

COOS BAY SALE NO. ORC04-TS-2025.0030
 FRENCHIE BELIEUS

COOS BAY DISTRICT OFFICE
 MYRTLEWOOD FIELD OFFICE

SALE DATE: April 25, 2025
 SALE TIME: 10:00 a.m.

SALE NO.: ORC04-TS-2025.0030, FRENCHIE BELIEUS

**LUMP SUM SET ASIDE
 BLM 2A-150 GATE KEY NEEDED**

COOS COUNTY: OREGON: O&C :

ORAL AUCTION: Bid deposit required: \$140,800.00

All timber designated for cutting on: T. 29 S., R. 10 W., Sec. 20, W1/2, and T. 29 S., R. 11 W., Sec. 25, L15, Will. Mer.

Approx. No. Merch. Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Vol. Times Appraised Price
7,204	4,443.0	Douglas-fir	5,490.0	\$251.30	\$1,379,637.00
1,214	203.0	western hemlock	265.0	\$61.60	\$16,324.00
1,103	41.0	Misc. hardwoods	59.0	\$22.40*	\$1,321.60
48	47.0	grand fir	56.0	\$118.10	\$6,613.60
145	32.0	Port-Orford cedar	41.0	\$38.50*	\$1,578.50
257	17.0	red alder	24.0	\$66.50	\$1,596.00
9,971	4,783.0	Total	5,935.0		\$1,407,070.70

* = Minimum Stumpage Values were used to compute the Appraised Price/MBF (10% of Pond Value)

Product	Unit of Measure	Estimated Number of Units	Appraised Price Per Green Ton	Estimated Volume Times Appraised Price
Biomass	Green Tons	40.0	\$0.05	\$2.00

Total Appraised Value:	\$1,407,072.70
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THIS TIMBER SALE HAS BEEN CRUISED, APPRAISED, AND ADVERTISED BASED UPON SCRIBNER BOARD FOOT MEASURE (16 FOOT LOG). THE MINIMUM BID FIGURES SHOWN BY SPECIES ARE DOLLARS PER THOUSAND BOARD FEET (MBF). THE MINIMUM INCREMENT WILL BE \$0.50 PER MBF. SCRIBNER BOARD FOOT VOLUMES (32 FOOT LOG) BY SPECIES ARE DISPLAYED FOR INFORMATIONAL PURPOSES.

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

LOG EXPORT AND SUBSTITUTION RESTRICTIONS: 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.

CRUISE INFORMATION: With respect to merchantable trees of all species in all cruise strata: the quadratic mean DBH is twenty point seven inches (20.7''): the average gross merchantable log contains one hundred twenty-four (124) bd. ft.; the total gross volume is approximately six thousand three hundred twenty-nine (6,329) bd. ft.; and ninety-four percent (94%) recovery is expected. The quadratic mean DBH for Douglas-fir is twenty-two-point seven (22.7'') inches; and the average gross merchantable log contains one hundred thirty-three (133) bd. ft.; and ninety-six (96%) recovery is expected. None of the total sale volume is salvage material. The following cruise methods were used for volume determination:

VARIABLE PLOT: Timber volumes in all harvest units were based on a variable plot cruise. Using a twenty (20) Basal Area Factor (BAF), two hundred thirty-two (232) plots were measured, and one hundred eighty-nine (189) trees were randomly selected to be sampled. The sample trees have been cruised and their volumes computed using form class tables for estimating board foot volumes of trees in sixteen (16') foot logs. The volumes are then expanded to a total sale volume.

100% CRUISE: Volumes for all species were based on a one hundred percent (100%) cruise in the right-of-ways and landing locations, using form class tables for estimating board foot volume of trees in sixteen (16') foot logs.

CUTTING AREA: Four (4) units totaling one hundred thirty-two (132) acres must be regeneration harvested and one (1) acre of right-of-way. Acres shown on Exhibit A have been computed using the S1 Mobile Mapping application.

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

DIRECTIONS TO SALE AREA: From Bridge, OR., travel east on Hwy 42 about 5.5 miles, turn left onto Sandy Creek Road, proceed about 4 miles, turn left onto the 29-10-14.2 road, proceed about 2 miles, turn left onto the 29-10-9.2 road, proceed to yellow gate. A BLM 2A-150 key is needed for the lock on the gate. After gate follow signs to units.

ROAD USE & MAINTENANCE: Refer to Exhibit E Summary attached. Operator maintenance required on 8.57 miles of road.

Rockwear and Maintenance Fees Payable to BLM: \$16,351.30

Road Use Fees Payable to Chinook Silva, LLC : \$0.00

Place rock in lieu of Rockwear and Maintenance Fee Payable to Chinook Silva, LLC

BUYOUT SECURITIES (OPTIONAL CONTRIBUTION): Purchaser will have the option of performing pile burning or contributing \$4,335.09 in lieu thereof. The option must be declared prior to contract execution. Piling and covering are not included in the Optional Contribution and will remain the responsibility of the purchaser. 44.F.(8)

ROAD CONSTRUCTION:

Road Construction estimates include the following:

New Construction:

13.75 stations

Road Renovation:

434.01 stations

Road Improvement:

4.50 stations

Aggregate:

Base/Landing Rock, 6" minus hardrock:	<u>478 C.Y. (Truck Measure)</u>
Base/Landing Rock, 3" minus hardrock:	<u>93 C.Y. (Truck Measure)</u>
Surfacing/Spot Rock, 1 ½" minus hardrock:	<u>1,626 C.Y. (Truck Measure)</u>
Culvert Rock, 1 ½" minus hardrock:	<u>20 C.Y. (Truck Measure)</u>
Riprap:	<u>40 C.Y. (Truck Measure)</u>
Maintenance Rock, 1 ½" minus hardrock:	<u>460 C.Y. (Truck Measure)</u>

Drainage:

18" Corrugated Polyethylene Pipe:	<u>76 Lineal Feet</u>
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Soil Stabilization:

Dry Seed, fertilizer, & mulch:	<u>5.3 acres (Pre-Haul)</u>
Dry Seed, fertilizer, & mulch:	<u>2.1 acres (Post Haul)</u>

Roadside Brushing:

19.0 acres

Road Decommissioning:

Earthen Barriers:	<u>2</u>
Steel Gate Barrier:	<u>1</u>

DURATION OF CONTRACT: 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 branding and painting, optional scale check of lump sum sales, SBA, Buyout Securities, vehicle cleaning, and snag creation.

PROVISIONS UNIQUE TO THIS TIMBER SALE: This list is not comprehensive. Please review the entire contract.

1. A license agreement is required with Chinook Silva, LLC, 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. Seasonal Timing Restriction (MM) apply within Unit 4 as shown on Exhibit A and on the 29-10-19.0, 29-11-25.0, and 29-11-25.2 roads: chainsaw operations, falling, yarding, heavy equipment, timber haul, and all road work are prohibited in the period between April 1 and August 5. In addition, a daily timing restriction confines operations to the period from two (2) hours after sunrise to two (2) hours before sunset between August 6 and September 15 of the same calendar year, both days inclusive.
4. 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.
5. Within one (1) year following the completion of yarding operations, create 133 snags as shown on the Exhibit I and as directed by the Authorized Officer.
6. One hundred and thirty-two (132) acres of slash, lop, and scatter and an estimated forty (40) acres of hand piling will be required of the purchaser.

COOS BAY SALE NO. ORC04-TS-2025.0030
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Seasonal Restriction Matrix ORC04-TS-2025.0030 FRENCHIE BELIEUS Timber Sale Prospectus

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

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
General All Units	Falling and bucking ²																								
	Cable yarding ²																								
	Road Construction, Renovation, or Improvement Work ¹																								
	Hauling ¹																								
	Hauling on approved rocked roads ⁴																								
	Ground based yarding ³													25 %											
Unit 4	Falling, bucking, cable yarding, ground-based yarding, road construction, renovation and hauling ¹																								
Unit 4	Seasonal Restriction Area (MM) ⁵															5 th									

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 In the Seasonal Restriction Area (MM) within Unit 4 as shown on Exhibit A and on the 29-10-19.0, 29-11-25.0, and 29-11-25.2 roads: chainsaw operations, falling, yarding, heavy equipment operation, timber haul, and all road work are prohibited in the period between April 1 and August 5. In addition, a daily timing restriction confines operations to the period from two hours after sunrise to two hours before sunset between August 6 and September 15 of the same calendar year, both days inclusive.

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 Units, shown on Exhibit A;
- c. 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;
- d. 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;
- e. All Bearing Trees with metal tags that mark property corners.

Sec 44. SPECIAL PROVISIONS. Purchaser shall comply with the special provisions which are attached hereto and made 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 or more days.
 - (3) 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.
 - (4) Seasonal Timing Restriction Areas Marbled Murrelet (MM) apply within Unit 4 as shown on Exhibit A and on the 29-10-19.0, 29-11-25.0, and 29-11-25.2 roads: chainsaw operations, falling, yarding, heavy equipment, timber haul, and all road work are prohibited in the period between April 1 and August 5. In addition, a daily timing restriction confines operations to

the period from two (2) hours after sunrise to two (2) hours before sunset between August 6 and September 15 of the same calendar year, both days inclusive.

- (5) In the Harvest Units, yarding (except for road right-of-way and ground-based yarding areas, shown on Exhibit A) shall be done with a skyline cable system according to the following:
- (a) The skyline cable system shall be capable of being rigged in a multi-span configuration utilizing a carriage capable of yarding seventy-five (75) feet laterally from the skyline. Skyline roads shall not be spaced closer than one hundred fifty (150) feet apart, unless approved by the Authorized Officer.
 - (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) Where road locations allow, yarding will be done so that corridors run parallel to each other rather than radiate from a central landing.
- (6) In the Ground-Based Yarding Areas, shown on Exhibit A and within road rights-of-way, 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 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 as measured between reserve trees.

- (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 thirty-five 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.
- (7) Sec. 44.a.(11,12) shall be the primary method for the identification, cutting, and removal of additional timber required for skyline corridors, yarding trails, and guy-line trees. Sec. 44.a.(11,12) may be used at the discretion of the Authorized Officer. The Purchaser shall be notified in writing when Sec. 44.a.(11,12) is authorized for use.
- (8) Before cutting and removing any reserve tree necessary to facilitate logging in the Harvest Units the Purchaser shall identify the location of the cable yarding roads, tail hold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following condition must be met:
- (a) All cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of each yarding road shall be limited to twelve (12) feet.
 - (b) The Purchaser may immediately cut and remove additional timber to provide tail hold, tieback, guyline, lift, and intermediate support trees; and clear danger trees when the trees have been marked with blue paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under this provision unless sufficient installment payments have been made in accordance with Sec.3.(b) of the contract or sufficient bonding has been provided in accordance with Sec. 3.(f) of the contract.
 - (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that any tree

- that exceeds twenty-four (24”) inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current market value in accordance with Sec. 8 of the contract.
- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Sec. 10 of the contract constitutes a violation of the contract and under Sec. 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
 - (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least two (2) days working days prior to the need for cutting and removing any additional timber and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary.
 - (f) The Government may reserve trees previously designated for cutting and removal by applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription. This may include the replacement of trees damaged by storm events, or insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.
- (9) In accordance with the requirements of Sec. 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the contract area which, is obstructing needed cable yarding roads, hazardous to workers, needed for guyline, tail hold, and/or tieback trees to meet all applicable State safety laws, codes or regulations. This timber must be cut and removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Sec. 8 of the contract: provided, however, that:
- (a) Seed trees, bearing trees, trees larger than twenty-four (24”) inches at breast height, and trees located within the Reserve Areas are not included in this authorization;
 - (b) The Purchaser shall identify each tree sold and cut in accordance with this provision by marking the surface of the stump immediately after cutting with a large “X”, cut with a chainsaw, and by painting the stump with florescent red paint so that the

stump can be visually located from a distance of not less than one hundred (100') feet;

- (c) Concurrently with falling, paint the end of the butt log of each tree with florescent red paint. When butt logs are yarded, deck separately for inspection by Authorized Officer;
- (d) The Purchaser conforms to all requirements of Sec. 8 of this contract; provided that (1) the unit prices for additional timber within unit boundaries shall be unit prices shown in Exhibit B of this contract, or the reappraised unit prices arrived at in accordance with Sec. 9 of this contract, and (2) timber outside of unit boundaries shall be sold at fair market value;
- (e) No timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3(b) or 3.(f) have not been made; and,
- (f) Permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
 - 1. Fails to properly mark any stump with the "X" cut and florescent red paint.
 - 2. Fails to properly mark any butt log with florescent red paint.
 - 3. Cuts any tree that was reserved for tree improvement and/or wildlife habitat.
 - 4. Cuts any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
 - 5. Cuts any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground-based yarding.
 - 6. Fails to properly segregate any pulled over tree that was yarded to the landing.
 - 7. Cuts any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
 - 8. Cuts more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
 - 9. Cuts or topped more than the minimum number of trees necessary to properly serve as tail hold trees.
 - 10. Cuts more than the minimum number of trees necessary to properly serve as tie-back for topped tail hold trees.

Failure to perform any of the conditions listed above may be considered a trespass.

If the permission to cut and remove additional timber provision is withdrawn, the Authorized Officer shall deliver to the Purchaser a written notice that the additional sale of timber under this special provision is no longer approved.

If the permission to cut and remove additional timber provision is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least two (2) working days prior to the need for cutting and removing additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or 9 of the contract as determined by the Authorized Officer in

accordance with this provision. The Authorized Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary.

