turnouts	other	and wor
12-28.1 C2	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R	ling differ be exactl	y as shown  Roadway 645	Turnouts 0	Other 0	and wor
12-28.1 I1 362 0 0 362 12-28.1 I2 407 0 0 407 12-28.1 I3 527 0 0 0 527  Totals: 1,606 0 0 1,606  Name: Hervey 6-0" cial Roadway Turnouts Other 12-28.1 C1 127 0 0 127 12-28.1 C2 590 0 0 590 12-28.1 I1 838 0 0 838 12-28.1 I1 838 0 0 838 12-28.1 I2 943 0 100 1,043 12-28.1 I3 1,219 0 300 1,519  Totals: 3,717 0 400 4,117  Name: Hervey Rip Rap cial Roadway Turnouts Other 12-28.1 I1 0 0 0 10 10	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial	ling differ be exactl	y as shown  Roadway 645  645  Roadway	Turnouts 0	Other 0 Other	645
12-28.1 I2 12-28.1 I3	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1	ling differ be exactl	y as shown  Roadway 645  645  Roadway 55	Turnouts 0	Other 0 Other 0 Other 0	645 645
Totals: 1,606 0 0 1,606  Name: Hervey 6-0"  Totals: Roadway Turnouts Other  12-28.1 C1 127 0 0 127  12-28.1 C2 590 0 0 590  12-28.1 I1 838 0 0 838  12-28.1 I2 943 0 100 1,043  12-28.1 I3 1,219 0 300 1,519  Totals: 3,717 0 400 4,117  Name: Hervey Rip Rap  Total Roadway Turnouts Other  Totals: 0 0 10 10	te: Due to slight round tals shown here may not arry Name: Hervey - 1.5 mmercial 27-12-28.0 R  arry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 C2	ling differ be exactl	y as shown  Roadway 645  645  Roadway 55 255	Turnouts  0  Turnouts 0  Turnouts 0	Other 0 Other 0 Other 0	and wor 645 645 255
Name: Hervey 6-0"    Cial	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 C2 27-12-28.1 I1	ling differ be exactl	Roadway 645 645 Roadway 55 255 362	Turnouts  0  Turnouts 0  Turnouts 0 0 0	Other  Other  Other  O  Other  O  O  O  O  O  O	and wor 645 645 55 255 362
Name: Hervey 6-0"    Cial	te: Due to slight round tals shown here may not arry Name: Hervey - 1.5 nmercial 27-12-28.0 R  arry Name: Hervey 3-0" nmercial 27-12-28.1 C1	ling differ be exactl	Roadway 645 645 Roadway 55 255 362 407	Turnouts  0  Turnouts 0  0  0  0 0 0	Other  Other  O  Other  O  O  O  O  O  O  O  O  O	645 645 55 255 362 407
Roadway Turnouts   Other   12-28.1 C1	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 C2 27-12-28.1 I1 27-12-28.1 I2	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527	Turnouts  0  Turnouts  0  0  0  0  0  0  0  0 0 0	Other  Other  O  Other  O  O  O  O  O  O  O  O  O  O	and wor 645 645 255 362 407 527
12-28.1 C1	e: Due to slight round als shown here may not arry Name: Hervey - 1.5 mercial 27-12-28.0 R  arry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527	Turnouts  0  Turnouts  0  0  0  0  0  0  0  0 0 0	Other  Other  O  Other  O  O  O  O  O  O  O  O  O  O	and wor 645 645 255 362 407 527
12-28.1 C2 590 0 0 590 12-28.1 I1 838 0 0 838 12-28.1 I2 943 0 100 1,043 12-28.1 I3 1,219 0 300 1,519  Totals: 3,717 0 400 4,117  Name: Hervey Rip Rap cial Roadway Turnouts Other 12-28.1 I1 0 0 10 10	e: Due to slight round als shown here may not arry Name: Hervey - 1.5 mercial 27-12-28.0 R  arry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527	Turnouts  0	Other  Other  O  Other  O  O  O  O  O  O  O  O  O  O	and wor 645 645 255 362 407 527
12-28.1 II 838 0 0 838 12-28.1 I2 943 0 100 1,043 12-28.1 I3 1,219 0 300 1,519 Totals: 3,717 0 400 4,117 **Name: Hervey Rip Rap cial Roadway Turnouts Other 12-28.1 II 0 0 10	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3  rry Name: Hervey 6-0" mercial	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway	Turnouts  O  Turnouts  O  O  Turnouts  O  O  Turnouts	Other  Other  O  Other  O  Other  O  O  Other  O  O  O  Other	645 645 55 255 362 407 527
12-28.1 I2 943 0 100 1,043 1,219 0 300 1,519  Totals: 3,717 0 400 4,117  Name: Hervey Rip Rap  roial Roadway Turnouts Other 12-28.1 I1 0 0 10 10	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3  rry Name: Hervey 6-0" mercial 27-12-28.1 C1	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127	Turnouts  0  Turnouts 0 0  Turnouts 0 0 0 Turnouts	Other  Other  O  Other  O  Other  O  O  Other  O  O  Other  O	and wor 645 645 55 255 362 407 527 1,606
12-28.1 I3	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3  rry Name: Hervey 6-0" mercial 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 C2	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127 590	Turnouts  0  Turnouts 0 0 0  Turnouts 0 0 0 0 Turnouts	Other  O  Other  O  Other  O  O  Other  O  O  O  O  O  O  O  O  O  O  O  O  O	35 645 645 55 255 362 407 527 1,606
