COOS BAY DISTRICT OFFICE

MYRTLEWOOD FIELD OFFICE

SALE NO.: ORC04-TS-2024.0030, New Yankee

COOS COUNTY: OREGON: CBWR:

ORAL AUCTION: Bid deposit required: \$58,800.00

All timber designated for cutting on: T. 28 S., R. 11 W., Sec. 16, W1/2NE1/4, SE 1/4 Will. Mer.

Approx.No.	Est. Vol. MBF	Species	Est. Vol. MBF	Appraised	Estimated Vol. Times
Merch. Trees	32' Log		16' Log	Price Per MBF	Appraised Price
3,641	2,156.0	Douglas-fir	2,650.0	\$207.90	\$550,935.00
472	322.0	grand fir	393.0	\$49.60	\$19,492.80
539	240.0	western hemlock	292.0	\$50.10	\$14,629.20
130	21.0	Port-Orford cedar	27.0	\$38.00*	\$1,026.00
47	5.0	Misc. Hardwoods	7.0	\$23.00*	\$161.00
30	4.0	western redcedar	5.0	\$288.40	\$1,442.00
4,859	2,748.0	Total	3,374.0		\$587,686.00

*Surplus value species have been reduced to compensate for species below the minimum price policy of 10% of pond value. See Adjusted Stumpage Computation.

Product	Unit of	Estimated Number of	Appraised Price Per Green	Estimated Volume Times
	Measure	Units	Ton	Appraised Price
Biomass	Green Tons	7	\$0.05	\$0.35

Total Appraised Value: \$587,686.35

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 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.

<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 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 23.0 inches: the average gross merchantable log contains 142 bd. ft.; the total gross volume is approximately 3,664 thousand bd. ft.; and 92% recovery is expected. The average DBHOB for Douglas-fir is 23.8 inches; and the average gross

SALE DATE: March 22, 2024 SALE TIME: 10:00 a.m.

LUMP SUM SET ASIDE

merchantable log contains 146 bd. ft.; and 93% recovery is expected. None of the total sale volume is salvage material. The following cruise methods were used for volume determination:

<u>3P:</u> Douglas-fir, grand fir, and western hemlock volumes were calculated using the 3P system within Unit 1 to select 47 Douglas-fir, 24 grand fir, and 26 western hemlock sample trees. The sample trees were cruised, and their volumes computed using form class tables for estimating board foot volumes of trees in 16-foot logs. The volumes are then expanded to a total sale volume.

<u>100% CRUISE</u>: Volumes for all species were based on a 100% cruise in the right-of-ways and landing locations, using form class tables for estimating board foot volume of trees in 16-foot logs.

<u>CUTTING AREA</u>: One (1) unit totaling 56 acres must be regeneration harvested and four (4) acres of right-of-way must be cut. Acres shown on Exhibit A have been computed using the S1 Mobile Mapping app.

<u>ACCESS</u>: Access to the sale area is provided via: Oregon State highways, Coos County roads, privately controlled roads, and Government controlled roads.

<u>DIRECTIONS TO SALE AREA</u>: From Myrtle Point, OR., travel east on Sitkum Lane for approximately 12 miles. Turn left onto Yankee Run Mainline BLM Road (28-11-20.0). Proceed about 0.5 miles, turn right onto BLM road (28-11-20.1), proceed approximately 1 mile to edge of unit.

<u>ROAD USE & MAINTENANCE:</u> Refer to Exhibit E Summary attached. Operator maintenance required on 1.13 miles of road.

Rock wear Fees Payable to BLM: \$7,539.26 Rock wear Fees Payable to Roseburg Resources: \$442.76 Road Use Fees Payable to Roseburg Resources : \$985.03

ROAD CONSTRUCTION:

Road Construction estimates include the following:

New Construction:

38.80 stations

Road Renovation:

160.51 stations

Road Improvement:

2.10 stations

Aggregate:

Base/Landing Rock, 6" minus hardrock:	425 C.Y. (Truck Measure)
Base/Landing Rock, 3" minus hardrock:	737 C.Y. (Truck Measure)
Bedding/Surfacing Rock, 1 ¹ / ₂ " minus hardrock:	582 C.Y. (Truck Measure)
Riprap:	20 C.Y. (Truck Measure)
Maintenance Rock, 1 ¹ / ₂ " minus hardrock:	350 C.Y. (Truck Measure)

Maintenance Rock, 3" minus hardrock:

50 C.Y. (Truck Measure)

Drainage:

18" Corrugated Polyethylene Pipe:

232 Lineal Feet

6.8 acres (Pre Haul)

3.0 acres (Post Haul)

20 Check Dams

Soil Stabilization:

Dry Seed, fertilizer, & mulch: Dry Seed, fertilizer, & mulch: Other Sediment Control Devices:

Roadside Brushing:

7.4 acres

Road Decommissioning:

Earthen Barriers:	<u>3</u>
Rip Rap Barrier:	<u>1</u>

<u>DURATION OF CONTRACT</u>: Shall be thirty-six (36) months for cutting and removal of timber. The contract will contain special stipulations regarding logging, road construction, road use and maintenance, fire prevention, hazard reduction and logging residue reduction, log export and substitution, optional scale check of lump sum sales, SBA, Buyout Securities, vehicle cleaning, and snag creation.

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

- 1. A license agreement is required with Roseburg Resources Co., a performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required for this license agreement.
- 2. All equipment shall be washed prior to entering and exiting the contract area to control the spread of noxious weeds and Port-Orford cedar root disease in accordance with Exhibit F.
- 3. No trees shall be felled into the Reserve Area, shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used, as necessary.
- 4. Cutting and yarding operations on Unit 1 shall be completed no later than February 23, 2027.
- 5. Lift trees and intermediate support trees may be necessary and will be identified during corridor layout.
- 6. One-end suspension required in cable and ground-based yarding areas as shown on Exhibit A.
- 7. Full suspension required over any stream channels. Trees cut for yarding corridors within the Reserve Area adjacent to stream channels shall be felled toward the channel and left on-site.
- 8. Shape and restore all landings per Exhibit D to prevent erosion.
- 9. Seed, fertilize, and mulch all landings, road cuts and fills, and waste areas prior to the wet season.
- 10. Soil stabilization, water bar construction, road decommissioning, and road barrier construction shall be conducted after the completion of harvest activities but no later than October 15th.
- 11. BLM will assume supervisory responsibility for disposal of logging slash.
- 12. Machine piling of logging slash is required at all landing areas.
- 13. Within one (1) year following the completion of yarding operations, create 56 snags as shown on the Exhibit I and as directed by the Authorized Officer.
- 14. The Purchaser shall provide signage to control traffic when conducting operations adjacent to any road.
- 15. To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained or removed daily form the contract area pursuant to Section 27 of this contract.

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Seasonal Restriction Matrix ORC04-TS-2024.0030 NEW YANKEE Timber Sale Prospectus

*Restricted periods are Shaded; Conditional periods are hatched; See Exhibit A for portions of units affected.

			Jan]	Feb	I	Mar		Apr	I	May	J	une	J	ſuly	A	Aug	5	Sept	•	Oct	I	Nov]	Dec
Sale Area	Activity	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Falling and bucking																								
	Cable yarding																								
General	Road Construction, Renovation, or Improvement Work ¹																								
All Units	Yarding on swing road ¹																								
	Hauling on approved rocked roads ⁴																								
	Ground based yarding ³											25 %													
	Burning⁵																								

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

² Bark slip seasonal restrictions may be conditionally waived upon written request and Authorized Officer approval. Strict compliance with damage provision required for continued operations.

³ Ground based yarding restricted to periods when soil moisture levels are below 25% as determined by the Authorized Officer.

⁴ Wet season haul on rocked roads may be suspended during periods of heavy rain.

⁵ Burning activities will be seasonally restricted for the entire Marbled Murrelet breeding season (April 1st – September 15th) for the southern portion of the timber sale unit

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SCHEDULE I

Sec 43. WOOD PRODUCTS RESERVED FROM CUTTING. The following timber in the Contract Area, shown on Exhibit A, which is attached hereto and made a part thereof, is hereby reserved from cutting and removal under the terms of this contract and is retained as 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 timber marked, by the Government, with orange paint above and below stump height within the Harvest Unit, shown on Exhibit A;
- c. All timber marked, by the Government with an orange painted "W" within the Harvest Unit, shown on Exhibit A;
- d. All timber marked, by the Government with an orange painted "S" within the Harvest Unit, shown on Exhibit A;
- e. All existing standing dead trees, except those snags that must be felled to permit safe working operations provided that all snags felled must be retained on site;
- f. All existing downed wood in decay classes 3-5 and all existing downed wood twenty (20") inches or larger in diameter measured on the large end regardless of decay class;
- g. All Bearing Trees with metal tags that mark property corners;
- h. All trees greater than forty (40") inches DBH within the Harvest Unit unless otherwise approved by the Authorized Officer;

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

- a. Logging
 - (1) Prior to commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan is approved.
 - (2) Before beginning operations in 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 they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of ten (10) or more days.
 - (3) All trees three (3") inches DBHOB or larger and/or twenty-five (25') feet or taller designated for cutting shall be felled concurrently with all other trees designated for cutting.

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- (4) Cutting and yarding operations in Unit 1 must be completed no later than February 23, 2027.
- (5) No trees may be felled into the Reserve Area. Line pulling, jacking, or other mechanical devices shall be used as necessary to prevent trees from falling into these areas.
- (6) Damage to residual trees shall affect less than 5% of reserve trees. Bark removed from the cambium three (3") inches wide or greater, top broken at three (3") inches diameter or greater, root sprung trees, or any root collar damage shall constitute damage. Damage levels will be determined by the Authorized Officer using a government sample of an affected area. Failure to resolve excess damage to reserve trees may result in suspension of operations and recovery of the value of the damaged timber in accordance with Sec. 13.
- (7) Conifer and hardwood trees shall be whole tree yarded wherever possible.
- (8) In the Harvest Unit, yarding (except for road right-of-way and ground-based areas, shown on Exhibit A) shall be done with a skyline cable system according to the following:
 - (a) Yarding shall be done with a skyline system.
 - (b) One-end suspension is required during yarding operations. Intermediate supports and/or lift trees may be required to obtain the required suspension. Full suspension is required when yarding over stream channels as shown on the Exhibit A.
 - (c) If placement of the yarding corridor requires the cutting of a tree in the Reserve Area adjacent to a stream channel, the tree shall remain on-site and felled toward the direction of the channel in a manner to protect the stream bank from disturbance during yarding. Yarding corridors shall cross stream channels perpendicular where possible to minimize cutting of trees within the Reserve Area. Yarding corridor location within the Reserve Area shall be approved by the Authorized Officer prior to cutting.
 - (d) In Unit 1 as shown on Exhibit A, the Purchaser shall make cable road changes by completely re-spooling the cables and restringing the layout from the head spar to the tail hold to protect the advance regeneration present on these areas.
- (9) In the Ground-Based Yarding Areas, shown on the Exhibit A and within road rights-ofway, cutting and yarding shall be done according to the following:
 - (a) In addition to the requirements set forth in Sec. 26 of this contract, ground-based operations shall be restricted to the dry season which is typically June through October. Unseasonably dry or wet weather may shorten or extend the operating season.
 - (b) Ground-based operations shall be conducted when soil moisture content is below twenty-five (25%), as determined by the Authorized Officer; unseasonably dry or wet

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weather may shorten or extend the operating season. The Purchaser shall be notified in writing when weather conditions extend the operating season. The Purchaser shall cease operations during periods of rain and be notified, after a soil-moisture assessment by the Authorized Officer, when operations may resume.

- (c) The yarding machine must be approved by the Authorized Officer. It must be equipped with a grapple or an extendable and retractable arch and fairlead that is an integral part of the machine 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.
- (d) Primary skid trails shall use existing trails wherever possible, be space ninety-five (95') feet apart, and be no wider than twelve (12') feet.
- (e) Primary skid trails shall be blocked with cull material after completion of harvest where the Authorized Officer determines vehicle access is possible.
- (f) All ground-based equipment shall be restricted to operating on slopes less than thirtyfive percent (35%), except when previously constructed trails or accessing isolated ground-based harvest areas requiring short trails over steeper pitches. Also, limit the use of this equipment when surface displacement creates trenches, depressions, excessive removal of organic horizons, or when disturbance would channel water and sediment as overland flow.
- (g) Primary skid trails with a slope greater than fifteen percent (15%) and/or are left with more than one hundred (100') feet of continuous bare ground shall have water bars installed and/or be covered with slash for erosion control prior to October 31 as directed by the Authorized Officer.
- (10) Prior to attaching any logging equipment to any tree in the Reserve Area the Purchaser shall obtain written approval from the Authorized Officer and shall take all precautions to protect the trees from damage, as directed by the Authorized Officer.
- (11) During logging operations, the Purchaser shall keep BLM road No. 28-11-3.1, where it passes through the contract area, clear of trees, rock, dirt, and other debris so far as practicable. This road shall not be blocked for more than twenty (20) minutes.
- (12) The Purchaser shall provide signage to control traffic when conducting operations adjacent to any road or as directed by the Authorized Officer and in accordance with Sec. 29 of the timber sale contract.
- (13) To control the spread of noxious weeds and Port-Orford cedar root disease, the Purchaser shall conduct all operations involving the transportation and use of equipment and vehicles in strict accordance with the requirements shown on Exhibit F, which is attached hereto and made part hereof. All road building and logging equipment shall be washed prior to moving in and moving out of the Contract Area to control the spread of noxious weeds and Port-Orford cedar root disease.

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- (14) To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained or removed daily from the contract area pursuant to Sec. 27 of this contract.
- (15) Maintain and refuel heavy equipment a minimum of 150 feet away from streams and other water bodies. Refuel small equipment at least 100 feet from waterbodies to prevent direct delivery of contaminants into a waterbody. Refuel small equipment from no more than 5-gallon containers. A small spill kit is required to be on-site during operations. In the event of a spill or release, take all reasonable and safe actions to contain the material. Specific actions are dependent on the nature of the material spilled. If more than 42 gallons of fuel or combined quantity of petroleum product and chemical substances would be transported to a project site as project materials, a spill kit that can absorb and contain 55 gallons of petroleum product and chemical substances shall be readily available. Purchaser shall be responsible for the clean-up, removal, and proper disposal of contaminated materials from the site in accordance with Section 28 of the contract.
- (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.

b. Snag Creation:

- (1) The Purchaser shall, within one (1) year following the completion of yarding operations, create fifty-six (56) snags total or as directed by the Authorized Officer and in accordance with Exhibit I the following stipulations:
 - (a) The Purchaser shall create fifty-six (56) snags by girdling trees marked with an orange painted "S" in the Harvest Area, in the locations and quantities indicated on the Exhibit I map, and as directed by the Authorized Officer.
 - (b) Snags shall generally be created by girdling live, green trees at three and one-half $(3^{1/2'})$ feet above the root collar, girdling will consist of severing the cambial tissue at

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least $\frac{3}{4}$ of the circumference around the bole of the tree, without cutting into the sapwood more than one and one-half (1^{1/2"}) inches and removing a four (4") inch band of bark. Alternatively, girdling may be achieved through use of three (3) parallel cuts into the cambial tissue around the tree as specified within the Exhibit I-Basal Girdling.

- (c) Snags shall generally be created by girdling live, green trees at three and one-half (3^{1/2'}) feet above the root collar, girdling will consist of severing the cambial tissue at least ¹/₂ to ³/₄ of the circumference around the bole of the tree, without cutting into the sapwood more than one and one (1") inches. The distance between the top and bottom cut shall be at least one (1') foot apart but shall not exceed two (2') feet and on opposing sides of the tree bole as specified within the Exhibit I- Opposing Half Girdle.
- (d) Create twenty-eight (28) snags using the Basal Girdling method and twenty-eight (28) snags using the Opposing Half Girdle method.
- c. Road Construction
 - (1) The Purchaser shall construct, improve, and renovate 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 be completed and accepted prior to removal of any timber, except right-of-way timber, over that road.
 - (3) In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall complete erosion control and soil stabilization measures on all cuts, fills, waste areas, and scarified areas, as designated by the Authorized Officer, along all sections of roadway disturbed during the year typically prior to October 15th 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, which is attached hereto and made part hereof.
 - (4) The Purchaser, prior to construction of landings, shall stake all landing locations in accordance with the requirements set forth in Exhibit C. Concurrently with, or at the termination of logging operations, the Purchaser shall pull back and shape onto the landings all overhanging materials to prevent erosion in accordance with the requirements set forth in Exhibit C.
- d. Road Use and Maintenance

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- (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.
- (2) 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 thirty (30) days prior to proposed move in. Details shall include:
 - (a) Axle weights when fully loaded;
 - (b) Axle spacing;
 - (c) Transverse wheel spacing;
 - (d) Tire Size;
 - (e) Outside width of vehicle;
 - (f) Operating speed;
 - (g) Frequency of use; and,
 - (h) Special features (e.g. running tracks, overhang loads, etc.).

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

- (3) The Purchaser is authorized to use the roads shown on Exhibit E, attached hereto and made a part hereof, for the removal of Government timber sold under the terms of this contract and for haul of mineral material required under the terms of this contract; provided, that the Purchaser shall pay the Government a rockwear obligation totaling \$7,539.26, shown on Exhibit E. Unless the total rockwear fees due BLM are paid prior to commencement of operations on the contract area, payments shall be made in installments payable in the same manner as and together with payments required in Sec 3 of this contract. Timber volume added by modification will be assessed at a rate of \$2.23/MBF for removal of timber over Government controlled roads.
- (4) The Purchaser shall perform maintenance and repair of such roads shown on Exhibit D in accordance with the maintenance specifications listed in Exhibit D, attached hereto, and made part hereof.
- (5) At all times during the period of 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

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Exhibit D resulting from wear or damage in accordance with the maintenance specifications as shown on Exhibit D.

- (6) With the prior approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of any BLM controlled road included in Sec. 44.d.(3) of this contract; provided that such a 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 users on these roads.
- (7) The Authorized Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management (BLM) road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Sec. 44.d.(3). If the total road maintenance fee does not exceed \$500.00, the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance fee exceeds \$500.00, the Authorized Officer shall establish an installment schedule of payments of the maintenance obligation.
- (8) In the use of required company roads shown on the Exhibit E, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement between the United States and Roseburg Resources Co., RWA-C-599. The Purchaser shall pay a road use fee of \$985.03 and a rockwear fee of \$442.76 to Roseburg Resources Co. The agreement is available for inspection at the Bureau of Land Management, Coos Bay, Oregon. A performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required by the Licensor.

Prior to commencement of operations, the Purchaser shall furnish to the Authorized Officer a copy of the executed License Agreement issued under the terms of the Right-of-Way Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, of any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees or road wear fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision. Road maintenance fees may change during the course of the contract as determined by the Licensor. It is the responsibility of the Purchaser to pay fees current at time of haul.

If a Licensor is the Purchaser, allowances have been made for amortization of capital investment of the roads covered by the Licensor's Agreement in accordance with 43 CFR 2812.6-2(a)(5); it is understood that the purchase price stated in Sec. 2 of this contract is the net price and that no deduction will be made from the contract price because of such allowance.

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- e. Fire Prevention and Control, 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 operation of power-driven equipment for 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 landings sites as shown on the Exhibit A in the contract area.

(4) Specifications for Landing Piling:

- (a) At all landing sites within the contract area, the Purchaser shall either (1) remove biomass from the site for offsite utilization or (2) pile for burning, all logging residue that is presently on or around the immediate vicinity of the landing site.
- (b) Any logs or useable residue identified in the contract area as reserved shall remain the property of the Government and may not be shipped for offsite utilization.
- (c) Prior to commencement of logging residue removal, the Purchaser shall provide advanced notification to the Authorized Officer in order to arrange for onsite 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.
- (d) Unless approved in advance by the Authorized Officer, landing piling shall be completed at each yarding location (setting) at the conclusion of yarding operations while logging equipment is onsite.

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- (e) Unless directed or approved by the Authorized Officer, no landing piles shall be constructed within twenty (20') feet of any reserve green trees, snags, marked wildlife trees, corrugated plastic pipes (CPP's) or other constructed features or improvements that could be damaged by fire.
- (f) 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 onsite shall be pulled completely back onto the landing surface and either piled for burning or segregated for other uses.
- (g) Logging residue greater than eight (8") in diameter at the large end and greater than eight (8') feet in length, shall not be piled for burning but shall be segregated into separate piles that are no closer than twenty (20') feet from residue piles that will be burned.
- (h) If during the course of pile construction or during a final acceptance inspection, the Authorized Officer determines that landing piles contain excessive amounts of logging residue that meets the specifications as described in Sec.44.e.(4g), the Purchaser shall be required to remove the specified residue from the burn piles.
- (i) 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 capped by slash shall require the removal and re-piling of the slash by the Purchaser.
- (j) 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.
- (k) During or after pile construction, landing piles shall be shaped and contoured in such a manner that will allow for polyethylene (PE) sheeting 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 sheeting being ripped or torn by underlying slash from the wind. Landing piles found by the Authorized Officer not meeting this shaping requirement shall be reconstructed or reshaped by the Purchaser.
- (1) The Purchaser shall request an inspection of landing piles before equipment used in piling is moved offsite. If piling equipment is moved offsite before inspection and the piles are subsequently found to be noncompliant with the specifications and require a rework, 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 (10) days in advance of planned equipment removal.

(5) Specifications for Landing Pile Covering:

- (a) 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 each year the timber sale is active.
- (b) The Purchaser shall place polyethylene (PE) sheeting, minimum four (4) MIL thickness and black in color over the pile so as to provide an adequate level of protection from fall/winter rains. PE sheeting shall lie uniformly and as smooth as possible across the top of the pile and shall extend partially down the sides. For small properly constructed piles with base dimensions of approximately ten feet by ten feet (10 ft. x 10 ft.) or less, the size of the PE sheeting shall be a minimum of one hundred (100) square feet.
- (c) To meet ignition and combustion needs, larger piles will require additional PE sheeting to adequately cover the pile to 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 sheeting. If piles are covered without the advice and consent of the Authorized Officer and are subsequently found to be inadequately covered, the Purchaser shall be required to re-cover or add additional covering to the piles before acceptance is made.
- (d) At landing sites with excessive logging residue that overhangs the landing which cannot reached and pulled back up onto the landing with equipment onsite, the Purchaser shall place additional PE sheeting over the residue concentrations below the landings.
- (e) No logging residue shall be left in the unit that poses a threat of rolling down onto private property below, as determined by the Authorized Officer. In hand pile areas logging residue will be removed with ten feet (10') of each pile.
- (f) 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 shall be placed on top of the pile but no more than twenty (20%) percent of the material to be piled may be placed on top of the PE sheeting.
- (g) 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.
- (6) Specifications applicable to lop/slash, scatter, and hand piling
 - (a) Hand Pile construction and covering: All harvest areas that are found to have excessive residual slash will require hand piling to prepare the site for planting. Areas to be treated will be designated by the Authorized Officer. All tops, broken pieces, limbs and debris

New Yankee

between two (2") and six (6") inches in diameter and longer than three (3') feet in length will be piled. Piles will be located at least fifteen (15') feet from any reserve tree or snag and as far as possible from culverts and unit boundaries. Purchaser may elect to machine pile in lieu of hand piling in areas with slopes less than 35%.

- (b) 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 nine (9") inches in diameter or larger (measured on the large end) shall not be piled.
- (c) Piles shall be constructed as upright as possible and have a solid base to prevent toppling. Piles shall be no smaller than six (6') feet in diameter and five (5') feet in height.
- (d) 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.
- (e) The Purchaser shall place black polyethylene plastic, maximum 4 MIL thickness, over the pile to provide a barrier from winter rains. Unless otherwise directed, the size of plastic shall not exceed 100 square feet (10' X 10').
- (f) Plastic covering shall be placed on top of the pile to ensure the center of the pile remains dry and shall be weighted down with logging debris and tied down with combustible cord on all four corners.
- (g) Slashing: In preparation for piling and as directed by the Authorized Officer, slash all brush species one foot (1') or greater in height, damaged residual conifers, hardwoods not reserved from cutting, and activity slash. All top and side branches must be cut free of the central stem such that the stem is no more than twelve (12") inches from the ground at all points. Slash shall be lopped to facilitate piling. In areas with low slash loads, slash shall be lopped and 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. 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 October 15 for all areas where logging was completed on August 1 of each year.

(7) Specifications to Pile Burning:

(a) In accordance with verbal or written instructions to be issued by the Authorized Officer at least ten (10) days in advance of the earliest date of required performance, the Purchaser shall, under the supervision of the Authorized Officer or 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 (14) hours of notification by the Authorized Officer.
- 2. The Purchaser shall dispose of removed PE sheeting in accordance with any applicable Federal, State, and municipal laws. Removed PE sheeting shall not be disposed of in burn piles.
- 3. All personnel directly involved in burning operations must have a current qualification card for FFT2 or higher. All qualifications are defined according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System Guide, PMS310-0. 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 a minimum eight (8") inch uppers that provide ankle support; an approved hard hat; 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 by the Authorized Officer. Minimum personnel, equipment and materials requirements for burning landing piles are:
 - a. One (1) English- speaking foreman for crew supervision.
 - b. Five (5) people to assist the foreman in pile burning.
 - c. Six (6) drip torches and sufficient mixed fuel to complete all pile burning.
- 5. A minimum of ninety percent (90%) consumption of each pile is required. Stoking of piled material around pile edges may be required to meet the 90% consumption requirement. Stoking can be accomplished by hand or the Purchaser use of heavy equipment (if onsite) to facilitate stoking or re-piling of residue during pile burn operations. If used, 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.
- (8) Time is of the essence in complying with 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

New Yankee

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. Buyout Securities

The Purchaser shall assist in pile burning as described in Sec. 44.e.(7). The Purchaser have the option of completing this work, or in lieu thereof, make a buyout security deposit to the Bureau of Land Management in the amount of ten thousand five hundred fifty-three and 27/100 dollars (\$10,553.27), and upon making such deposit, the Purchaser shall be relieved of the obligations set out in Sec. 44.e.(7). The Purchaser shall notify the Authorized Officer of their intention to make this deposit prior to the date of execution of this contract, and the Purchaser shall pay such amount in full prior to the commencement of operations.

- 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 \$2,530.50. In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of \$2,530.50 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. Small Business Administration (SBA) Set Aside

New Yankee

The purchaser agrees not to sell and/or exchange more than 30 percent of the timber or log volume from this preferential sale to concerns that do not meet the Small Business Administration small business size standard (13 CFR 121).

The purchaser understands that in addition to other penalties which may be imposed for violating the foregoing, the purchaser may be declared ineligible to participate in future Federal timber sales that are set-aside for preferential bidding by small business qualified concerns for two semi-annual triggered periods succeeding the violation.

The purchaser shall provide a current, interim Log Scale and Disposition of Timber Removed Report (Form 5460-15) upon request by the Authorized Officer at any time during the contract period for cutting and removal specified in Section 4 of this contract as amended.

Exhibit F

Sheet 1 of 1

SPECIAL PROVISIONS TO CONTROL THE SPREAD OF NOXOIUS WEEDS AND PORT-ORFORD CEDAR ROOT DISEASE

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 shall be agreed to by Purchaser and BLM. All petroleum product residues shall be contained at wash sites and dealt with in accordance with DEQ standards. Purchaser 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 Purchaser.
- (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 and exiting the contract area. The Authorized Officer will determine if log trucks and vehicles used for the transportation of personnel shall be cleaned, based upon the location of use immediately prior to the current timber sale. If the vehicles have been in a weed-infested area, they shall be washed before entering the Contract Area, as shown on the Exhibit A.