All cable-yarding and/or ground-based equipment yarding trails upon which timber may be cut and removed in accordance with this special provision must be needed for the removal of timber sold under this contract and shall be limited to the narrowest width necessary for the yarding of logs with minimum damage to reserved trees. The Purchaser shall be liable for damages in accordance with Sec. 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

- (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. 29-10-29.0 (Frenchie Creek Road), where they pass through the contract area, clear of trees, rock, dirt, and other debris so far as practicable. These roads 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.
- (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 one hundred fifty (150') feet away from streams and other water bodies. Refuel small equipment at least one hundred (100') feet from waterbodies to prevent direct delivery of contaminants into a waterbody. Refuel small equipment from no more than five (5) gallon containers. A small spill kit is required to be on-site during operations. In the event of a spill or release, take all reasonable and safe actions to contain the material. Specific actions are dependent on the nature of the material spilled. If more than forty-two (42) gallons of fuel or combined quantity of petroleum product and chemical substances would be transported to a project site as project materials, a spill kit that can absorb and contain fifty-five (55) gallons of petroleum product and chemical substances

shall be readily available. Purchaser shall be responsible for the clean-up, removal, and proper disposal of contaminated materials from the site in accordance with Section 28 of the contract.

(16) Seasonal and daily timing restrictions shall be applied in Unit 4 to any use of tailhold, guyline, or lift trees within a murrelet occupied site. Selection of tailhold trees would be subject to the following specifications:

- (a) Select the smallest acceptable tree.
- (b) As operationally feasible, avoid trees that:
 - 1. Have a DBH >34" inches
 - 2. Have visible nests, or nesting structures (e.g. platforms, large limbs, and cavities.)
 - 3. Are the only large conifer present in a visible area.
- (c) If the tailhold tree(s) would remain standing, prevent damage by using appropriate protection (i.e. tree plates, tires, or nylon straps) where possible to avoid girdling of the tree. Girdling or notching should not exceed sixty percent (60%) of the tree circumference.

(17) Whole tree yarding shall be required for all species within the harvest units whenever possible.

b. Log Branding and Painting:

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.

c. Snag Creation:

(1) The Purchaser shall, within one (1) year following the completion of yarding operations, create one hundred thirty-three (133) snags total. Forty-four (44) shall be created between 10-20" inches in diameter and eighty-nine (89) shall be created greater than twenty (20") inches in diameter, if sufficient trees are available in the size class specified, use trees from the next largest

size class available, as directed by the Authorized Officer and in accordance with Exhibit I the following stipulations:

- (a) The Purchaser shall create one hundred thirty-three (133) snags in the Harvest Units, 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 ($3\frac{1}{2}$) feet above the root collar, girdling will consist of severing the cambial tissue at least $\frac{3}{4}$ of the circumference around the bole of the tree, without cutting into the sapwood more than one and one-half ($1\frac{1}{2}$) 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.
- (c) The Purchaser shall not girdle trees for snag creation within one hundred (100') feet (minimum slope distance) of any open or unblocked roads, unless approved by the Authorized Officer.

d. 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.

e. Road Use and Maintenance

- (1) The Purchaser shall be required to secure written approval to use or haul equipment over Government owned or controlled structures when that equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.
- (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 maintenance and rockwear obligation totaling sixteen thousand three hundred fifty-one and 30/100 dollars (\$16,351.30) shown on Exhibit E. Unless the total maintenance and rockwear fees due BLM are paid prior to commencement of operations on the contract area, payments shall be made in installments payable in the same manner as and together with payments required in Sec 3 of this contract. Timber volume added by modification will be assessed at a rate of two and 76/100 dollars per MBF (\$2.76/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 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.(1,2,3) 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 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 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.(1,2,3). 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 five hundred dollars (\$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 Reciprocal Right-of-Way Agreements between the United States and Chinook Silva LLC, RWA-C-48. The Purchaser shall pay a road use fee of \$0.00, and place rock in lieu of a rockwear and maintenance fee to Chinook Silva LLC, pursuant to RWA-C-48. The agreements are available for inspection at the Bureau of Land Management, Coos Bay, Oregon. A performance bond in the amount of ten thousand dollars (\$10,000.00) and comprehensive liability insurance will be required by 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 Reciprocal Right-of-Way Agreements. Default by the Purchaser of said Reciprocal Right-of-Way Agreements, of any License Agreements executed pursuant thereto, for failure to pay appropriate road use fees or road maintenance fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision. Road maintenance fees may change during the course of the contract as determined by the Licensor. It is the responsibility of the Purchaser to pay fees current at time of haul.

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.

f. Fire Prevention, Hazard Reduction and Logging Residue Reduction

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

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

(2) Logging Residue Reduction. Primarily for hazardous fuel reduction, watershed protection and silvicultural purposes, the Purchaser shall comply with the following provisions:

- a. 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.
- b. In addition to the requirements of Section 15 of this contract, the Purchaser shall be responsible for logging residue reduction at all landing sites in the sale area as shown on the Exhibit A.
- c. In lieu of burning, the Purchaser may remove landing residue for off-site utilization. If the utilization method is selected, the Purchaser shall provide information on the total tonnage of landing residue being removed from the sale in accordance with the Exhibit B.
- d. Prior to commencement of landing residue removal, the Purchaser shall provide advanced notification to the Authorized Officer to arrange for on-site inspections of the removal operations. Upon completion of landing residue removal, the Purchaser shall notify the Authorized Officer to arrange for a final inspection of the landing sites.

(3) Specifications for Landing Piling

- a. At all landing sites within the sale area, the Purchaser shall either (1) remove from the site for offsite utilization or (2) pile for burning, all logging residue that is presently on and around the immediate vicinity of the landing site.
- b. Any logs or useable residue identified in the contract as reserved shall remain the property of the Government and may not be shipped for offsite utilization.
- c. Unless approved in advance by the Authorized Officer, landing piling shall be completed at each yarding location (setting) at the conclusion of yarding operations at that setting while logging equipment is on site.
- d. Unless directed or approved by the Authorized Officer, no landing piles shall be constructed within twenty feet of any reserved green trees, snags, marked wildlife trees, corrugated plastic pipes (CPP's) or other constructed feature or improvement

that could be damaged by fire. No landing piles shall be constructed within 50 feet of property lines, or under powerlines.

- e. Logging residue within the immediate vicinity of the landing and any residue that overhangs the landing sites that can be reached with the logging equipment on site shall be pulled completely back up onto the landing surface and either piled for burning or segregated for other uses.
- f. Logging residue larger than eight (8") inches diameter at the large end and longer than eight (8') feet shall not be piled for burning but shall be segregated into separate piles that are no closer than twenty feet from residue piles that will be burned.
- g. If during the course of pile construction or during a final acceptance inspection, the Authorized Officer determines that landing piles contain excessive amounts of logging residue that is larger than eight (8") inches diameter at the large end and longer than eight (8') feet the purchaser may be required to remove the specified residue from the burn piles.
- h. Root wads from road and landing construction activities shall not be included in the landing piles. Piling of slash on top of root wad piles is not permitted. Any root wad piles found by the Authorized Officer to be capped by slash will require the removal and re-piling of the slash by the Purchaser.
- i. 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.
- j. During or after pile construction, landing piles shall be shaped and contoured in such a manner that will allow for polyethylene sheeting (PE) to lay in a smooth and uniform manner completely across the top and partially down the sides of the pile to promote shedding of water, prevent pooling of water and to reduce the possibility of PE being ripped or torn by underlying slash or from wind. Landing piles found by the Authorized Officer not meeting this shaping requirement shall be reconstructed or reshaped by the Purchaser.
- k. The Purchaser shall request an inspection of landing piles before equipment used in piling is moved off site. If piling equipment is moved off site before inspection and the piles are subsequently found to be noncompliant with the specifications and require a re-work, the Purchaser shall be responsible for costs associated with move-in of piling equipment to rework piles. Unless approved by the Authorized Officer, all requests for inspection of landing piling shall be made in writing (email is acceptable) at least ten days in advance of planned equipment removal.

(4) 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 to each year that the timber sale is active.
- b. The Purchaser shall place polyethylene sheeting (PE), minimum four MIL thickness over the pile to provide an adequate level of protection from fall/winter rains. PE sheeting shall lie uniformly and as smoothly as possible across the top of the pile and

shall extend partially down the sides. For small properly constructed piles with base dimensions of approximately 10 ft. x 10 ft. or less, the size of the PE sheeting should be a minimum of one hundred (100 square feet).

- c. To meet ignition and combustion needs, larger piles will require additional PE sheeting to adequately cover the pile and protect it from wetting fall/winter rains. The Purchaser shall contact the Authorized Officer before any pile covering begins to receive specific direction on which piles will require additional covering. At that time, the Authorized Officer will identify all piles that shall have additional PE covering. If piles are covered without the advice and consent of the Authorized Officer and are subsequently found to be inadequately covered, the Purchaser may be required to re-cover or add additional covering to the piles before acceptance is made.
- d. At landing sites with excessive logging residue that overhangs the landing which cannot be reached and pulled back up onto the landing with equipment on site, the Purchaser shall place additional PE sheeting over the residue concentrations below the landings.
- e. On roads that have been closed and/or decommissioned, decks of Purchaser owned logs that were not shipped by the Purchaser shall be covered with PE for burning. The Authorized Officer may waive this requirement if future utilization is determined to be feasible. Decks of reserved logs belonging to the Government are exempt from this requirement.
- 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 should be placed on top of the pile but no more than 20 percent of the material to be piled may be placed on top of the PE.
- 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.

(5) Specifications for Machine Piling

- a. Machine pile construction and covering: Ground based harvest areas will require piling and burning to prepare the site for planting. All tops, broken pieces, limbs and debris between two (2") and nine (9") inches in diameter and longer than three (3') feet in length will be piled. Piles will be kept free of dirt and located at least twenty (20') feet from any reserve tree or snag and as far as possible from culverts and unit boundaries. In areas with low slash loads, in lieu of piling, slash shall be scattered so that it does not exceed twelve (12") inches in depth and is discontinuous enough to provide clear planting spots at ten (10') foot spacing.
 - i. Material exceeding the diameter limits specified may be left un-piled; however, attached limbs and tops falling within the diameter limits shall be cut off and piled. Material sixteen (16") inches in diameter or larger (measured on the large end) shall not be piled.
 - ii. Piles shall be constructed as upright as possible and have a solid base to prevent toppling. Piles shall be no smaller than eight (8') feet in diameter and six (6') feet in height.

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

(6) Specifications Applicable to Landing & Machine 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 supervision of the Authorized Officer or his/her designated representative, assist in burning and fire control, at the Purchaser's expense, provide the services of personnel and equipment as follows:
 - i. The Purchaser shall begin pile burning within fourteen (14) hours of notification by the Authorized Officer.
 - ii. The Purchaser shall dispose of removed polyethylene sheeting in accordance with any applicable Federal, State, and municipal laws. Removed polyethylene sheeting shall not be disposed of in burn piles
 - iii. All personnel directly involved in burning operations must have a current qualification card for FFT2 or higher. All qualifications are defined according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1. Qualifications and equipment levels are the minimum and may exceed those stated above. All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project area with the following personal safety equipment: lug-soled leather boots with minimum eight (8) inch uppers that provide ankle support; an approved hardhat; leather gloves; long pants and a long sleeve shirt made of approved aramid fabric (Nomex or equivalent); and an approved fire shelter.
 - iv. For each entry, the Purchaser may provide more personnel, equipment and materials than indicated but no less than the minimum requirements below unless approved in advance by the Authorized Officer. Minimum personnel, equipment and materials requirements for burning landing piles are:
 - 1. One (1) English-speaking foreman for crew supervision.
 - 2. five (5) people to assist the foreman in pile burning.
 - 3. six (6) drip torches and sufficient mixed fuel to complete all pile burning.
 - v. A minimum of eighty percent (80%) consumption of each pile is required. Stoking of piled material around pile edges may be required to meet the 80% consumption requirement. Stoking can be accomplished by hand, or the

Purchaser will be allowed to use heavy equipment (if onsite) to facilitate stoking or re-piling of residue during pile burn operations. If used, the heavy equipment shall not be allowed to operate off of all-weather road surfaces.

- vi. No mop-up is required of the Purchaser.
- vii. 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.

(7) Specifications for Slashing, Lopping and Scattering (SLS)

- a. In accordance with oral, email or written instructions to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or their designated representative, assist in site preparation of the SLS treatment areas. The Purchaser, at their own expense, shall provide the services of personnel and equipment as follows:
 - i. The required work shall consist of post-harvest slashing, lopping, scattering and piling of residual vegetation (brush and damaged trees) and logging residue. Multiple entries over the life of the contract may be required to meet critical silvicultural objectives. This work shall comply with the following:
 - 1. All brush species one foot or greater in height, damaged conifer reproduction and hardwoods, and hardwoods not marked or otherwise identified for retention, shall be completely severed from the stumps. Brush species consist of shrubs with single or multiple stems originating at or near ground level and not normally reaching twenty feet in height. Examples include (but are not limited to) vine maple, salmonberry, hazel, huckleberry, thimbleberry, manzanita, ocean spray, ceanothus species, broom species, blackberry species and rhododendron.
 - 2. Stump heights shall not exceed four inches measured on the uphill side.
 - 3. No live limbs will be left on stumps.
 - 4. Slashed hardwoods shall be bucked every four (4') feet, and the limbs will be completely severed from the bole of the cut hardwood.
 - 5. Except for felled or existing down trees identified by the Authorized Officer as coarse wood, conifers (including blowdown) and hardwoods felled but not yarded during harvest operations shall be bucked sufficiently to bring the bole down to the ground. All limbs will be severed from the bole of the trees.
 - 6. All slashed vegetation and logging debris (brush, limbs and boles) shall be sufficiently cut and scattered or piled in such a manner that will reduce the average slash depth in any given location to no more than twelve inches (1' foot).
 - 7. All slash, lop, scatter, and pile work must be completed by October 15 for all areas where logging was completed on August 1 of each year.