Totals: 3,717 0 400 4,117  Name: Hervey Rip Rap cial Roadway Turnouts Other 12-28.1 I1 0 0 10 10	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3  rry Name: Hervey 6-0" mercial 27-12-28.1 C1 27-12-28.1 I1	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838	Turnouts  0  Turnouts  0  0  Turnouts  0  0  Turnouts  0  0  0  0  0  0  0  0  0  0  0  0  0	Other  O  Other  O  Other  O  O  Other  O  O  O  O  O  O  O  O  O  O  O  O  O	35 645 645 55 255 362 407 527 1,606
Name: Hervey Rip Rap Cial Roadway Turnouts Other 12-28.1 I1 0 0 10 10	Le: Due to slight round hals shown here may not harry Name: Hervey - 1.5 mercial 27-12-28.0 R  Arry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3  Arry Name: Hervey 6-0" mercial 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 C2 27-12-28.1 I3	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838 943	Turnouts  0  Turnouts  0  0  Turnouts  0  0  0  Turnouts  0  0  0  0  0  0  0  0  0  0  0  0  0	Other  O  Other  O  O  Other  O  O  O  O  O  O  O  O  O  O  O  O  O	35 445 645 55 255 362 407 527 1,606 127 590 838 1,043
Roadway       Turnouts       Other         12-28.1 I1       0       0       10       10	te: Due to slight round tals shown here may not tals shown here may not tarry Name: Hervey - 1.5 mmercial 27-12-28.0 R  arry Name: Hervey 3-0" mmercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3  arry Name: Hervey 6-0" mmercial 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 I1	ling differ t be exactl 0-0" Totals:	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838 943	Turnouts  0  Turnouts  0  0  Turnouts  0  0  0  Turnouts  0  0  0  0  0  0  0  0  0  0  0  0  0	Other  O  Other  O  O  Other  O  O  O  O  O  O  O  O  O  O  O  O  O	35 445 645 55 255 362 407 527 1,606 127 590 838 1,043
Roadway       Turnouts       Other         12-28.1 I1       0       0       10       10	te: Due to slight round tals shown here may not tals arry Name: Hervey 3-0" nmercial 27-12-28.1 C1 27-12-28.1 I2 27-12-28.1 I3  Tarry Name: Hervey 6-0" nmercial 27-12-28.1 C1 27-12-28.1 C1 27-12-28.1 C2 27-12-28.1 I1 27-12-28.1 I2	<pre>ding differ   be exactl   -0"  Totals:  Totals:</pre>	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838 943 1,219	Turnouts  0  Turnouts  0  0  Turnouts  0  0  0  0  0  Turnouts  0  0  0  0  0  0  0  0  0  0  0  0  0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 445 645 55 255 362 407 527 1,606 127 590 838 1,043 1,519
12-28.1 II 0 0 10 10 10	te: Due to slight round tals shown here may not tals arry Name: Hervey - 1.5 mmercial 27-12-28.1 Cl 27-12-28.1 Il 27-12-28.1 Il 27-12-28.1 Il 27-12-28.1 Cl 27-12-28.1 Cl 27-12-28.1 Cl 27-12-28.1 Il 27	<pre>ding differ   be exactl   -0"  Totals:  Totals:</pre>	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838 943 1,219	Turnouts  0  Turnouts  0  0  Turnouts  0  0  0  0  0  Turnouts  0  0  0  0  0  0  0  0  0  0  0  0  0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 445 645 55 255 362 407 527 1,606 127 590 838 1,043 1,519
	Te: Due to slight round tals shown here may not tals arry Name: Hervey 3-0" tals arry Name: Hervey 3-0" tals arry Name: Hervey 6-0" tals arry Name: Hervey Rip Rarry Name: Hervey Rip Rarr	<pre>ding differ   be exactl   -0"  Totals:  Totals:</pre>	Roadway 645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838 943 1,219	Turnouts  0  0  0  Turnouts 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 445 645 55 255 362 407 527 1,606 127 590 838 1,043 1,519
Totals: 0 0 10 10	Te: Due to slight round tals shown here may not tals arry Name: Hervey 3-0" tals arry Name: Hervey 3-0" tals arry Name: Hervey 6-0" tals arry Name: Hervey Rip Rarry Name: Hervey Rip Rarr	<pre>ding differ   be exactl   -0"  Totals:  Totals:</pre>	y as shown  Roadway 645  645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838 943 1,219  3,717  Roadway	<pre>In the road  Turnouts</pre>	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	127 590 838 1,043 1,519
	e: Due to slight round als shown here may not rry Name: Hervey - 1.5 mercial 27-12-28.0 R  rry Name: Hervey 3-0" mercial 27-12-28.1 C1 27-12-28.1 I1 27-12-28.1 I2 27-12-28.1 I3  rry Name: Hervey 6-0" mercial 27-12-28.1 I3 rry Name: Hervey 6-0" mercial 27-12-28.1 I1 27-12-28.1 I1 27-12-28.1 I1 27-12-28.1 I1 27-12-28.1 I3	<pre>ding differ   be exactl   -0"  Totals:  Totals:</pre>	y as shown  Roadway 645  645  Roadway 55 255 362 407 527  1,606  Roadway 127 590 838 943 1,219  3,717  Roadway	<pre>In the road  Turnouts</pre>	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	127 590 838 1,043 1,519