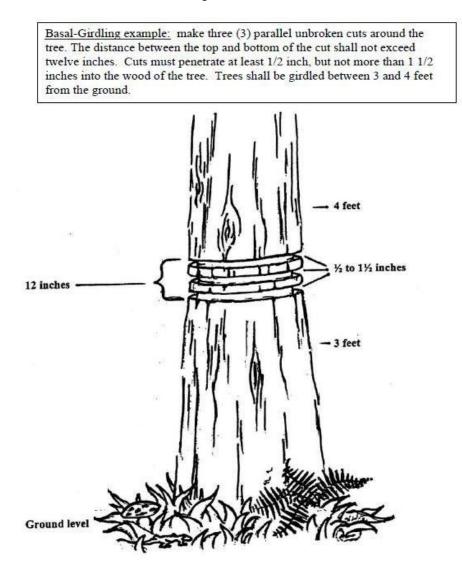
EXHIBIT I

SPECIFICATIONS FOR BASAL GIRDLING

GENERAL:

(1) Cut around the tree. Each cut must connect or extend at least three-fourths (¾) of the circumference, around the tree and penetrate through the cambium layer into the wood at least one half (½") inch, but not more than one and half (1 ½") inches. The distance between the top cut and the bottom cut shall not exceed twelve (12") inches. Tress shall be girdled between three (3') feet and four (4') feet above ground level measured from the uphill side of the tree.

Illustration 1- Basal Girdling

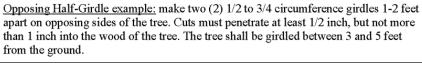


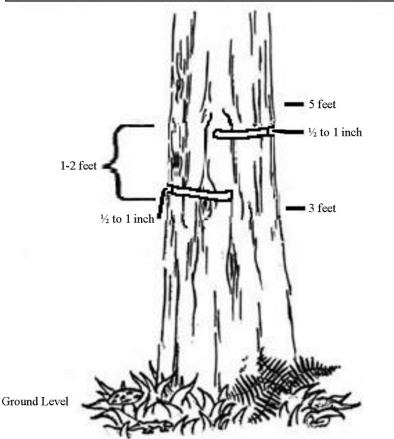
SPECIFICATIONS FOR BASAL GIRDLING

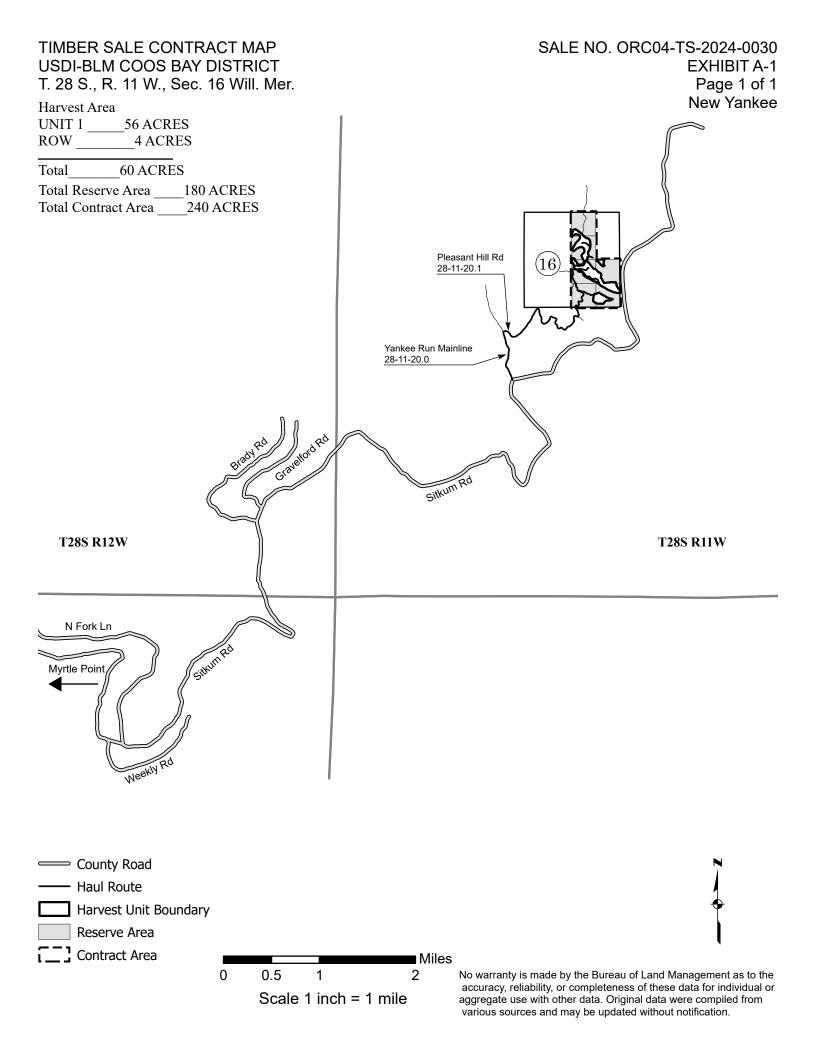
GENERAL:

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

Illustration 1- Opposing Half-Girdle





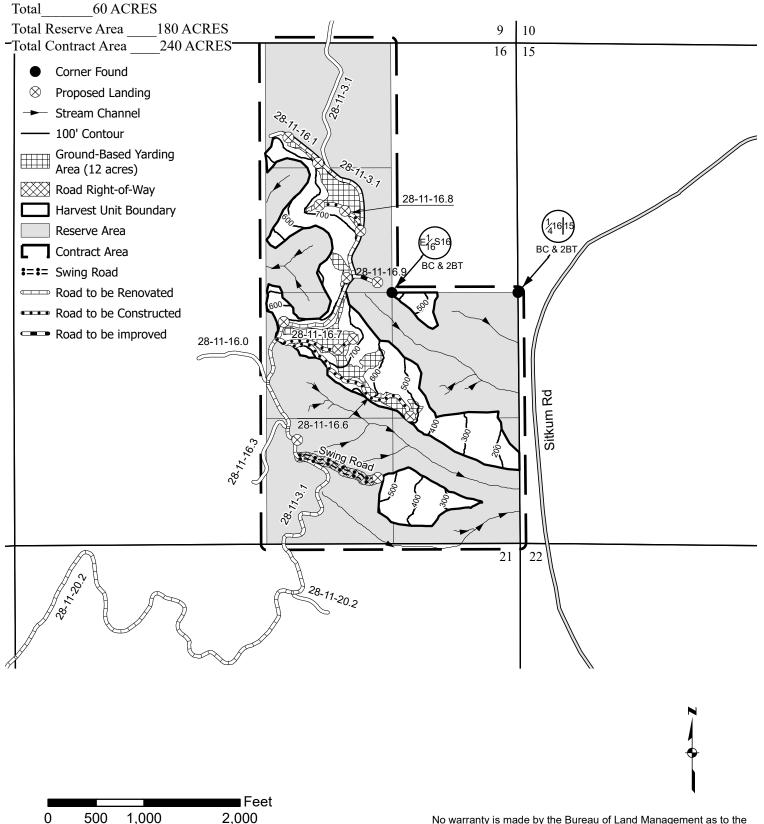


TIMBER SALE CONTRACT MAP USDI-BLM COOS BAY DISTRICT T. 28 S., R. 11 W., Sec. 16 Will. Mer.

1. 20 3., r. 11 vv., Sec Harvest Area

UNIT 1 _____56 ACRES

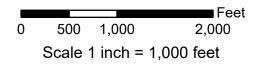
ROW _____4 ACRES



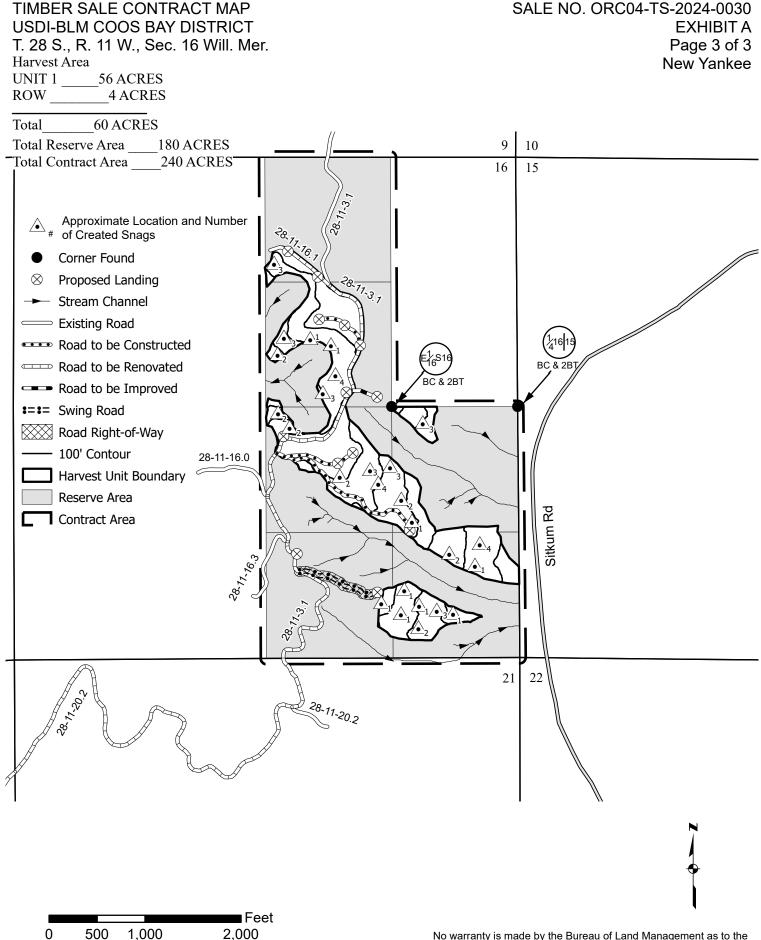
Scale 1 inch = 1,000 feet

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

TIMBER SALE CONTRACT MAP SALE NO. ORC04-TS-2024-0030 **USDI-BLM COOS BAY DISTRICT EXHIBIT A** Page 2 of 3 T. 28 S., R. 11 W., Sec. 16 Will. Mer. New Yankee Harvest Area UNIT 1 _____56 ACRES ROW 4 ACRE 60 ACRES Total Total Reserve Area 180 ACRES 9 10 Total Contract Area 240 ACRES 16 15 Approximate Location and Number ${oldsymbol{\odot}}_{{}^{\#}}$ of Individual Trees to be Reserved Corner Found Proposed Landing 28-77-3.7 \otimes Existing Road •••• Road to be Constructed Road to be Renovated $\frac{1}{16}$ S Road to be Improved BC & 2BT **:=:=** Swing Road Stream Channel 100' Contour Road Right-of-Way 28-11-16.0 Harvest Unit Boundary **Reserve** Area Sitkum Rd Contract Area 28.17.76.5 STELEVELSE 21 22 28. 17.20 28-11-20.2



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.



Scale 1 inch = 1,000 feet

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

EXHIBIT B
LUMP SUM SALE

page 1 Contract No: ORC04-TS-2024.0030

Sale Name
New Yankee

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.

SPECIES	ESTIMATED VOLUME in MBF		PRICE PER UNIT	AMOUNT OF ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas-fir	2650	MBF	\$207.90	\$550,935.00
Western Hemlock	292	MBF	\$50.10	\$14,629.20
Grand Fir	393	MBF	\$49.60	\$19,492.80
Port-Orford-cedar	27	MBF	\$38.00	\$1,026.00
Misc Hardwoods	7	MBF	\$23.00	\$161.00
western redcedar	5	MBF	\$288.40	\$1,442.00
Totals	3374	MBF		\$587,686.00

The apportionment of the total purchase price is as follows:

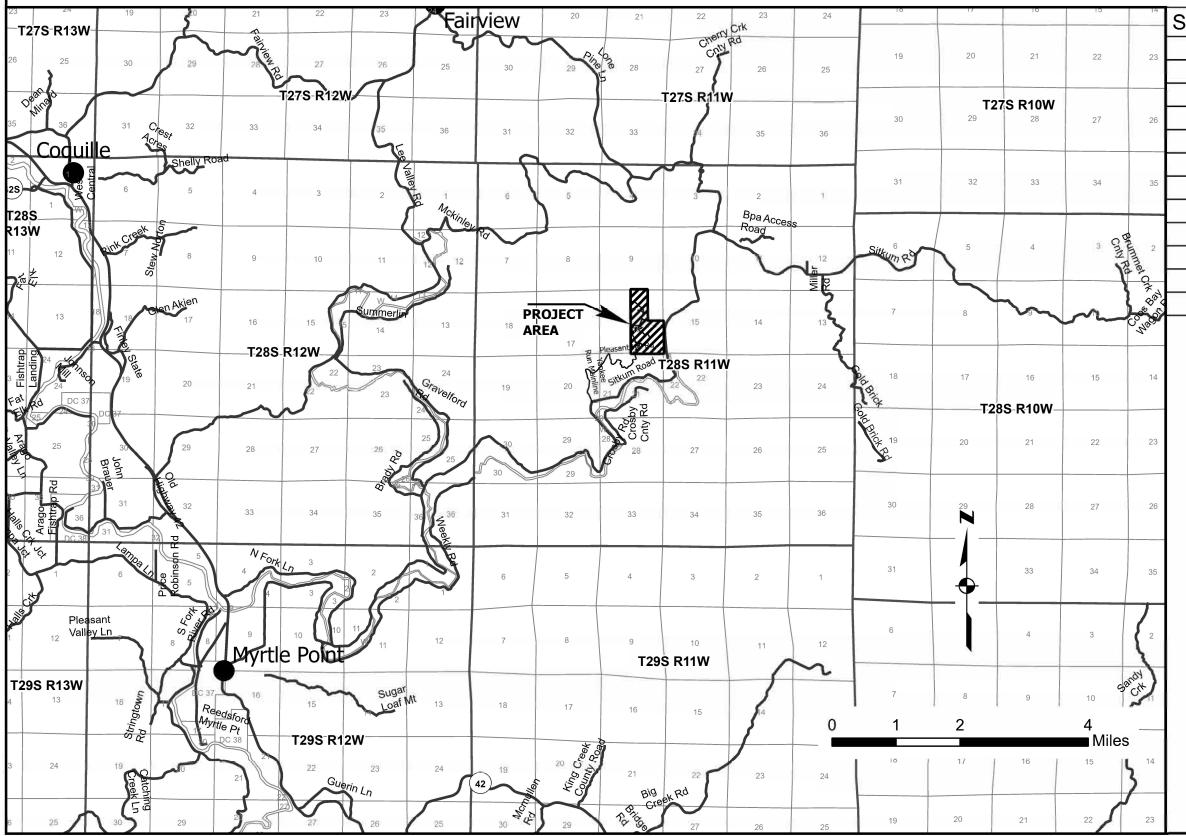
Approx. No. of Trees	UNIT NO. 1	EST. NET MBF VOL.		
3173	Douglas-fir	2375	\$207.90	\$493,762.50
484	western hemlock	263	\$50.10	\$13,176.30
409	Grand Fir	345	\$49.60	\$17,112.00
130	Port-Orford-cedar	27	\$38.00	\$1,026.00
47	Misc Hardwoods	7	\$23.00	\$161.00
30	Western red cedar	5	\$288.40	\$1,442.00
4273	TOTALS	3022		\$526,679.80

Approx					\$9,405.00	/Ac.	
Approx					Unit Total		\$526,679.80
Approx. No. of	UNIT RW						
Trees		EST. NET I	MBF VOL.				
3641	Douglas-fir	275	\$207.90)	\$57,172.50)	
55	western hemlock	29	\$50.10)	\$1,452.90)	
63	Grand Fir	48	\$49.60)	\$2,380.80	D	
3759 TOTALS	8	352			\$61,006.20)	

4	Acres =	\$15,251.55 /Ac.	
	U	nit Total	\$61,006.20

ORC04-TS-2024.0030 **NEW YANKEE** EXHIBIT C

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



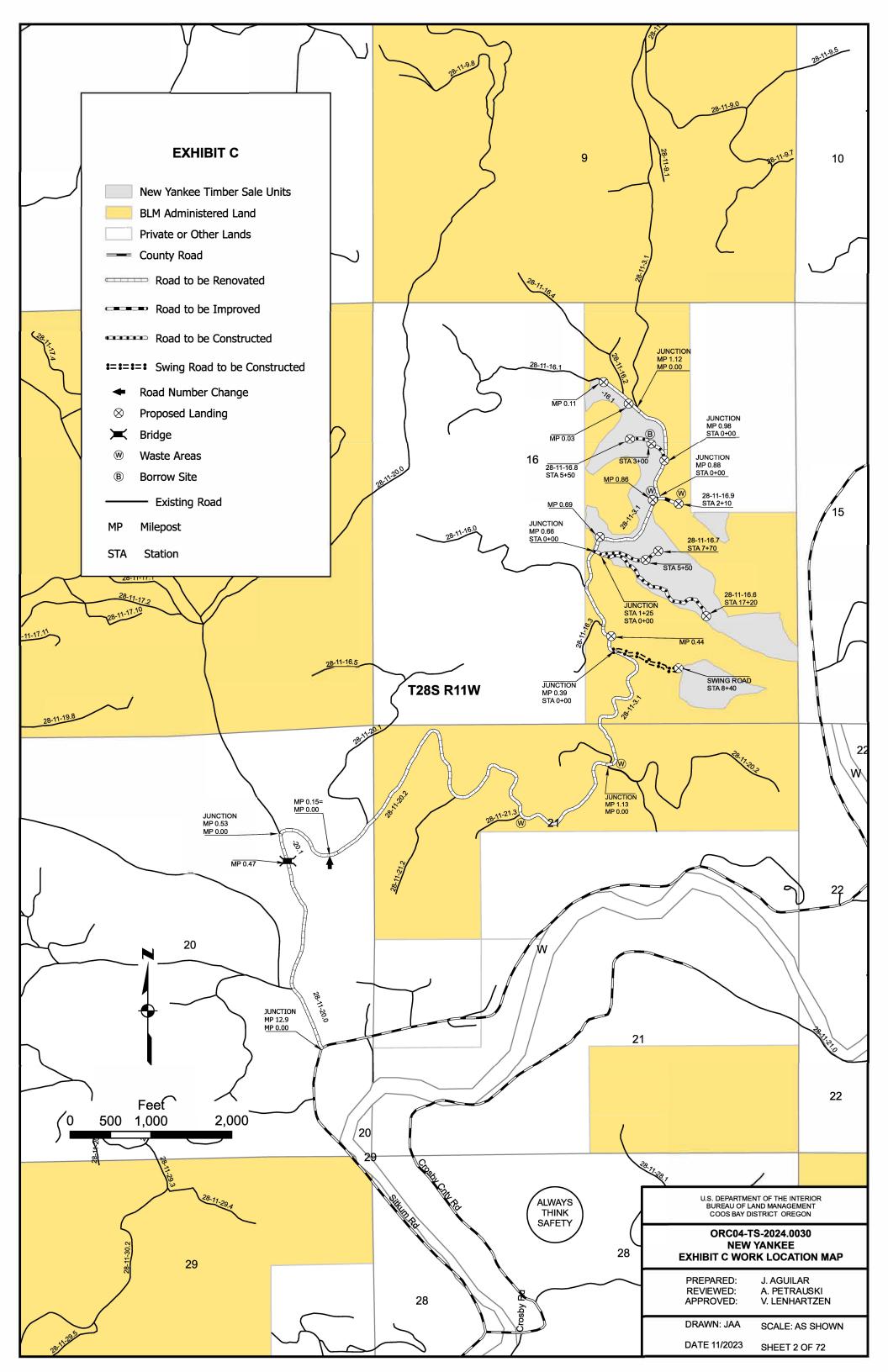
SHEET NO.	CONTENTS
1	TITLE SHEET
2	WORK LOCATION MAP
3-4	TYPICAL CROSS SECTION DETAIL
5-6	ESTIMATE OF QUANTITY
7	CULVERT INSTALLATION DETAIL
8	ROADSIDE BRUSHING DETAIL
9-12	28-11-16.6 PLAN & PROFILE
13	CONSTRUCTION PLANS
14-16	SPECIAL PROVISIONS
17-24	ROADS WORKLIST
25-31	CONSTRUCTION DETAILS
32-72	TIMBER SALE ROAD SPECIFICATIONS

BUREAU OF	IENT OF THE INTERIOR LAND MANAGEMENT DISTRICT OREGON
TITLE	E SHEET
PREPARED: REVIEWED:	J. AGUILAR A. PETRAUSKI



APPROVED: DRAWN: JAA V. LENHARTZEN SCALE: AS SHOWN

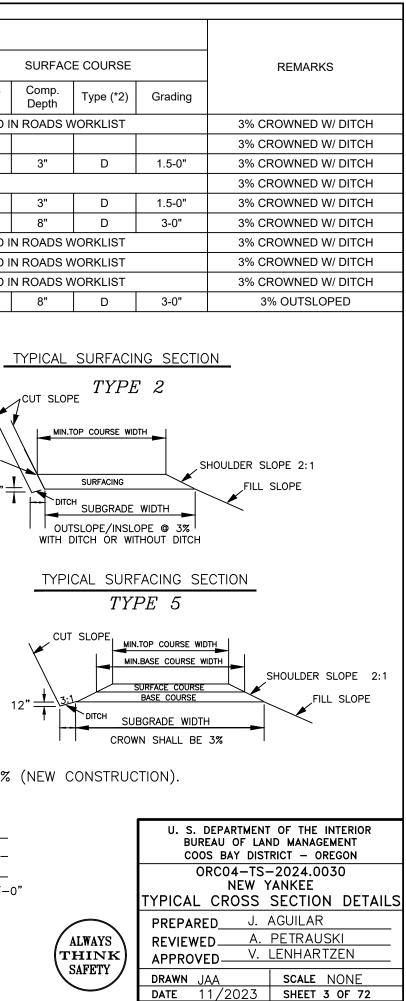
DATE 11/2023 SHEET 1 OF 72

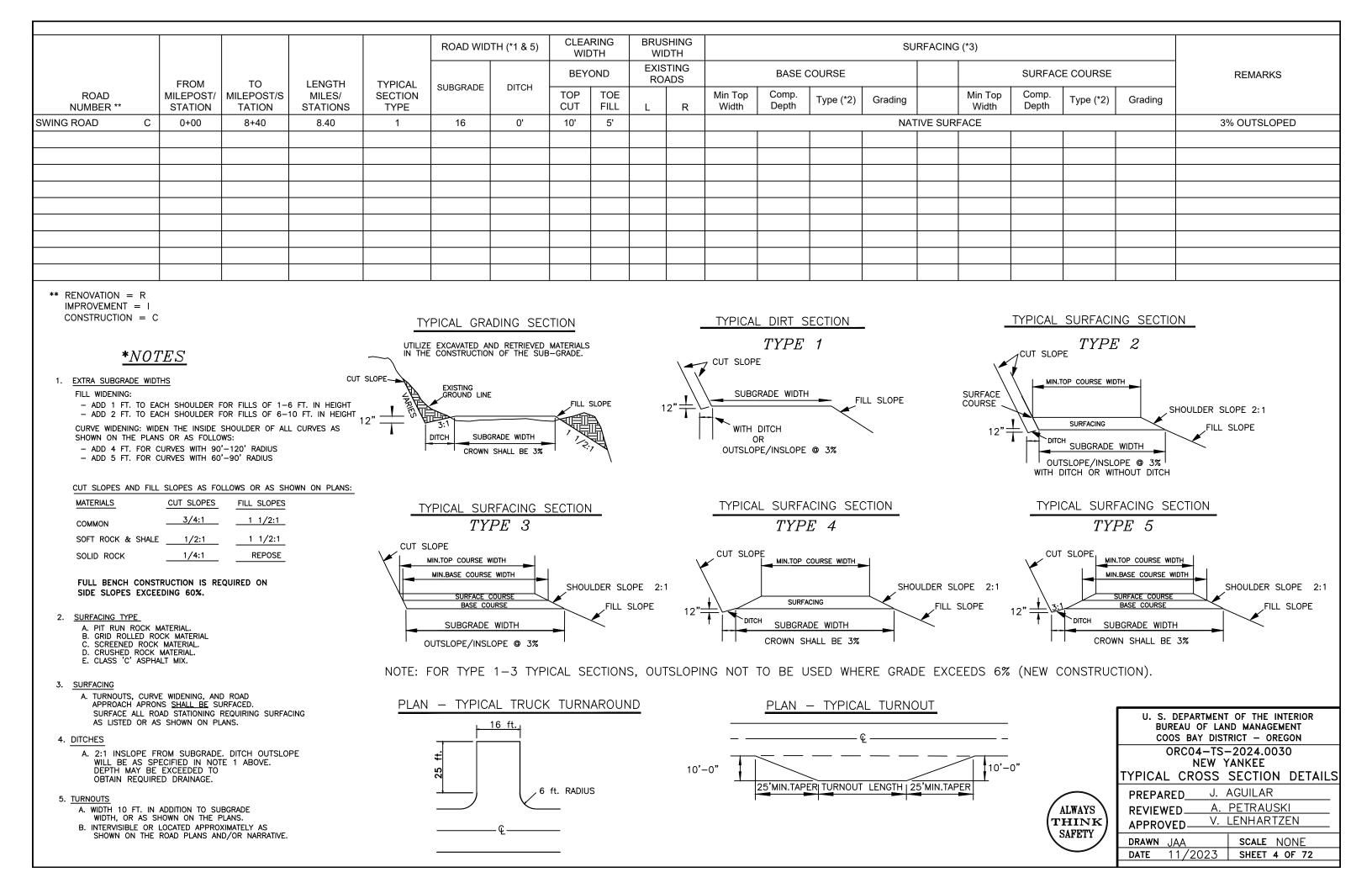


					ROAD WID	TH (*1 & 5)	CLEA WIE			SHING DTH				SU	IRFACING	(*3)	-
	FROM	то	LENGTH	TYPICAL	SUBGRADE	DITCH	BEY	DND	EXIS RO/			BASE COURSE					
ROAD NUMBER **	MILEPOST/ STATION	MILEPOST/ STATION	MILES/ STATIONS	SECTION	SUBGRADE	DITCH	TOP CUT	TOE FILL	L	R	Min Top Width	Comp. Depth	Туре (*2)	Grading		Min Top Width	
28-11-3.1 F	0.00	1.12	1.12	5	20'	2'			10'	10'		APPLY	SURFACE A	ND SPOT R	OCK AS S	PECIFIED	٦L
28-11-16.1 F	0.00	0.11	0.11	4	16'	2'			10'	10'							Γ
28-11-16.6 A C	0+00	2+25	2.25	5	16'	2'	10'	5'			13'	6"	D	3-0"		12'	Ī
28-11-16.6 B (2+25	17+20	14.95	1	16'	2'	10'	5'						NAT	TIVE SURF	ACE	
28-11-16.7 C	0+00	7+70	7.70	5	16'	2'	10'	5'			13'	6"	D	3-0"		12'	ſ
28-11-16.8 C	: 0+00	5+50	5.50	4	16'	2'	10'	5'								12'	ſ
28-11-20.0 F	0.00	0.53	0.53	5	20'	2'			10'	10'		APPLY	SURFACE A	ND SPOT R	OCK AS S	PECIFIED	1
28-11-20.1 F	0.00	0.15	0.15	5	20'	2'			10'	10'		APPLY	SURFACE A	ND SPOT R	OCK AS S	PECIFIED	1
28-11-20.2 F	0.00	1.13	1.13	5	20'	2'			10'	10'		APPLY	SURFACE A	ND SPOT R	OCK AS S	PECIFIED	1
28-11-16.9	0+00	2+10	2.10	2	16'	0'	10'	5'								12'	Γ
 ADD 2 FT. TO CURVE WIDENING: V SHOWN ON THE PL ADD 4 FT. FOF ADD 5 FT. FOF 	VIDEN THE INSIDE ANS OR AS FOLLO CURVES WITH 90	SHOULDER OF A DWS: D'-120' RADIUS	-6 FT. IN HEIGHT -10 FT. IN HEIGHT _L CURVES AS			RADE WIDTH			I	2"	-	DITCH R ÞE/INSLOPE	@ 3%			12"-	
CUT SLOPES AND F	ILL SLOPES AS FO	DLLOWS OR AS S	HOWN ON PLANS:														
MATERIALS	CUT SLOPES	FILL SLOPES		Т	PICAL SUF	RFACING S	SECTION				TYPICA	L SURFA	ACING SEC	CTION			
MATERIALS COMMON	CUT SLOPES 3/4:1	FILL SLOPES		<u></u>	PICAL SUF		SECTION				TYPICA	l surfa					
	3/4:1	· · ·			TYI	RFACING S PE 3	SECTION	<u> </u>			ΤΥΡΙϹΑ						
COMMON	3/4:1 LE 1/2:1 1/4:1 ISTRUCTION IS RI CEEDING 60%.	1 1/2:1 1 1/2:1 REPOSE		CUT S	TYI			LDER SLO	DPE 2:1 SLOPE	12"-	CUT SLOF			-	ULDER SLO		1

____ C _

- A. WIDTH 10 FT. IN ADDITION TO SUBGRADE WIDTH, OR AS SHOWN ON THE PLANS. B. INTERVISIBLE OR LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS AND/OR NARRATIVE.