- 8. Areas determined by authorized officer to have high fuel loading that would restrict the planting of trees will require hand piling. The intent is not to burn these piles but to create planting space. This hand piling is estimated to be forty (40) acres for this sale and appraised below.
- ii. Time is of the essence in complying with these provisions. In the event the Purchaser fails to provide the personnel, equipment and materials required herein, the Purchaser shall be responsible for all additional costs incurred by the Government in disposing of slash including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment, materials and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of treatments and conditions necessitate additional site preparation work and/or the use of additional personnel and equipment to accomplish the planned treatments, the Purchaser also shall be responsible for such additional costs.

Treatment Type	Acres	\$/acre	Cost
Landing Pile Cover (all units)	128	\$5.79	\$741.12
Slash/Lop	132	\$366.07	\$48,321.24
Scatter	92	\$305.14	\$28,072.88
Machine Pile and Cover	4	\$498.52	\$1,994.08
Hand Pile Only	40	\$1,009.60	\$40,384.00
Appraised total cost	132		\$119,513.32

The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to Section 44.(f).7 differs from \$119,513.32, as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed above.

(8) Buyout Securities

- a. The Purchaser shall assist in burning as described in Section 44.f.(6). The Purchaser shall have the option of completing the work, or in lieu thereof, may make a buyout security deposit to the Bureau of Land Management in the amount of four thousand three hundred thirty-five and 09/100 dollars (\$4,335.09) and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this deposit prior to the date of the execution of this contract, and the Purchaser shall pay such amount in full prior to the commencement of operations.

	acres	\$/acre	cost
Landing Pile Burn (all units)	128	\$10.84	\$1,387.52

Machine Pile Burn	4	\$557.47	\$2,229.88
Appraised total cost for burning w/ 19.84 % admin fee	132	\$32.84	\$4,335.09

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 three thousand eight hundred fifty-two and 75/100 dollars (\$3,852.75). In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of three thousand eight hundred fifty-two and 75/100 dollars (\$3,852.75) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Eastside Scribner Scaling Rules by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

h. Small Business Administration (SBA) Set Aside

The purchaser agrees not to sell and/or exchange more than thirty percent (30%) 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

COOS BAY SALE NO. ORC04-TS-2025.0030

FRENCHIE BELIEUS

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 NOXIOUS 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.

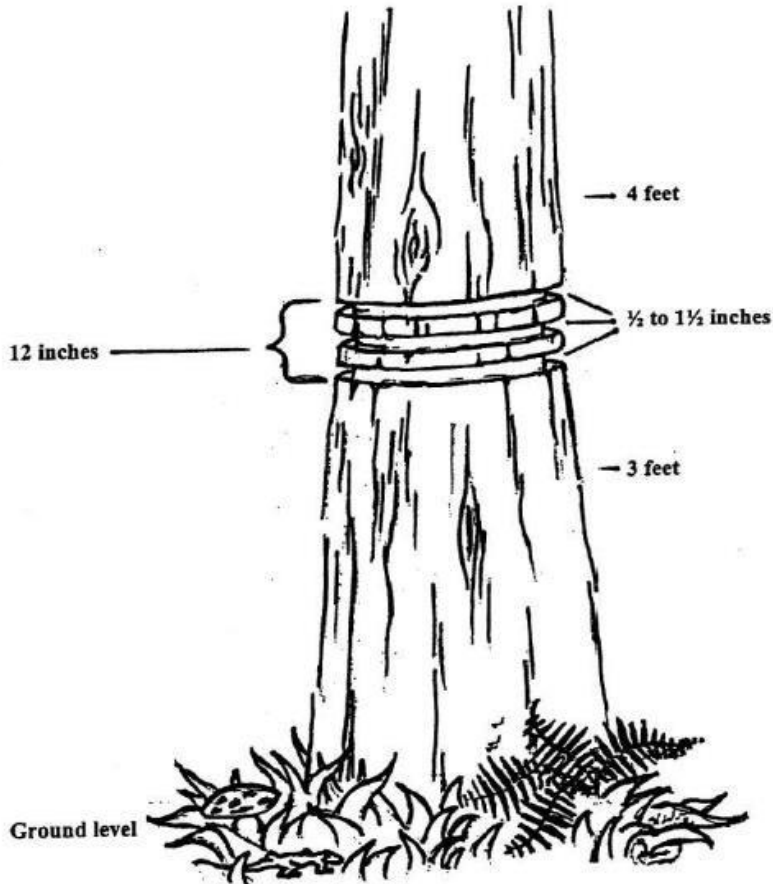
All construction, logging, and slash disposal equipment shall be cleaned prior to entering and exiting the contract area. The Authorized Officer will determine if log trucks and vehicles used for the transportation of personnel shall be cleaned, based upon the location of use immediately prior to the 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.

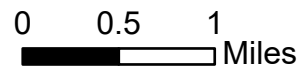
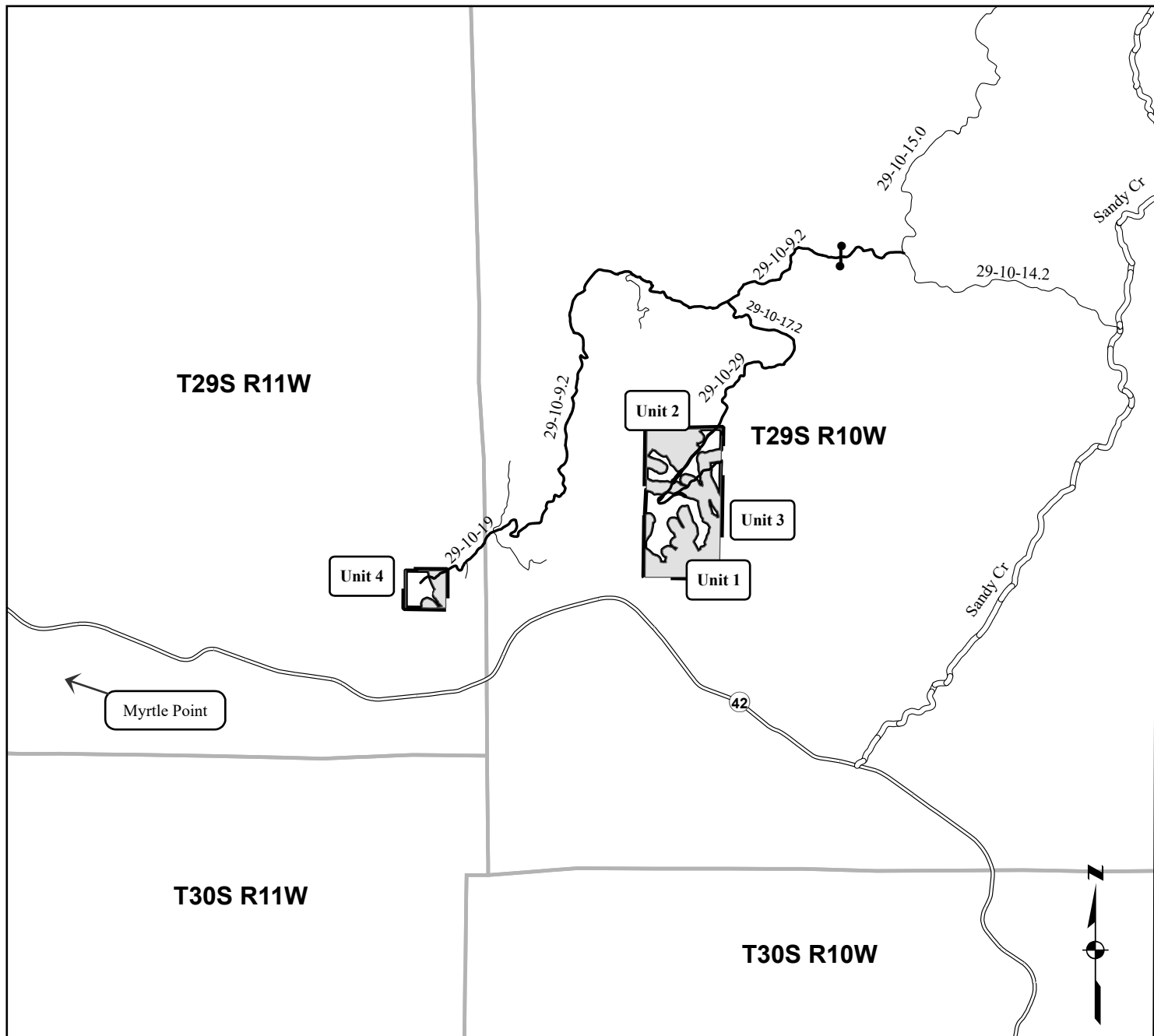
EXHIBIT I**SPECIFICATIONS FOR BASAL GIRDLING****GENERAL:**


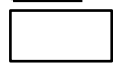

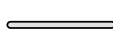

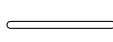


- (1) Cut around the tree. Each cut must connect or extend at least three-fourths ($\frac{3}{4}$) of the circumference, around the tree and penetrate through the cambium layer into the wood at least one half ($\frac{1}{2}$ ") inch, but not more than one and half ($1\frac{1}{2}$ ") inches. The distance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

Illustration 1- Basal Girdling

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



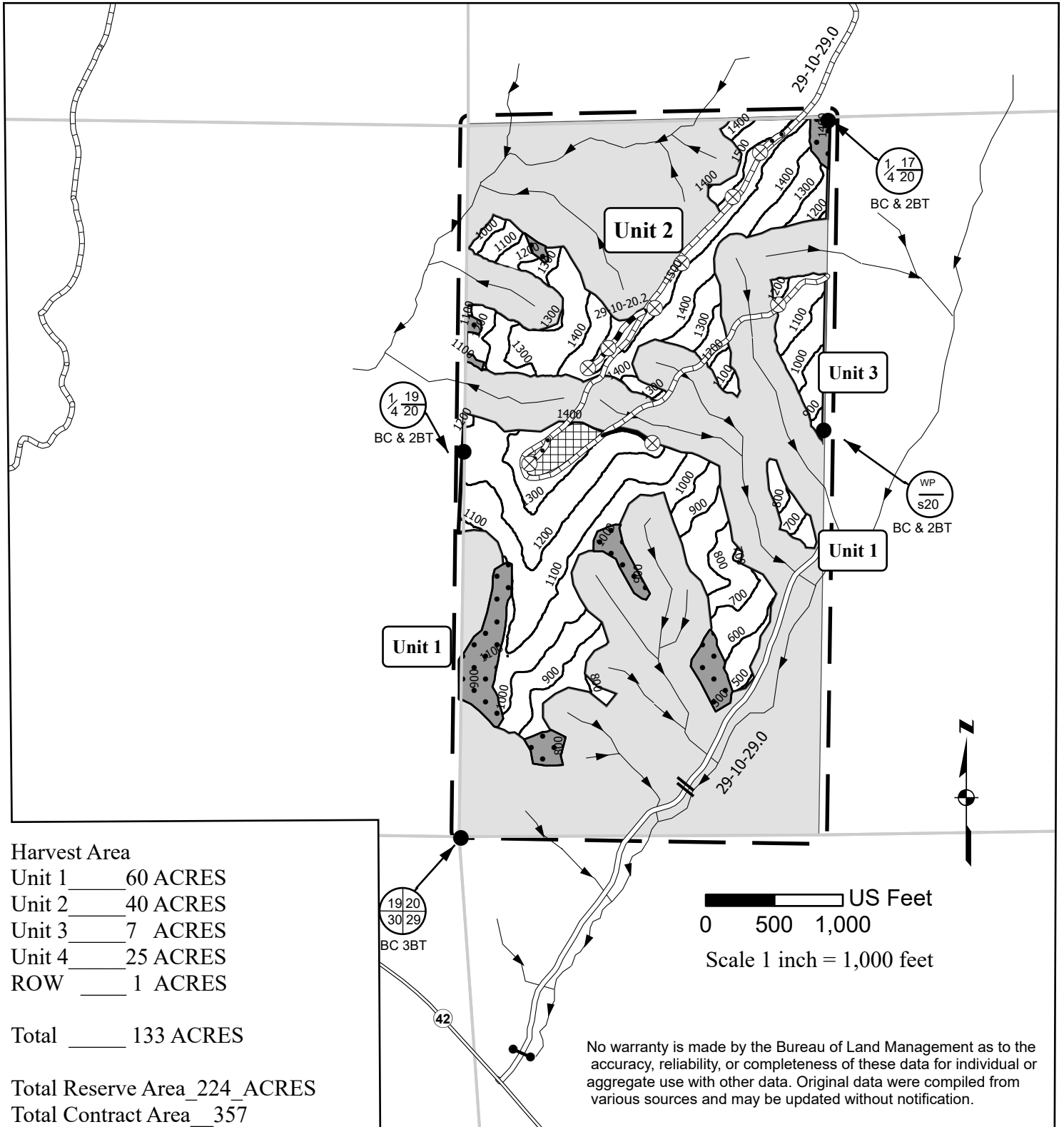


-  Boundary of Contract Area
-  Harvest Unit Boundary
-  Reserve Area
-  Highway
-  Haul Route
-  County Road
-  Existing Road
-  Gate