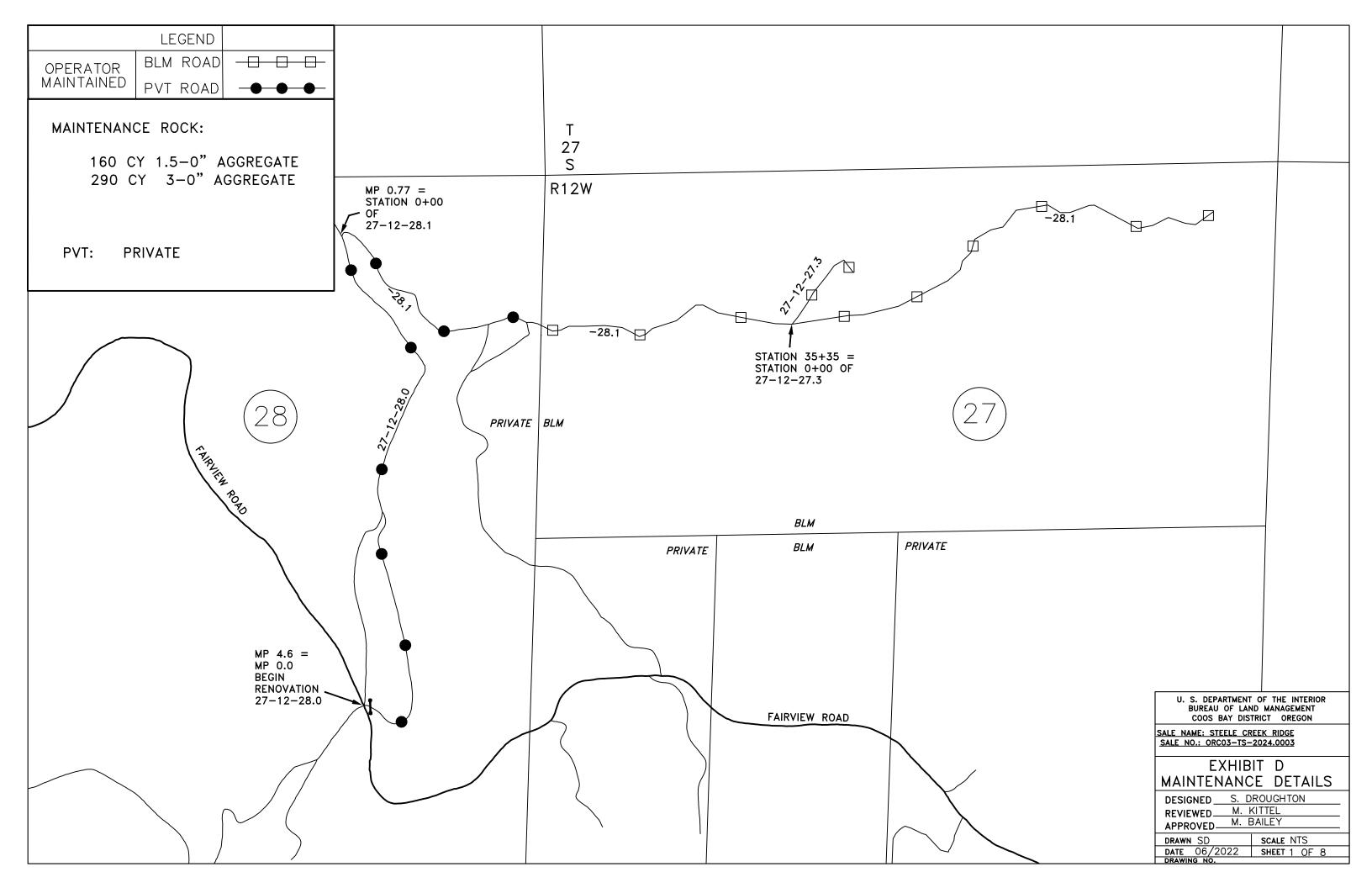
Continuation of Construction Quantities

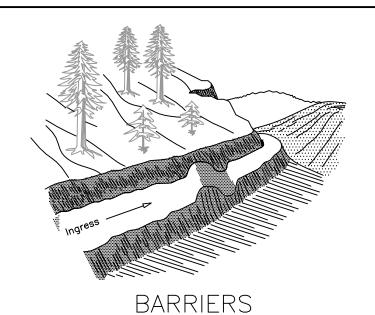
Continuation of Construction Quantities Quarry Name: Hervey - Pit Run Roadway Turnouts Commercial Other 27-12-28.1 I1 30 30 0 0 0 30 Totals: 30 1300 Geotextiles 1400 Slope Protection Totals: 0 су 0 Totals: 1800 Soil stabilization - acres Hydro Dry W/O Dry/with Mulch Mulch Mulch 27-12-27.3 C 0.0 0.0 0.0 27-12-28.1 C1 0.0 0.0 0.0 27-12-28.1 C2 0.0 0.0 0.0 27-12-28.1 I1 0.0 0.0 0.0 27-12-28.1 I2 0.0 0.0 0.0 27-12-28.1 I3 0.0 0.0 0.0 0.00 Totals: 3.75 0.00 Small Quantity Factor of 1.38 used 1900 Cattleguards 2100 RoadSide Brushing acres 27-12-28.0 R - Mechanical Brushing 1.9 27-12-28.1 I1 - Mechanical Brushing 0.8 Totals: 2.67 2300 Engineering stations Totals: 0.00

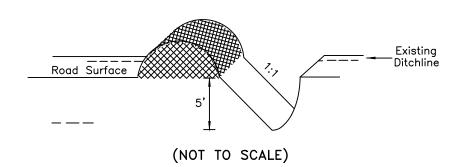
2400 Minor Concrete

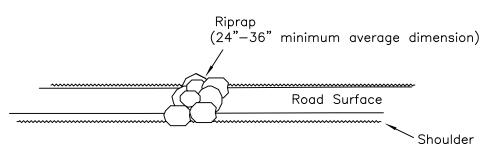
2500 Gabions

8000 Miscellaneous









# NOTES

- 1. ALL BARRIERS, WATER BARS, AND WATER DIPS AS REQUIRED SHALL BE CONSTRUCTED AS SHOWN.
- 2. LOCATIONS WILL BE AS DIRECTED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
- 3. ALL WATER BARS SHALL BE SKEWED 30° 40°.
- 4. ALL WATER DIPS SHALL BE SKEWED 60° 70°.
- 5. ALL WATER BARS AND WATER DIPS SHALL BE CUT INTO THE ROADBED FROM THE BOTTOM OF THE DITCHLINE.
- 6. DITCHLINES SHALL BE BLOCKED WITH EXCAVATED MATERIAL (DITCH DAM) DOWNGRADE FROM ALL WATER BARS AND WATER DIPS.
- 7. EXCAVATED MATERIAL FROM BARRIER TRENCH SHALL BE PLACED ON THE SIDE NEAREST THE BEGINNING OF THE ROAD.