								ê		E	CAVATION 8	EMBANKME	NT		
ROAD NUMBER	NEW CONSTRUCTION	RENOVATION	IMPROVEMENT	NEW FEATURE CONSTRUCTION	SLASH TREATMENT (*4, 5)	GRUBBING (*4, 5)	ROADSIDE BRUSHING (*6)	RENOVATION EARTHWORK (*8, 9)	COMMON (*7)	RIPPABLE ROCK	ROCK CUT	FILL (*7)	SHORT HAUL 100-500' (*10)	LONG HAUL 500'+ (*10)	18"
SECTION NO.	300	500	500	300	200	200	2100	500	300	300	300	300	300	300	400
UNITS	STA.	STA.	STA.	EA.	AC.	AC.	AC.	СҮ	C.Y.	C.Y.	C.Y.	C.Y.	STA.YDS.	YD.MI.	L.F.
28-11-3.1		59.14		1	1.0	1.0	2.7	525							
28-11-16.1		5.81					0.3	25							
28-11-16.6 A & B	17.20				1.8	1.8			3900			3900	6300		172
28-11-16.7	7.70				0.8	0.8			1300			1300	1100		60
28-11-16.8	5.50				0.6	0.6			650			650	163		
28-11-20.0		27.98					1.3	225							
28-11-20.1		7.92					0.4	100							
28-11-20.2		59.66					2.7	575							
28-11-16.9			2.10		0.2	0.2			200			200			
SWING ROAD	8.40				0.8	0.8			1000			1000	563	119	
PROJECT TOTALS	38.80	160.51	2.10	1	5.2	5.2	7.4	1450	7050			7050	8126	119	232

*1 CPP - CORRUGATED POLYETHYLENE PIPE

*2 CMP - CORRUGATED METAL PIPE

*3 SEE CULVERT DEATAILS SHEET

*4 IF NOT SHOWN, MAY BE INCLUDED IN EXCAVATION AS TIME & EQUIPMENT.

*5 MAY BE ASSOCIATED WITH NEW FEATURE CONSTRUCTION AND/OR TREE REMOVAL FROM EXISTING ROADWAY (HEAVY RENO).

*6 ROAD BRUSHING ASSOCIATED WITH RENOVATION ("HEAVY"), MAY

- BE INCLUDED IN CLEARING, GRUBBING, & SLASH TREATMENT. *7 VOLUMES ARE ADJUSTED EMBANKMENT.
- *8 CUT SLOPE & FILL FAILURES, DITCH & CATCH BASIN CLEANING (COST ACCOUNTED FOR ANY ASSOCIATED ENDHAUL OF GENERATED MATERIAL).
- *9 MAY BE INCLUDED IN EXCAVATION (SECTION 300).

*10 LOOSE VOLUME.

ESTIMATE OF QUANTITIES**

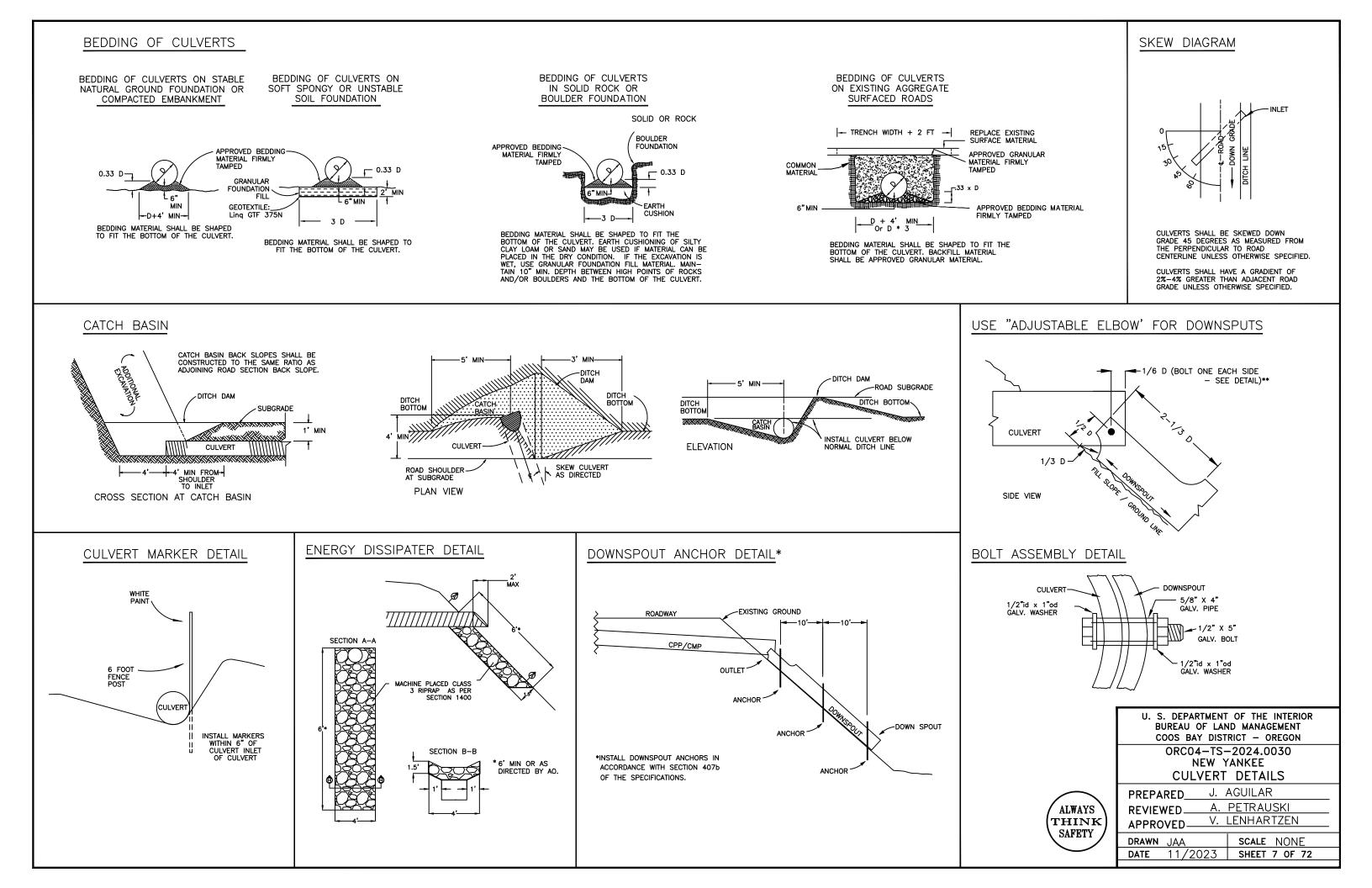
** FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS.

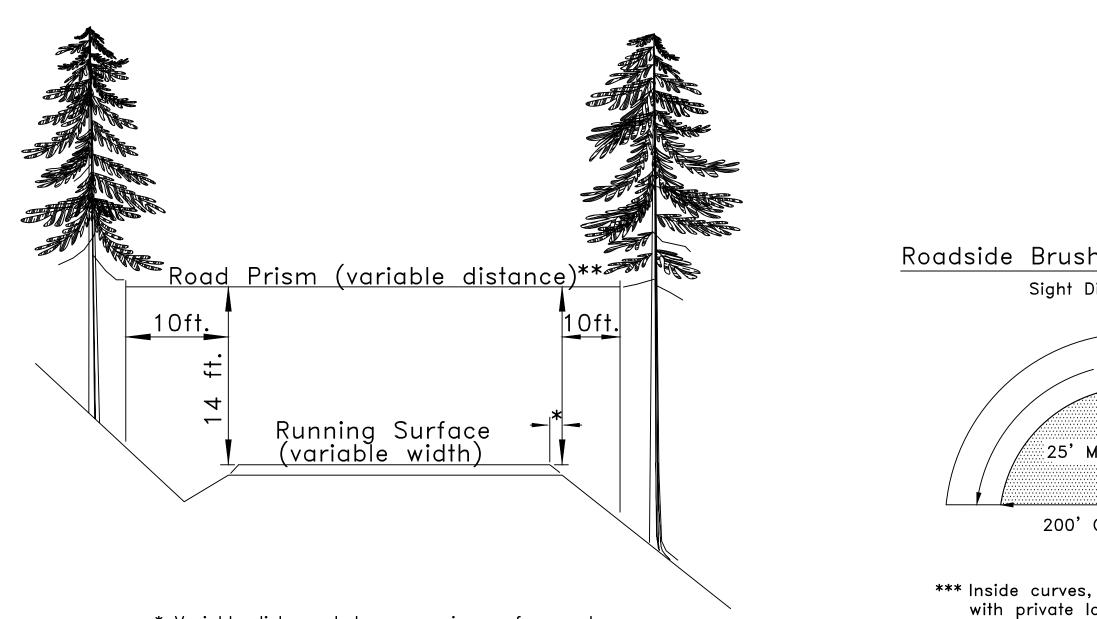
(CPP (*1, 3)	СМР		DOWNSP	OUTS (*3)			
	24"	36"	12"	FULL ROUND						
				CF	P	CI	MP	DOWNSPOUT ANCHORS		
				18"	24"	18"	24"			
	400	400	400	400	400	400	400	400		
	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.		
				COOS	AU OF L BAY DI	AND MA	NAGEME - OREG	ENT SON		
		ORC04–TS–2024.0030 NEW YANKEE ESTIMATE OF QUANTITIES								



U. S. DEPARIMENT OF THE INTERIOR							
BUREAU OF LAND MANAGEMENT							
COOS BAY DISTRICT - OREGON							
ORC04-TS-	2024.0030						
NEW Y	ANKEE						
ESTIMATE OF	QUANTITIES						
PREPARED J. A	GUILAR						
REVIEWED A. F	PETRAUSKI						
	ENHARTZEN						
AFFROVED							
DRAWN JAA							
DATE 11/2023	SHEET 5 OF 72						

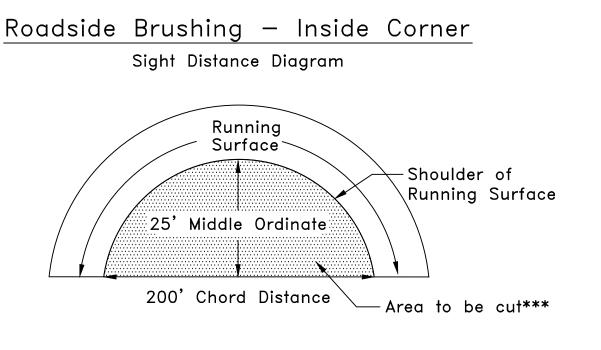
			SURF	ACING				OTHER		SOIL STAE	BILIZATION					
ROAD NUMBER	6-0" JAW RUN	3-0" BASE ROCK	3-0" SURFACE ROCK	1.5-0" SURFACE ROCK	1.5-0" SPOT ROCK	0.75-0" SURFACE ROCK	1.5-0" CULVERT ROCK	CLASS 3 RIP RAP (*5)	CLASS 4 RIP RAP (*6)	SEED AN	D MULCH HYDRO	OTHER (SEDIMENT CONTROL				
	(*2)	(*1)	(*1)	(*3)	(*3)	(*4)	(*3)					DEVICES)				
SECTION NO.	1000	1000	1000	1200	1200	1200	1200	1400	1400	1800	1800	1700				
UNITS	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	ACRES	ACRES	EACH				
28-11-3.1	125				150					1.5						
28-11-16.1	50									0.1				¥N	DTE	
28-11-16.6		99		35						1.0				<u>س</u> ار (
28-11-16.7	100	284		127						0.5			*	SECTION	GRADE	SIZE
28-11-16.8	100		258							0.6			1	1000	Α	3-0"
28-11-20.0					50					1.0		8	2	1000	T	6-0"
28-11-20.1					50					0.2		4	3	1200	C	1.5-0"
28-11-20.2					170					1.4		8	4	1200	E1	0.75-0
28-11-16.9	50		96							0.1			5	1400	CLASS 3	
SWING ROAD										0.4			6	1400	CLASS 4	
													7	2600	DDDT LEVEL III ASPHALT	DENSI PG64- 2
PROJECT TOTALS	425	383	354	162	420					6.8		20	U.	S. DEPARTM	ENT OF THE	INTERIO
				STIM ** for info all rock	RMATIONAL		QUANTITIES	SHOWN ARE	NOT PAY I			ALWAYS THINK SAFETY	PRE REV APP DRAV	NEW ESTIMATE PARED IEWED/	ISTRICT - 0 S-2024.0 YANKEE OF QUAI A. AGUILAI A. PETRAI LENHAF	DREGON DO30 NTITIES R JSKI





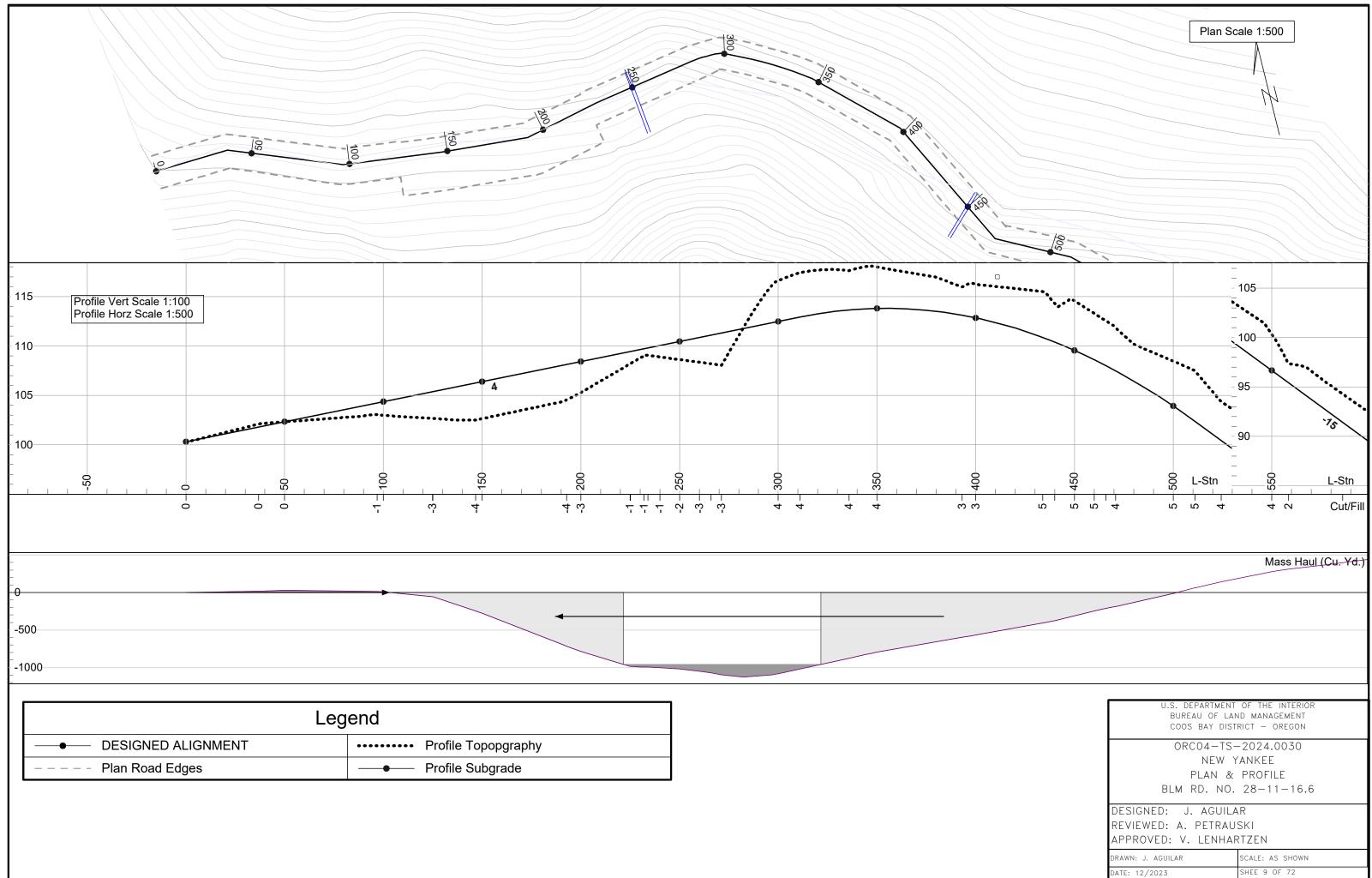
- * Variable distance between running surface and start of fill slope.
- ****** All areas within the variable distance shall be free of all vegetation capable of growing one (1) foot in height or higher, and free of all overhanging limbs and branches 14 feet in elevation above the running surface.

area.

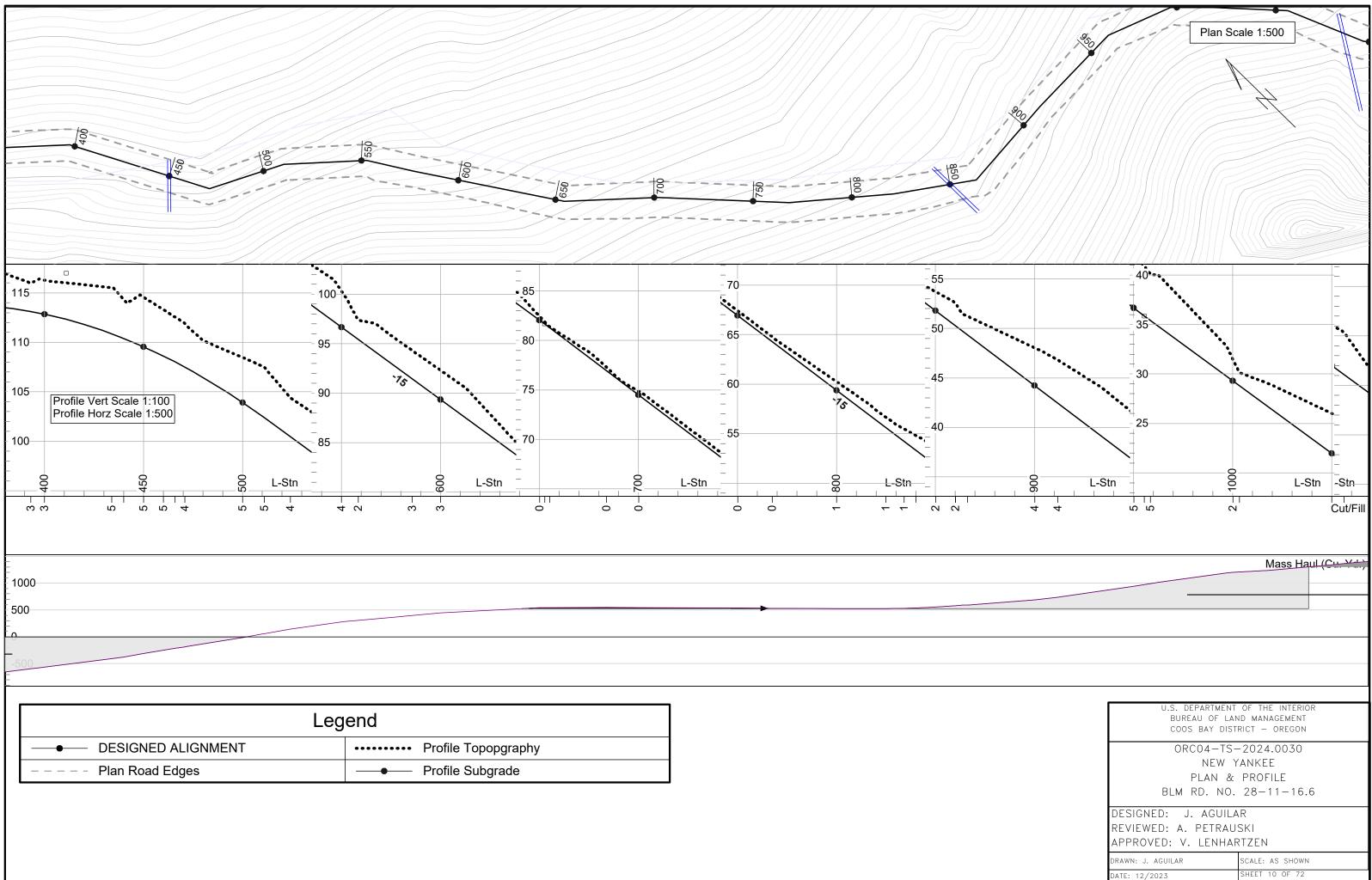


*** Inside curves, upon BLM lands or in coordination with private landowners, shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot height, shall be cut within this

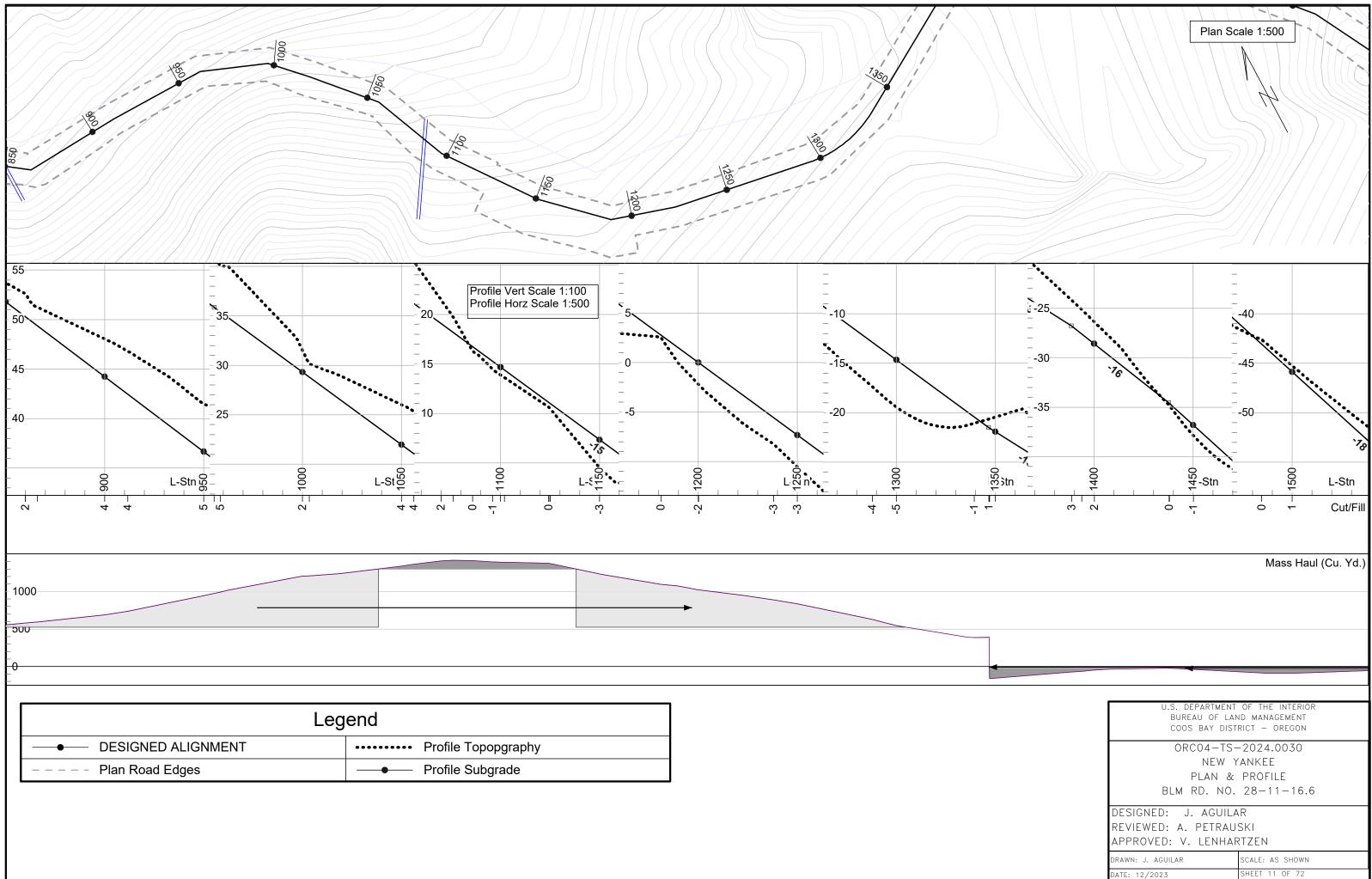
	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON					
	ORCO4-TS-2024.0030 NEW YANKEE ROADSIDE BRUSHING DETAILS					
ALWAYS	PREPAREDJ.AGUILARREVIEWEDA.PETRAUSKIAPPROVEDV.LENHARTZEN					
SAFETY	DRAWNJAASCALENONEDATE11/2023SHEET 8 OF 72					



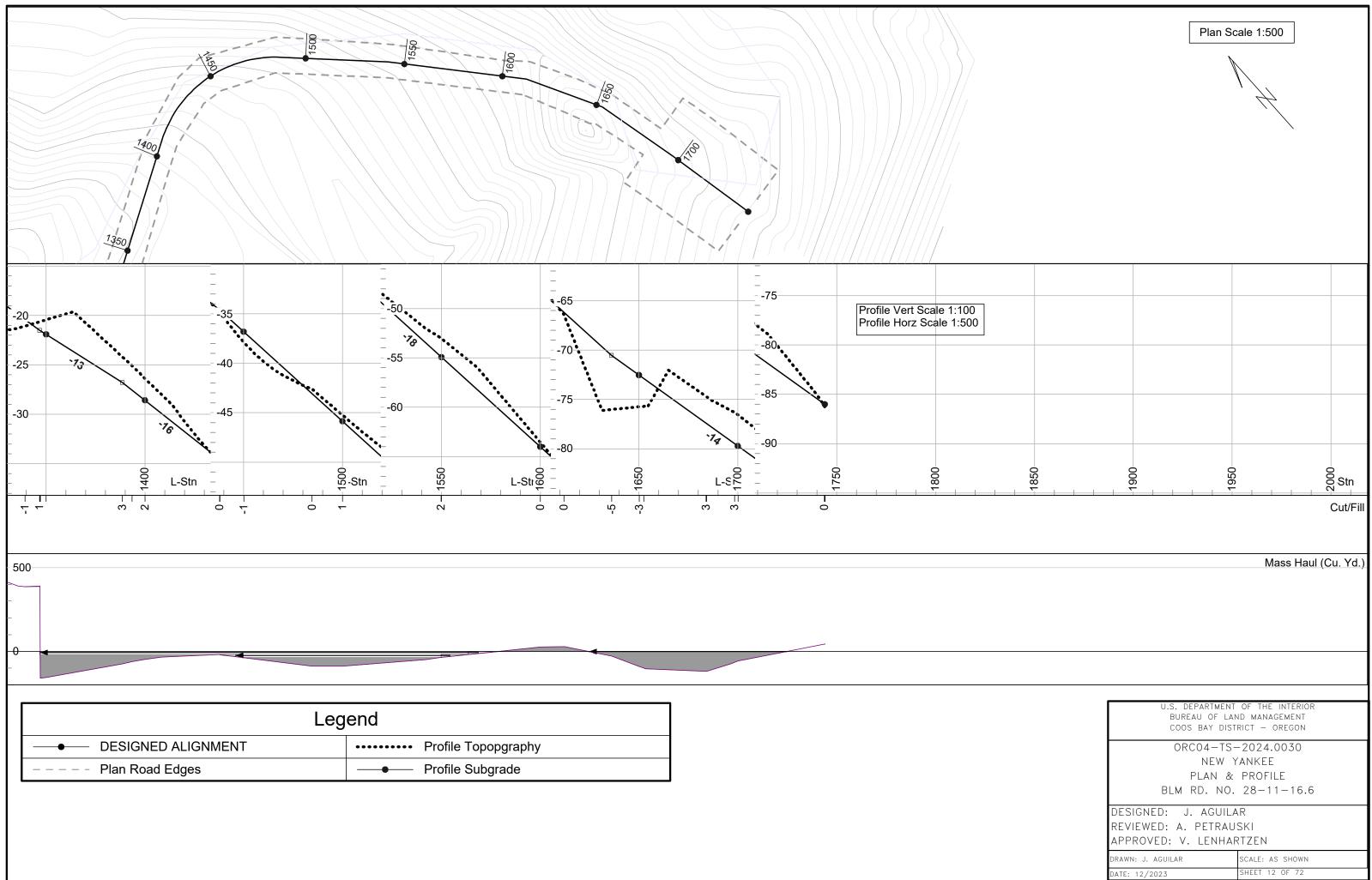
Legend						
DESIGNED ALIGNMENT	Profile Topopgraphy					
– – – – – Plan Road Edges	Profile Subgrade					