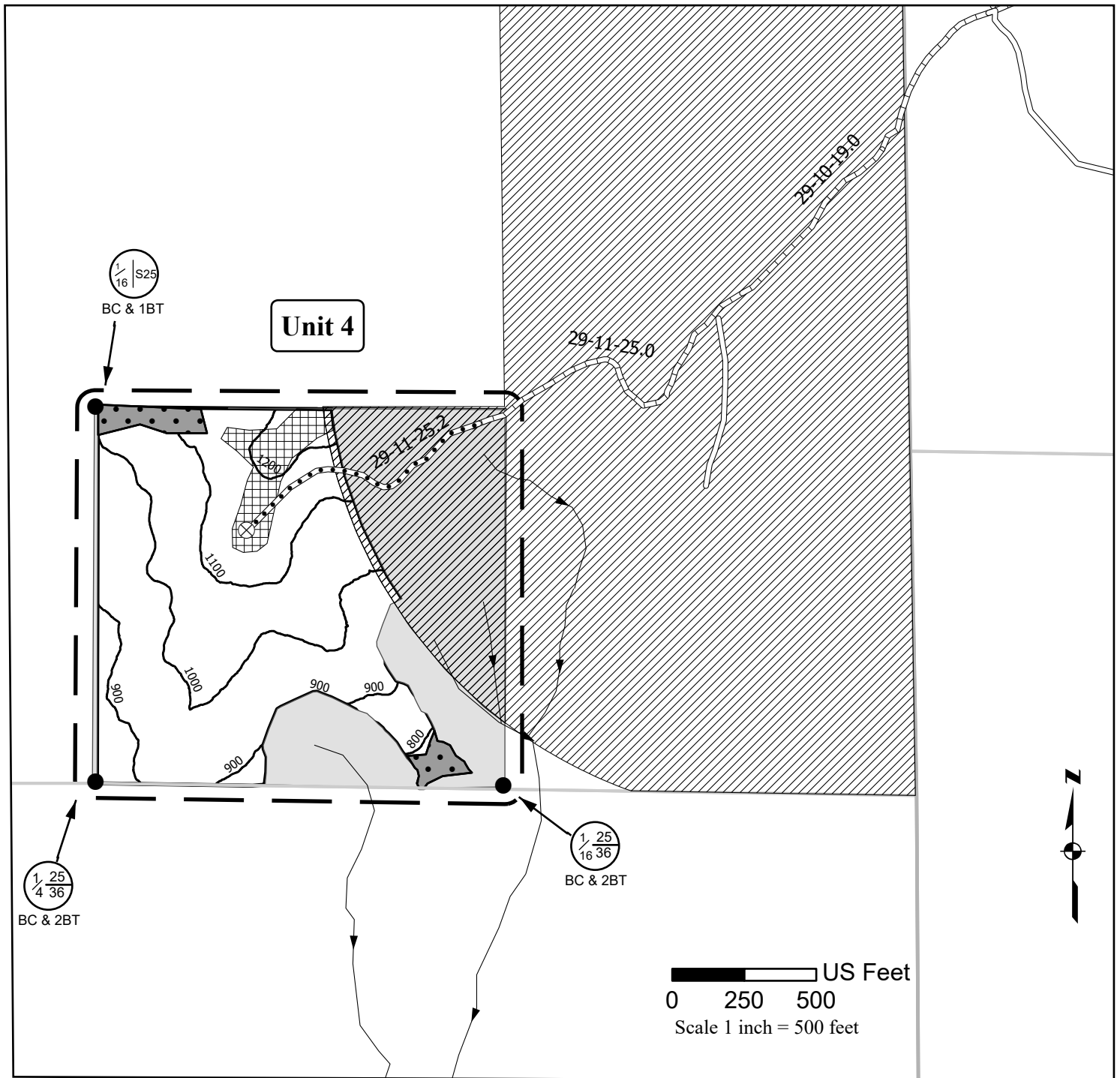
Harvest Area	
Unit 1	60 ACRES
Unit 2	40 ACRES
Unit 3	7 ACRES
Unit 4	25 ACRES
ROW	1 ACRES
Total	133 ACRES

Total Reserve Area 224 ACRES
 Total Contract Area 357

Scale 1 inch = 1 Mile



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



Harvest Area	
Unit 1	60 ACRES
Unit 2	40 ACRES
Unit 3	7 ACRES
Unit 4	25 ACRES
ROW	1 ACRES
Total 133 ACRES	
Total Reserve Area 224 ACRES	
Total Contract Area 357	

- Existing Road
- Road to be Constructed
- Road to be Improved
- Road to be Renovated
- Stream Channel
- 100' Contour
- Corner Found
- Proposed Landing
- Timing Restriction
- Ground-based Yarding Area (4 acres)
- Boundary of Contract Area
- Harvest Unit Boundary
- Reserve Area
- Reserve Area - Basal Area Retention

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

page 1
Contract No: ORC04-TS-2025.0030

Sale Name

Frenchie Belieus

EXHIBIT B

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	5490	MBF	\$251.30		\$1,379,637.00
Western hemlock	265	MBF	\$61.60		\$16,324.00
Port-Orford-cedar	41	MBF	\$38.50		\$1,578.50
Grand Fir	56	MBF	\$118.10		\$6,613.60
Misc Hardwoods	59	MBF	\$22.40		\$1,321.60
Red Alder	24	MBF	\$66.50		\$1,596.00
Totals	5935	MBF			\$1,407,070.70
Biomass	40	Green Tons	\$0.05		\$2.00
				Total	\$1,407,072.70

The apportionment of the total purchase price is as follows:

Approx. No. of Trees	UNIT NO. 1	EST. NET MBF VOL.			
3088	Douglas-fir	2348	\$251.30		\$590,052.40
549	Western hemlock	120	\$61.60		\$7,392.00
66	Port-Orford-cedar	19	\$38.50		\$731.50
21	Grand Fir	25	\$118.10		\$2,952.50
495	Misc Hardwoods	25	\$22.40		\$560.00
112	Red Alder	10	\$66.50		\$665.00
4331	TOTALS	2547			

60 Acres = \$10,039.22 /Ac.
Unit Total \$602,353.40

Approx. No. of Trees	UNIT NO. 2	EST. NET MBF VOL.			
2059	Douglas-fir	1565	\$251.30		\$393,284.50
366	Western hemlock	80	\$61.60		\$4,928.00
44	Port-Orford-cedar	12	\$38.50		\$462.00
14	Grand Fir	17	\$118.10		\$2,007.70
330	Misc Hardwoods	17	\$22.40		\$380.80
75	Red Alder	7	\$66.50		\$465.50
2888	TOTALS	1698			

40 Acres = \$10,038.21 /Ac.
Unit Total \$401,528.50

Approx. No. of Trees	UNIT NO. 3	EST. NET MBF VOL.			
360	Douglas-fir	274	\$251.30		\$68,856.20
64	Western hemlock	14	\$61.60		\$862.40
8	Port-Orford-cedar	2	\$38.50		\$77.00
3	Grand Fir	3	\$118.10		\$354.30
58	Misc Hardwoods	3	\$22.40		\$67.20
13	Red Alder	2	\$66.50		\$133.00
506	TOTALS	298			

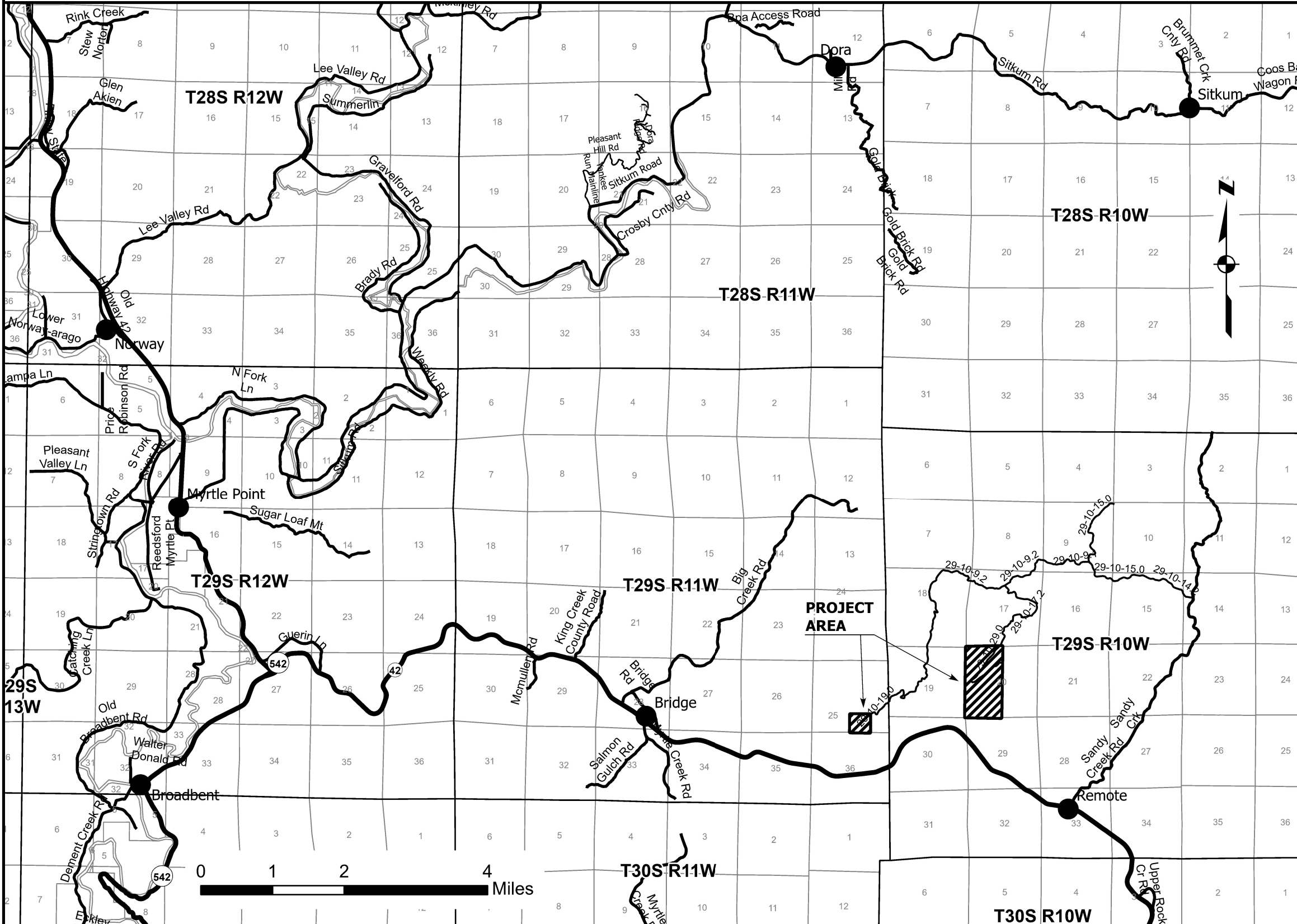
7 Acres = \$10,050.01 /Ac.
 Unit Total \$70,350.10

Approx. No. of Trees	UNIT NO. 4	EST. NET MBF VOL.			
1287	Douglas-fir	978	\$251.30		\$245,771.40
229	Western hemlock	50	\$61.60		\$3,080.00
27	Port-Orford-cedar	8	\$38.50		\$308.00
9	Grand Fir	10	\$118.10		\$1,181.00
206	Misc Hardwoods	10	\$22.40		\$224.00
47	Red Alder	4	\$66.50		\$266.00
1805	TOTALS	1060			

25 Acres = \$10,033.22 /Ac.
 Unit Total \$250,830.40

Approx. No. of Trees	UNIT NO. RW	EST. NET MBF VOL.			
410	Douglas-fir	325	\$251.30		\$81,672.50
6	Western hemlock	1	\$61.60		\$61.60
1	Grand Fir	1	\$38.50		\$38.50
14	Misc Hardwoods	4	\$22.40		\$89.60
10	Red Alder	1	\$66.50		\$66.50
441	TOTALS	332			

1 Acres = \$81,928.70 /Ac.
 Unit Total \$81,928.70



SHEET NO.	CONTENTS
1	TITLE SHEET
2	WORK LOCATION OVERVIEW
3-4	WORK LOCATION MAPS
5-6	TYPICAL CROSS SECTION DETAILS
7-8	ESTIMATE OF QUANTITY
9	CULVERT INSTALLATION DETAILS
10	ROADSIDE BRUSHING DETAIL
11-12	CONSTRUCTION PLANS
13-15	SPECIAL PROVISIONS
16-25	ROAD WORKLIST
26-29	CONSTRUCTION DETAILS
30-70	TIMBER SALE ROAD SPECIFICATIONS