8. OUTLETS OF WATER DIPS MUST BE

9. RIPRAP BARRIERS SHALL BE AT LEAST

WIDTH TO COMPLETELY BLOCK THE

10. ALL BERMS INCLUDING WATER BARS,

4' HIGH, 4' DEEP, AND OF SUFFICIENT

ROADWAY AND ANY ADJACENT SHOULDERS

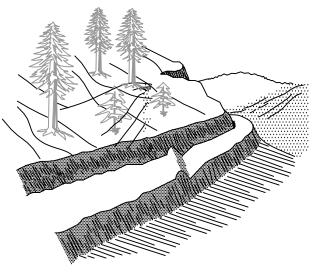
THAT CAN BE TRAVELED WITH A VEHICLE.

WATER DIPS, AND EARTHEN BARRIERS

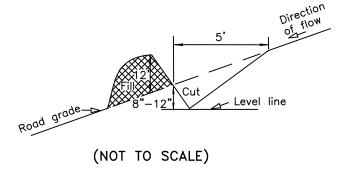
SHALL BE COMPACTED TO 85% OF

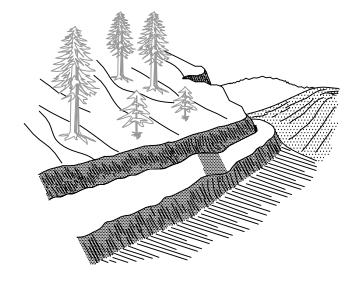
MAXIMUM DENSITY.

ROCKED ON FILL SLOPE.

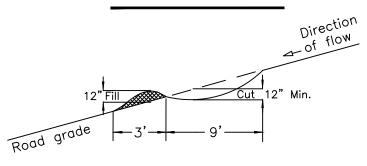


WATER BAR



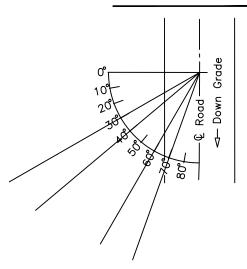


WATER DIP



(NOT TO SCALE)

# SKEW DIAGRAM



WATER	DIP/BAR	<b>SPACING</b>

ROAD GRADE	MAXIMUM SPACING
%	FEET
0-4	500
5-6	400
7–9	300
10-14	100
15-20	50

ALWAYS	
THINK	
<b>\</b> SAFETY	
	/

U.	S. DEPART	MENT OF	THE INTERIOR
	BUREAU OF	LAND M	ANAGEMENT
	COOS BAY	DISTRICT	OREGON

SALE NAME: STEELE CREEK RIDGE SALE NO.: ORCO3-TS-2023.0004

# EROSION CONTROL DETAILS

DESIGNED S. D	ROUGHTON
REVIEWED M. H	KITTEL
	BAILEY
711110122	
drawn SD	SCALE NTS
DATE 06/2022	SHEET 2 OF 8
DRAWING NO.	

# EXHIBIT D ESTIMATE OF QUANTITIES\*

		SURFACI	NG			OTHER		soil stae	BILIZATION	
ROAD NUMBER	AGG MAINT ROCK	AGG MAINT ROCK	AGG MAINT ROCK	WATER DIP ARMOR.	RIPRAP BARRIER	RIPRAP ARMOR	JAWRUN ROCK	DRY	HYDRO	OTHER
SECTION NO.	1000	1200	1000	1000	1400	1400	1000	18	00	N/A
UNITS		CUBIC YA	RDS		С	CUBIC YARD	S	ACF	RES	EACH
27-12-27.3 C										
27-12-28.0 R		C (1.5-0")								
27-12-28.1 C 1	A (3-0")									
27-12-28.1 C 2	,									
27-12-28.1   1	A (3-0")									
27-12-28.1   2	A (3-0")									
27-12-28.1   3	A (3-0")									
TOTAL	290	160								

<sup>\*</sup> FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS. ROCK QUANTITES ARE TRUCK MEASUREMENT.

SIZE	GRADE
3"	А
4"	В
1 ½ "	С
34"	Α
28"	В
<sup>3</sup> / <sub>4</sub> "	S
	3"  4" 1½" 34" 28"

U.	s.	DEF	PAR	ТМ	ENT	OF	TH	E	INTE	RIOF
	BU	REAL	JC	)F	LAN	D N	AAN.	AGE	EMEN	١T
	CC	200	BA	Υ	DIST	RIC	Т	OR	EGOI	N

SALE NAME: STEELE CREEK RIDGE SALE NO.: ORCO3-TS-2024.0003

EXHIBIT D

ESTIMATE OF QUANTITIES

DESIGNED S. DROUGHTON REVIEWED M. KITTEL APPROVED M. BAILEY DRAWN SD SCALE N/A
DATE 06/2022 SHEET 3 OF 8
DRAWING NO.



# ROAD MAINTENANCE APPRAISAL

SALE NO.	SALE NAME:

ORCO3-TS-2024.0003 STEELE CREEK RIDGE TS

ROAD NUMBERS	MILES	
07 40 07 7 0	0.44	
27-12-27.3 C	0.14	
27-12-28.0 R	0.77	
27-12-28.1 C 1	0.05	
27-12-28.1 C 2	0.23	
27-12-28.1 I 1	0.32	
27-12-28.1 I 2	0.35	
27-12-28.1 I 3	0.44	

Total 2.3 MILES

#### -SUMMARY-

1.	MOVE IN:	\$1,577.00
2.	CULVERTS, SLOUGH, SLUMPS, & MISC	\$1,859.78
3.	GRADING FOR TIMBER HAUL	\$1,953.25
4.	GRADING FOR AGGREGATE HAUL	
5.	MAINTENANCE ROCK	\$10,353.50
6.	OTHER MAINTENANCE	\$777.98