Legend						
DESIGNED ALIGNMENT	Profile Topopgraphy					
– – – – – Plan Road Edges	Profile Subgrade					



Legend		
DESIGNED ALIGNMENT	Profile Topopgraphy	
– – – – Plan Road Edges	Profile Subgrade	

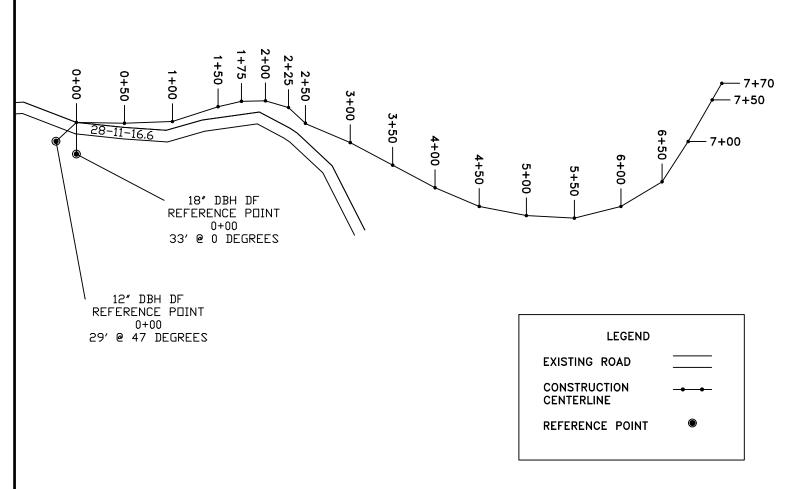


Leg	lend
DESIGNED ALIGNMENT	Profile Topopgraphy
– – – – – Plan Road Edges	Profile Subgrade

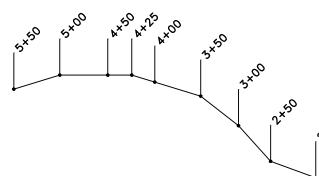
		BLM R	OAD NO. 28-	11-16.7
STA	HORIZONTAL DISTANCE	AZIMUTH	% GRADE	NOTES
0+00	50'	91	8	SEE CONSTRUCTION DETAIL SHEET
0+50	50'	88	8	
1+00	50"	72	13	
1+50	25'	77	13	
1+75	25'	89	13	
2+00	25'	106	10	
2+25	25'	133	10	
2+50	50'	113	10	
3+00	50'	118	12	
3+50	50'	118	7	
4+00	50'	113	4	
4+50	50'	101	0	
5+00	50'	93	-5	CONSTRUCT ROADSIDE LANDING
5+50	50'	76	-8	
6+00	50'	59	-4	
6+50	50'	33	-4	
7+00	50'	30	-4	
7+50	20'	30	-4	
7+70				CONSTRUCT END LANDING

N

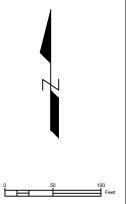
0 50 100 Feet

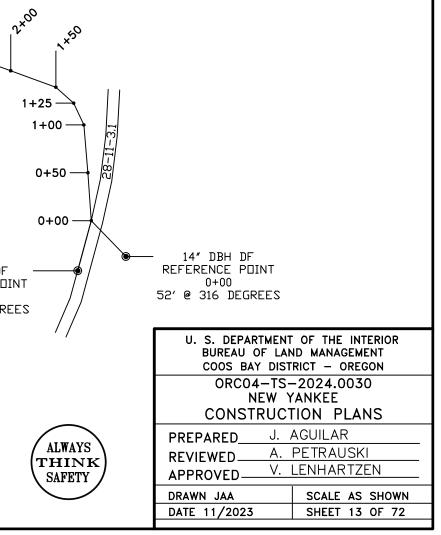


		BLM R	OAD NO. 28-	11-16.8
STA	HORIZONTAL DISTANCE	AZIMUTH	% GRADE	NOTES
0+00	50'	356	10	SEE CONSTRUCTION DETAIL SHEET
0+50	50'	355	15	
1+00	25'	335	14	
1+25	25'	312	14	
1+50	50'	290	10	
2+00	50'	290	8	
2+50	50'	318	5	
3+00	50'	308	2	CONSTRUCT ROADSIDE LANDING
3+50	50'	287	-3	
4+00	25'	287	-3	
4+25	25'	270	-3	
4+50	50'	270	-3	
5+00	50'	253	-3	
5+50				CONSTRUCT END LANDING



35″ DBH DF REFERENCE PDINT 0+00 54′ @ 15 DEGREES





SPECIAL PROVISIONS

Purchaser Responsibility

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

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

The Purchaser shall be required to secure written approval (BLM Haul Authorization) 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 over 80,000 lbs gross. Allow up to 30 days processing time in advance of bridge use.

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

Seasonal 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.

Oregon Department of Fish and Wildlife (ODFW) guidelines for timing of in-water work limits stream culvert installation to the period between July 1 and September 15.

Uniform Optimum Moisture Content

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

In-place Density and Relative Compaction Field Testing

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

Culverts

Culvert lengths listed in Roads Worklist and Estimate of Quantity sheets are estimated culvert lengths. Final culvert lengths shall be installed to fit the actual ground & site conditions of proposed work locations. "Shotgun" pipes, or short lengths with a trench, shall not be accepted.

Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions.

Culvert side-fill material, meeting Timber Sale Road Specification, will be brought up evenly and simultaneously on both sides of pipe, in layers not exceeding 6" in depth with each layer compacted using approved tamper (appraised using 19.7" plate compactor). Each layer shall be moistened or dried to a uniform optimum moisture content suitable for maximum compaction.

All culverts removed under the contract become the property of the Purchaser and shall be legally disposed off BLM and private lands.

Culvert renovation work shall be completed to all culverts for renovated and improved roads regardless of being identified in Roads Worklist. It is likely that unidentified culverts will be exposed with active roadwork. Additional costs are included to cover culvert renovation work for extra culverts.

Over-wintering

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

Waste Areas

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

Spill Containment

Spill containment kit is required on-site during work.

Equipment Washing

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

Native Seed

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

Erosion Control Straw Wattle Check Dam / Sediment Fence

Purchaser shall furnish and install check dams. Check dams will be installed in drainage ditch at locations specified in Roads Worklist or as directed by Authorized Officer. Each check dam shall consist of 5' section of biodegradable, seed free, 9" diameter straw wattle product and 3 wooden stakes measuring 1" x 2" x 30". Straw wattle shall be installed in drainage ditch bottom and continued up sides, perpendicular to flow of water, with ends of wattle facing slightly upstream. Straw wattle shall be secured with wooden stakes placed at center and ends of wattle section. Wooden stakes shall be driven through center of wattle and into the ground for a minimum of 24" inches. Straw wattle shall not be defective or damaged. Damaged or defective wattles, as determined by Authorized Officer shall be replaced at Purchasers expense. Check dams may be converted to function as sediment fence.

Rock Quantity Accounting

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

ORC04-TS-2024.0030 NEW YANKEE EXHIBIT C Page **17** of **72**

ROADS WORKLIST

RENOVATE BLM ROAD NO. 28-11-3.1 Milepost 0.00 to 1.12

MP.	Remarks

0.0 Junction with BLM Road No. 28-11-20.2 at milepost (MP) 1.13.

Remove cut slope failures (estimated 10 cubic yards (CY)). Place associated root wads in a stable manner, on downhill side of road.

Begin cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1000, 1200, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

- **NOTE:** Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12" depth of surfacing). Bottom of ditch shall be at least 3' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures may be placed in a stable manner upon fill slope utilizing equipment with a bucket. Some end haul of waste material may be required as specified in Roads Worklist or as directed by Authorized Officer. Estimated 475 CY of material to be removed.
- **NOTE:** Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12" depth of surfacing). Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.
- **NOTE:** Estimated 50 CY of cut slope failure material will be treated as directed by Authorized Officer. Estimated cubic yards of failure material includes specified and unspecified failures located along road.
- **NOTE:** The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections and as in the plans.
- **NOTE:** From milepost 0.00 to 1.12, place 150 CY 1.5-0" crushed aggregate surfacing as directed by BLM Authorized Officer.
- **NOTE:** Any waste material associated with ditch cleaning and/or cut slope failure, within 200' either side of a stream crossing culvert, shall be end hauled to designated waste areas.
- 0.02 Junction, road left not proposed for timber sale use.

Develop waste area right, in accordance with Sections 200, 300, and 1800 of the Timber Sale Road Specifications.

- 0.12 Remove storm damage material within roadway (area between top of cut and toe of fill). Blowdown material, associated stumps and root wads shall be treated in accordance with Section 200 of the Timber Sale Road Specifications.
- 0.14 Existing 36" x 70' corrugated metal pipe (CMP) stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.17 Renovate existing truck turnout right.
- 0.18 Remove root wad.
- 0.20 Remove root wad.
- 0.22 Existing 18" x 40' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.37 Existing 18" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.39 Junction, construct swing road right.
- 0.41 Existing 18" x 40' CMP stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.44 Proposed on-road landing associated with swing road operations.

Renovate existing truck turnout right. Remove merchantable material (trees identified with blue painted cut mark). 40 CY of jaw run rock allocated to surface truck turnout to compacted 6" depth.

- 0.46 Junction, BLM Road No. 28-11-16.3 left. Road not proposed for timber sale use.
- 0.53 Remove storm damage material within roadway (area between top of cut and toe of fill). Blowdown material, associated stumps and root wads shall be treated in accordance with Section 200 of the Timber Sale Road Specifications.
- 0.57 Renovate ditch out left.

Junction, BLM Road No. 28-11-16.0 left. Road not proposed for timber sale use. Utilize "Y"- junction as truck turnaround.

- 0.58 Existing 18" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.61 Remove storm damage material within roadway (area between top of cut and toe of fill). Blowdown material, associated stumps and root wads shall be treated in accordance with Section 200 of the Timber Sale Road Specifications.
- 0.65 Renovate ditch out left.
- 0.66 Junction, construct BLM Road No. 28-11-16.6 right.
- 0.69 Proposed on-road landing.

Renovate existing truck turnout left.

- 0.77 Remove storm damage material within roadway (area between top of cut and toe of fill). Blowdown material, associated stumps and root wads shall be treated in accordance with Section 200 of the Timber Sale Road Specifications.
- 0.80 Existing 18" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.84 Renovate ditch out right.
- 0.86 Construct 60' diameter landing with 50' approach left in accordance with Sections 200, 300, 600, 1000, 1700, and 1800 of the Timber Sale Road Specifications. 85 CY of jaw run rock allocated to surface landing and approach to compacted 6" depth.

Designated waste area location.

- 0.88 Junction, improve BLM Road No. 28-11-16.9 right.
- 0.98 Proposed on-road landing.

Junction, construct BLM Road No. 28-11-16.8 left.

- 1.00 Existing 18" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 1.11 Existing 18" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 1.12 Junction, Renovate BLM Road No. 28-11-16.1 left.

End renovation.

RENOVATE BLM ROAD NO. 28-11-16.1 Milepost 0.00 to 0.11

- MP. Remarks
- 0.00 Junction with BLM Road No. 28-11-3.1 at MP 1.12.

Begin cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1000, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 4 (with existing 8" depth of surfacing). Bottom of ditch shall be at least 3' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures may be placed in a stable manner upon fill slope utilizing equipment with a bucket. Some end haul of waste material may be required as specified in Roads Worklist or as directed by Authorized Officer. Estimated 25 CY of material to be removed.

- **NOTE:** Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 4 (with existing 8" depth of surfacing). Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.
- 0.03 Proposed on-road landing w/ 20' wide x 30' long adjacent operational area left. Adjacent operational area will remain native surfaced.
- 0.05 Junction, BLM Road No. 28-11-16.2 right. Road not proposed for timber sale use.
- 0.11 Renovate existing roadside landing left. 50 CY of jaw run rock allocated to surface landing to compacted 6" depth.

End renovation.

RENOVATE BLM ROAD NO. 28-11-20.0 (Yankee Run Mainline) Milepost 0.00 to 0.53

- MP. Remarks
- 0.00 Junction with Sitkum Lane County Road at MP 12.9.

Begin cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1200, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

- **NOTE:** Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12+" depth of surfacing). Bottom of ditch shall be at least 3' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste site. Estimated 225 cubic yards CY of material to be removed.
- **NOTE:** Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12+" depth of surfacing). Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.
- **NOTE:** The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections and as in the plans.
- **NOTE:** From milepost 0.00 to 0.53, place 50 CY 1.5-0" crushed aggregate surfacing as directed by BLM Authorized Officer.
- NOTE: Eight (8) check dams shall be installed at direction of Authorized Officer.

0.15 Junction, private spur road left, not proposed for timber sale use.

Existing 18" x 40' corrugated polyethylene pipe (CPP) cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.

- 0.17 Existing aquatic organism passage (AOP) stream crossing culvert.
- 0.18 Junction, private spur road left, not proposed for timber sale use.
- 0.32 Existing 18" x 30' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.33 Renovate existing truck turnout right.
- 0.43 Existing bituminous surfacing begins (bridge approach).
- 0.47 Concrete bridge BLM owned & controlled structure. Clean bridge deck by manual or mechanical means. Sweep, collect, and dispose dirt and debris as instructed by Authorized Officer. Dirt and debris shall not be discharged into waters of the state.
- 0.48 Existing bituminous surfacing ends (bridge approach).
- 0.53 Junction, renovate BLM Road No. 28-11-20.1 right.

End renovation.

RENOVATE BLM ROAD NO. 28-11-20.1 (private own / BLM improvement) Milepost 0.00 to 0.15

- MP. Remarks
- 0.00 Junction BLM Road No. 28-11-20.0 at MP 0.53

Existing 18" x 34' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.

Begin cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1200, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12" depth of surfacing). Bottom of ditch shall be at least 3' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste site. Estimated 50 cubic yards CY of material to be removed.

- **NOTE:** Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12" depth of surfacing). Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.
- **NOTE:** Estimated 50 CY of cut slope failure material will be treated as directed by Authorized Officer. Estimated cubic yards of failure material includes specified and unspecified failures located along road.
- **NOTE:** The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections and as in the plans.
- **NOTE:** From milepost 0.00 to 0.15, place 50 CY 1.5-0" crushed aggregate surfacing as directed by BLM Authorized Officer.
- NOTE: Four (4) check dams shall be installed at direction of Authorized Officer.
- 0.12 Existing 18" x 40' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.15 Road number change.

End renovation to BLM Road No. 28-11-20.1.

Begin renovation to BLM Road No. 28-11-20.2.

RENOVATE BLM ROAD NO. 28-11-20.2 (Pleasant Hill Road) Milepost 0.00 to 1.13

- MP. Remarks
- 0.00 Road number change with BLM Road No. 28-11-20.1 at MP 0.15.

Begin cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1200, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12" depth of surfacing). Bottom of ditch shall be at least 3' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste site, however, when site conditions permit and with <u>written approval</u> from the Authorized Officer, excavated material may be placed in a stable manner upon fill slope utilizing equipment with a bucket. Estimated 475 cubic yards CY of material to be removed.

- **NOTE:** Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with existing 12" depth of surfacing). Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.
- **NOTE:** Estimated 100 CY of cut slope failure material will be treated as directed by Authorized Officer. Estimated cubic yards of failure material includes specified and unspecified failures located along road.
- **NOTE:** The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections and as in the plans.
- **NOTE:** From milepost 0.00 to 1.13, place 150 CY 1.5-0" crushed aggregate surfacing as directed by BLM Authorized Officer.
- NOTE: Eight (8) check dams shall be installed at direction of Authorized Officer.
- 0.16 Renovate existing truck turnout right.
- 0.18 Existing 18" x 64' CPP stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.20 Existing 18" x 50' CPP stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.29 Existing 18" x 40' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.38 Existing 18" x 60' CMP stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.47 Existing 18" x 36' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.48 Remove cut slope failure (estimated 30 CY).
- 0.55 Renovate existing truck turnout right.
- 0.64 Remove cut slope failure (estimated 15 CY). Place associated root wads in a stable manner, on downhill side of road.
- 0.74 Existing 18" x 60' CMP stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.77 Remove cut slope failure (estimated 40 CY). Place associated root wads in a stable manner, on downhill side of road. Nonfunctioning ditch has negatively impacted road drainage. Utilize 20 CY of 1.5-0" crushed aggregate spot rock to improve travelway and drainage.
- 0.78 Renovate existing truck turnout right.
- 0.81 Existing 18" x 40' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.83 Junction, private spur road right, not proposed for timber sale use.

- 0.89 Existing 18" x 40' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.92 Renovate existing truck turnout right.
- 0.96 Existing 18" x 40' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 0.98 Remove cut slope failure (estimated 10 CY).

Develop waste area right, in accordance with Sections 200, 300, and 1800 of the Timber Sale Road Specifications.

- 1.10 Existing 18" x 40' CPP stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 1.12 Existing 30" x 56' CMP stream crossing culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 1.13 Junction, renovate BLM Road No. 28-11-3.1 left.

End renovation.

IMPROVE BLM ROAD NO. 28-11-16.9 Station 0+00 to 2+10

- STA. Remarks
- 0+00 Junction with BLM Road No. 28-11-3.1 at milepost 0.88.

Begin improvement, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 200, 300, 600, 1000, 1700, and 1800 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

- **NOTE:** From station 0+00 to 2+10, install 8" lift of compacted 3-0" crushed aggregate surfacing.
- 2+10 Improve existing landing right. 50 CY of jaw run rock allocated to surface landing to compacted 6" depth.

Designated waste area.

End improvement.

CONSTRUCTION DETAIL SHEET ROAD NO. 28-11-16.6 SEG. A & B

GENERAL

Purchaser shall construct Road No. 28-11-16.6 segment A from Sta. 0+00 to 2+25 and segment B from 2+25 to Sta. 17+20 as shown on the work location map. This work shall be accomplished in accordance with Timber Sale Road Specification, plan & profile, and details which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be $\frac{3}{4}$:1 (horizontal:vertical) and fill slopes shall be $\frac{1}{2}$:1 or as shown on plans.

TURNOUTS

Station 1+25 Construct 100' truck turnout right (width to assist with construction of junction with -16.7 road). Surface with 6" lift compacted 3-0" base course.

Station 11+25 Construct 75' truck turnout right.

SUBGRADE

Estimated 3900 CY of excavation and embankment associated with the construction of subgrade and end landing. Maximum cut and fill depths associated with subgrade estimated at 5 feet and 5 feet respectively.

DRAINAGE FEATURES

Crowned at 3% with 2' ditch to achieve drainage.

Station 0+25 18" x 30' corrugated polyethylene pipe (CPP) cross drain culvert.

Station 2+30 18" x 34' corrugated polyethylene pipe (CPP) cross drain culvert.

Station 4+50 18" x 26' corrugated polyethylene pipe (CPP) cross drain culvert.

Station 8+50 18" x 32' corrugated polyethylene pipe (CPP) cross drain culvert.

Station 10+80 18" x 50' corrugated polyethylene pipe (CPP) cross drain culvert.

Station 14+25 Construct ditch out left.

Lead out ditch along upper edge of end landing.

SURFACING

Station 0+00 to 2+25 Apply 6" lift of compacted 3-0" crushed aggregate base course and surface with 3" lift of compacted 1.5-0" crushed aggregate.

Station 2+25 to 17+20 Road will remain native surface.

Station 1+25 to 2+25 Surface truck turnout with 6" lift compacted 3-0" base course.

ALIGNMENT

Field adjustments may be required to newly constructed junction of constructed road, given input from Purchaser & Operator, and with approval by Authorized Officer. Field adjustments to newly constructed junction may include alignment, grade, and associated earthwork.

Roadway shall be constructed within posted or painted right-of-way boundaries.

L-Line locations are staked. Cut slope staking and reference points will be completed by Authorized Officer prior to construction.

Minimum curve radius shall be sixty (60) feet.

GRADE

Grade shall not exceed 4% favorable and 18% adverse.

TRUCK TURNAROUND

Station 13+50, construct truck turnaround.

LANDINGS

Station 17+20, construct 50' diameter end landing.

SOIL STABILIZATION

Apply seed and mulch in accordance with Section 1800.

CONSTRUCTION DETAIL SHEET ROAD NO. 28-11-16.7

GENERAL

Purchaser shall construct Road No. 28-11-16.7 from Sta. 0+00 to Sta. 7+70 as shown on the work location map. This work shall be accomplished in accordance with Timber Sale Road Specification, construction plans, and details which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be $\frac{3}{4}$:1 (horizontal:vertical) and fill slopes shall be $1\frac{1}{2}$:1 or as shown on plans.

TURNOUTS

None

SUBGRADE

Estimated 1300 CY of excavation and embankment associated with the construction of subgrade and landings. Maximum cut and fill depths associated with subgrade estimated at 5 feet and 5 feet respectively.

DRAINAGE FEATURES

Crowned at 3% with 2' ditch to achieve drainage.

Station 1+25 18" x 30' corrugated polyethylene pipe (CPP) cross drain culvert.

Station 2+75 18" x 30' corrugated polyethylene pipe (CPP) cross drain culvert.

Lead out ditch along upper edge of end landing.

SURFACING

Apply 6" lift of compacted 3-0" crushed aggregate base course and surface with 3" lift of compacted 1.5-0" crushed aggregate.

Station 5+50 50 CY of jaw run rock allocated for landing surfacing.

Station 7+70 50 CY of jaw run rock allocated for landing surfacing.

ALIGNMENT

Field adjustments may be required to newly constructed junction, given input from Purchaser, operator, and with approval by Authorized Officer. Field adjustments to newly constructed junction may include alignment, grade, and associated earthwork.

L-Line locations are staked.

Minimum curve radius shall be sixty (60) feet.

<u>GRADE</u>

Grade shall not exceed 13% favorable and 8% adverse.

TRUCK TURNAROUND

None

LANDINGS

Station 5+50 Construct 50' diameter landing.

Station 7+70 Construct 50' diameter end landing.

SOIL STABILIZATION

Apply seed and mulch in accordance with Section 1800.

CONSTRUCTION DETAIL SHEET ROAD NO. 28-11-16.8

GENERAL

Purchaser shall construct Road No. 28-11-16.8 from Sta. 0+00 to Sta. 5+50 as shown on the work location map. This work shall be accomplished in accordance with Timber Sale Road Specification, construction plans, and details which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be $\frac{3}{4}$:1 (horizontal:vertical) and fill slopes shall be $1\frac{1}{2}$:1 or as shown on plans.

<u>TURNOUTS</u>

None

SUBGRADE

Estimated 650 CY of excavation and embankment associated with the construction of subgrade and landings. Maximum cut and fill depths associated with subgrade estimated at 2 feet and 2 feet respectively. Borrow site located near station 3+50.

DRAINAGE FEATURES

Crowned at 3% with 2' ditch to achieve drainage.

Double ditch when necessary.

Lead out ditch along upper edge of end landing.

SURFACING

Apply compacted 8" lift of 3-0" crushed aggregate surfacing.

Station 3+00 50 CY of jaw run rock allocated for landing surfacing.

Station 5+50 50 CY of jaw run rock allocated for landing surfacing.

ALIGNMENT

Field adjustments may be required to newly constructed junction, given input from Purchaser, operator, and with approval by Authorized Officer. Field adjustments to newly constructed junction may include alignment, grade, and associated earthwork.

L-Line locations are staked.

Minimum curve radius shall be sixty (60) feet.

<u>GRADE</u>

Grade shall not exceed 16% favorable and 3% adverse.

TRUCK TURNAROUND

None

LANDINGS

Station 3+00 Construct 50' diameter landing.

Station 5+50 Construct 50' diameter end landing.

SOIL STABILIZATION

Apply seed and mulch in accordance with Section 1800.

CONSTRUCTION DETAIL SHEET SWING ROAD WITHIN POSTED AND PAINTED CLEARING LIMITS

<u>GENERAL</u>

Construction of a swing road is necessary to facilitate yarding. Purchaser can construct a swing road from Sta. 0+00 to Sta. 8+40 as shown on location map. Purchaser and Operator shall ensure any requirements (i.e., equipment, other agencies, etc.) are implemented in the construction and use of swing road. Swing road is intended for equipment designed and manufactured for use on steep terrain. This work shall be accomplished in accordance with Timber Sale Road Specification and details which follow:

SHAPING

The swing road shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be $\frac{1}{2}$:1 (horizontal:vertical) and fill slopes shall be $\frac{1}{2}$:1 or as shown on plans.

TURNOUTS

None

SUBGRADE

Estimated 1000 CY of excavation and embankment associated with the construction of subgrade and landing. Maximum cut and fill depths associated with subgrade estimated at 6 feet and 5 feet respectively. Full bench construction will be required between Stations 0+00 to approximately 2+00.

DRAINAGE FEATURES

Outsloped at 3% to achieve drainage.

SURFACING

Native surface.

ALIGNMENT

Swing road shall be constructed within posted and painted right-of-way boundary.

GRADE

Ranges between 16-25% adverse.

TRUCK TURNAROUND

None

LANDINGS

Station 8+40 Construct 80' diameter end landing.

SOIL STABILIZATION

Apply seed and mulch in accordance with Section 1800.

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

TABLE OF CONTENTS

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

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

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TIMBER SALE ROAD SPECIFICATIONS

<u>GENERAL – 100</u>

101* - Prework Conference(s):

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

102* - Definitions:

<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.

<u>ACI</u> - 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. This is 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, pit run rock, bank, or river-run gravels, etc., to provide support and, in the event no surface course is placed, the running surface for traffic load.

BLM - Bureau of Land Management

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

<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.

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TIMBER SALE ROAD SPECIFICATIONS

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

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

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

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

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

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

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

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

<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.

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

<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.

<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 - The longitudinal center of a 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.

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

Spalls - Flakes or chips of stone.

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

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

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

Timber - Standing trees, downed trees, or logs which can be 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.
AASHTO T 89	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
AASHTO T 90	Plastic limits and plasticity index of soil. a.) Plastic limit - lowest water content at which the soil remains plastic. b.) Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
AASHTO T 96	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
AASHTO T 99	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.
AASHTO T 119	Slump of hydraulic cement concrete.
AASHTO T 152	Air content of freshly mixed concrete.
<u>AASHTO T 166</u>	Specific Gravity of compacted Bituminous Mixtures.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.

- <u>AASHTO T 180</u> (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.
- AASHTO T 191 Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
- <u>AASHTO T 205</u> <u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil.
- AASHTO T 209 Maximum Specific Gravity of Bituminous Paving Mixtures.
- AASHTO T 210 Durability of aggregates based on resistance to produce fines.
- AASHTO T 224 Correction for coarse particles in the soil.
- AASHTO T 238 Density of Soil and Soil-Aggregate in place by nuclear methods.
- <u>AASHTO T 248</u> Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
- ASTM D 4564 Determination of relative density of cohensionless 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:
- Padded Drum Rollers. The unit shall consist of a drum with pads, be either self-propelled or towed by a tractor, and capable of operating at a speed of 6 mph. The drum shall be no less than 48 inches in diameter over the pads and not less than 60 inches in width. The pads shall have a minimum height of 3 inches, and a face area of not less than 14 square inches. The weight at drum shall be no less than 8000 lb.
- 103b <u>Sheepfoot rollers.</u> A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7 inches from the face of the drums.