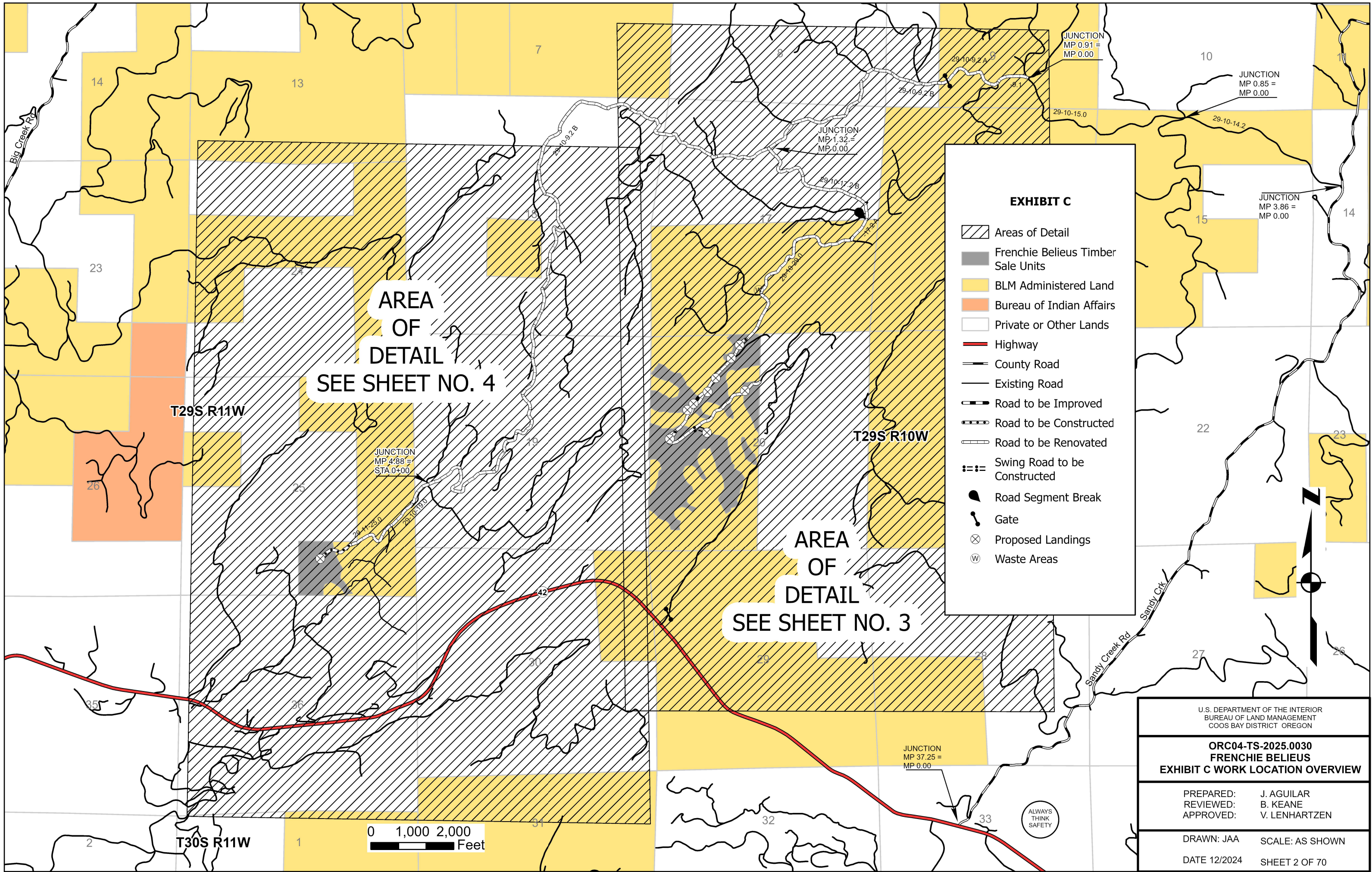
U.S. DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT
 COOS BAY DISTRICT OREGON

TITLE SHEET

PREPARED: J. AGUILAR
 REVIEWED: B. KEANE
 APPROVED: V. LENHARTZEN

DRAWN: JAA SCALE: AS SHOWN
 DATE 12/2024 SHEET 1 OF 70





AREA OF
DETAIL
SEE SHEET NO. 4

AREA OF
DETAIL
SEE SHEET NO. 3

T29S R11W

T29S R10W

T30S R11W

JUNCTION
MP 0.91 =
MP 0.00

JUNCTION
MP 0.85 =
MP 0.00

JUNCTION
MP 1.32 =
MP 0.00

JUNCTION
MP 3.86 =
MP 0.00

JUNCTION
MP 4.88 =
STA 0+00

JUNCTION
MP 37.25 =
MP 0.00

Big Creek Rd

Sandy Creek Rd
Sandy Crk

14

13

7

10

23

24

16

17

15

14

26

25

19

26

22

23

35

36

30

29

28

27

26

2

1

34

32

33

29-10-9.2.B

29-10-9.2.A

29-10-15.0

29-10-14.2

29-10-17.2.B

29-10-20.0

29-11-25.0

29-10-19.0

42



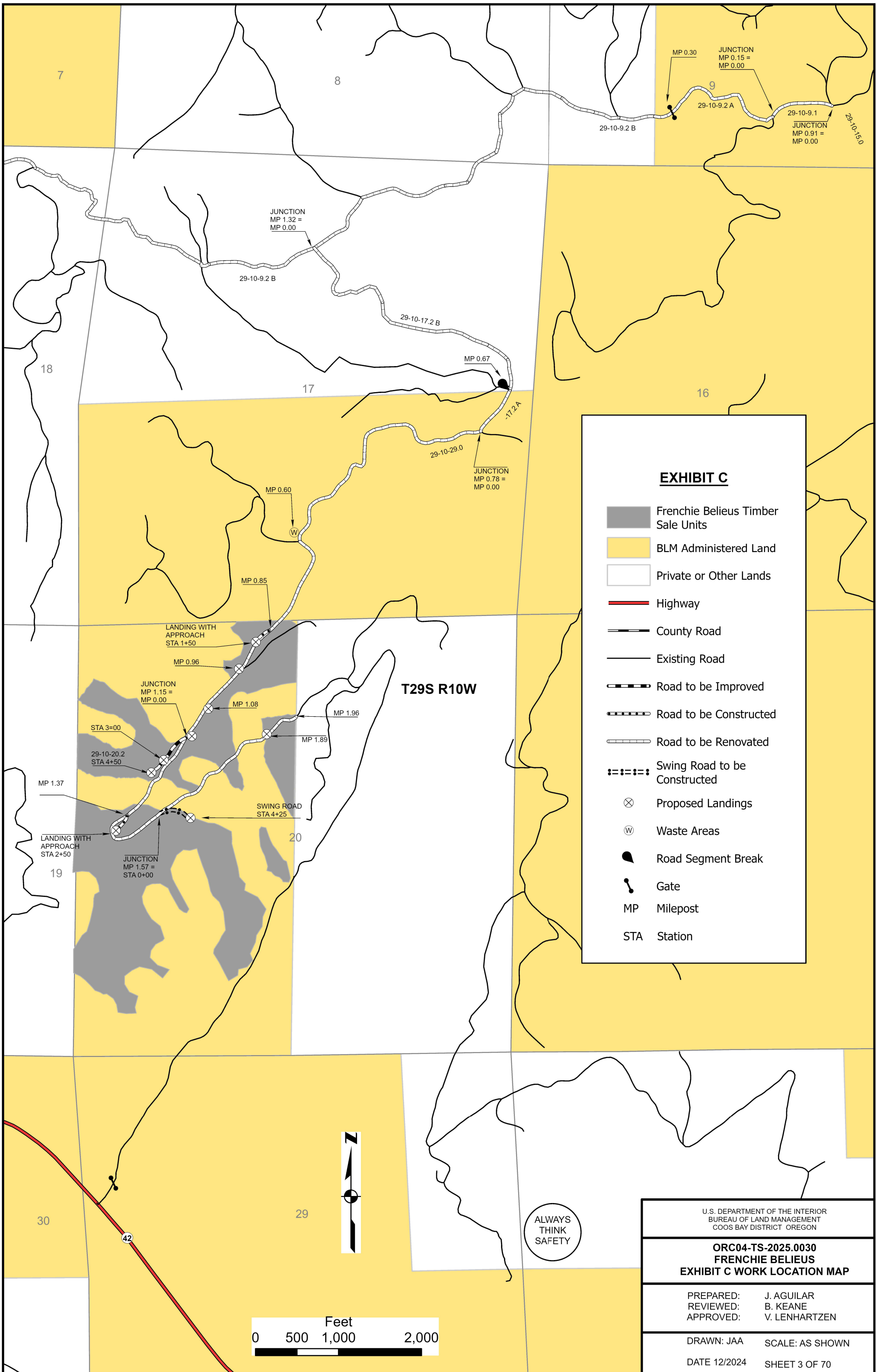
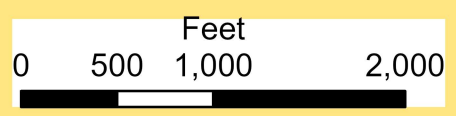


EXHIBIT C

- Frenchie Belieus Timber Sale Units
- BLM Administered Land
- Private or Other Lands
- Highway
- County Road
- Existing Road
- Road to be Improved
- Road to be Constructed
- Road to be Renovated
- Swing Road to be Constructed
- ⊗ Proposed Landings
- ⊙ Waste Areas
- Road Segment Break
- ⋈ Gate
- MP** Milepost
- STA** Station

















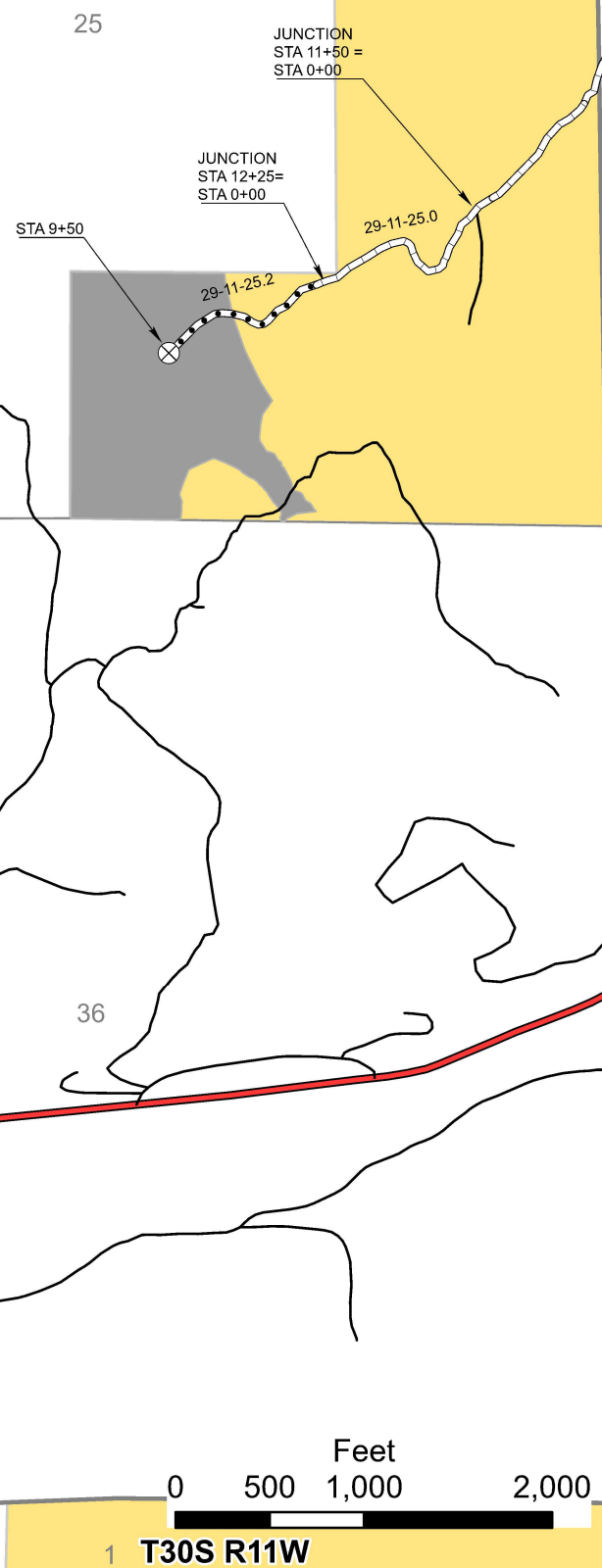
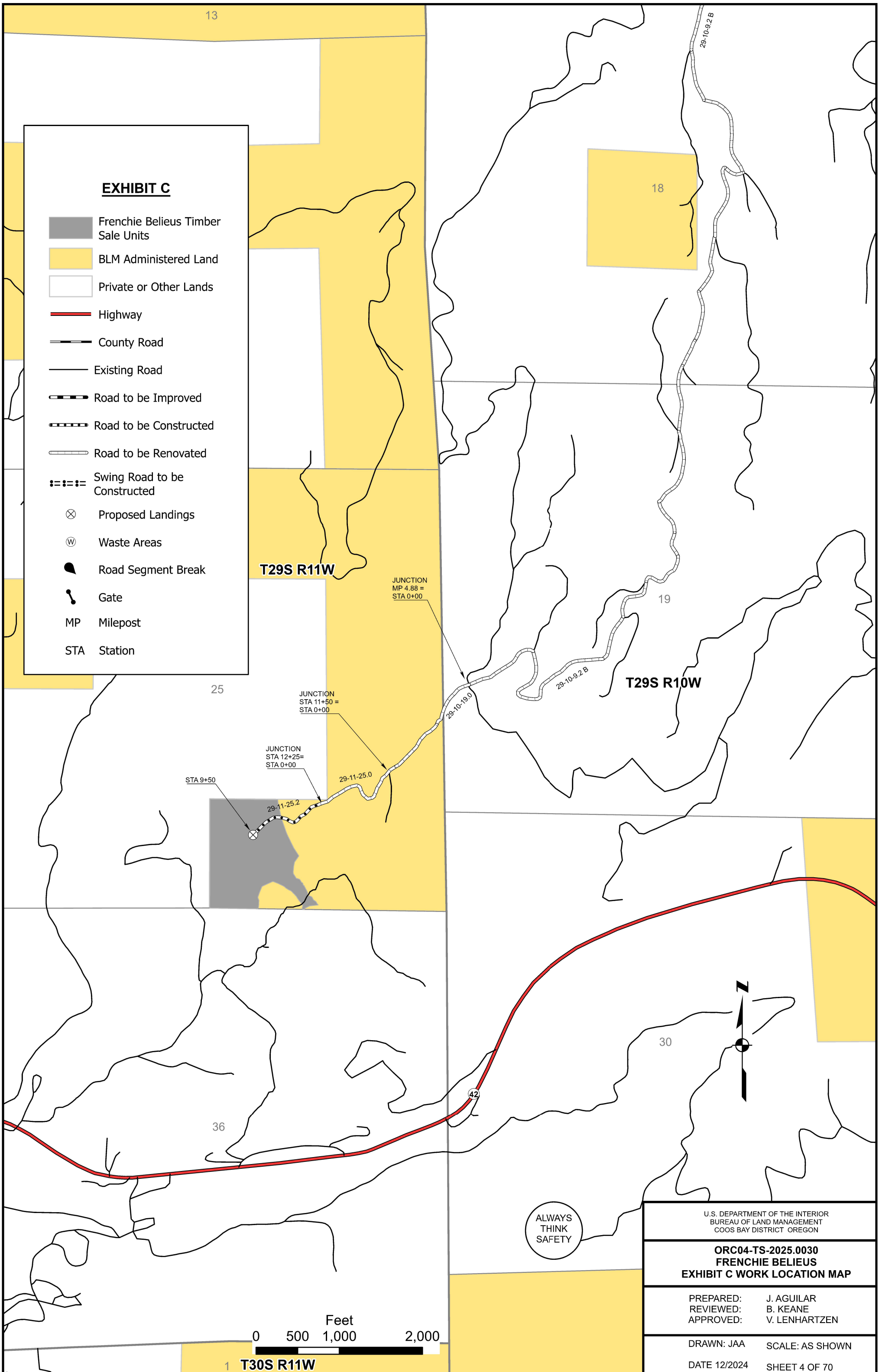
ALWAYS
THINK
SAFETY