TOTAL MAINTENANCE: \$16,521.51

#### ROAD MAINTENANCE APPRAISAL

SALE NO. ORC03-TS-2024.0003

# SALE NAME:

STEELE CREEK RIDGE TS

#### -APPRAISAL WORKSHEET-

			-AP	PRAIS	AL	WORKSHEET-		
1.	MOVE-IN:							
	EQUIPMENT				ı	MOVE-INS	COST/MOVE	
	DIIMD TOUGK					1	¢120.00	¢120.00
	DUMP TRUCK					1	•	\$129.00
	COMPACTOR					1	•	\$528.00
	GRADER					1	·	\$528.00
	BACKHOE W/ FE LO	ADER				1	· · · · · · · · · · · · · · · · · · ·	\$392.00
							TOTAL =	\$1,577.00
2.	CULVERT MAINT., SL	OUGH	REMC	VAL,	SLU	IMP REPAIRS,	ETC.	
	,			ŕ		,		
	MAINT. OBLIGATION					AVE. COS	Г	
		2.3		MILES	@	\$808.60	/ MILE =	\$1,859.78
3.	GRADING FOR TIMBER	⊋ Н∆І	П					
<b>.</b>	ONABINO FOR TIMBER	· IIA	<i>-</i>					
					-	TOTAL MILES	2.3	
		2.3	MII	_ES @	)	\$849.24	/ MILE =	\$1,953.25
5.	MAINTENANCE ROCK:	ROLI	ĒΕ					
	SIZE		1.5-0	,	,	APPR FROM		
							MILES	
ROYALTY		160	CU.	YDS.	@	\$13.30		\$2,128.00
PROCESSING		160	CU.	YDS.	@	\$1.01		\$161.60
SLOW HAUL		160	CU.	YDS.	@	\$1.78	2.0	\$320.00
MED. HAUL		160	CU.	YDS.	@	\$0.88	2.0	\$281.60
FAST HAUL		160	CU.	YDS.	@	\$0.39	6.0	\$374.40
COMPACTION		160	CU.	YDS.	@	\$1.21		\$193.60
BASIC WATER		160	CU.	YDS.	@	\$0.77		\$123.20
SLOW WATER		160	CU.	YDS.	@	\$0.34	2.0	\$108.80
MED. WATER		160	CU.	YDS.	@	\$0.17	2.0	\$54.40
FAST WATER		160	CU.	YDS.	@	\$0.10	5.0	\$80.00
							TOTAL =	\$3,825.60
	SIZE	,	3-0"		,	APPR FROM		
							MILES	
ROYALTY		290	CU.	YDS.	@	\$11.90		\$3,451.00
PROCESSING		290	CU.	YDS.	@	\$1.01		\$292.90
SLOW HAUL		290	CU.	YDS.	@	\$1.78	2.0	\$580.00
MED. HAUL		290	CU.	YDS.	@	\$0.88	2.0	\$510.40
FAST HAUL		290	CU.	YDS.	@	\$0.39	6.0	\$678.60
COMPACTION		290		YDS.		\$1.21		\$350.90
BASIC WATER		290		YDS.		\$0.77		\$223.30
SLOW WATER		290		YDS.		\$0.34	2.0	\$197.20
MED. WATER		290		YDS.		\$0.17		\$98.60
FAST WATER		290		YDS.		\$0.10		\$145.00
							TOTAL =	\$6,527.90

# ROAD MAINTENANCE APPRAISAL

SALE NO. SALE NAME:

ORC03-TS-2024.0003 STEELE CREEK RIDGE TS

6. OTHER MAINTENANCE:

<u>27-12-27.3 C</u> \_ength (Miles): 0.14

Soil Stabilization \$124.22 Water Bars: \$653.76

<u>\$777.98</u>

TOTAL \$777.98

SALE NO. ORC03-TS-2024.0003 STEELE CREEK RIDGE TS EXHIBIT D SHEET 4 OF 8 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

#### 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 <b>290 cubic yards</b> of crushed aggregate, conforming to the requirements in <b>Section 1000</b> of the Exhibit C of this contract, and <b>160 cubic yards</b> of crushed aggregate, conforming to the requirements in <b>Section 1200</b> 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

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.

may commence immediately after agreement.

SALE NO. ORC03-TS-2024.0003 STEELE CREEK RIDGE TS EXHIBIT D SHEET 6 OF 8 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-2024.0003 STEELE CREEK RIDGE TS EXHIBIT D SHEET 7 OF 8 SHEETS

#### FINAL MAINTENANCE 3300

3301

The Purchaser shall complete final maintenance and/or damage repairs on all roads used under 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.

3420

The Purchaser shall perform the following work:

SALE NO. ORC03-TS-2024.0003 STEELE CREEK RIDGE TS EXHIBIT D SHEET 8 OF 8 SHEETS

Road No.	Work
27-12-27.3	Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.
	Construct water bars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

SALE NAME: Steele Creek Ridge

NET MBF 5186

EXHIBIT E

ORC03-TS-2024.0003

# 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.		27-12-28.1	5186	0.0	
Leatherman Land &Timber Co.		27-12-28.0	5186	0.0	
Ξ.		:	TOTAL USE FEE:	<u>:</u>	\$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 MAINTENANC	E	TOTAL
Type	ROAD NUMBER:	MBF	MILES:	/MBF/Mile	Subtotal	/MBF/Mile	Subtotal	FEE:
				_				
					\$0.0	0	\$0.00	\$0.00
			0		\$0.0	0	\$0.00	\$0.00

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

	a. Timber Haul:			SURFACE	
Surface		NET	ROAD	REPLACEMENT	ROCKWEAR
Type	ROAD NUMBER:	MBF	MILES:	/MBF/Mile	Subtotal
				=	
rock	27-12-28.1	437	0.1	\$0.85	\$37.15
rock	27-12-28.1	1499	0.2	\$0.85	\$254.83
rock	27-12-28.1	1936	0.1	\$0.85	\$164.56
rock	27-12-28.1	2623	0.2	\$0.85	\$445.91
rock	27-12-28.1	3623	0.2	\$0.85	\$615.91
dirt	27-12-27.3	1126	0.1	\$0.85	\$95.71
rock	27-12-28.1	4749	0.2	\$0.85	\$807.33
rock	27-12-28.1	5186	0.2	\$0.85	\$881.62
			1.3		\$3,303.02

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

						MAINTENANCE ANI	D/OR
Surface		AGREEMENT	ROAD	NET	ROAD	ROCKWEAR FEE	
Type	COMPANY NAME:	NUMBER:	NUMBER	MBF	MILES:	/MBF/MILE	TOTALS:
rock	Leatherman Land & Timber Co.		27-12-28.0	5186	0.8	\$0.85	\$3,526.48
							\$0.00
					0.8		\$3,526.48

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX.