The distance between circumferential rows of tamper feet shall be such that the diagonal distance from any foot to the nearest foot in each adjacent row shall be not more than 12". The cross-sectional area of the face of each tamper foot, measured perpendicular to the axis of the stud, shall be not less than 5-1/2 square inches nor more than 8 square inches.

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TIMBER SALE ROAD SPECIFICATIONS

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

- 103c <u>Smooth-wheel power rollers.</u> Smooth-wheel power rollers shall either be of the 3-wheel type, weighing not less than 10 tons, or of the tandem type, 2-wheel, or 3-wheel, weighing not less than 8 tons. Smooth-wheel roller shall provide compression of 325 pounds per linear inch of width of rear wheels or drum.
- <u>Pneumatic-tired rollers.</u> Pneumatic-tired rollers shall be of the double-axle type equipped with pneumatic tires each of equal size and type. The spacing between the sidewalls of adjacent tires shall not exceed 5 inches and the rear tires shall be staggered in relation to the front tires. The rolling width of the unit shall be not less than 60 inches, exclusive of the power unit. The roller shall be so constructed that the contact pressure is uniformly distributed on all of the tires, and the tires shall be inflated to maintain the air pressure in the several tires within a total tolerance of 5 pounds per square inch. The roller shall be so constructed that the total weight shall be between 1,000 and 2,000 pounds per tire. The actual operating weight of the rollers shall be as ordered by the Authorized Officer.

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

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

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TIMBER SALE ROAD SPECIFICATIONS

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

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

- 103g <u>Vibratory compactor</u>. Vibratory compactors shall consist of multiple or gang-type compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.
- 103h Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.
- 103i <u>Other.</u> Compaction equipment approved by the Authorized Officer.

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TIMBER SALE ROAD SPECIFICATIONS

CLEARING AND GRUBBING - 200

- 201* This work shall consist of clearing, grubbing, removing, and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 201a This work shall consist of clearing, grubbing, removing, and disposing of vegetation, debris, surface objects, and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications.
- Where clearing limits have not been staked, established by these specifications, or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 202a Where clearing limits for structures have not been staked or shown on the plans, the limits shall extend 10 feet out from the outside edge of the structure.
- 202b Where clearing limits for borrow pits and ditches have not been staked or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet outside of the outside slope lines.
- Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202, as shown on the plans, and as posted.
- 203b Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 203c Disposal of logs from private timber cleared within the limits established as shown on the plans shall consist of decking at a location designated by the Authorized Officer.
- Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204b, 204c, 204d and 204e between the top of the cut slope and the toe of the fill slope. When authorized, undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excluded.
- 204a Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.

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

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TIMBER SALE ROAD SPECIFICATIONS

EXCAVATION AND EMBANKMENT - 300

- 301* This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 302* Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 303a Excavated material shall not be wasted as sidecast or perched. All material perched or sidecast as waste shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- 305* Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 305a Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.

- 305c Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent 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.
- 306* Layers of embankment, selected borrow, final subgrade, and selected roadway excavation material as specified under Subsections 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f and 103i.
- NOTE: SPECIAL PROVISION- Uniform Optimum Moisture Content shall apply to Subsection 306.
- 306a Minimum compaction for each <u>layer</u> of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be 1 hour of continuous compacting for each 4 stations of road or fraction thereof.

- The <u>final</u> subgrade including landings, truck turnouts, and truck turnarounds shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations of road or a fraction of as measured along the center line of the constructed road.
- NOTE: SPECIAL PROVISIONS In-place Density and Relative Compaction Testing shall apply to Subsection 306e.
- 306g All fill slopes shall be compacted to 85 percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 311 In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 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.

- 314 When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- NOTE: Additional material excavated in accordance with Subsections 313 and/or 314 should not be viewed as a design change.
- 315 Borrow material required for the construction of embankment or for other portions of the work shall be obtained from sources as shown on the plans.
- 316 Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.
- Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics from sources shown on the plans.
- Where indicated on the plans, the Purchaser shall conserve excavation material consisting of talus material, gravel, finely broken rock, or other material of granular or favorable characteristics for placement on the top portions of the roadbed as shown on the plans and as directed by the Authorized Officer.
- Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed (6) inches in depth until the required thickness shown on the plans is attained.

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

 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 Subsections 321a and/or 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- NOTE: Any material being hauled over gravel or bituminous surfaced roads will be transported in vehicles which meet legal highway weight requirements while hauling.
- 321a Excess construction materials specified under Subsection 321 shall be loaded, hauled, and disposed of at a designated disposal site or placed as embankment for designated roadbeds as shown on plans.
- 321c End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 327* The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations and start of surfacing operations.

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TIMBER SALE ROAD SPECIFICATIONS

PIPE CULVERTS - 400

- 401* This work shall consist of furnishing and installing pipe culverts, full round downspouts, and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- Grade culverts shall have a gradient of 2%-4% percent greater than the adjacent road grade unless otherwise specified. Grade culverts shall be skewed down grade 45 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.
- 405a Corrugated metallic coated steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274 as specified on the plans.
- 405e Corrugated-polyethylene pipe for culverts 18-inch through 36-inch diameter shall meet the requirements of AASHTO M 294, Type S.

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

406* - Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.

- 406a "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends.
 Annular reformed ends shall consist of two annular corrugations.
- 407 Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined, and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- Full round culvert downspouts conforming to the material and construction requirements (i.e., adjustable elbow) shall be anchored in accordance with details, dimensions, and typical diagrams as shown on Culvert Details sheet. Downspouts will be anchored with two six-foot steel fence posts (one on each side of the pipe) wired together with No. 12 galvanized wire. These anchors will be placed every ten feet along the pipe beginning at outlet of culvert.
- 408* Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- 410* Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411* Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram that are shown on the Culvert Detail sheet.
- Where ledge rock or boulders are encountered, they shall be excavated a minimum of 10 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled, as directed by the Authorized Officer, with selected granular or fine readily compactable soil material or crushed rock material in accordance with Section 1200 gradation.

- 412a Where soft or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled, as directed by the Authorized Officer, with selected granular or fine readily compactable soil material or crushed rock material in accordance with Section 1200 gradation.
- 413* Pipe culverts and pipe-arch culverts shall be bedded on a selected granular, crushed rock material in accordance with Section 1200 gradation (E-1), or fine readily compactable soil material, as directed by Authorized Officer, having a depth of not less than 6 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- 414a The invert grade of the bedding shall be cambered at the middle ordinate a minimum of (1) percent of the total length of the drainage structure. Camber shall be developed on a parabolic curve.
- Inspection of pipe culverts having a diameter of 48 inches or larger shall be made before backfill is placed. Culverts found to be out of alignment or damaged shall be replaced, reinstalled, or repaired as directed by the Authorized Officer at the Purchaser's expense.
- 416* Side-fill material for pipe culverts shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel, and to 1 foot over the pipe with fine, readily compactable soil, or crushed rock material in accordance with Section 1200 gradation (E-1), or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.
- For pipe culverts: Side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 6 inches in depth and 1 pipe diameter, or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of 85 percent of the maximum density, is attained as determined by AASHTO T 99, Method C.

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

- 418 Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- 419* The pipe culverts after being bedded and backfilled as required by these specifications shall be protected by a 2-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.
- 423 Construction of catch basins and ditch dams conforming to lines, grades, dimensions, and typical diagrams shown on the plans, shall be required for culverts.
- 424 Construction of energy dissipaters (splash pads) conforming to lines, grades, dimensions, and typical diagram shown on the plans, shall be required for culverts as indicated on Roads Worklist.
- Where pervious materials are used for backfill and bedding, collars consisting of selected impervious material shall be placed at the inlet and at various intervals along the pipe barrel as shown on the plans and as directed by the Authorized Officer.
- Culvert markers consisting of 1/2-inch round steel bars 4 feet in length bolted to the culvert at the inlet or 6 foot steel fence posts painted white, shall be furnished, fabricated, and installed by the Purchaser at culverts as shown on the plans and as directed by the Authorized Officer.
- 428 Remove and dispose of old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the work site prior to road acceptance.
- 429 Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site in a manner that will avoid damage to adjacent property. Provide for downstream waterflow with no more that 10% increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

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

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

- 502a Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 503 Debris from slides shall be disposed of as specified in Roads Worklist or as directed by the Authorized Officer.

- 504 Scarified material and existing road surfaces shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f and 103i.
- 504a Minimum compaction required shall be 1 hour of continuous rolling for each 4 stations of road, or fraction thereof, as measured along the centerline.
- NOTE: SPECIAL PROVISIONS In-place Density and Relative Compaction Testing shall apply to Subsection 504a.
- 506 The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- 507 Existing and new drainage structures shall be replaced or placed with structures of the type, gauge, diameter, and length shown on the plans and in accordance with the placement requirements set forth under section 400 of these specifications.
- 508 Vegetation encroaching on the roadbed and the drainage ditches of existing roads shall be removed by cutting and disposed of in accordance with Section 2100 of these specifications.
- 509 The finished grading shall be approved in writing by the Authorized Officer 3 days prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.

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TIMBER SALE ROAD SPECIFICATIONS

WATERING - 600

- *601 This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.
- 602 Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications.
- 603 Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the roadbed.
- 605 The Purchaser shall secure the necessary water permits and pay all required water fees for use of for use of water sources selected by the Purchaser and approved by the Authorized Officer.

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TIMBER SALE ROAD SPECIFICATIONS

AGGREGATE BASE COURSE - 1000 CRUSHED ROCK MATERIAL

- *1001 This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock material on roadbeds and landings approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.
- 1002a Crushed rock materials may be obtained from a commercial source selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- *1003 Crushed rock material produced from gravel shall have 3 manufactured fractured faces on 75 percent, by weight, of the material retained on the No. 4 sieve.

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TIMBER SALE ROAD SPECIFICATIONS

*1004 - Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1004

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

Sieve А L Designation (6) -inch 100 -3-inch 100 45-65 2-inch 90-95 -1 1/2-inch --1-inch 45-75 -3/4-inch --1/2-inch --3/8-inch --No. 4 15-45 0-10 No. 8 --No. 10 --No. 30 --No. 40 5-25 -No. 200 2-15 -

GRADATION

- 1005 Crushed rock material shall not exceed (35) percent loss as determined by AASHTO T 96.
- 1006 Crushed rock material shall show durability value of not less than 35, as determined by AASHTO T 210.
- 1007 That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have liquid limits of not more than 35, and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1007a That portion of crushed rock material passing No. 4 sieve, including blending filler shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalent of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

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

TABLE 1007a

1008 - If additional binder or filler is necessary in order to meet the grading or plasticity requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

- 1008a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- *1009 The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of crushed rock materials. Notification for final inspection prior to rocking shall be 3 days prior to that inspection and shall be 6 days prior to start of rocking operations.
- *1010 Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and compacted in layers not to exceed 4 inches in depth for 3-0" or not to exceed 6 inches in depth for 6-0". When more than one layer is required, each shall be shaped, processed, compacted, before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing crushed rock material until the surface is smooth and uniform.
- 1010a Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing under this specification unless approved as such by the Authorized Officer prior to placement.
- Each layer of crushed rock material shall be placed, processed, shaped, moistened or dried to a uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsection 103f and 103i. Minimum compaction shall be one 1 hour of continuous compacting for each 150 cubic yards, or fraction thereof, of crushed rock material placed per layer.
- NOTE: SPECIAL PROVISIONS In-place Density and Relative Compaction Testing shall apply to Subsection 1012.

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TIMBER SALE ROAD SPECIFICATIONS

AGGREGATE SURFACE COURSE - 1200 CRUSHED ROCK MATERIAL

- *1201 This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.
- 1202a Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.
- *1203 When crushed rock material is produced from gravel, not less than 75 percent by weight of the particles retained on the No. 4 sieve will have 3 manufactured fractured faces.

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TIMBER SALE ROAD SPECIFICATIONS

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

TABLE 1204

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

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

GRADATION

1205 - Crushed rock material shall not exceed 35 percent loss as determined by AASHTO T 96.

1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.

1206a - The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.

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

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

TABLE 1207a

- If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 1208a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

- *1209 Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance with the requirements of Subsections 500 for placing on the roadbed and landings. Notification for final inspection prior to rocking shall be 3 days prior to the inspection and shall be 6 days prior to start of surfacing operations.
- *1210 Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed, and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 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 Subsection103f. Minimum compaction shall be one (1) hour of continuous compacting for each 150 cubic yards of crushed rock material placed per layer, or fraction thereof.
- NOTE: SPECIAL PROVISIONS In-place Density and Relative Compaction Testing shall apply to Subsection 1212.

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TIMBER SALE ROAD SPECIFICATIONS

SLOPE PROTECTION - 1400

- *1401 This work shall consist of furnishing, hauling, and placing stone materials (rip rap) for slope protection structures and energy dissipaters (splash pads) in accordance with these specifications and conforming to the lines, grades, dimensions, and typical crosssections shown on the plans and Roads Worklist. Material not conforming to these specifications will be rejected and shall be removed from the slope protection structure at the purchaser's expense as directed by the Authorized Officer.
- *1402 Stone material shall consist of hard, durable, angular in shape quarry rock of such quality that it will not disintegrate on exposure to water or weathering and shall be graded in accordance with these specifications.
- The material shall be well graded from the smallest to the maximum size specified.
 Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.

1405 - Rip rap shall conform to the following gradations:

	Range of	Range of	% of Rock Equal or
Class	Intermediate	Rock	Smaller by Count
01033	Dimensions ²	Mass ³	
	(inches)	(pounds)	
	6-8	18-42	100
0	5-6	10-18	85
0	2-5	1-10	50
	0-2	0-1	15
	9-15	59-270	100
1	7-11	28-110	85
I	5-8	10-42	50
	3-6	2-18	15
	15-21	270-750	100
2	11-15	110-270	85
Z	8-11	42-110	50
	6-8	10-42	15
	21-27	750-1600	100
2	15-19	270-560	85
3	11-14	110-220	50
	8-10	42-81	15
	07.00	1600-	100
	27-33	2900	100
4	19-23	560-990	85
	14-17	220-400	50
	9-12	59-140	15

TABLE 1405¹

¹Gradation includes spalls and rock fragments to provide a stable, dense mass. ²The intermediate dimension is the longest straight-line distance across the rock that is perpendicular to the rock's longest axis on the rock face with the largest projection plane. ³Rock mass is based on a specific gravity of 2.65 (165#/cu.ft.) and 85 percent of the cubic volume as calculated using the intermediate dimension.

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TIMBER SALE ROAD SPECIFICATIONS

- 1405a Stone materials shall show a durability value of not less than 50 as determined by AASHTO T 210.
- 1405b Stone materials shall conform to a minimum apparent specific gravity of 2.50 and a maximum absorption of 4.2 percent as determined by AASHTO T 85.
- 1406 The placement of slope protection stones by the end dumping method is not permitted.
- 1406a The embankment shall be placed (with excavator) in successive horizontal layers of sufficient depth to contain the maximum size rock present in the material. Spalls and finer fragments of stone other than specified in Subsection 1405 shall be used to chock the larger stones solidly in position and to fill voids between the major stones as laid in the embankment. The exposed face of the embankment shall be reasonably smooth and uniform; material shall be prevented from escaping beyond the toe of the structure.
- *1407 Determination of the acceptability of the slope protection material gradation will be through visual inspection, and/or physical measurements by the Authorized Officer.
- Trenches for slope protection structures shall be excavated to the lines, elevations, and typical diagram shown on the plans. They shall be of sufficient size to permit the placing of structure footing of the full widths and length shown. Trenches shall be approved by the Authorized Officer prior to placement of slope protection material.
- 1408a Foundation trenches and other required excavation as shown on the plans and Roads Worklist shall be approved prior to placing the slope protection material.
- 1408b The Purchaser shall excavate unsuitable roadway material as shown on the plans, details, Roads Worklist, or directed by the Authorized Officer prior to the placement of the required rock structures.
- 1409 Slope protection material shall be placed so as to form the cross sections shown on the plans.
- Specified embankment slopes shall be protected and/or stabilized by placement of rock materials to form a slope-protection structure conforming to the construction requirements and details of these specifications.

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TIMBER SALE ROAD SPECIFICATIONS

EROSION CONTROL - 1700

*1701	-	This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
1703	-	This work shall consist of furnishing and installing straw wattle check dams and sediment fences in accordance with these specifications and in reasonably close conformity with the requirements and details specified by the Special Provisions and as directed by the Authorized Officer.
1704	-	The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.
1705	-	The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 25,000 square feet without prior approval by the Authorized Officer.
1706	-	The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right-of-way shall not exceed 25,000 square feet without prior approval by the Authorized Officer.
1707	-	Completed and partially completed segments of roads carried over the winter and early spring periods shall be stabilized by mulching as directed by Authorized Officer. Mulching shall be in accordance with Section 1800.
NOTE:		EXHIBIT D - The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 1 each year, after initial commencement of construction or logging operations.
1708	-	Newly constructed or graded roads to be carried over the winter period, shall be blocked to vehicular traffic as directed by Authorized Officer.

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TIMBER SALE ROAD SPECIFICATIONS

1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

SOIL STABILIZATION - 1800

- *1801 This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is not required for road acceptance under Section 18 of this contract.
- 1802a Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation, improvements, landings, disturbed areas, borrow sites, disposal sites, and specials areas in accordance with these specifications and as shown on the plans.
- 1803 Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal periods:

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

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

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

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

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

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

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

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

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TIMBER SALE ROAD SPECIFICATIONS

ROADSIDE BRUSHING - 2100

- *2101 This work shall consist of the removal of vegetation from the road prism variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, and at designated locations as shown in the plans.
- *2102 Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.
- *2103 Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at D.B.H.O.B. shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs below the 2 inch area will be severed from the trunk.
- 2103a Vegetation shall be cut and removed from the roadbed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 2 inches above the ground and running surface. Limbs below the 2 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- Trees in excess of 6 inches in diameter at D.B.H.O.B shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 12 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2106 Vegetation capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Version: 8.0.0.14 Summary of All Roads and Projects Updated: 11/4/2022T.S. Contract Name: New Yankee Tract No: 2024.0030 Sale Date: 02/23/2024 Prepared by: JAA Ph: 5417514229 Print Date: 11/21/2023 11:48:53 AM Construction: 38.80 sta Improve: 2.10 sta Renov: 160.51 sta Decom: 0.00 sta Temp: 0.00 sta 200 Clearing and Grubbing*: 5.2 acres \$25,041.64 300 Excavation: 7050 cy \$32,013.03 Haul < 500 ft: 8126 sta-yds Haul > 500 ft: 119 yd-mi 400 Drainage: \$11,616.24 Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 232.00 lf 500 Renovation*: \$22,842.21 Blading 6.01 mi Slide & Slough Removal, Ditch Cleaning 1,450.00 cy 700-1200 Surfacing: \$47,052.80 Commercial Quarry Name: Hervey 1.5-0" Spot 420.00 LCY Commercial Quarry Name: Hervey 1.5-0" Surf 162.00 LCY Commercial Quarry Name: Hervey 3-0" Surf 354.00 LCY Commercial Quarry Name: Hervey Jaw Run LR 425.00 LCY Commercial Quarry Name: Hervey 3-0" Base 383.00 LCY 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 6.80 acres \$8,426.27 Includes Small Quantity Factor of 1.19 1900 Cattlequards: \$0.00 2100 RoadSide Brushing**: \$3,715.52 Mechanical Brushing: 7.40 acres 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization***: Const. \$7,044.50 Surf. \$0.00..... \$7,044.50 \$0.00 Quarry Development: Total: = \$157,752.21

Notes: Quantities shown are estimates only and not pay items. Surfacing Quantities are loose cubic yards. *If not shown may be included in Section 300. **If not shown may be included in Section 200. **May include within timber sale mobilization w/lowboy.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-16.1 R Road Name: Road Renovation: 0.11 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation: Blading 0.11 mi Slide & Slough Removal, Ditch Cleaning 25.00 cy	\$480.63
700-1200 Surfacing: Quarry Name: Hervey Jaw Run LR 50.00 LCY	\$1,292.40
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.10 acres Includes Small Quantity Factor of 1.19	\$95.06
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.30 acres	\$150.88
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$94.37 Surf. \$0.00	\$94.37
Quarry Development:	\$0.00
Notes:	\$2 , 113.35

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

12/4/23 Road Construction Worksheet Road Number: 28-11-16.1 R Road Name: Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: Subtotal: \$0.00 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Comment: GRADE-SHAPE-DITCH-BUNCH, FAILURE+DITCH SIDECAST Slide Removal 25.00 cy Front End Loader \$114.30/hr x 1.00 hr = \$114.30 Blading: \$923.61/mi x 0.11 mi = \$101.60 Compaction: \$415.02/mi x 0.11 mi = \$45.65 Clean Culverts (ea): \$83.77/ea x 2 ea = \$167.54 COMPACTION TEST - FINISH GRADE Dump Truck 10 cy .5 hr x \$103.09/hr = \$51.55 Subtotal: \$480.63 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey Jaw Run LR Comment: MP 0.11 LANDING SURFACING Length TopW #TOs Width F.W.L Taper BotW Depth CWid Other 50 LCY Rock Volume = 50.00 LCY Purchase Price / Royalty: \$11.00/LCY x 50.00 LCY = \$550.00 Processing: $$1.20/LCY \times 50.00 LCY = 60.00 Compaction: $$1.38/LCY \times 50.00 LCY = 69.00 Basic Rock Haul cost: \$0.81/LCY x 50.00 LCY = \$40.50 Rock Haul -15% grades: \$1.21/LCY-mi x 50.00 LCY x 3.00 mi= \$181.50 Rock Haul St& Co Roads: \$0.54/LCY-mi x 50.00 LCY x 10.20 mi= \$275.40 Basic Water Haul cost: $0.79/LCY \times 50.00 LCY = 39.50$ Water Haul -15% grades: \$0.17/LCY-mi x 50.00 LCY x 3.00 mi= \$25.50 Water Haul St&Co Roads: \$0.10/LCY-mi x 50.00 LCY x 10.20 mi= \$51.00 Subtotal: \$1,292.40 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: \$0.00 Subtotal: Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL & WASTE AREAS Dry Method with Mulch: $$630.63/acre \times 0.10 acres = 63.06 Includes Small Quantity Factor of 1.19 + Mulch Cost: \$320.00/acre x 0.10 acres = \$32.00 Subtotal: \$95.06 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: \$282.91/acre x 0.10 acres = \$28.29

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Road Number: 28-11-16.1 R Continued	F	Page 4 of 37 12/4/23
RoadSide Brushing Medium: \$471.51/acre x 0.10 acres = \$47.15 RoadSide Brushing Heavy: \$754.42/acre x 0.10 acres = \$75.44	Subtotal:	\$150.88
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 1.34% of total Costs = \$94.37 Surfacing - 2.87% by rock volume = \$0.00	Subtotal:	\$94.37
Quarry Development: Based on 2.87% of total rock volume	Subtotal:	\$0.00
	Total:	\$2 , 113.35

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-16.6AB C Road Name: Road Construction: 0.33 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 1.80 acres	\$8,884.74
300 Excavation: Standard cy Haul < 500 ft: 6,300.00 sta-yds	\$17,181.74
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 172.00 lf	\$8,612.04
500 Renovation:	\$0.00
700-1200 Surfacing: Quarry Name: Hervey 1.5-0" Surf 35.00 LCY Quarry Name: Hervey 3-0" Base 99.00 LCY	\$3,758.61
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.00 acres Includes Small Quantity Factor of 1.19	\$950.63
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. \$1,841.09 Surf. \$0.00	\$1,841.09
Quarry Development:	\$0.00
Notes:	\$41,228.85

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

Road Construction Worksheet Road Number: 28-11-16.6AB C Road Name: Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 31-45% (Avg Side Slopes): Adjustment Factor (0.2) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.2 + 1.28 + 0.1 = 4.12 Base Cost/Acre: \$1,198.05 x Adjustment Factor: 4.12 x Total Acres: 1.8 = \$8,884.74 Subtotal: \$8,884.74 Section 300 Excavation: Excavation - Common: $2.66/cy \times 3,900.00 cy = 10,374.00$ Subgrade Compaction: 4 Sta/hr $$34.59/sta. \times 17.2 sta = 594.95 Embankment Placement & Compaction 306.a - Common: $1.16/cy \times 3,900.00 cy = $4,524.00$ End Hauling - 100 to 500 ft: \$0.21/sta-yd x 6,300.00 sta-yd = \$1,323.00 Blading with ditch: \$18.27/station x 17.20 stations = \$314.24COMPACTION TEST - SUBGRADE Dump Truck 10 cy .5 hr x \$103.09/hr = \$51.55 Subtotal: \$17,181.74 Section 400 Drainage: 18 inch 30 lf x \$50.07/lf = \$1,502.10 Poly Pipe STA 0+25 NEW XDRN 18 inch 50 lf x \$50.07/lf = \$2,503.50Poly Pipe STA 10+80 NEW XDRN Poly Pipe STA 2+30 NEW XDRN 18 inch 34 lf x 50.07/1f = 1,702.38STA 4+50 NEW XDRN 18 inch 26 lf x \$50.07/lf = \$1,301.82 18 inch 32 lf x \$50.07/lf = \$1,602.24 Poly Pipe Poly Pipe STA 8+50 NEW XDRN Subtotal: \$8,612.04 Section 500 Renovation: \$0.00 Subtotal: Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 1.5-0" Surf Comment: 3" LIFT SURFACE COURSE BotW Depth <u>CWid</u> <u>#TOs</u> <u>Width</u> <u>F.W.L</u> <u>Taper</u> Length TopW Other 13ft 0.04mi 12ft 3in Rock Volume = 35.00 LCY Purchase Price / Royalty: \$13.75/LCY x 35.00 LCY = \$481.25 Processing: \$1.20/LCY x 35.00 LCY = \$42.00 Compaction: \$1.38/LCY x 35.00 LCY = \$48.30 Basic Rock Haul cost: \$0.81/LCY x 35.00 LCY = \$28.35 Rock Haul -15% grades: \$1.21/LCY-mi x 35.00 LCY x 2.50 mi= \$105.88 Rock Haul St& Co Roads: \$0.54/LCY-mi x 35.00 LCY x 10.20 mi= \$192.78 Basic Water Haul cost: \$0.79/LCY x 35.00 LCY = \$27.65 Water Haul -15% grades: \$0.17/LCY-mi x 35.00 LCY x 2.50 mi= \$14.88 Water Haul St&Co Roads: \$0.10/LCY-mi x 35.00 LCY x 10.20 mi= \$35.70 Commercial Quarry Name: Hervey 3-0" Base Comment: 6" LIFT BASE COURSE + TRUCK TURNOUT Length TopW Depth CWid #TOs Width F.W.L Taper BotW Other 0.04mi 13ft 15ft 6in 1 10ft 70ft 15ft Rock Volume = 99.00 LCY Purchase Price / Royalty: \$12.90/LCY x 99.00 LCY = \$1,277.10 Processing: \$1.20/LCY x 99.00 LCY = \$118.80 Compaction: $$1.38/LCY \times 99.00 LCY = 136.62 Basic Rock Haul cost: \$0.81/LCY x 99.00 LCY = \$80.19 Rock Haul -15% grades: \$1.21/LCY-mi x 99.00 LCY x 2.50 mi= \$299.48 Rock Haul St& Co Roads: \$0.54/LCY-mi x 99.00 LCY x 10.20 mi= \$545.29 Basic Water Haul cost: \$0.79/LCY x 99.00 LCY = \$78.21

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ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-16.7 C Road Name:	
Road Construction: 0.15 mi 16 ft Subgrade 2 ft ditch 200 Clearing and Grubbing: 0.80 acres	\$3.948.77
300 Excavation: Standard cy Haul < 500 ft: 1,100.00 sta-yds	\$5,655.57
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 60.00 lf	\$3,004.20
500 Renovation:	\$0.00
700-1200 Surfacing: Quarry Name: Hervey 1.5-0" Surf 127.00 LCY Quarry Name: Hervey Jaw Run LR 100.00 LCY Quarry Name: Hervey 3-0" Base 284.00 LCY	\$13,969.74
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.50 acres Includes Small Quantity Factor of 1.19	\$475.31
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. \$1,264.56 Surf. \$0.00	\$1,264.56
Quarry Development:	\$0.00
Notes:	\$28,318.16
Quantities shown are estimates only and not nay items	