U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS EXHIBIT C WORK LOCATION MAP	
PREPARED:	J. AGUILAR
REVIEWED:	B. KEANE
APPROVED:	V. LENHARTZEN
DRAWN: JAA	SCALE: AS SHOWN
DATE 12/2024	SHEET 3 OF 70

EXHIBIT C

-  Frenchie Belieus Timber Sale Units
-  BLM Administered Land
-  Private or Other Lands
-  Highway
-  County Road
-  Existing Road
-  Road to be Improved
-  Road to be Constructed
-  Road to be Renovated
-  Swing Road to be Constructed
-  Proposed Landings
-  Waste Areas
-  Road Segment Break
-  Gate
- MP Milepost
- STA Station



ALWAYS
THINK
SAFETY

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

ORC04-TS-2025.0030
FRENCHIE BELIEUS
EXHIBIT C WORK LOCATION MAP

PREPARED: J. AGUILAR
REVIEWED: B. KEANE
APPROVED: V. LENHARTZEN

DRAWN: JAA SCALE: AS SHOWN
DATE 12/2024 SHEET 4 OF 70

1 T30S R11W

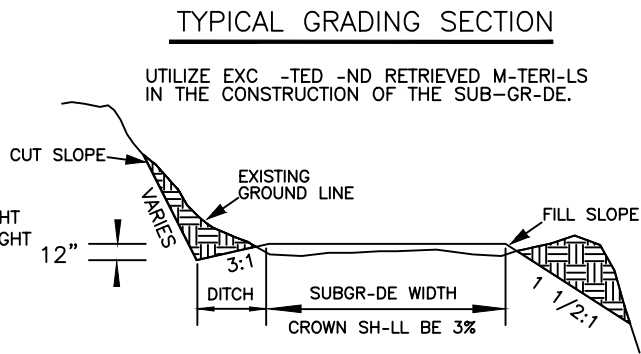
ROAD NUMBER **	FROM MILEPOST/STATION	TO MILEPOST/STATION	LENGTH MILES/STATIONS	TYPICAL SECTION TYPE	ROAD WIDTH (*1 & 5)		CLEARING WIDTH		BRUSHING WIDTH		SURFACING (*3)								REMARKS		
					SUBGRADE	DITCH	BEYOND		EXISTING ROADS		BASE COURSE				SURFACE COURSE						
							TOP CUT	TOE FILL	L	R	Min Top Width	Comp. Depth	Type (*2)	Grading	Min Top Width	Comp. Depth	Type (*2)	Grading			
29-10-9.1	R	0.00	0.15	0.15	5	16'	2'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST								3% CROWNED W/ DITCH	
29-10-9.2 Seg. A	R	0.00	0.30	0.30	5	16'	2'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST								3% CROWNED W/ DITCH	
29-10-9.2 Seg. B	R	0.30	4.88	4.58	5	16'	2'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST								3% CROWNED W/ DITCH	
29-10-17.2 Seg. B	R	0.00	0.67	0.67	5	16'	2'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST								3% CROWNED W/ DITCH	
29-10-17.2 Seg. A	R	0.67	0.78	0.11	5	16'	2'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST								3% CROWNED W/ DITCH	
29-10-19.0	R	0+00	5+50	5.50	1	16'	0'			10'	10'	NATIVE SURFACE								3% OUTSLOPED	
29-10-19.0	R	5+50	11+50	6.00	1	16'	2'			10'	10'	NATIVE SURFACE								3% CROWNED W/ DITCH	
29-10-20.2	I	0+00	4+50	4.50	2	16'	2'	10'	5'			13.3'	6"	D	6-0"		12'	4"	D	3-0"	3% CROWNED W/ DITCH
29-10-29.0	R	0.00	1.96	1.96	5	16'	2'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST								3% CROWNED W/ DITCH	
29-11-25.0	R	0+00	12+25	12.25	1	16'	2'			10'	10'	NATIVE SURFACE								3% CROWNED W/ DITCH	

** RENOVATION = R
IMPROVEMENT = I
CONSTRUCTION = C

***NOTES**

1. EXTR- SUBGR-DE WIDTHS

- FILL WIDENING:
 - DD 1 FT. TO E-CH SHOULDER FOR FILLS OF 1-6 FT. IN HEIGHT
 - DD 2 FT. TO E-CH SHOULDER FOR FILLS OF 6-10 FT. IN HEIGHT
- CURVE WIDENING: WIDEN THE INSIDE SHOULDER OF -LL CURVES -S SHOWN ON THE PL-NS OR -S FOLLOWS:
 - DD 4 FT. FOR CURVES WITH 90'-120' R-DIUS
 - DD 5 FT. FOR CURVES WITH 60'-90' R-DIUS



CUT SLOPES -ND FILL SLOPES -S FOLLOWS OR -S SHOWN ON PL-NS:

M-TERI-LS	CUT SLOPES	FILL SLOPES
COMMON	3/4:1	1 1/2:1
SOFT ROCK & SH-LE	1/2:1	1 1/2:1
SOLID ROCK	1/4:1	REPOSE

FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.

2. SURF-CING TYPE

- PIT RUN ROCK M-TERI-L.
- B. GRID ROLLED ROCK M-TERI-L.
- C. SCREENED ROCK M-TERI-L.
- D. CRUSHED ROCK M-TERI-L.
- E. CL-SS 'C' -SPH-LT MIX.

3. SURF-CING

- TURNOUTS, CURVE WIDENING, -ND RO-D
- PPRO-CH -PRONS SH-LL BE SURF-CED.
- SURF-CE -LL RO-D ST-TIONING REQUIRING SURF-CING
- S LISTED OR -S SHOWN ON PL-NS.

4. DITCHES

- 2:1 INSLOPE FROM SUBGR-DE. DITCH OUTSLOPE WILL BE -S SPECIFIED IN NOTE 1 -BOVE.
- DEPTH M-Y BE EXCEEDED TO OBT-IN REQUIRED DR-IN-GE.

5. TURNOUTS

- WIDTH 10 FT. IN -DDITION TO SUBGR-DE WIDTH, OR -S SHOWN ON THE PL-NS.
- B. INTERVISIBLE OR LOC-TED -PPROXIM-TELY -S SHOWN ON THE RO-D PL-NS -ND/OR N-RR-TIVE.

TYPICAL GRADING SECTION

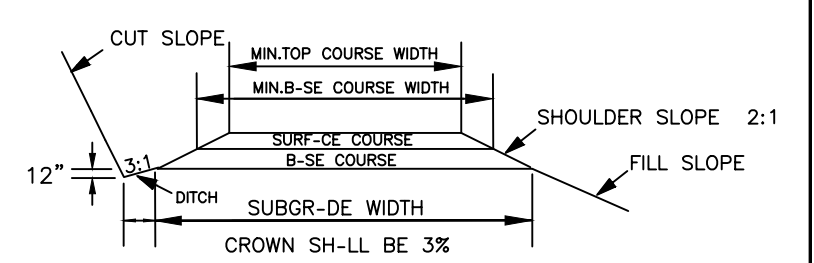
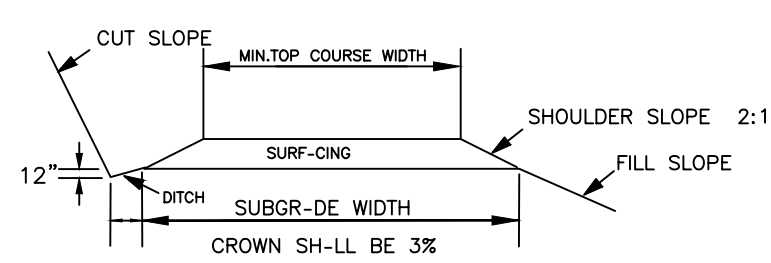
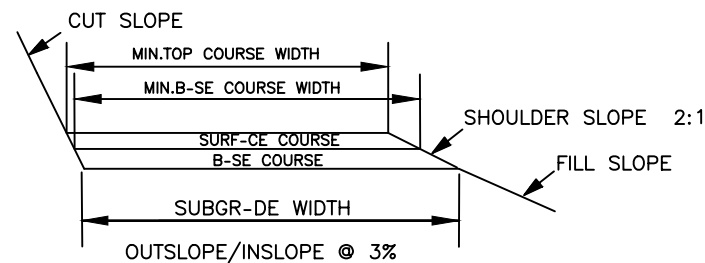
TYPICAL DIRT SECTION TYPE 1

TYPICAL SURFACING SECTION TYPE 2

TYPICAL SURFACING SECTION TYPE 3

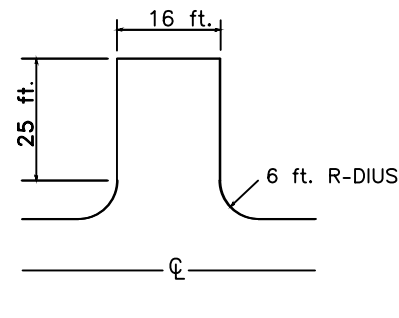
TYPICAL SURFACING SECTION TYPE 4

TYPICAL SURFACING SECTION TYPE 5

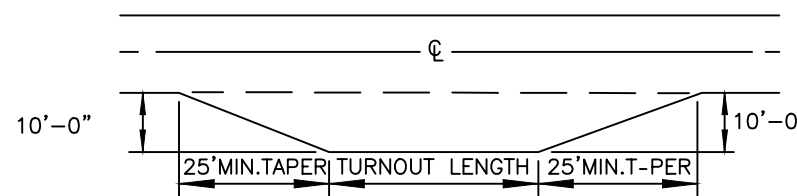


NOTE: FOR TYPE 1-3 TYPICAL SECTIONS, OUTSLOPING NOT TO BE USED WHERE GRADE EXCEEDS 6% (NEW CONSTRUCTION).