2.3 MILES OF ROAD. (SEE EXHIBIT D)

	SALE VOLUME:	5186	MBF.	ROCKWEAR		MAINTENANCE		
			ROA	AD USE FEES:	FEES	•	FEES	S
SUMMARY OF ROAD U	JSE & ROAD MAINTEN	ANCE FEES:	TOTAL:	\$/MBF	TOTAL:	\$/MBF	TOTAL:	\$/MBF:
1. COMPANY-OWNED	ROADS:		\$0.00	\$0.00	\$3,526.48	\$0.68		\$0.00
2. BLM-MAINTAINED	ROADS:				\$0.00	\$0.00	\$0.00	\$0.00
3. OPERATOR-MAINT	AINED ROADS:				\$3,303.02	\$0.64		\$0.00
			\$0.00	\$0.00	\$6,829.50	\$1.32	\$0.00	\$0.00

MAINTENANCE OBLIGATION PAYABLE TO BLM \$3,303.02 0.64

Exhibit D \$ 16,521.51
Exhibit E \$6,829.50
Total Maintneance\Rockwear \$ 23,351.01



# United States Department of the Interior Bureau of Land Management

# **Timber Appraisal**

Sale Name: Steele Creek Ridge Sale Date: Friday, November 17, 2023

BLM District: Coos Bay DO

Unit of Measure: 16' MBF

Contract #: ORC03-TS-2024.0003

Contract Term: 24 months

Sale Type: Advertised

Contract Mechanism: 5450-003

Lump 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 - 10/11/2023 Approved By: Caulfield, David J - 10/11/2023

# **Legal Description of Contract Area**

Land Status	County	Township	Range	Section	Subdivision	Meridian
CBWR	Coos	T27S	R12W	27	N1\2NE1\4,N1\2NW1\4	Willamette

# **Species Totals**

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	4,930.0	5,092.0	5,141.0	37,881	1,722	6,717
Grandfir	125.0	129.0	134.0	684	54	110
Western Redcedar	70.0	75.0	75.0	1,573	33	718
Western Hemlock	50.0	53.0	54.0	507	19	139
Red Alder	11.0	11.0	12.0	213	21	79
Totals	5,186.0	5,360.0	5,416.0	40,858	1,849	7,763

# **Cutting Area Acres**

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
79.0	0.0	4.0	83.0	62.5

Profit

**Total Profit & Risk** 

Risk

	Logging Cos	ts	Tract Feature	5
Stump to Tru	ıck	\$984,953.16	Quadratic Mean DBH	21.6 in
Transportation	on	\$328,677.63	Average GM Log	131 bf
Road Constru	uction	\$231,368.60	Average Volume per Acre	62.5 mbf
Maintenance	e/Rockwear	\$23,351.01	Recovery	96%
Road Use		\$0.00	Net MBF volume:	
Other Allowa	ances	\$85,330.84	Green	5,186.0 mbf
Total:		\$1,653,681.24	Salvage	0 mbf
Total Loggine	gging Cost per MBF: \$318.87		Export	0 mbf
TOTAL LOGGING	g cost per wibi.	7310.07	<b>Ground Base Logging:</b>	
			Percent of Sale Volume	39%
	Utilization Cen	ters	Average Yarding Slope	15%
Location	Distance	% of Net Volume	<b>Average Yarding Distance</b>	100 ft
Roseburg	70.0 miles	28%	Cable Logging:	
Coquille	9.0 miles	72%	Percent of Sale Volume	61%
			Average Yarding Slope	35%
	Profit & Ris	k	<b>Average Yarding Distance</b>	400 ft

11%

5%

16%

**Aerial Logging:** 

**Percent of Sale Volume** 

**Average Yarding Slope** 

**Average Yarding Distance** 

# Cruise

Cruise Completed	May 2022
Cruised By	Blum, Felker, Herron, Kirkland, Murphy, Stover
Cruise Method	
Regen harvest 3P	cruise with total 117 sample trees.

0%

0%

0 ft

# **Stumpage Computation**

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Stumpage Adjustment	Appraised Price/MBF		Appraised Value (\$)
Douglas Fir	6,717	4,930.0	\$616.84	\$98.69	\$318.87	\$0.00	(\$0.16)	\$199.10		\$981,563.00
Grandfir	110	125.0	\$459.40	\$73.50	\$318.87	\$0.00	(\$0.02)	\$67.00		\$8,375.00
Western Redcedar	718	70.0	\$746.42	\$119.43	\$318.87	\$0.00	(\$0.28)	\$307.80		\$21,546.00
Western Hemlock	139	50.0	\$435.28	\$69.64	\$318.87	\$0.00	\$0.00	\$46.80		\$2,340.00
Red Alder	79	11.0	\$329.58	\$52.73	\$318.87	\$0.00	\$0.00	\$33.00	*	\$363.00
Totals	7,763	5,186.0								\$1,014,187.00

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

# **Other Wood Products**

Product	Unit of Measure	# of Units	\$/Unit	Appraised Value
Biomass	Mbf	100	\$0.05	\$5.00
Totals				\$5.00

Total Appraised Value: \$1,015,199.00

# 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				87.0%	12.0%	1.0%	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Grandfir				89.0%	10.0%	1.0%	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill		Camp Run
Western Redcedar			52.0%	48.0%		

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				82.0%	14.0%	4.0%	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	Camp Run
Red Alder		33.0%	37.0%	30.0%		

# Unit: 1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	4,583.0	4,735.0	4,780.0	6,184
Grandfir	117.0	120.0	124.0	103
Western Redcedar	65.0	69.0	70.0	689
Western Hemlock	48.0	51.0	52.0	137
Red Alder	10.0	10.0	11.0	77
Totals:	4,823.0	4,985.0	5,037.0	7,190