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

Road Construction Worksheet

Road Number: 28-11-16.7 C Road Name: Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 31-45% (Avg Side Slopes): Adjustment Factor (0.2) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.2 + 1.28 + 0.1 = 4.12 Base Cost/Acre: \$1,198.05 x Adjustment Factor: 4.12 x Total Acres: .8 = \$3,948.77 Subtotal: \$3,948.77 Section 300 Excavation: Excavation - Common: $$2.66/cy \times 1,300.00 \ cy = $3,458.00$ Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 7.7 sta = \$266.34 Embankment Placement & Compaction 306.a - Common: $1.16/cy \times 1,300.00 cy = 1,508.00$ End Hauling - 100 to 500 ft: \$0.21/sta-yd x 1,100.00 sta-yd = \$231.00 Blading with ditch: 18.27/station x 7.70 stations = 140.68COMPACTION TEST - SUBGRADE Dump Truck 10 cy .5 hr x \$103.09/hr = \$51.55 Subtotal: \$5,655.57 Section 400 Drainage:
 Poly Pipe
 STA 1+25 NEW XDRN
 18 inch 30 lf x \$50.07/lf = \$1,502.10

 Poly Pipe
 STA 2+75 NEW XDRN
 18 inch 30 lf x \$50.07/lf = \$1,502.10
 Subtotal: \$3,004.20 Section 500 Renovation: Subtotal: \$0.00 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 1.5-0" Surf Comment: 3" LIFT SURFACE COURSE Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.15mi 12ft 7응 13ft 3in Rock Volume = 127.00 LCY Purchase Price / Royalty: \$13.75/LCY x 127.00 LCY = \$1,746.25 Processing: \$1.20/LCY x 127.00 LCY = \$152.40 Compaction: \$1.38/LCY x 127.00 LCY = \$175.26 Basic Rock Haul cost: \$0.81/LCY x 127.00 LCY = \$102.87 Rock Haul -15% grades: \$1.21/LCY-mi x 127.00 LCY x 2.60 mi= \$399.54 Rock Haul St& Co Roads: \$0.54/LCY-mi x 127.00 LCY x 10.20 mi= \$699.52 Basic Water Haul cost: \$0.79/LCY x 127.00 LCY = \$100.33 Water Haul -15% grades: \$0.17/LCY-mi x 127.00 LCY x 2.60 mi= \$56.13 Water Haul St&Co Roads: \$0.10/LCY-mi x 127.00 LCY x 10.20 mi= \$129.54 Quarry Name: Hervey Jaw Run LR Commercial Comment: LANDING SURFACING x2 Length TopW BotW <u>Depth</u> CWid #TOs Width F.W.L Taper Other 100 LCY Rock Volume = 100.00 LCY Purchase Price / Royalty: \$11.00/LCY x 100.00 LCY = \$1,100.00 Processing: $$1.20/LCY \times 100.00 LCY = 120.00 Compaction: \$1.38/LCY x 100.00 LCY = \$138.00 Basic Rock Haul cost: \$0.81/LCY x 100.00 LCY = \$81.00 Rock Haul -15% grades: \$1.21/LCY-mi x 100.00 LCY x 2.60 mi= \$314.60 Rock Haul St& Co Roads: \$0.54/LCY-mi x 100.00 LCY x 10.20 mi= \$550.80 Basic Water Haul cost: \$0.79/LCY x 100.00 LCY = \$79.00

Water Haul -15% grades: \$0.17/LCY-mi x 100.00 LCY x 2.60 mi= \$44.20 Water Haul St&Co Roads: \$0.10/LCY-mi x 100.00 LCY x 10.20 mi= \$102.00

12/4/23 Road Number: 28-11-16.7 C Continued Commercial Quarry Name: Hervey 3-0" Base Comment: 6" LIFT BASE COURSE BotW Length TopW Depth CWid #TOs Width F.W.L Taper Other 0.15mi 13ft 15ft 6in 78 Rock Volume = 284.00 LCY Purchase Price / Royalty: \$12.90/LCY x 284.00 LCY = \$3,663.60 Processing: \$1.20/LCY x 284.00 LCY = \$340.80 Compaction: \$1.38/LCY x 284.00 LCY = \$391.92 Basic Rock Haul cost: \$0.81/LCY x 284.00 LCY = \$230.04 Rock Haul -15% grades: \$1.21/LCY-mi x 284.00 LCY x 2.60 mi= \$893.46 Rock Haul St& Co Roads: \$0.54/LCY-mi x 284.00 LCY x 10.20 mi= \$1,564.27 Basic Water Haul cost: \$0.79/LCY x 284.00 LCY = \$224.36 Water Haul -15% grades: \$0.17/LCY-mi x 284.00 LCY x 2.60 mi= \$125.53 Water Haul St&Co Roads: \$0.10/LCY-mi x 284.00 LCY x 10.20 mi= \$289.68 COMPACTION TEST - SURF. / LIFT Dump Truck 10 cy 1.5 hr x \$103.09/hr = \$154.64 Subtotal: \$13,969.74 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL AND WASTE AREAS Dry Method with Mulch: $$630.63/acre \times 0.50 acres = 315.31 Includes Small Quantity Factor of 1.19 + Mulch Cost: \$320.00/acre x 0.50 acres = \$160.00 Subtotal: \$475.31 Section 1900 Cattleguards: \$0.00 Subtotal: Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Subtotal: \$0.00 Mobilization: Construction - 17.95% of total Costs = \$1,264.56Surfacing - 29.30% by rock volume = \$0.00Subtotal: \$1,264.56 Quarry Development: Based on 29.30% of total rock volume Subtotal: \$0.00 Total: \$28,318.16

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T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-16.8 C Road Name:	
Road Construction: 0.1 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.60 acres	\$2,961.58
300 Excavation: Standard cy Haul < 500 ft: 163.00 sta-yds	\$2,859.51
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing: Quarry Name: Hervey 3-0" Surf 258.00 LCY Quarry Name: Hervey Jaw Run LR 100.00 LCY	\$9,748.07
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.60 acres Includes Small Quantity Factor of 1.19	\$570.38
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. \$754.41 Surf. \$0.00	\$754.41
Quarry Development:	\$0.00
Notes: Total:	\$16,893.93

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

Road Construction Worksheet

Road Number: 28-11-16.8 C Road Name:

Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 31-45% (Avg Side Slopes): Adjustment Factor (0.2) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.2 + 1.28 + 0.1 = 4.12 Base Cost/Acre: \$1,198.05 x Adjustment Factor: 4.12 x Total Acres: 0.6 = \$2,961.58 Subtotal: \$2,961.58 Section 300 Excavation: Excavation - Common: $$2.66/cy \times 650.00 \ cy = $1,729.00$ Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 5.5 sta = \$190.25 Embankment Placement & Compaction 306.a - Common: \$1.16/cy x 650.00 cy = \$754.00 End Hauling - 100 to 500 ft: \$0.21/sta-yd x 163.00 sta-yd = \$34.23 Blading with ditch: \$18.27/station x 5.50 stations = \$100.49COMPACT TEST - SUBGRADE Dump Truck 10 cy .5 hr x \$103.09/hr = \$51.55 Subtotal: \$2,859.51 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Subtotal: \$0.00 Section 700-1200 Surfacing: Quarry Name: Hervey 3-0" Surf Commercial Comment: 8" LIFT SURFACING Length TopW BotW #TOs Width F.W.L Taper Depth CWid Other 0.10mi 12ft 14.67ft 8in 7% Rock Volume = 258.00 LCY Purchase Price / Royalty: \$12.90/LCY x 258.00 LCY = \$3,328.20 Processing: \$1.20/LCY x 258.00 LCY = \$309.60 Compaction: \$1.38/LCY x 258.00 LCY = \$356.04 Basic Rock Haul cost: \$0.81/LCY x 258.00 LCY = \$208.98 Rock Haul -15% grades: \$1.21/LCY-mi x 258.00 LCY x 2.80 mi= \$874.10 Rock Haul St& Co Roads: \$0.54/LCY-mi x 258.00 LCY x 10.20 mi= \$1,421.06 Basic Water Haul cost: \$0.79/LCY x 258.00 LCY = \$203.82 Water Haul -15% grades: \$0.17/LCY-mi x 258.00 LCY x 2.80 mi= \$122.81 Water Haul St&Co Roads: \$0.10/LCY-mi x 258.00 LCY x 10.20 mi= \$263.16 Commercial Quarry Name: Hervey Jaw Run LR Comment: LANDING SURFACING x2 Length TopW BotW #TOs Width F.W.L Taper Depth CWid Other 100 LCY Rock Volume = 100.00 LCY Purchase Price / Royalty: \$11.00/LCY x 100.00 LCY = \$1,100.00 Processing: \$1.20/LCY x 100.00 LCY = \$120.00 Compaction: \$1.38/LCY x 100.00 LCY = \$138.00 Basic Rock Haul cost: \$0.81/LCY x 100.00 LCY = \$81.00 Rock Haul -15% grades: \$1.21/LCY-mi x 100.00 LCY x 2.80 mi= \$338.80 Rock Haul St& Co Roads: \$0.54/LCY-mi x 100.00 LCY x 10.20 mi= \$550.80 Basic Water Haul cost: $$0.79/LCY \times 100.00 LCY = 79.00 Water Haul -15% grades: \$0.17/LCY-mi x 100.00 LCY x 2.80 mi= \$47.60 Water Haul St&Co Roads: \$0.10/LCY-mi x 100.00 LCY x 10.20 mi= \$102.00 COMPACTION TEST - SURF. / LIFT Dump Truck 10 cy 1 hr x \$103.09/hr = \$103.09

Road Number: 28-11-16.8 C Continued	Page 13 of 37 12/4/23	
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL AND WASTE AREAS Dry Method with Mulch: \$630.63/acre x 0.60 acres = \$378.38 Includes Small Quantity Factor of 1.19		
+ Mulch Cost: \$320.00/acre x 0.60 acres = \$192.00	Subtotal:	\$570.38
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:	Subtotal:	\$0.00
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 10.71% of total Costs = \$754.41 Surfacing - 20.53% by rock volume = \$0.00	Subtotal:	\$754.41
Quarry Development: Based on 20.53% of total rock volume		
	Subtotal:	
	Total:	\$16,893.93

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-16.9 I Road Name:	
Road Improvement: 0.04 mi 16 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.20 acres	\$601.42
300 Excavation: Standard cy	\$920.42
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing: Quarry Name: Hervey 3-0" Surf 96.00 LCY Quarry Name: Hervey Jaw Run LR 50.00 LCY	\$3,998.85
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.10 acres Includes Small Quantity Factor of 1.19	\$95.06
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. \$262.50 Surf. \$0.00	\$262.50
Quarry Development:	\$0.00
Total:	\$5 , 878.25

Notes:

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

Road Construction Worksheet
Road Number: 28-11-16.9 I Road Name:
Section 200 Clearing and Grubbing:
 Clearing - Light (Clearing): Adjustment Factor (0.93)
 31-45% (Avg Side Slopes): Adjustment Factor (0.2)
 Pile and Burn (Slash): Adjustment Factor (1.28)
 20-40' (Avg Clearing Widths): Adjustment Factor (0.1)
 Total Adjustment Factor:0.93 + 0.2 + 1.28 + 0.1 = 2.51
 Base Cost/Acre: \$1,198.05 x Adjustment Factor: 2.51 x Total Acres: 0.20 = \$601.42

Section 300 Excavation: Comment: IMPROVEMENT - OUTSLOPE ROAD Excavation - Common: \$2.66/cy x 200.00 cy = \$532.00 Subgrade Compaction: 4 Sta/hr \$34.59/sta. x 2.1 sta = \$72.64 Embankment Placement & Compaction 306.a - Common: \$1.16/cy x 200.00 cy = \$232.00 Blading without ditch: \$15.35/station x 2.10 stations = \$32.24 COMPACTION TEST - SUBGRADE Dump Truck 10 cy .5 hr x \$103.09/hr = \$51.55

Subtotal: \$920.42

\$0.00

\$0.00

Subtotal:

Subtotal:

Subtotal: \$601.42

Section 400 Drainage:

Section 500 Renovation:

Section 700-1200 Surfacing:

Commercial Quarry Name: Hervey 3-0" Surf Comment: 8" LIFT SURFACING Length TopW BotW #TOs Width F.W.L Taper Other Depth CWid 0.04mi 12ft 14.67ft 8in Rock Volume = 96.00 LCY Purchase Price / Royalty: \$12.90/LCY x 96.00 LCY = \$1,238.40 Processing: $$1.20/LCY \times 96.00 LCY = 115.20 Compaction: \$1.38/LCY x 96.00 LCY = \$132.48 Basic Rock Haul cost: \$0.81/LCY x 96.00 LCY = \$77.76 Rock Haul -15% grades: \$1.21/LCY-mi x 96.00 LCY x 2.70 mi= \$313.63 Rock Haul St& Co Roads: \$0.54/LCY-mi x 96.00 LCY x 10.20 mi= \$528.77 Basic Water Haul cost: \$0.79/LCY x 96.00 LCY = \$75.84 Water Haul -15% grades: \$0.17/LCY-mi x 96.00 LCY x 2.70 mi= \$44.06 Water Haul St&Co Roads: \$0.10/LCY-mi x 96.00 LCY x 10.20 mi= \$97.92

Commercial Quarry Name: Hervey Jaw Run LR Comment: END LANDING SURFACING Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 50 LCY Rock Volume = 50.00 LCY Purchase Price / Royalty: $11.00/LCY \times 50.00 LCY = 550.00$ Processing: $$1.20/LCY \times 50.00 LCY = 60.00 Compaction: $$1.38/LCY \times 50.00 LCY = 69.00 Basic Rock Haul cost: \$0.81/LCY x 50.00 LCY = \$40.50 Rock Haul -15% grades: \$1.21/LCY-mi x 50.00 LCY x 2.70 mi= \$163.35 Rock Haul St& Co Roads: \$0.54/LCY-mi x 50.00 LCY x 10.20 mi= \$275.40 Basic Water Haul cost: \$0.79/LCY x 50.00 LCY = \$39.50 Water Haul -15% grades: \$0.17/LCY-mi x 50.00 LCY x 2.70 mi= \$22.95 Water Haul St&Co Roads: \$0.10/LCY-mi x 50.00 LCY x 10.20 mi= \$51.00 COMPACTION TEST - SURF. / LIFT Dump Truck 10 cy 1 hr x \$103.09/hr = \$103.09

Road Number: 28-11-16.9 I Continued	Page r: 28-11-16.9 I Continued		
Section 1300 Geotextiles:	Subtotal:	\$0.00	
Section 1400 Slope Protection:	Subtotal:	\$0.00	
<pre>Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL & WASTE AREAS Dry Method with Mulch: \$630.63/acre x 0.10 acres = \$63.06 Includes Small Quantity Factor of 1.19</pre>			
+ Mulch Cost: \$320.00/acre x 0.10 acres = \$32.00	Subtotal:	\$95.06	
Section 1900 Cattleguards:	Subtotal:	\$0.00	
Section 2100 Roadside Brushing: Comment: INCLUDED IN SECTION 200	Subtotal:	\$0.00	
Section 2300 Engineering:	Subtotal:	\$0.00	
Section 2400 Minor Concrete:	Subtotal:	\$0.00	
Section 2500 Gabions:	Subtotal:	\$0.00	
Section 8000 Miscellaneous:	Subtotal:	\$0.00	
Mobilization: Construction - 3.73% of total Costs = \$262.50 Surfacing - 8.37% by rock volume = \$0.00	Subtotal:	\$262.50	
Quarry Development: Based on 8.37% of total rock volume	Subtotal:	\$0.00	
	Total:	\$5,878.25	

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-20.0 R Road Name: Yankee Run Mainline Road Renovation: 0.53 mi 20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation: Blading 1.10 mi Slide & Slough Removal, Ditch Cleaning 225.00 cy	\$4 , 526.07
700-1200 Surfacing: Quarry Name: Hervey 1.5-0" Spot 50.00 LCY	\$1,241.53
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.00 acres Includes Small Quantity Factor of 1.19	\$1,720.63
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.30 acres	\$650.69
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$380.44 Surf. \$0.00	\$380.44
Quarry Development:	\$0.00
Notes:	\$8,519.35

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are loose cubic yards. Road Construction Worksheet Road Number: 28-11-20.0 R Road Name: Yankee Run Mainline Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: Subtotal: \$0.00 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Comment: EXTREME GRADE-SHAPE-DITCH-BUNCH, ENDHAUL DITCH Slide Removal 225.00 cy Front End Loader \$114.30/hr x 10.00 hr = \$1,143.00 Dump Truck: $\frac{103.09}{hr} \times 10.00 hr = \frac{1,030.90}{hr}$ Blading: \$923.61/mi x 1.10 mi = \$1,015.97 Scarification: \$1118.88/mi x 0.53 mi = \$593.01 Compaction: \$415.02/mi x 0.53 mi = \$219.96 Clean Culverts (ea): \$83.77/ea x 3 ea = \$251.31 BRIDGE DECK CLEANING General Laborer 1 hr x \$56.30/hr = \$56.30 Crew Cab or 3/4 Ton Pickup 2 hr x \$82.04/hr = \$164.08 COMPACTION TEST - FINISH GRADE Dump Truck 10 cy .5 hr x \$103.09/hr = \$51.55 Subtotal: \$4,526.07 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 1.5-0" Spot Comment: SPOT ROCK SURFACING MP 0.00 TO 0.53 Other Length TopW BotW Depth CWid #TOs Width F.W.L Taper 50 LCY Rock Volume = 50.00 LCY Purchase Price / Royalty: \$13.75/LCY x 50.00 LCY = \$687.50 Processing: $$1.20/LCY \times 50.00 LCY = 60.00 Compaction: $$1.38/LCY \times 50.00 LCY = 69.00 Basic Rock Haul cost: \$0.81/LCY x 50.00 LCY = \$40.50 Rock Haul -15% grades: \$1.21/LCY-mi x 50.00 LCY x 0.27 mi= \$16.34 Rock Haul St& Co Roads: \$0.54/LCY-mi x 50.00 LCY x 10.20 mi= \$275.40 Basic Water Haul cost: \$0.79/LCY x 50.00 LCY = \$39.50 Water Haul -15% grades: \$0.17/LCY-mi x 50.00 LCY x 0.27 mi= \$2.30 Water Haul St&Co Roads: \$0.10/LCY-mi x 50.00 LCY x 10.20 mi= \$51.00 Subtotal: \$1,241.53 Section 1300 Geotextiles: \$0.00 Subtotal: Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL & WASTE AREAS Dry Method with Mulch: $$630.63/acre \times 1.00 acres = 630.63 Includes Small Quantity Factor of 1.19 + Mulch Cost: \$320.00/acre x 1.00 acres = \$320.00 EROSION CONTROL-CHECK DAMS STRAW WATTLE 9 INCH X 5 FEET + 3 STAKES PER CHECK DAM 8 EA x \$50.00/EA = \$400.00LABOR + TRUCK PER CHECK DAM 10 EA x 37.00/EA = 370.00

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Road Number: 28-11-20.0 R Yankee Run Mainline Continued	Page 19 of 37 12/4/23	
	Subtotal:	\$1,720.63
Section 1900 Cattleguards:	Subtotal:	\$0.00
<pre>Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: \$282.91/acre x 0.40 acres = \$113.16 RoadSide Brushing Medium: \$471.51/acre x 0.50 acres = \$235.76 RoadSide Brushing Heavy: \$754.42/acre x 0.40 acres = \$301.77</pre>		
	Subtotal:	\$650.69
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 5.40% of total Costs = \$380.44 Surfacing - 2.87% by rock volume = \$0.00	Subtotal:	\$380.44
Quarry Development: Based on 2.87% of total rock volume	Subtotal:	\$0.00
	Total:	\$8,519.35

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-20.1 R Road Name: Pleasant Hill Road Road Renovation: 0.15 mi 20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation: Blading 0.30 mi Slide & Slough Removal, Ditch Cleaning 100.00 cy	\$1,595.81
700-1200 Surfacing: Quarry Name: Hervey 1.5-0" Spot 50.00 LCY	\$1,264.30
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.20 acres Includes Small Quantity Factor of 1.19	\$612.13
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.40 acres	\$198.04
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$171.56 Surf. \$0.00	\$171.56
Quarry Development:	\$0.00
Notes: Total:	\$3,841.83

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

12/4/23 Road Construction Worksheet Road Number: 28-11-20.1 R Road Name: Pleasant Hill Road Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: Subtotal: \$0.00 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Comment: EXTREME GRADE-SHAPE-DITCH-BUNCH, ENDHAUL DITCH + FAILURES Slide Removal 100.00 cy Front End Loader \$114.30/hr x 4.00 hr = \$457.20 Dump Truck: \$103.09/hr x 4.00 hr = \$412.36 Blading: \$923.61/mi x 0.30 mi = \$277.08 Scarification: \$1118.88/mi x 0.15 mi = \$167.83 Compaction: \$415.02/mi x 0.15 mi = \$62.25 Clean Culverts (ea): \$83.77/ea x 2 ea = \$167.54 COMPACTION TEST - FINISH GRADE Dump Truck 10 cy .5 hr x \$103.09/hr = \$51.55Subtotal: \$1,595.81 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 1.5-0" Spot Comment: SPOT ROCK SURFACING MP 0.00 TO 0.15 BotW Depth CWid #TOs Width F.W.L Taper Length TopW Other 50 LCY Rock Volume = 50.00 LCY Purchase Price / Royalty: \$13.75/LCY x 50.00 LCY = \$687.50 Processing: $$1.20/LCY \times 50.00 LCY = 60.00 Compaction: \$1.38/LCY x 50.00 LCY = \$69.00 Basic Rock Haul cost: \$0.81/LCY x 50.00 LCY = \$40.50 Rock Haul -15% grades: \$1.21/LCY-mi x 50.00 LCY x 0.60 mi= \$36.30 Rock Haul St& Co Roads: \$0.54/LCY-mi x 50.00 LCY x 10.20 mi= \$275.40 Basic Water Haul cost: $0.79/LCY \times 50.00 LCY = 39.50$ Water Haul -15% grades: \$0.17/LCY-mi x 50.00 LCY x 0.60 mi= \$5.10 Water Haul St&Co Roads: \$0.10/LCY-mi x 50.00 LCY x 10.20 mi= \$51.00 Subtotal: \$1,264.30 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL & WASTE AREAS Dry Method with Mulch: $$630.63/acre \times 0.20 acres = 126.13 Includes Small Quantity Factor of 1.19 + Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00 EROSION CONTROL-CHECK DAMS STRAW WATTLE 9 INCH X 5 FEET + 3 STAKES PER CHECK DAM 4 EA x \$50.00/EA = \$200.00LABOR + TRUCK PER CHECK DAM 6 EA x 37.00/EA = 222.00Subtotal: \$612.13

Section 1900 Cattleguards:

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Road Number: 28-11-20.1 R Pleasant Hill Road Continued		12/4/23
	Subtotal:	\$0.00
<pre>Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: \$282.91/acre x 0.10 acres = \$28.29 RoadSide Brushing Medium: \$471.51/acre x 0.20 acres = \$94.30 RoadSide Brushing Heavy: \$754.42/acre x 0.10 acres = \$75.44</pre>		
	Subtotal:	\$198.04
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 2.44% of total Costs = \$171.56 Surfacing - 2.87% by rock volume = \$0.00	Subtotal:	\$171.56
Quarry Development: Based on 2.87% of total rock volume	Subtotal:	\$0.00
		,
	Total:	\$3,841.83

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-20.2 R Road Name:	
Road Renovation: 1.13 mi 20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$305.57
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation: Blading 2.26 mi Slide & Slough Removal, Ditch Cleaning 575.00 cy	\$8,914.58
700-1200 Surfacing: Quarry Name: Hervey 1.5-0" Spot 170.00 LCY	\$4,447.66
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.40 acres Includes Small Quantity Factor of 1.19	\$2,100.88
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):2.70 acres	\$1,357.96
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$800.55 Surf. \$0.00	\$800.55
Quarry Development:	\$0.00
Notes: Total:	\$17,927.19

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

Road Construction Worksheet Road Number: 28-11-20.2 R Road Name: Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: MP 0.98 WASTE AREA - DEVELOPE Tractor: D8 with winch 1 hr x \$305.57/hr = \$305.57 Subtotal: \$305.57 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Comment: EXTREME GRADE-SHAPE-DITCH-BUNCH, ENDHAUL DITCH + FAILURES Slide Removal 575.00 cy Front End Loader \$114.30/hr x 17.00 hr = \$1,943.10 Dump Truck: $\frac{103.09}{hr} \times 17.00 hr = \frac{1,752.53}{100}$ Blading: \$923.61/mi x 2.26 mi = \$2,087.36 Scarification: \$1118.88/mi x 1.13 mi = \$1,264.33 Compaction: \$415.02/mi x 1.13 mi = \$468.97 Clean Culverts (ea): \$83.77/ea x 13 ea = \$1,089.01 COMPACTION TEST - FINISH GRADE Dump Truck 10 cy 3 hr x \$103.09/hr = \$309.27 Subtotal: \$8,914.58 Section 700-1200 Surfacing: Quarry Name: Hervey 1.5-0" Spot Commercial Comment: SPOT ROCK SURFACING MP 0.00 TO 1.13 Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 150 LCY Rock Volume = 150.00 LCY Purchase Price / Royalty: \$13.75/LCY x 150.00 LCY = \$2,062.50 Processing: \$1.20/LCY x 150.00 LCY = \$180.00 Compaction: \$1.38/LCY x 150.00 LCY = \$207.00 Basic Rock Haul cost: \$0.81/LCY x 150.00 LCY = \$121.50 Rock Haul -15% grades: \$1.21/LCY-mi x 150.00 LCY x 1.20 mi= \$217.80 Rock Haul St& Co Roads: \$0.54/LCY-mi x 150.00 LCY x 10.20 mi= \$826.20 Basic Water Haul cost: \$0.79/LCY x 150.00 LCY = \$118.50 Water Haul -15% grades: \$0.17/LCY-mi x 150.00 LCY x 1.20 mi= \$30.60 Water Haul St&Co Roads: \$0.10/LCY-mi x 150.00 LCY x 10.20 mi= \$153.00 Quarry Name: Hervey 1.5-0" Spot Commercial Comment: SPOT ROCK REPAIR SURFACE AT MP 0.77 Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 20 LCY Rock Volume = 20.00 LCY Purchase Price / Royalty: $$13.75/LCY \times 20.00 LCY = 275.00 Processing: $$1.20/LCY \times 20.00 LCY = 24.00 Compaction: $$1.38/LCY \times 20.00 LCY = 27.60 Basic Rock Haul cost: \$0.81/LCY x 20.00 LCY = \$16.20 Rock Haul -15% grades: \$1.21/LCY-mi x 20.00 LCY x 1.50 mi= \$36.30 Rock Haul St& Co Roads: \$0.54/LCY-mi x 20.00 LCY x 10.20 mi= \$110.16 Basic Water Haul cost: \$0.79/LCY x 20.00 LCY = \$15.80 Water Haul -15% grades: \$0.17/LCY-mi x 20.00 LCY x 1.50 mi= \$5.10 Water Haul St&Co Roads: \$0.10/LCY-mi x 20.00 LCY x 10.20 mi= \$20.40 Subtotal: \$4,447.66

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Road Number: 28-11-20.2 R Continued Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL & WASTE SITES Dry Method with Mulch: $630.63/acre \times 1.40 acres = 882.88$ Includes Small Quantity Factor of 1.19 + Mulch Cost: \$320.00/acre x 1.40 acres = \$448.00 EROSION CONTROL-CHECK DAMS STRAW WATTLE 9 INCH X 5 FEET + 3 STAKES PER DAM $8 EA \times $50.00/EA = 400.00 LABOR + TRUCK PER CHECK DAM 10 EA x 37.00/EA = 370.00Subtotal: \$2,100.88 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: \$282.91/acre x 0.90 acres = \$254.62 RoadSide Brushing Medium: \$471.51/acre x 0.90 acres = \$424.36 RoadSide Brushing Heavy: \$754.42/acre x 0.90 acres = \$678.98 Subtotal: \$1,357.96 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Subtotal: \$0.00 Mobilization: Construction - 11.36% of total Costs = \$800.55 Surfacing - 9.75% by rock volume = \$0.00Subtotal: \$800.55 Quarry Development: Based on 9.75% of total rock volume Subtotal: \$0.00 Total: \$17,927.19