PLAN - TYPICAL TRUCK TURNAROUND



PLAN - TYPICAL TURNOUT



U. S. DEP-TMENT OF THE INTERIOR BURE-U OF L-ND M-N-GEMENT COOS B-Y DISTRICT - OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS TYPICAL CROSS SECTION DETAILS	
PREPARED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DRAWN	JAA
DATE	01/2025
SC-LE	NONE
	SHEET 5 OF 70

ROAD NUMBER **	FROM MILEPOST/S TATION	TO MILEPOST/S TATION	LENGTH MILES/ STATIONS	TYPICAL SECTION TYPE	ROAD WIDTH (*1 & 5)		CLEARING WIDTH		BRUSHING WIDTH		SURFACING (*3)								REMARKS			
					SUBGRADE	DITCH	BEYOND		EXISTING ROADS		BASE COURSE				SURFACE COURSE							
							TOP CUT	TOE FILL	L	R	Min Top Width	Comp. Depth	Type (*2)	Grading	Min Top Width	Comp. Depth	Type (*2)	Grading				
29-11-25.2	C	0+00	9+50	9.50	1	16'	2'	10'	5'												3% CROWNED W/ DITCH	
SWING ROAD	C	0+00	4+25	4.25	4	16'	2'	10'	5'												3% CROWNED W/ DITCH	

** RENOVATION = R
IMPROVEMENT = I
CONSTRUCTION = C

***NOTES**

- EXTR- SUBGR-DE WIDTHS
FILL WIDENING:
- DD 1 FT. TO E-CH SHOULDER FOR FILLS OF 1-6 FT. IN HEIGHT
- DD 2 FT. TO E-CH SHOULDER FOR FILLS OF 6-10 FT. IN HEIGHT
CURVE WIDENING: WIDEN THE INSIDE SHOULDER OF -LL CURVES -S SHOWN ON THE PL-NS OR -S FOLLOWS:
- DD 4 FT. FOR CURVES WITH 90'-120' R-DIUS
- DD 5 FT. FOR CURVES WITH 60'-90' R-DIUS

CUT SLOPES -ND FILL SLOPES -S FOLLOWS OR -S SHOWN ON PL-NS:

M-TERI-LS	CUT SLOPES	FILL SLOPES
COMMON	3/4:1	1 1/2:1
SOFT ROCK & SH-LE	1/2:1	1 1/2:1
SOLID ROCK	1/4:1	REPOSE

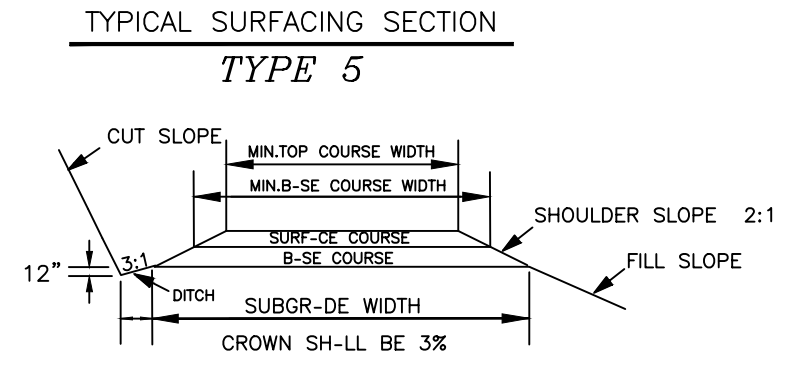
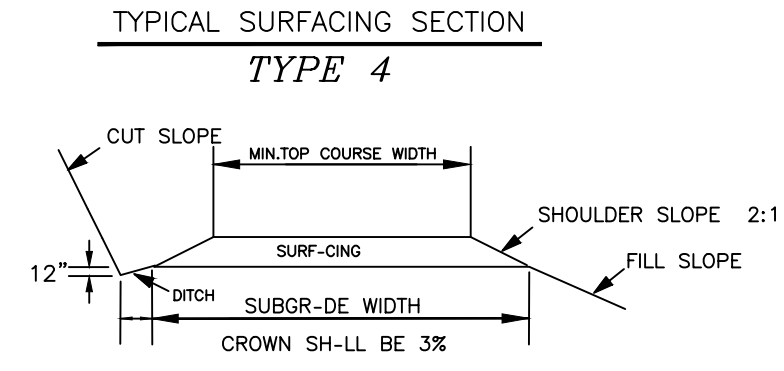
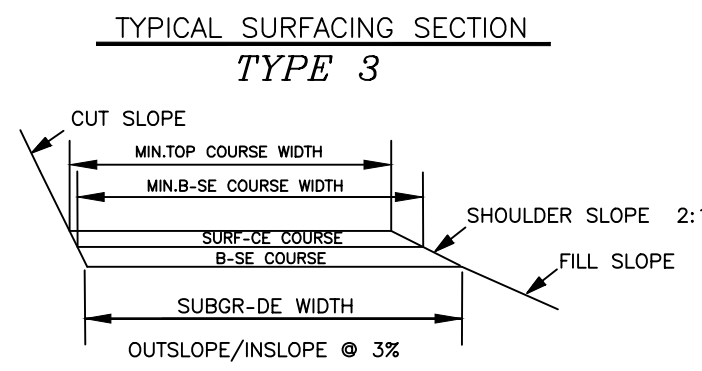
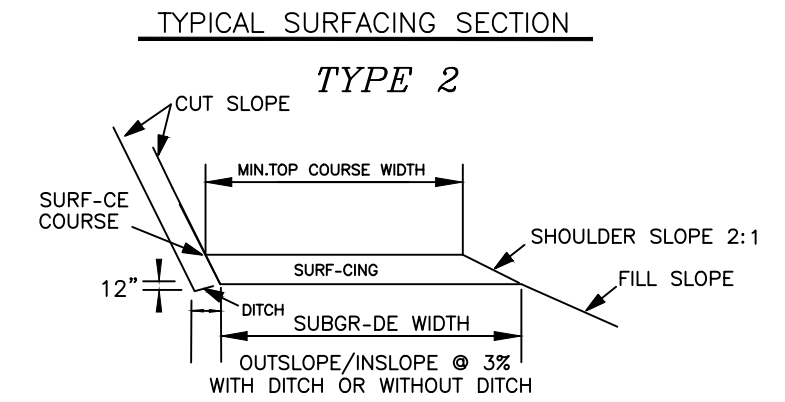
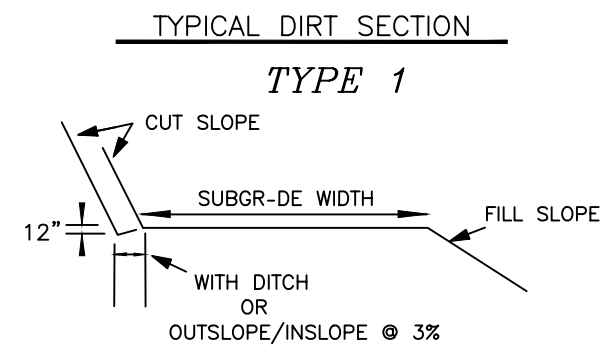
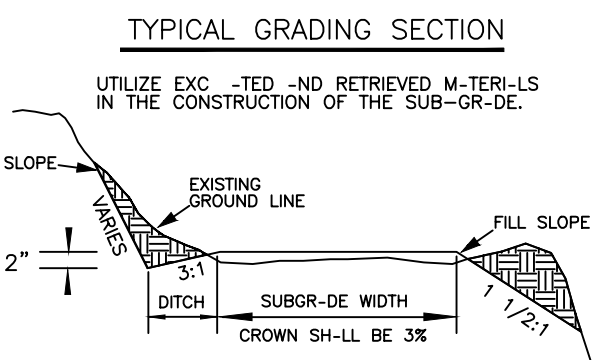
FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.

- SURF-CING TYPE
-. PIT RUN ROCK M-TERI-L.
B. GRID ROLLED ROCK M-TERI-L.
C. SCREENED ROCK M-TERI-L.
D. CRUSHED ROCK M-TERI-L.
E. CL-SS 'C' -SPH-LT MIX.

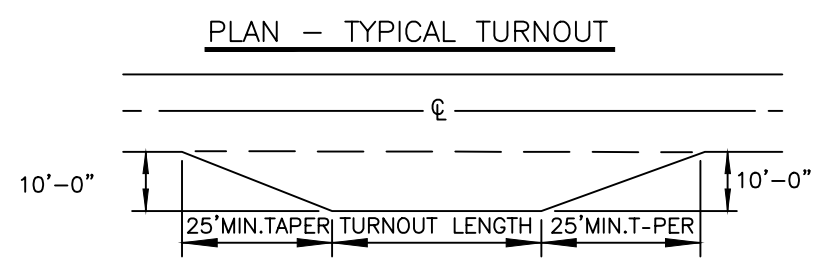
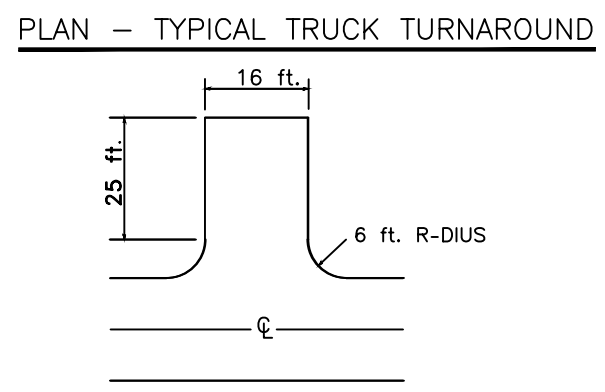
- SURF-CING
-. TURNOUTS, CURVE WIDENING, -ND RO-D -P-RO-CH -PRONS SH-LL BE SURF-CED. SURF-CE -LL RO-D ST-TIONING REQUIRING SURF-CING -S LISTED OR -S SHOWN ON PL-NS.

- DITCHES
-. 2:1 INSLOPE FROM SUBGR-DE. DITCH OUTSLOPE WILL BE -S SPECIFIED IN NOTE 1 -BOVE. DEPTH M-Y BE EXCEEDED TO OBT-IN REQUIRED DR-IN-GE.

- TURNOUTS
-. WIDTH 10 FT. IN -DDITION TO SUBGR-DE WIDTH, OR -S SHOWN ON THE PL-NS.
B. INTERVISIBLE OR LOC-TED -PPROXIM-TELY -S SHOWN ON THE RO-D PL-NS -ND/OR N-RR-TIVE.



NOTE: FOR TYPE 1-3 TYPICAL SECTIONS, OUTSLOPING NOT TO BE USED WHERE GRADE EXCEEDS 6% (NEW CONSTRUCTION).



ALWAYS THINK SAFETY

U. S. DEP-TMENT OF THE INTERIOR
BURE-U OF L-ND M-N-GEMENT
COOS B-Y DISTRICT - OREGON

ORC04-TS-2025.0030
FRENCHIE BELIEUS
TYPICAL CROSS SECTION DETAILS

PREPARED J. AGUILAR
REVIEWED B. KEANE
APPROVED V. LENHARTZEN

DRAWN JAA SC-LE NONE
DATE 01/2025 SHEET 6 OF 70

ROAD NUMBER	NEW CONSTRUCTION	RENOVATION	IMPROVEMENT	NEW FEATURE CONSTRUCTION	SLASH TREATMENT (*4, 5)	GRUBBING (*4, 5)	ROADSIDE BRUSHING (*6)	RENOVATION EARTHWORK (*8, 9)	EXCAVATION & EMBANKMENT						CPP (*1, 3)			CMP	DOWNSPOUTS (*3)				DOWNSPOUT ANCHORS					
									COMMON (*7)	RIPPABLE ROCK	ROCK CUT	FILL (*7)	SHORT HAUL 100-500' (*10)	LONG HAUL 500'+ (*10)	18"	24"	36"	12"	FULL ROUND									
																			CPP		CMP							
																			18"	24"	18"	24"						
SECTION NO.	300	500	500	300	200	200	2100	500	300	300	300	300	300	300	400	400	400	400	400	400	400	400	400	400	400	400	400	400
UNITS	STA.	STA.	STA.	EA.	AC.	AC.	AC.	CY	C.Y.	C.Y.	C.Y.	C.Y.	STA.YDS.	YD.MI.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	
29-10-9.1		7.92					0.4	30							40													
29-10-9.2		257.66					11.9	60																				
29-10-17.2		41.19					1.9																					
29-10-19.0		11.50			1.0	1.0																						
29-10-20.2			4.50		0.5	0.5																						
29-10-29.0		103.49		3	0.5	0.5	4.8	350																				
29-11-25.0		12.25			0.8	0.8																						
29-11-25.2	9.50				0.9	0.9			3100			3100	4030		36													
SWING ROAD	4.25				0.4	0.4			1600			1600	2080															
PROJECT TOTALS	13.75	434.01	4.50	3	4.1	4.1	19.0	440	4700			4700	6110		76													

- *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.



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT – OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS ESTIMATE OF QUANTITIES	
PREPARED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DR-WN JAA	
DATE	01/2025
	SHEET 7 OF 70

ROAD NUMBER	SURFACING						OTHER				SOIL STABILIZATION		OTHER (SEDIMENT CONTROL DEVICES)
	6-0" SURFACE ROCK (*2)	6-0" BASE ROCK (*1)	3-0" SURFACE ROCK (*1)	1.5-0" SURFACE ROCK (*3)	1.5-0" SPOT ROCK (*3)	0.75-0" SURFACE ROCK (*4)	1.5-0" CULVERT ROCK (*3)	CLASS 3 RIP RAP (*5)	CLASS 4 RIP RAP (*6)	SEED AND MULCH			
										DRY	HYDRO		
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	
29-10-9.1							20			0.2			
29-10-9.2				304					40	1.4			
29-10-17.2					30					0.2			
29-10-19.0										0.3			
29-10-20.2		158	93							0.2			
29-10-29.0	320			1192	100					2.4			
29-11-25.0										0.3			
29-11-25.2										0.2			
SWING ROAD										0.1			
PROJECT TOTALS	320	158	93	1496	130		20		40	5.3			

*NOTE			
*	SECTION	GRADE	SIZE
1	1000	A	3-0"
2	1000	I	6-0"
3	1200	C	1.5-0"
4	1200	E1	0.75-0"
5	1400	CLASS 3	27-8"
6	1400	CLASS 4	33-9"
7	2600	ODOT LEVEL III ASPHALT	$\frac{1}{2}$ " DENSE PG64-2 2

ESTIMATE OF QUANTITIES**

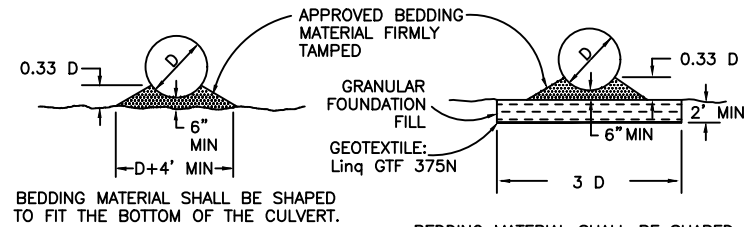
** FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS.
ALL ROCK QUANTITIES ARE TRUCK (LOOSE) CUBIC YARDS.