# Net Volume/Acre: 61.1 MBF

Total Acres:	79.0
Right of Way	0.0
Partial Cut	0.0
Regeneration Harvest	79.0

# **Unit: ROW**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	347.0	357.0	361.0	533
Grandfir	8.0	9.0	10.0	7
Western Redcedar	5.0	6.0	5.0	29
Western Hemlock	2.0	2.0	2.0	2
Red Alder	1.0	1.0	1.0	2
Totals:	363.0	375.0	379.0	573

# Net Volume/Acre: 90.8 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	4.0
Total Acres:	4.0

Total Stump To Truck	Net Volume	\$/MBF
\$984,953.16	5,186.0	\$189.93

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Wheel Skidder	GM MBF	2,091.0	\$192.03	\$401,534.73	Fuel \$5.30\gal. 9 Loads\day. 4.5 mbf\load. Wheel Skidder\Feller buncher+2 chainsaws for oversize
Cable: Medium Yarder	GM MBF	3,269.0	\$178.47	\$583,418.43	Fuel \$5.30\Gal. 9 loads\day.4.5mbf\load. Yarder ground w\Mech delimbing
Subtotal				\$984,953.16	

# **Additional Costs**

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

# **Additional Moves**

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

# **Comments:**

Fuel \$6.00/gal, 9 loads/day, 4.5mbf/load used for all logging costs. Used 1 skidder, 1 Loader and 2 saws for private timber

Total	Net Volume	\$/MBF
\$328,677.63	5,186.0	\$63.38

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Roseburg	70.0	Saw Logs	GM MBF	1,493.0	\$104.85	\$156,541.05	28%
Coquille	9.0	Saw Logs	GM MBF	3,922.0	\$43.89	\$172,136.58	72%

#### **Comments:**

WRC, GF, RA, and Oversize DF to Roseburg, DF and WH to Coquille

# **Engineering Allowances**

Total	Net Volume	\$/MBF
\$254,719.61	5,186.0	\$49.12

Cost Item	Total Cost
Road Construction:	\$231,368.60
Road Maintenance/Rockwear:	\$23,351.01
Road Use Fees:	\$0.00

#### **Comments:**

Road Maintenance/Rockwear includes Exhibit D & E Ex.d- \$16,521.50 + Ex.e- \$6,829.50 = \$23,351.01

Total	Net Volume	\$/MBF	
\$85,330.84	5,186.0	\$16.45	

# **Environmental Protection**

Cost item	Total Cost
Snag Creation: Girdled	\$765.00
Snag Creation: Topped	\$4,250.00
Vehicle Washing	\$2,275.00
Subtotal	\$7,290.00

# Miscellaneous

Cost item	Total Cost
Purchase PVT timber	\$1,143.80
Subtotal	\$1,143.80

# Slash Disposal & Site Prep

Cost item	Total Cost
Landing Pullback	\$1,145.76
Machine Pile & Cover	\$15,572.20
Machine Pile Slash & Lop	\$15,662.64
Landing Piling/Covering	\$621.09
Slash, Lop, Scatter	\$34,211.31
Pile Burning	\$9,684.04
Subtotal	\$76,897.04

#### **Comments:**

34 snags to be topped. 51 snags to be girdled. See fuels appraisal for SD-stip calculations. Vehicle washing includes vehicles for ground based and yarder logging.

Form 5440-009 (June 2022)

cash

Required bid deposit is \$

money order

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

97,700.00 and is enclosed in the form of:

certified check

bank draft

cashier's check

bid bond of corporate surety on approved list of the United States Treasury

June 2022)	U	Name of Bidder					
	DEPARTM BUREAU O	Tract Number ORC03-TS-2024.0003					
DEPOSIT AND B	SID FOR: (Check O	ne):			Sale Name Steele Creek Ridge		
	r Other Wood Prod				Sale Notice (dated) 12/28/2023		
(Examples of O	ther Wood Products:	biomass, firewoo	od, posts, pole	s, etc)	BLM Office		
Vegetative Resources (Examples of Vegetative Resources: boughs, pinyon nuts, cones, plants, etc)					Coos Bay District Office		
Sealed Bid for	Sealed Bid Sale			Written Bid for Ora	l Auction Sale		
Deadline for accep	ting sealed bids	a.m.	☐ p.m.	Sale commences 10:0	00 <b>√</b> a.m.		
On (date)	Place			On (date) 01/26/2024	Place Coos Bay BLM		
•	above dated Sale No I Products or Vegetat	•	•	•	for the purchase of designated Timber		

guaranteed remittance approved by the authorized officer.

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

#### BID SCHEDULE - TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES

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

BID SUBMITTED							ORAL	BID M	ADE
PRODUCT & SPECIES	UNIT of MEASURE	ESTIMATED VOLUME OR QUANITY	UNIT PRICE		UNIT PRICE PRODUCT VALUE (Quantity X Price)		UNIT PRICE	PRODUCT VALUE (Quantity X Price)	
Douglas Fir	MBF		\$		\$	0.00	\$	= \$	0.00
Red Alder	MBF	11	\$	30.30	\$	333.30	\$	= \$	0.00
Western Redcedar	MBF	70	\$	293.80	\$	20,566.00	\$	= \$	0.00
Western Hemlock	MBF	50	\$	43.60	\$	2,180.00	\$	= \$	0.00
Grandfir	MBF	125	\$	53.20	\$	6,650.00	s	= \$	0.00
BIOMASS	GT	100	\$	0.05	\$	5.00	\$	= \$	0.00
====			\$		\$	0.00	\$	= \$	0.00
			\$	8	\$	0.00	\$	= \$	0.00
			\$		\$	0.00	s	= \$	0.00
			\$		\$	0.00	s	= \$	0.00
			\$		\$	0.00	\$	= \$	0.00
	-	TOTAL PUR	СНА	SE PRICE	\$	29,734.30		\$	0.00