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T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: 28-11-3.1 R Road Name:	
Road Renovation: 1.12 mi 20 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 1.00 acres	\$4,696.36
300 Excavation:	\$1,222.28
400 Drainage: Culvert: 0.00 lf DownSpout: 0.00 lf PolyPipe: 0.00 lf	\$0.00
500 Renovation: Blading 2.24 mi Slide & Slough Removal, Ditch Cleaning 525.00 cy	\$7,325.11
700-1200 Surfacing: Quarry Name: Hervey 1.5-0" Spot 150.00 LCY Quarry Name: Hervey Jaw Run LR 125.00 LCY	\$7,331.64
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.50 acres Includes Small Quantity Factor of 1.19	\$1,425.94
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):2.70 acres	\$1 , 357.96
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$1,091.88 Surf. \$0.00	\$1,091.88
Quarry Development:	\$0.00
Notes:	\$24 , 451.17

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are loose cubic yards. Road Construction Worksheet Road Number: 28-11-3.1 R Road Name: Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1) Pile and Burn (Slash): Adjustment Factor (1.28) greater than 40' (Avg Clearing Widths): Adjustment Factor (0) Total Adjustment Factor: 2.54 + 0.1 + 1.28 + 0 = 3.92Base Cost/Acre: \$1,198.05 x Adjustment Factor: 3.92 x Total Acres: 1 = \$4,696.36 Subtotal: \$4,696.36 Section 300 Excavation: EXC+EMB 1 LDG w/APPRCH Tractor: D8 with winch 3 hr x \$305.57/hr = \$916.71 MP 0.02 WASTE AREA - DEVELOPE Tractor: D8 with winch 1 hr x 305.57/hr = 305.57Subtotal: \$1,222.28 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Comment: EXTREME GRADE-SHAPE-DITCH-BUNCH, FAILURE+DITCH ENDHAUL Slide Removal 525.00 cy Front End Loader \$114.30/hr x 11.00 hr = \$1,257.30 Dump Truck: $\frac{103.09}{hr} \times 11.00 hr = \frac{1,133.99}{hr}$ Blading: \$923.61/mi x 2.24 mi = \$2,068.89 Scarification: \$1118.88/mi x 1.12 mi = \$1,253.15 Compaction: \$415.02/mi x 1.12 mi = \$464.82 Clean Culverts (ea): \$83.77/ea x 10 ea = \$837.70 COMPACTION TEST - FINISH GRADE Dump Truck 10 cy 3 hr x \$103.09/hr = \$309.27 Subtotal: \$7,325.11 Section 700-1200 Surfacing: Commercial Quarry Name: Hervey 1.5-0" Spot Comment: SPOT ROCK SURFACING MP 0.00 TO 1.12 Length TopW BotW Depth CWid <u>#TOs Width F.W.L Taper</u> Other 150 LCY Rock Volume = 150.00 LCY Purchase Price / Royalty: \$13.75/LCY x 150.00 LCY = \$2,062.50 Processing: \$1.20/LCY x 150.00 LCY = \$180.00 Compaction: $$1.38/LCY \times 150.00 LCY = 207.00 Basic Rock Haul cost: \$0.81/LCY x 150.00 LCY = \$121.50 Rock Haul -15% grades: \$1.21/LCY-mi x 150.00 LCY x 2.47 mi= \$448.31 Rock Haul St& Co Roads: \$0.54/LCY-mi x 150.00 LCY x 10.20 mi= \$826.20 Basic Water Haul cost: \$0.79/LCY x 150.00 LCY = \$118.50 Water Haul -15% grades: \$0.17/LCY-mi x 150.00 LCY x 2.47 mi= \$62.99 Water Haul St&Co Roads: \$0.10/LCY-mi x 150.00 LCY x 10.20 mi= \$153.00 Commercial Quarry Name: Hervey Jaw Run LR Comment: MP 0.86 landing w/approach surfacing Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 85 LCY Rock Volume = 85.00 LCY Purchase Price / Royalty: \$11.00/LCY x 85.00 LCY = \$935.00 Processing: $$1.20/LCY \times 85.00 LCY = 102.00 Compaction: \$1.38/LCY x 85.00 LCY = \$117.30 Basic Rock Haul cost: \$0.81/LCY x 85.00 LCY = \$68.85 Rock Haul -15% grades: \$1.21/LCY-mi x 85.00 LCY x 2.70 mi= \$277.70

12/4/23 Road Number: 28-11-3.1 R Continued Rock Haul St& Co Roads: \$0.54/LCY-mi x 85.00 LCY x 10.20 mi= \$468.18 Basic Water Haul cost: $0.79/LCY \times 85.00 LCY = 67.15$ Water Haul -15% grades: \$0.17/LCY-mi x 85.00 LCY x 2.70 mi= \$39.02 Water Haul St&Co Roads: \$0.10/LCY-mi x 85.00 LCY x 10.20 mi= \$86.70 Commercial Quarry Name: Hervey Jaw Run LR Comment: MP 0.39 TRUCK TURNOUT SURFACING Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 40 LCY Rock Volume = 40.00 LCY Purchase Price / Royalty: \$11.00/LCY x 40.00 LCY = \$440.00 Processing: \$1.20/LCY x 40.00 LCY = \$48.00 Compaction: \$1.38/LCY x 40.00 LCY = \$55.20 Basic Rock Haul cost: \$0.81/LCY x 40.00 LCY = \$32.40 Rock Haul -15% grades: \$1.21/LCY-mi x 40.00 LCY x 2.20 mi= \$106.48 Rock Haul St& Co Roads: \$0.54/LCY-mi x 40.00 LCY x 10.20 mi= \$220.32 Basic Water Haul cost: $0.79/LCY \times 40.00 LCY = 31.60$ Water Haul -15% grades: \$0.17/LCY-mi x 40.00 LCY x 2.20 mi= \$14.96 Water Haul St&Co Roads: \$0.10/LCY-mi x 40.00 LCY x 10.20 mi= \$40.80 Subtotal: \$7,331.64 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL & WASTE AREAS Dry Method with Mulch: $630.63/acre \times 1.50 acres = 945.94$ Includes Small Quantity Factor of 1.19 + Mulch Cost: \$320.00/acre x 1.50 acres = \$480.00 Subtotal: \$1,425.94 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: \$282.91/acre x 0.90 acres = \$254.62 RoadSide Brushing Medium: \$471.51/acre x 0.90 acres = \$424.36 RoadSide Brushing Heavy: \$754.42/acre x 0.90 acres = \$678.98 Subtotal: \$1,357.96 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Subtotal: \$0.00 Mobilization: Construction - 15.50% of total Costs = \$1,091.88Surfacing - 15.77% by rock volume = \$0.00

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Quarry I	Deve	elopment	::			
Based	on	15.77%	of	total	rock	volume

Subtotal: \$0.00

12/4/23

Total: \$24,451.17

T.S. Contract Name: New Yankee Sale Date: 02/23/2024 Road Number: SWING ROAD C Road Name:	
Road Construction:0.16 mi16 ft Subgrade 0 ft ditch200 Clearing and Grubbing:0.80 acres	\$3,948.77
300 Excavation: Standard cy Haul < 500 ft: 563.00 sta-yds Haul > 500 ft: 119.00 yd-mi	\$3,867.95
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: 0.40 acres Includes Small Quantity Factor of 1.19	\$380.25
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. \$383.15 Surf. \$0.00	\$383.15
Quarry Development:	\$0.00
Total:	\$8,580.12

Notes:

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

Road Construction Worksheet

Road Number: SWING ROAD C Road Name:

Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 31-45% (Avg Side Slopes): Adjustment Factor (0.2) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.2 + 1.28 + 0.1 = 4.12Base Cost/Acre: \$1,198.05 x Adjustment Factor: 4.12 x Total Acres: .8 = \$3,948.77 Subtotal: \$3,948.77 Section 300 Excavation: Comment: FREEHAUL + OVERHAUL+ADDED COST FOR CY OVER 500' Excavation - Common: $$2.66/cy \times 1,000.00 cy = $2,660.00$ Embankment Placement & Compaction 306.f - Common: $\frac{30.39}{\text{cy}} \times 1,000.00 \text{ cy} = \frac{3390.00}{100}$ End Hauling - 100 to 500 ft: \$0.21/sta-yd x 563.00 sta-yd = \$118.23 End Hauling > 500 ft and 10 mph: \$2.44/yd-mi x 119.00 yd-mi = \$290.36 End Hauling > 500 ft - Fixed Cost (CY): \$3.44/cy x 119.00 cy = \$409.36 Subtotal: \$3,867.95 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: \$0.00 Subtotal: Section 700-1200 Surfacing: Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL AND WASTE SITES Dry Method with Mulch: $630.63/acre \times 0.40 acres = 252.25$ Includes Small Quantity Factor of 1.19 + Mulch Cost: \$320.00/acre x 0.40 acres = \$128.00 Subtotal: \$380.25 Section 1900 Cattleguards: \$0.00 Subtotal: Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Number: SWING ROAD C Continued	Pa	age 32 of 37 12/4/23
	Subtotal:	\$0.00
Mobilization: Construction - 5.44% of total Costs = \$383.15 Surfacing - 0.00% by rock volume = \$0.00	Subtotal:	\$383.15
Quarry Development: Based on 0.00% of total rock volume	Subtotal:	\$0.00
	Total:	\$8,580.12

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: New Yankee Sale Date: 02/23/2024

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Comment: INITIAL MOB + EQUIPMENT ROADING

Fire Equipment: 1 ea x (1.00 x \$91.00/ea + 5 mi x \$5.06/mi)= \$116.30
Graders-all: 1 ea x (1.00 x \$536.00/ea + 5 mi x \$18.44/mi)= \$628.20
Loaders < 3cy: 1 ea x (1.00 x \$536.00/ea + 0 mi x \$11.43/mi)= \$536.00
Rollers & Comp: 1 ea x (1.00 x \$536.00/ea + 5 mi x \$27.67/mi)= \$674.35
Excavators (Lg): 1 ea x (1.00 x \$1176.00/ea + 5 mi x \$33.32/mi)= \$1,342.60
Tractors >= D8: 1 ea x (1.00 x \$1176.00/ea + 5 mi x \$63.21/mi)= \$1,492.05
Dump Truck<=15cy: 1 ea x (1.00 x \$131.00/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: 8 ea x (\$250.00) /ea = \$2,000.00</pre>

Mobilization: Surfacing

Subtotal: \$7,044.50

Subtotal: \$0.00

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name:	New Yai	nkee Sale	Date: 02/2	23/2024		
Road Number 28-11-16.1 R 28-11-16.6AB C 28-11-16.7 C 28-11-16.8 C	Const 17.2 7.7 5.5	Improv	Renov 5.81	Decomm	Temp	
28-11-16.9 I 28-11-20.0 R 28-11-20.1 R 28-11-20.2 R 28-11-3.1 R SWING ROAD C	8.4	2.1	27.98 7.92 59.66 59.14			
Total Sta:	38.80	2.10	160.51			
200 Clearing and Gr	ubbing*		Cleari	ng		
28-11-16.1 R 28-11-16.6AB C 28-11-16.7 C			acres 0.0 1.8 0.8			
28-11-16.8 C 28-11-16.9 I 28-11-20.0 R			0.6 0.2 0.0			
28-11-20.1 R 28-11-20.2 R 28-11-3.1 R SWING ROAD C			0.0 0.0 1.0 0.8			
		Totals:	5.20			
300 Excavation			Excav LCY.s	Haul sta-yds	Haul yd-mi	
28-11-16.6AB C			3,900	6,300	0	
28-11-16.7 C 28-11-16.8 C			1,300 650	1,100 163	0 0	
28-11-16.9 I			200	0	0	
SWING ROAD C			1,000	563	119	
		Totals:	7,050	8,126	119	
COMPACT TEST - SU Dump Truck 10						
COMPACTION TEST -	SUBGRAI	DE 28-11.	-16.9 I			
COMPACTION TEST -	SUBGRAI	DE 28-11-	-16.7 C			5 hr
COMPACTION TEST -	SUBGRAI	DE 28-11.	-16.6AB C			5 hr
	ith wind	ch				3 hr
MP 0.02 WASTE ARE Tractor: D8 w MP 0.98 WASTE ARE	ith wind	ch				1 hr
						1 hr

400	Drainage

2					
Road Number 28-11-16.6AB C		Polypipes	Downspouts		
28-11-16.7 C	0 lf 0 lf	172 lf 60 lf	0 lf 0 lf		
Total Drainage:		232 lf			
Culvert Qty 12 inch	Aluminized 0 lf	Galvanized 0 lf	Poly Pipe		
18 inch	0 lf	0 lf	232 lf		
24 inch	0 lf	0 lf	0 lf		
30 inch	0 lf	0 lf	0 lf		
36 inch	0 lf	0 lf	0 lf		
42 inch 48 inch	0 lf 0 lf	0 lf 0 lf			
48 INCH	0 11	0 11			
Downspout Qty	Half Round	Full (poly)	Full (galv)		
18 inch	0 lf	0 lf	0 lf		
21 inch	0 lf				
24 inch	0 lf	0 lf	0 lf		
30 inch			0 lf		
500 Renovation*		Blade Mil	les Slide cy		
28-11-16.1 R		0.11	25		
28-11-20.0 R		1.10			
28-11-20.1 R		0.30	100		
28-11-20.2 R		2.26	575		
28-11-3.1 R		2.24	525		
BRIDGE DECK CLEAN	IING 28-11-20	: 6.01 .0 R	1,450	1 br	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST -	NING 28-11-20 Ter	: 6.01 .0 R 	<u> </u>	1 hr 2 hr	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST -	IING 28-11-20 Fer	: 6.01 .0 R 	<u> 1,450</u>	2 hr	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST -	IING 28-11-20 er	: 6.01 .0 R 	<u> 1,450</u>	2 hr	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST -	IING28-11-20er6/4Ton PickupFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcy	: 6.01 .0 R 	<u> 1,450</u>	2 hr	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10	IING 28-11-20 rer	: 6.01 .0 R .28-11-16.1 R .28-11-20.0 R .28-11-20.1 R .28-11-3.1 R	<u> 1,450</u>	2 hr 5 hr 5 hr 5 hr	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST -	IING 28-11-20 rer	: 6.01 .0 R .28-11-16.1 R .28-11-20.0 R .28-11-20.1 R .28-11-3.1 R .28-11-20.2 R	<u> 1,450</u>	2 hr 5 hr 5 hr 5 hr 3 hr	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 Surfacing (Loose Cu Note: Due to slight	IING 28-11-20 rer 6/4 Ton Pickup FINISH GRADE Cy HINSH GRADE Cy FINISH GRADE Cy HINSH GRA	: 6.01 .0 R 	1,450	2 hr 5 hr 	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 Surfacing (Loose Cu Note: Due to slight Totals shown here m Quarry Name: Hervey Commercial	IING28-11-20eer6/4Ton PickupFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcybic Yards)rounding differenceay not be exact	: 6.01 .0 R 28-11-16.1 R 28-11-20.0 R 28-11-20.1 R 28-11-3.1 R 28-11-20.2 R 	<u> 1,450</u> 	<pre></pre>	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 Surfacing (Loose Cu Note: Due to slight Totals shown here m Quarry Name: Hervey Commercial 28-11-3.1 R	IING28-11-20eer6/4Ton PickupFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcybic Yards)rounding differenceay not be exact	: 6.01 .0 R 28-11-16.1 R 28-11-20.0 R 28-11-20.1 R 28-11-20.1 R 28-11-20.2 R 28-11-20.2 R 	1,450 	<pre></pre>	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 Surfacing (Loose Cu Note: Due to slight Totals shown here m Quarry Name: Hervey Commercial 28-11-3.1 R 28-11-20.0 R	IING28-11-20eer6/4Ton PickupFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcybic Yards)rounding differenceay not be exact	: 6.01 .0 R 28-11-16.1 R 28-11-20.0 R 28-11-20.1 R 28-11-20.1 R 28-11-3.1 R 28-11-20.2 R 	1,450 	<pre></pre>	-
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 Surfacing (Loose Cu Note: Due to slight Totals shown here m Quarry Name: Hervey Commercial 28-11-3.1 R 28-11-20.0 R 28-11-20.1 R	IING28-11-20eer6/4Ton PickupFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcybic Yards)rounding differenceay not be exact	: 6.01 .0 R 28-11-16.1 R 28-11-20.0 R 28-11-20.1 R 28-11-20.1 R 28-11-20.2 R 28-11-20.2 R 	1,450 1,450	2 hr 5 hr 	
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 Surfacing (Loose Cu Note: Due to slight Totals shown here m Quarry Name: Hervey Commercial 28-11-3.1 R 28-11-20.0 R 28-11-20.1 R 28-11-20.2 R	IING28-11-20eer6/4Ton PickupFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcybic Yards)rounding differenceay not be exact	: 6.01 .0 R 28-11-16.1 R 28-11-20.0 R 28-11-20.1 R 28-11-20.1 R 28-11-20.2 R 28-11-20.2 R 	1,450 1,450	<pre></pre>	-
BRIDGE DECK CLEAN General Labor Crew Cab or 3 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 COMPACTION TEST - Dump Truck 10 Surfacing (Loose Cu Note: Due to slight Totals shown here m Quarry Name: Hervey Commercial 28-11-3.1 R 28-11-20.0 R 28-11-20.1 R	IING28-11-20eer6/4Ton PickupFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcyFINISH GRADEcybic Yards)rounding differenceay not be exact	: 6.01 .0 R 28-11-16.1 R 28-11-20.0 R 28-11-20.1 R 28-11-20.1 R 28-11-20.2 R 28-11-20.2 R 	1,450 1,450	2 hr 5 hr 	

hr

Continuation of Construction Quantities

Quarry Name: Hervey	1.5-0" Surf					
Commercial		Roadway	Turnouts	Other		
28-11-16.7 C		127	0	0	127	
28-11-16.6AB C		35	0	0	35	
	Totals:	162	0	0	162	
Quarry Name: Hervey	3-0" Surf					
Commercial		Roadway	Turnouts	Other		
28-11-16.9 I		96	0	0	96	
28-11-16.8 C		258	0	0	258	
	Totals:	354	0	0	354	
Quarry Name: Hervey	Jaw Run LR					
Commercial		Roadway	Turnouts	Other		
28-11-3.1 R		0	0	85	85	
28-11-16.1 R		0	0	50	50	
28-11-16.9 I		0	0	50	50	
28-11-16.7 C		0	0	100	100	
28-11-16.8 C		0	0	100	100	
28-11-3.1 R		0	0	40	40	
	Totals:	0	0	425	425	
Quarry Name: Hervey Commercial	Jaw Run Base	Roadway	Turnouts	Other		
	Totals:	0	0	0	0	
Quarry Name: Hervey	3-0" Base					
Commercial		Roadway	Turnouts	Other		
28-11-16.7 C		284	0	0	284	
28-11-16.6AB C		78	21	0	99	
	Totals:	362	21	0	383	
Quarry Name: Hervey Commercial	Class 4 RR	Roadway	Turnouts	Other		
	Totals:	0	0	0	0	
COMPACTION TEST -	SURF. / LIFT					1 hr
COMPACTION TEST -	SURF. / LIFT	28-11-16.8	С			1 III
Dump Truck 10	су					1 hr
COMPACTION TEST -	SURF. / LIFT	28-11-16.7	С			1.5 hi
COMPACTION TEST -	SURF. / LIFT	 28-11-16.6A	AB C		••••	т.Ј III
Dump Truck 10	су					1 hr

1800	Soil	stabilization	-	acres****	Dry W/O	Dry/with	Hyd	ro
					Mulch	Mulch	Mulc	h

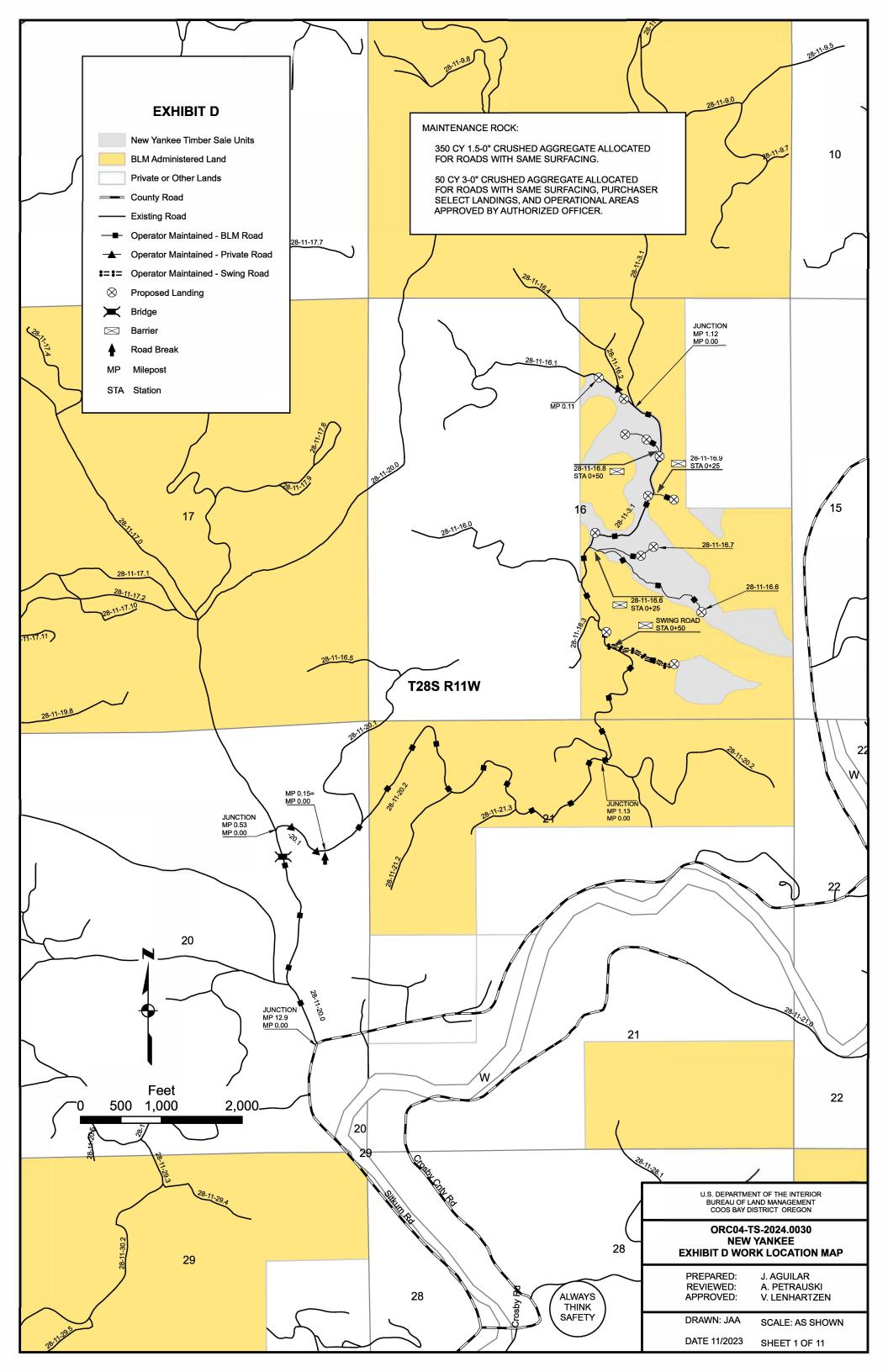
Totals: 0.00 6.80 0.00 Small Quantity Factor of 1.19 used

****Acres associated with each road are listed in road summaries and worksheets.

EROSION CONTROL-CHECK DAMS	28-11-20.1 R										
STRAW WATTLE 9 INCH X 5	FEET + 3 STAKES F	PER	CHECK	DAM	 •				•	•	4 EA
LABOR + TRUCK PER CHECK	DAM				 •				•	•	6 EA
EROSION CONTROL-CHECK DAMS	28-11-20.2 R										
STRAW WATTLE 9 INCH X 5	FEET + 3 STAKES F	PER	DAM .		 •						8 EA
LABOR + TRUCK PER CHECK	DAM				 •						10 EA
EROSION CONTROL-CHECK DAMS	28-11-20.0 R										
STRAW WATTLE 9 INCH X 5	FEET + 3 STAKES P	PER	CHECK	DAM	 •	•	•	•	•	•	8 EA
LABOR + TRUCK PER CHECK	DAM				 •			•	•	•	10 EA

2100 RoadSide Brushing	acres
28-11-16.1 R - Mechanical Brushir	ng 0.3
28-11-20.0 R - Mechanical Brushir	ng 1.3
28-11-20.1 R - Mechanical Brushir	ng 0.4
28-11-20.2 R - Mechanical Brushir	ng 2.7
28-11-3.1 R - Mechanical Brushing	g 2.7

Totals: 7.40



	SURFACI	NG (*1, *2)			OTHER (*	1)	
ROAD NUMBER	3-0" MAINT. ROCK (*3, 4)	1.5-0" MAINT. ROCK (*6)	WATER BAR	CULVERT REMOVAL	EARTHEN BARRIER	RIP RAP BARRIER (*9)	SOIL STABILIZATION DRY
SECTION NO	1000	1200	3400	3400	3400	1400	1800
UNITS	C.Y.	C.Y.	EA.	EA.	EA.	C.Y.	ACRES
28-11-3.1		//,(60)///					
28-11-16.1							
28-11-16.6						20	
28-11-16.7							
28-11-16.8					1		
28-11-20.0							
28-11-20.1							
28-11-20.2							
28-11-16.9					1		
SWING ROAD					1		
PROJECT TOTALS:	50	350	30		3	20	3

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

*2 ALL ROCK QUANTITIES ARE TRUCK MEASUREMENT (LOOSE).

*3 BASE COURSE ROCK MAY BE ALLOCATED TO PURCHASER SELECT LANDINGS AND ADJACENT OPERATIONAL AREAS APPROVED BY AUTHORIZED OFFICER.

ESTIMATE OF QUANTITIES (*1)

*

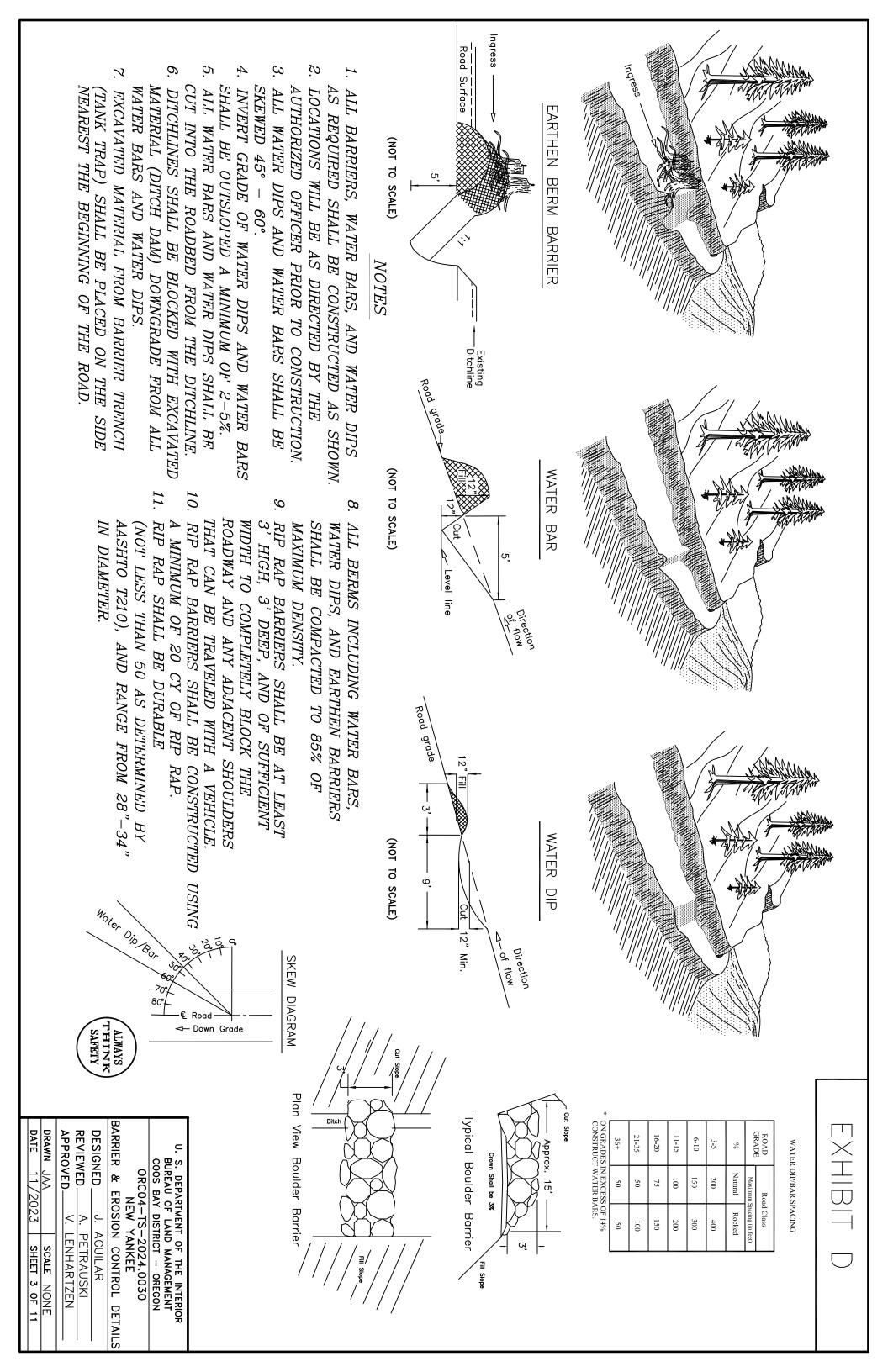
4

6

TREATMENT ALLOCATED TO ROAD.

	*NOTE	
SECTION	GRADE	SIZE
1000	А	3-0"
1000		6-0"
1200	С	1.5-0"
1200	E 1	0.75-0"
1400	CLASS 3	27-8"
1400	CLASS 4	33-9"
2600	ODOT LEVEL III ASPHALT	1/2" DENSE PG-64-22

	U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON ORCO4-TS-2024.0030 NEW YANKEE					
	EXHIBIT D ESTIMATE OF QUANTITIES					
\frown	DESIGNEDJ. AGUILAR					
/ ALWAYS	REVIEWED A. PETRAUSKI					
(THINK)	APPROVED V. LENHARTZEN					
SAFETY	DRAWN JAA SCALE NONE					
\bigcirc	DATE 11/2023 SHEET 2 OF 11					



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	DESCRIPTION
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 furnish and place **50 CY of 3-0**" crushed aggregate base course and **350 CY of 1.5-0**" crushed aggregate surfacing, conforming to the requirements in Sections 1000 and 1200 of Exhibit C of this contract, on the roadway at locations and in the amounts designated by the Authorized Officer.

This crushed aggregate shall be used to repair surface failures, and areas of depleted surface depth, excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, and spread by use of dump trucks, water trucks, motor patrol grader, and compacted by roller compactor.

- 3103 The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 The Purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor patrol grader, rubber-tired front-end bucket loader, rubber-tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a Removal of bank slough and slide material includes placement of material at the nearest suitable turnout or disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion.
- 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen (15) station yards in quantity*, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser.

Prior to removal of any slough or slide material exceeding fifteen (15) station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.

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

* NOTE: One station yard is 1 cubic yard of material moved 100' i.e., 15 station yards is 15 CY moved 100' or 30 CY moved 50'.

- 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 his activities or winter damage during the contract period. Disposal of such vegetative material shall be by scattering below the road in accordance with Section 2100 and as directed by Authorized Officer.

- 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 non-hauling 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.

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:
- Road No. Roadwork
- **NOTE:** Rock tickets for utilized maintenance rock, shall be provided to Authorized Officer within 3 days of placement of rock.
- **NOTE:** Any water bars, earthen berm barriers, and boulder barriers shall be constructed in accordance with Barrier and Erosion Control Details.
- 28-11-3.1 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

 \thicksim Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

~ Utilize maintenance rock in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~ Install compacted 3" lift of 1.5-0" crushed aggregate between MP 0.37 and MP 0.44 (estimated 60 CY) in accordance with Section 1200 of the Exhibit C.

~Protection of exposed surfaces shall be accomplished with placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

28-11-16.1 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

 \sim Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

 \sim Utilize 1.5-0" maintenance rock in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

28-11-16.6 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

 \sim Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

 \sim Utilize maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a draw crossing.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

➤ Construct rip rap barrier as directed by the Authorized Officer. 20 CY Class 4 rip rap allocated to construct barrier.

28-11-16.7 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

 \sim Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

➤ Utilize 1.5-0" maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

 \sim Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a draw crossing.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

28-11-16.8 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

➤ Utilize 3-0" maintenance rock, in accordance with Section 1000 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a draw crossing.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

 \sim Construct an earthen berm barrier as directed by the Authorized Officer. Seed and mulch earthen berm barrier in accordance with Section 1800 of the Exhibit C.

28-11-20.0 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

➤ Utilize 1.5-0" maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

28-11-20.1 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Utilize 1.5-0" maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

28-11-20.2 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Utilize 1.5-0" maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

28-11-16.9 ~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Utilize 3-0" maintenance rock, in accordance with Section 1000 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a draw crossing.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

 \sim Construct an earthen berm barrier as directed by the Authorized Officer. Seed and mulch earthen berm barrier in accordance with Section 1800 of the Exhibit C.

SWING ROAD ~ Upon completion of all logging activities the swing road shall be prepared in accordance with Section 500 of the Exhibit C.

~Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a draw crossing.

~Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800, these specifications, as shown in the plans or at direction of the Authorized Officer.

~ Construct an earthen berm barrier as directed by the Authorized Officer. Seed and mulch earthen berm barrier in accordance with Section 1800 of the Exhibit C.

Sale: New Yankee Sale Date: 02/23/2024 UNITED STATES Prep. By : JAA DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE WORK SHEET

Summary of Costs

Purchaser Maintenance Allowances:

(5.2A) Move In	\$2,138.00
(5.2B) Culverts, Catch Basins, Downspouts	\$3,099.49
(5.2C) Grading, Ditching	\$3,455.36
(5.2F) Surface Repair (Aggregate)	\$11,229.92
(5.2G) Other	\$5,400.00
(5.2H) Decommissioning	\$1,001.43

Total Cost = $\frac{$26, 324.20}{}$

Notes: Quantities shown are estimates only and not pay items.

Move In

No	Move	Cost/	Dist	Sub-	
Equipment	Units	s x in x	50 Mi x	Factor	= total
Motor Grader	: 1	1	536	1.00	\$536.00
Back Hoe:	1	1	399	1.00	\$399.00
Loader:			536	0.63	\$0.00
Water Truck:	1	1	131	1.00	\$131.00
Dump Truck:			124	0.63	\$0.00
Excavator:	1	1	536	1.00	\$536.00
Roller:	1	1	536	1.00	\$536.00

(5.2A) Total <u>\$2,138.00</u>

Culvert Maintenance - Including Catch basins and Downpipes

Type CMPNo CMPS x Cost/CMP= SubtotalMinor Cleaning37\$83.77\$3,099.49

(5.2B) Total <u>\$3,099.49</u>

Grading (Includes Ditches and Shoulders)

Miles	х	Cost/Mi	x Freq =	= Subtotal		
Blade	w/	Ditch:	3.62	923.61	1	\$3,343.47
Blade	w/o	Ditch:	0.20	559.44	1	\$111.89

(5.2C) Total <u>\$3,455.36</u>

Surface Repair (Aggregate)

Quarry / Source Name: Production Cost: Haul to Stockpile:								=	\$4,812.50
Grades > 15% Grades <= 15% State / Co Roads Stockpile: Process with Grader: Compaction:	350.0 350.0 350.0 350.0	CY X CY X CY X CY X	((\$2.43/CY ((\$1.21/CY ((\$0.54/CY \$1.32/CY \$1.20/CY \$1.38/CY	х	1.75 1	Mi)	+ \$0.81) + \$0.81)	= = = =	\$1,024.63
<u>Quarry / Source Name:</u> Production Cost: Haul to Stockpile:								=	\$645.00
Grades > 15% Grades <= 15% State / Co Roads Stockpile: Process with Grader: Compaction:	50.0 50.0 50.0 50.0	CY X CY X CY X CY X	((\$2.43/CY ((\$1.21/CY ((\$0.54/CY \$1.32/CY \$1.20/CY \$1.38/CY	Х	1.75 1	Mi)	+ \$0.81)	= = = =	\$146.38
Quarry / Source Name: Production Cost: Haul to Stockpile:								=	\$316.00
Grades > 15% Grades <= 15% State / Co Roads	20.0	CY x	((\$2.43/CY ((\$1.21/CY ((\$0.54/CY	Х	2.30 1	Mi)	+ \$0.81)	=	\$71.86

(5.2F) Total <u>\$11,229.92</u>

Other

SOIL STABILIZATION - SEC.	1800 Lump Sum	=\$2,400.00
WATER BARS - SEC. 3400	Lump Sum	=\$2,400.00
WATER HAUL - MAINT. ROCK	Lump Sum	=\$600.00

(5.2G) Total <u>\$5,400.00</u>

Decommissioning

Other Costs

Road	Cubic Y	ds	Qty		Qty	
Number	Pullback Ma	terial	Waterbars*	Eai	rthen Barriers	= Total
28-11-16.8 SPUR 1A I SWING ROAD	(0x2.19)	+ + +	(0x86.27) (0x86.27) (0x86.27)	+ + +	(1x258.81) (1x258.81) (1x258.81)	= \$258.81 = \$258.81 = \$258.81

(Other Cost) Total \$776.43

*INSTALL WATERBARS PER ROAD MAINTENACE SPECIFICATIONS SECTION 3400. LUMP SUM.

Time & Equipment

28-11-16.6 RIP RAP BARRIER INSTALL - TIME AND EQUIPMENT: 1 EA @ \$225.00/EA =\$225.00

(5.2H) Decommissioning Total <u>\$1,001.43</u>

EXHIBIT E

E VOLUME:	3374	NET MBF	3	623	-	Sale Number	ORC04-TS-2024.	0030
	 Payable to Private Comp 	2017						
OAD USE I LES -	- Fayable to Filvate Comp	AGREEMENT	ROAD	NET	USE FEE	TOTAL		
	COMPANY NAME	NUMBER	NUMBER	MBF	per MBF	FEES		
		-					=	
	RRC		28-11-16.1	205	\$2.83	580.15	5	
	RRC		28-11-20.0A	3374	\$0.12	\$404.88	6	
]	
				TOT	AL USE FEE	: \$985.03	5	
IAINTENANCE FE								
	Rockwear Fees Payable to	o the U.S. (BLM M	laintained Roads	.):				
Timber Haul:								
Surface	ROAD NUMBER	NET MBF	ROAD MILES	ROCKWEAR /MBF/Mile	Subtatal	MAINT+Rock		TOT/ FEE
Туре		IVIDE	IVIILES	/IVIDF/IVIIIe	Subtotal	\$/MBF/Mile	Subtotal	
BST							\$0.00	
531							φ0.00	
			0.00		\$0.00		\$0.00	\$0.0
			() ()()					
			0.00		Ф 0.00		φ0.00	ψ0.0
	s Pavable to the U.S. (OPF	RATOR Maintain			Φ0.00		Ф 0.00	ψ0.0
	s Payable to the U.S. (OPE	ERATOR Maintain		SURFACE	\$0.00		\$0.00	ψ0.0
Timber Haul:	s Payable to the U.S. (OPE		ned Roads):	SURFACE REPLACEMENT	\$0.00			ψο.υ
	s Payable to the U.S. (OPE ROAD NUMBER	ERATOR Maintain NET MBF		SURFACE REPLACEMENT /MBF/Mile	\$0.00		\$0.00 TOTAL FEES	ψ0.0
Timber Haul: Surface		NET	ned Roads): ROAD	REPLACEMENT	\$0.00		TOTAL	ψυ.υ
Timber Haul: Surface		NET	ned Roads): ROAD	REPLACEMENT	\$0.00		TOTAL	ψυ.
Timber Haul: Surface Type	ROAD NUMBER	NET MBF	ned Roads): ROAD MILES	REPLACEMENT /MBF/Mile	\$0.00		TOTAL FEES	ψυ.
Timber Haul: Surface Type ASC	ROAD NUMBER 28-11-3.1	NET MBF 205	ned Roads): ROAD MILES 0.14	REPLACEMENT /MBF/Mile \$0.85	\$0.00		TOTAL FEES \$24.40	ψŪ.C
Timber Haul: Surface Type ASC ASC	ROAD NUMBER 28-11-3.1 28-11-16.8	NET MBF 205 265	ned Roads): ROAD MILES 0.14 0.04	REPLACEMENT /MBF/Mile \$0.85 \$0.85	\$0.00		TOTAL FEES \$24.40 \$9.01	ψŪ.C
Timber Haul: Surface Type ASC ASC ACS	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8	NET MBF 205 265 519	ned Roads): ROAD MILES 0.14 0.04 0.05	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85	\$0.00		TOTAL FEES \$24.40 \$9.01 \$22.06	ψŪ.C
Timber Haul: Surface Type ASC ASC ACS ASC	28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-16.9	NET MBF 205 265 519 616	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85	\$0.00		TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24	ψŪ.C
Timber Haul: Surface Type ASC ASC ASC ASC ASC	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1	NET MBF 205 265 519 616 821	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.10	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85	\$0.00		TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79	ψŪ.C
Timber Haul: Surface Type ASC ASC ACS ASC ASC ASC ASC	28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-16.9	NET MBF 205 265 519 616 821 119	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.01 0.10 0.04	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85	\$0.00		TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05	ψŪ.C
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC ASC ASC Dirt	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-16.9 28-11-3.1	NET MBF 205 265 519 616 821 119 1025	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.10 0.04 0.04 0.20	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85			TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25	ψŪ.C
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC ASC Dirt ASC	28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1	NET MBF 205 265 519 616 821 119 1025 1306	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.10 0.10 0.04 0.20 0.03	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85	\$0.00		TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25 \$33.30	ψŪ.C
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC ASC Dirt ASC ASC ASC	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1	NET MBF 205 265 519 616 821 119 1025 1306 738	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.10 0.04 0.20 0.03 0.30	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85	\$0.00		TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25 \$33.30 \$188.19	ψŪ.C
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC ASC Dirt ASC	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-16.6 28-11-16.7	NET MBF 205 265 519 616 821 119 1025 1306 738 135	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.10 0.10 0.04 0.20 0.03 0.30 0.04	REPLACEMENT /MBF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85			TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25 \$33.30 \$188.19 \$4.59	ψυ.ε
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC ASC Dirt ASC ASC ASC	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-6.6 28-11-16.7	NET MBF 205 265 519 616 821 119 1025 1306 738 135 785	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.01 0.10 0.04 0.20 0.03 0.30 0.30 0.04 0.80	REPLACEMENT ///BF/Mile \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85 \$0.85			TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25 \$33.30 \$188.19 \$4.59 \$4.59	ψŪ.C
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC Dirt ASC ASC ASC ASC ASC	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-6.6 28-11-16.6 28-11-16.7 28-11-16.6	NET MBF	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.10 0.04 0.20 0.03 0.30 0.30 0.04 0.80 0.02	REPLACEMENT /MBF/Mile \$0.85			TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25 \$33.30 \$188.19 \$4.59 \$4.59 \$533.80 \$28.19	ψŪ.C
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC ASC Dirt ASC ASC ASC ASC ASC ASC	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-6.6 28-11-16.7 28-11-16.7 28-11-16.6 28-11-16.7 28-11-3.1	NET MBF	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.01 0.01 0.01 0.04 0.20 0.03 0.03 0.03 0.03 0.03 0.04 0.80 0.02 0.27	REPLACEMENT /MBF/Mile \$0.85			TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25 \$33.30 \$188.19 \$4.59 \$4.59 \$4.59 \$4.59 \$4.59 \$4.59	ψυις
Timber Haul: Surface Type ASC ASC ASC ASC ASC ASC ASC Dirt ASC ASC ASC ASC ASC ASC ASC ASC ASC	ROAD NUMBER 28-11-3.1 28-11-16.8 28-11-16.8 28-11-16.8 28-11-3.1 28-11-3.1 28-11-3.1 28-11-3.1 28-11-6.6 28-11-16.7 28-11-16.7 28-11-16.7 28-11-3.1 28-11-3.1	NET MBF	ned Roads): ROAD MILES 0.14 0.04 0.05 0.01 0.10 0.04 0.20 0.03 0.30 0.30 0.30 0.04 0.80 0.02 0.27 0.39	REPLACEMENT /MBF/Mile \$0.85			TOTAL FEES \$24.40 \$9.01 \$22.06 \$5.24 \$69.79 \$4.05 \$174.25 \$33.30 \$188.19 \$4.59 \$4.59 \$533.80 \$28.19 \$649.26 \$1,118.48	φοιε

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

	NCE AND/OR ROCKWE	AR FEES - Payab	ne to Private Com	pany.			
Surface		AGREEMENT	ROAD	NET	ROAD	MAINT+Rock	TOTAL
Туре	COMPANY NAME	NUMBER	NUMBER	MBF	MILES	\$/MBF/Mile	FEES
ASC	RRC		28-11-16.1	108	0.08	\$0.85	\$7.34
ASC	RRC		28-11-16.1	205	0.03	\$0.85	\$5.23
ASC	RRC		28-11-20.0A	3374	0.03	\$0.00	\$0.00
ASC	RRC		28-11-20.1A	3374	0.15	\$0.85	\$430.19

		0.29		\$442.76

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX.

=

1.13 MILES OF ROAD. (SEE EXHIBIT D)

SUMMARY OF ROAD USE &	ROAD US	SE FEES		WEAR & ANCE FEES	MAINTE FE	NANCE ES
ROAD MAINTENANCE FEES	TOTAL	\$/MBF	TOTAL	\$/MBF	TOTAL	\$/MBF
1. COMPANY-OWNED ROADS:	\$985.03	\$0.29	\$442.76	\$0.13	\$0.00	\$0.00
2. BLM MAINTAINED ROADS:			\$0.00	\$0.00	\$0.00	\$0.00
3. BLM OPERATOR-MAINTAINED ROADS:			\$7,539.26	\$2.23		\$0.00
	\$985.03	\$0.29	\$7,982.02	\$2.37	\$0.00	\$0.00

	TOTAL	\$/MBF
MAINTENANCE OBLIGATION PAYABLE TO BLM:	\$7,539.26	\$2.23

form 5440-009 June 2022)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	Name of Bidder Tract Number ORC04-TS-2024.0030	
DEPOSIT AND I	<u>BID FOR:</u> (Check One):		Sale Name New Yankee
(Examples of C	or Other Wood Products Other Wood Products: biomass, firewood, posts, poles esources Gegetative Resources: boughs, pinyon nuts, cones, pla		Sale Notice (dated) 02/22/2024 BLM Office Coos Bay District Office
Sealed Bid for	Sealed Bid Sale	Written Bid for Oral	Auction Sale
Deadline for accept	pting sealed bids a.m. p.m.	Sale commences 10:0	0 🔽 a.m. 🗌 p.m.
On (date)	Place	On (date) 03/22/2024	Place Coos Bay District Office
*	above dated Sale Notice, the required deposit and d Products or Vegetative Resources on the tract sp	-	for the purchase of designated Timber
Required bid depo	sit is \$58,800.00 and is enclosed in t	he form of:	
ash mo	ney order 🗌 cashier's check 🗌 certified ch	eck 🗌 bank draft	
bid bond of corp	porate surety on approved list of the United States Treas	ury guaranteed remi	ttance approved by the authorized officer.
IT IS AGREED T	hat the bid deposit shall be retained by the United	States as liquidated damag	ges if the bid is accepted and the

undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. If not otherwise specified in the advertisement, bids for less than the advertised price will not be considered. If the bid is rejected the deposit will be returned.

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

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

	BID	SUBMITTED				ORAI	BID	MADE
PRODUCT & SPECIES	UNIT of MEASURE	ESTIMATED VOLUME OR QUANITY	UN	IT PRICE	PRODUCT VALUE (Quantity X Price)	UNIT PRICE		DDUCT VALUE uantity X Price)
Douglas-fir	MBF	2,650	\$		\$ 0.00	\$	= \$	0.00
Grand fir	MBF	393	\$	49.60	\$ 19,492.80	\$	= \$	0.00
Western hemlock	MBF	292	\$	50.10	\$ 14,629.20	\$	= \$	0.00
Port-Orford-cedar	MBF	27	\$	38.00	\$ 1,026.00	\$	= \$	0.00
Misc. hardwoods	MBF	7	\$	23.00	\$ 161.00	\$	= \$	0.00
Western redcedar	MBF	5	\$	288.40	\$ 1,442.00	\$	= \$	0.00
Biomass	GT	7	\$	0.05	\$ 0.35	\$	= \$	0.00
			\$		\$ 0.00	\$	= \$	0.00
			\$		\$ 0.00	\$	= \$	0.00
			\$		\$ 0.00	\$	= \$	0.00
			\$		\$ 0.00	\$	= \$	0.00
		TOTAL PUR	CHA	SE PRICE	\$		\$	0.00

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

Bid submitted on *(date)*

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

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

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

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

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

<u>Oral Auction</u> – Submit to Sale Supervisor prior to closing of qualifying period for tract.

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

(1) "Bid for Timber and/or Other Wood Products" or "Bid for Vegetative Resources" depending on the products being sold.

(2) Time bids are to be opened.

(3) Legal description.

(4) Sale name and number.

NOTICES

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for Timber and/or Other Wood Products or Vegetative Resources.

INSTRUCTIONS TO BIDDERS

1. AUTHORITY – Timber and/or Other Wood Products or Vegetative Resources, located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 2601); Timber and/ or Other Wood Products or Vegetative Resources located on other public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of Timber and/or Other Wood Products or Vegetative Resources, are codified in 43 CFR Group 5400.

2. *QUALIFICATIONS OF BIDDERS* – A bidder for sale of Timber and/or Other Wood Products or Vegetative Resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the state in which the Timber and/or Other Wood Products or Vegetative Resources are located.

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

4. DISCLAIMER OF WARRANTY – Government expressly disclaims any warranty of the fitness of the designated Timber and/or Other Wood Products or Vegetative Resources for any purpose of the bidder; all Timber and/or Other Wood Products or Vegetative Resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of Timber and/or Other Wood Products or Vegetative Resources to be sold is expressly disclaimed by Government.

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

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

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

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

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

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

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

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

8. AWARD OF CONTRACT-Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he/she is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract. If contract award is delayed more than 90 days, half of the bid deposit may be refunded to the high bidder until the sale award process resumes.

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

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

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

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

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

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

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

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

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

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

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

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

Timber manufactured into the following will be considered processed: (1) Lumber or construction timbers, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list grades, sawn on four sides, not intended for remanufacture; (2) Lumber, construction timbers, or cants for remanufacture, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list clear grades, sawn on four sides, not to exceed twelve inches in thickness; (3) Lumber, construction timbers, or cants for remanufacture, except western red cedar, that do not meet the grades referred to in subclause 2 and are sawn on four sides, with wane less than 1/4 of any face, not exceeding 8³/₄ inches in thickness; (4) Chips, pulp, or pulp products; (5) Veneer or plywood; (6) Poles, posts, or piling cut or treated with preservatives for use as such; (7) Shakes or shingles; (8) Aspen or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp; (9) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 saw logs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.

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



SMALL BUSINESS CERTIFICATION REQUIRED ON

ALL PREFERENTIAL SALES OF SET-ASIDE TIMBER

1. His firm (a) is primarily engaged in the logging or forest products industry; (b) is independently owned and operated; (c) is not dominant in its field of operation; and (d) employs, together with its affiliates, 500 or fewer persons.

2. (a) He agrees not to sell and/or exchange more than 30 percent (50 percent in the case of Alaska) of the timber of log volume from this preferential sale to concerns not meeting SBA's small business size standard. Such timber and log volume comprises logs, bolts and pieces that are suitable for manufacture into lumber dimension and/or veneer and normally appraised as such. Timber and log volume of the preferential sale includes the contract rights, standing and down trees or portions thereof.

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

(c) If his concern is purchased by, becomes controlled by, or merged with a large business, so much of such timber and log volume from this preferential sale as is necessary will be sold (not bartered) to one or more small businesses for compliance with the 30 percent (50 percent in the case of Alaska) restriction.

3. He agrees that if he utilizes log volume from this preferential sale in the manufacture of a product, such manufacture will be done with his own facilities or those of another concern that qualifies as a small business.

4. He understands that in addition to other penalties which may be imposed for violating the foregoing, he may be declared ineligible to participate in future Federal timber sales.

Signed

Date

Form 5450-017	
(July 2021)	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

EXPORT DETERMINATION

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

(1)	Have you exported unprocessed private timber, or if a sourcing area lands tributary to the above processing facility, in the 24 months prior		
	\Box Yes \Box No - Last Export Date (if any within the past 5 years).		
(2)) If the answer in (1) is yes, you are not eligible to purchase federal timber until at least 24 months from the date in (1).		
(3)	Have any of your affiliates* exported unprocessed private timber, or to the above processing facility if within an established sourcing are date of the Federal timber? \Box Yes \Box No - Provide affiliate name the past 5 years):	a, within the 24 months prior to the auction or purchase	
	a. Affiliate	Last Export date	
	b. Affiliate	Last Export date	
	c. Affiliate	Last Export date	
(4)	If any affiliates have exported unprocessed private timber within 24 timber, you are not eligible to purchase federal timber until at least 2		
ontrolle artnersl	43 CFR 5400.0-5: Affiliate means a business entity including but not limited to an indi led by a purchaser, or, along with a purchaser, is controlled by a third business entity. Fu ship, corporation, association, or other legal entity and includes any subsidiary, subcontu s or has the power to control the other or when both are controlled directly or indirectly	rom 16 USC 620e: Export prohibition applies to any individual, ractor, or parent company, and business affiliates where one affiliate	

Name of Firm:

Signature of Signing Officer	Title	Date
By signing this form, you certify that you or your affiliates have not expo		

affiliates have not exported unprocessed private timber within the 24 months prior to the will not export unprocessed private or federal timber for the duration of the federal timber sale. Timber export and substitution violations are subject to civil penalties described in 16 USC 620d and may result in monetary damages and suspension and debarment.

INSTRUCTIONS: The Purchaser must complete the form and return to the Contracting Officer. In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to complete a copy of this form and file the form with the Contracting Officer.

Timber Sale Name and Number:	Return Form to Contracting 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 piling cut or treated with preservatives for use as such; (vii) Shakes or shingles; (viii) Aspen or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp; (ix) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 sawlogs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.

NOTICES

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

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

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

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

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

The Paperwork Reduction Act requires us to inform you that:

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

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

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

Form 5430-1 (May 1965) (formerly 4-1560)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SELF CERTIFICATION CLAUSE BIDDERS STATEMENT

The bidder represents that he \square is \square is not a small business concern as defined by Title 13, Chapter 1, Part 121 of the Code of Federal Regulations, as amended.

(Date)	(Signature of Bidder)		
Title 18 USC, sec. 1001, makes it a crime for any person agency of the United States any false, fictitious or fi within its jurisdiction.	on knowingly and willfully to make to any department audulent statements or representations as to any matter		
INSTRUCTIONS			
In order to qualify for a set-aside sale, all bidders must certify to being a small business concern by submitting an executed Self Certification Clause.	the Self Certification Clause will be immediately returned with the deposit, to the unsuccessful bidders but may be resubmitted to qualify for other set-aside sales offered on the same date.		
The date on the Self Certification Clause and the sale date must be the same.	The Self Certification Clause submitted by the successful bidder will be retained by the Bureau of Land		
A Self Certification Clause must accompany the deposit to qualify for each set-aside sale. After a sale award is made,	Management.		

GPO 850-444

GPO 905716