	e price including all modifications executed under the terms of the urces designated for removal may be less or more than total estimated
Bid submitted on (date)	
composed wholly of such citizens, or a corporation author (b) The signatory is the age of majority in the state of the said (c) The signatory is an authorized representative if not significant on behalf of the bidder.  (d) The signatory and any affiliates have not exported unprosported in the 24-months prior to the sale date shown on the conference or offeror.  (f) The signatory and any affiliates are not currently suspensissued an exception by the Department's Director of the cattached to bid form).	ng as an individual and certifies that he or she is authorized to act as or ecessed private timber from west of the 100th meridian in the lower 48
1. Signature, if firm is individually owned	4. Name of firm (type or print)
2. Signatures, if firm is a partnership or L.L.C.  i.  ii.	5. Business address, include zip code (type or print)
3. Corporation - organized under the state laws of:	(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 Make remittance payable to: "Department of the Interior – BLM"  Oral Auction – Submit to Sale Supervisor prior to closing of qualifying payable Bid – Send to Contracting Officer, who issued the sale notice, in a (1) "Bid for Timber and/or Other Wood Products" or "Bid for Vegetation" (2) Time bids are to be opened.  (3) Legal description.  (4) Sale name and number.	period for tract. a sealed envelope marked on the outside with:
N	OTICES

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 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.

- (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 834 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)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

INDEPENDENT PRICE DETERMINATION CERTIFICATE

# BUREAU OF LAND MANAGEMENT

Timber Sale Number ORC03-TS-2024.0003 Timber Sale Name Steele Creek Ridge Sale date

Bidder or Offeror (Name)

Address (include zip code)

- A. By submission of this bid or proposal, each bidder or offeror certifies, and in the case of a joint bid or proposal, each party thereto certifies as to its own organization, that in connection with this sale:
- 1. The prices in this bid or proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices, with any other bidder or offeror or with any competitor;
- 2. Unless otherwise required by law, the prices which have been quoted in this bid or proposal have not been knowingly disclosed by the bidder or offeror and will not knowingly be disclosed by the bidder or offeror prior to opening, in the case of a bid, or prior to award, in the case of a proposal, directly or indirectly to any other bidder or offeror or to any competitor; and
- 3. No attempt has been made or will be made by the bidder or offeror to induce any other person or firm to submit or not to submit a bid or proposal for the purpose of restricting competition.
- B. Each person signing this bid or proposal certifies that:
- 1. He is the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein and that he has not participated, and will not participate, in any action

contrary to A. 1 through 3 above; or

2. (i) He is not the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to A. 1 through 3, above, and as their agent does hereby so certify; and

01/26/2024

- (ii) He has not participated, and will not participate, in any action contrary to A. 1 through 3, above.
- C. This certification is not applicable to a foreign bidder or offeror submitting a bid or proposal for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.
- D. A bid or proposal will not be considered for award where A. 1, 3, or B., above, has been deleted or modified. Where A. 2, above, has been deleted or modified, the bid or proposal will not be considered for award unless the bidder or offeror furnishes with the bid or proposal a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, determines that such disclosure was not made for the purpose of restricting competition.

(Authorized Signature of Bidder)

Name and Title (type or print)

#### **INSTRUCTIONS**

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

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

Form 5450-017 (July 2021)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### **EXPORT DETERMINATION**

FORM APPROVED OMB NO. 1004-0058 Expires: Dec. 31, 2024

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

In co	ompliance with requirements of 43 CFR 5424.1,	□ I	☐ We	hereby submit the f	ollowing informat	ion:			
(1)	Have you exported unprocessed private timber, or lands tributary to the above processing facility, in								
	☐ Yes ☐ No - Last Export Date (if any within	the pa	st 5 years	)					
(2)	If the answer in (1) is yes, you are not eligible to purchase federal timber until at least 24 months from the date in (1).								
(3)	Have any of your affiliates* exported unprocessed to the above processing facility if within an estable date of the Federal timber?   Yes  No - Prothe past 5 years):	lished s	ourcing a	rea, within the 24 mon	ths prior to the au-	ction or purchase			
	a. Affiliate			Last Export da	ate				
	b. Affiliate			Last Export da	ate				
	c. Affiliate		00	Last Export da	ate				
controlle controls	timber, you are not eligible to purchase federal tir 3 CFR 5400.0-5: Affiliate means a business entity including but the dot by a purchaser, or, along with a purchaser, is controlled by a thip, corporation, association, or other legal entity and includes a or has the power to control the other or when both are controlled	ut not lim third bus iny subsi	nited to an in iness entity diary, subco	dividual, partnership, corpo From 16 USC 620e: Expor ntractor, or parent company	oration, or association, t prohibition applies to	which controls or is any individual.			
ivan	ne of Firm:								
Sign	nature of Signing Officer	Title				Date			
						#			
vill not lescribe INSTR sell an	ng this form, you certify that you or your affiliates have not experence to the duration of din 16 USC 620d and may result in monetary damages and sus RUCTIONS: The Purchaser must complete the form yor all of the timber sold under this contract in the aging, or receiving such timber to complete a copy	of the fed pension and re- form o	leral timber and debarme eturn to th of unproce	sale. Timber export and subset.  e Contracting Officer. ssed timber, the Purch	In the event the Phaser shall require	e subject to civil penalties urchaser elects to each party buying,			
Tim	ber Sale Name and Number:			Return Form to Contr	acting Officer at:				

Unprocessed timber means trees or portions of trees or other roundwood not processed to standards and specifications suitable for end-product use. The term "unprocessed timber" does not include timber processed into any one of the following: (i) Lumber or construction timbers, except Western Red Cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list grades, sawn on 4 sides, not intended for remanufacture; (ii) Lumber, construction timbers, or cants for remanufacture, except Western Red Cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list clear grades, sawn on 4 sides, not to exceed 12 inches in thickness; (iii) Lumber, construction timbers, or cants for remanufacture, except Western Red Cedar, that do not meet the grades referred to in clause (ii) and are sawn on 4 sides, with wane less than ¼ of any face, not exceeding 8¼ inches in thickness; (iv) Chips, pulp, or pulp products; (v) Veneer or plywood; (vi) Poles, posts, or pling cut or treated with preservatives for use as such; (vii) Shakes or shingles; (viii) Asper or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp, (ix) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 sawlogs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.