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS ESTIMATE OF QUANTITIES	
PREPARED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DR-WN JAA	SCALE NONE
DATE 01/2025	SHEET 8 OF 70

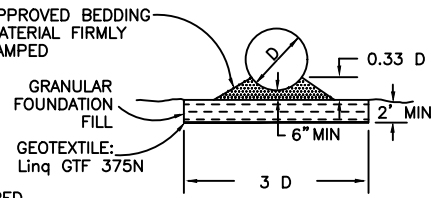
BEDDING OF CULVERTS

BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR COMPACTED EMBANKMENT



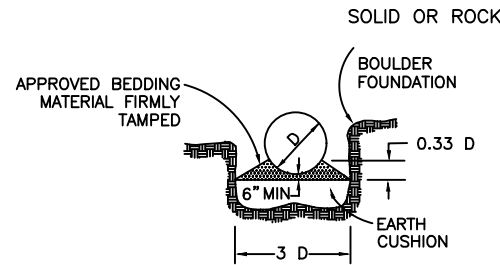
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION



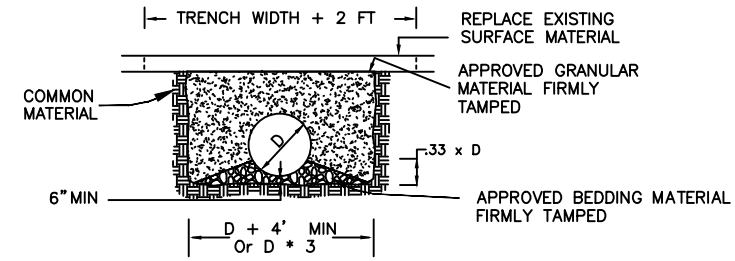
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS IN SOLID ROCK OR BOULDER FOUNDATION



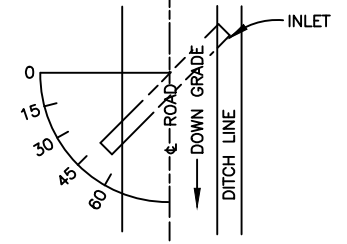
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAINTAIN 10" MIN. DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS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

BEDDING OF CULVERTS ON EXISTING AGGREGATE SURFACED ROADS



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

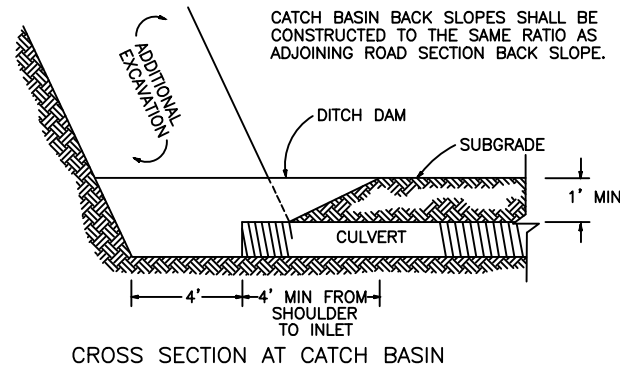
SKUEW DIAGRAM



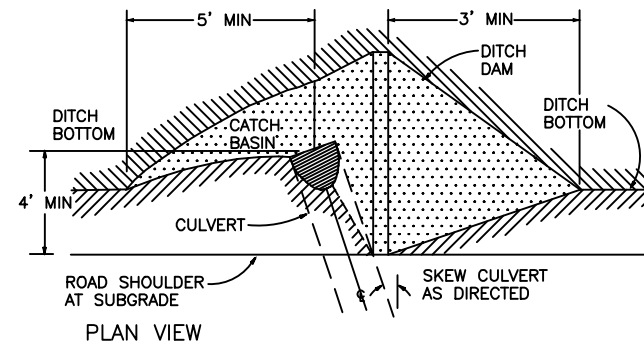
CULVERTS SHALL BE SKEWED DOWN GRADE 45 DEGREES AS MEASURED FROM THE PERPENDICULAR TO ROAD CENTERLINE UNLESS OTHERWISE SPECIFIED.

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

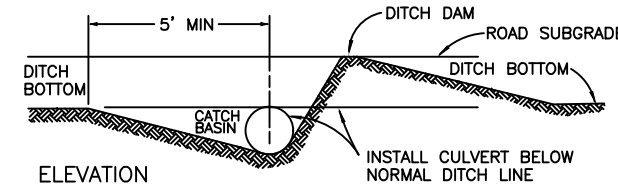
CATCH BASIN



CROSS SECTION AT CATCH BASIN

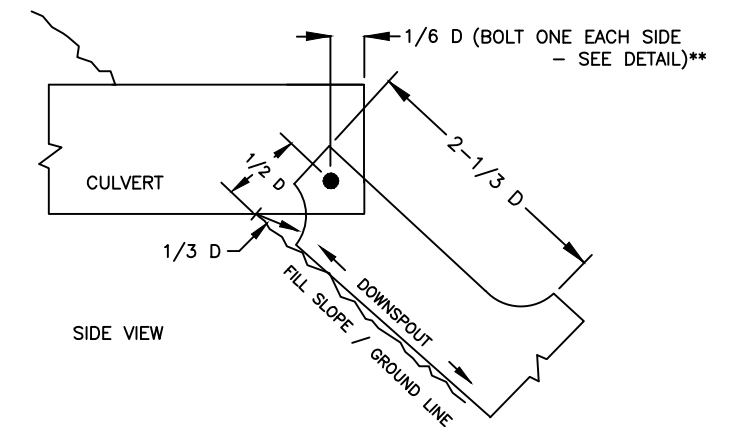


PLAN VIEW



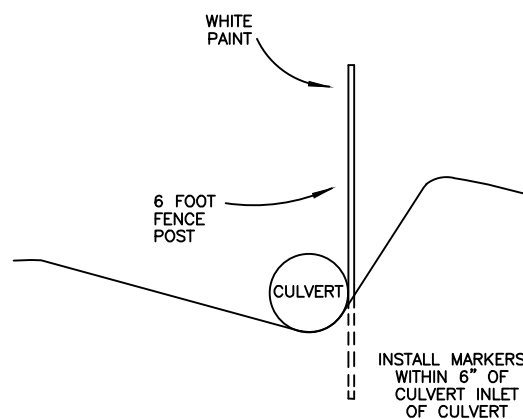
ELEVATION

USE "ADJUSTABLE ELBOW" FOR DOWNSPUTS

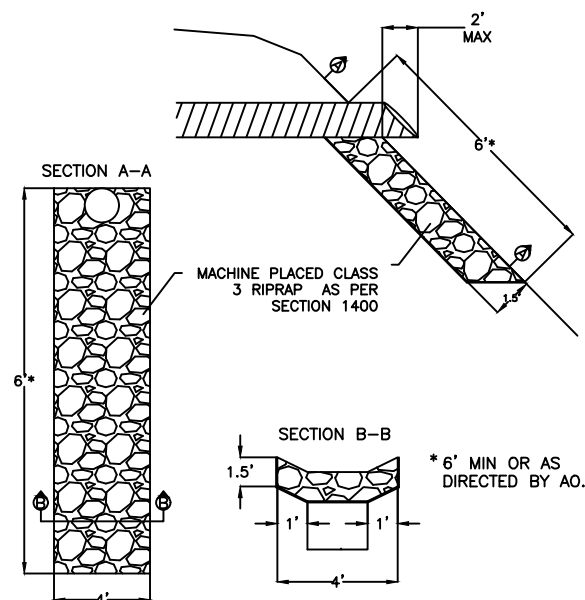


SIDE VIEW

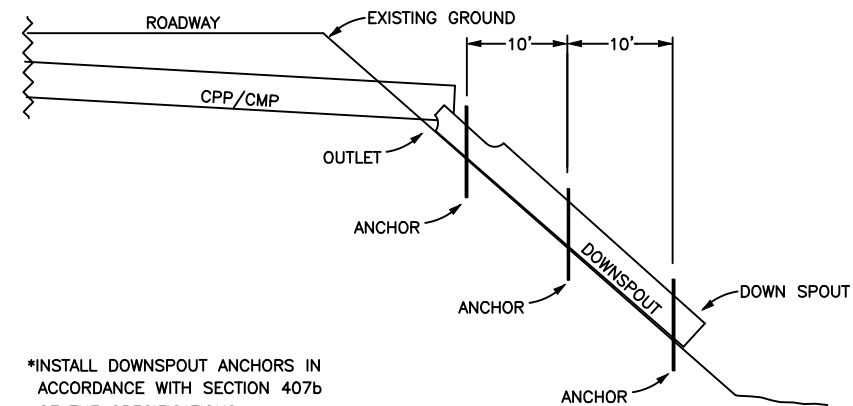
CULVERT MARKER DETAIL



ENERGY DISSIPATER DETAIL

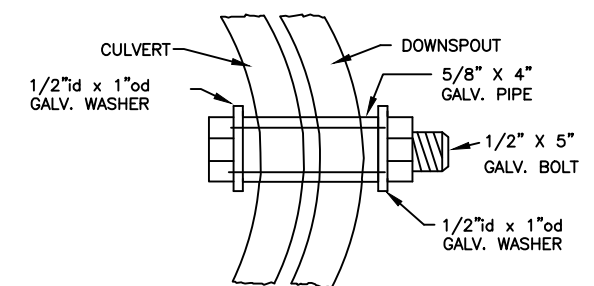


DOWNSPOUT ANCHOR DETAIL*



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

BOLT ASSEMBLY DETAIL



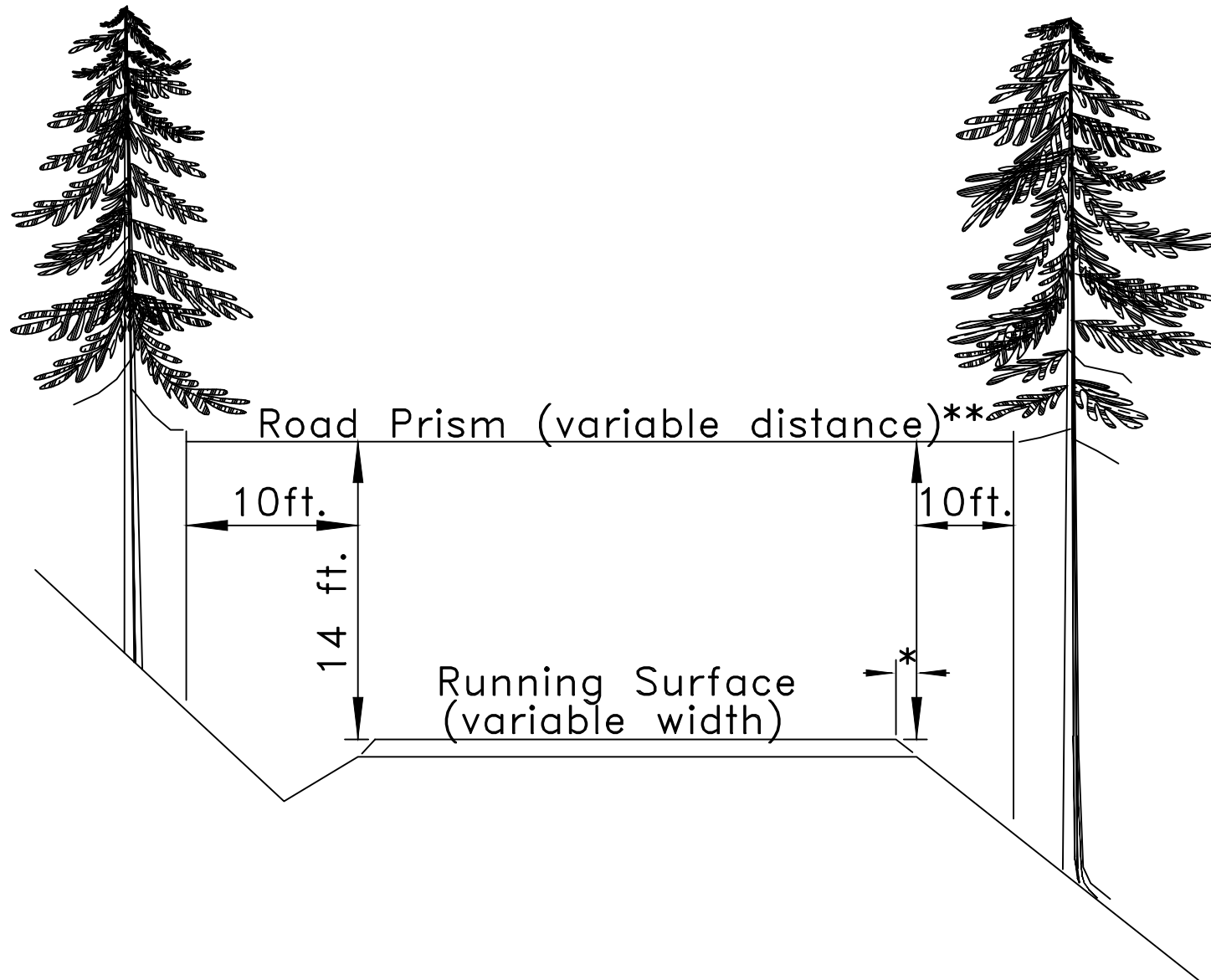
ALWAYS
THINK
SAFETY

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

ORC04-TS-2025.0030
FRENCHIE BELIEUS
CULVERT DETAILS

PREPARED J. AGUILAR
REVIEWED B. KEANE
APPROVED V. LENHARTZEN

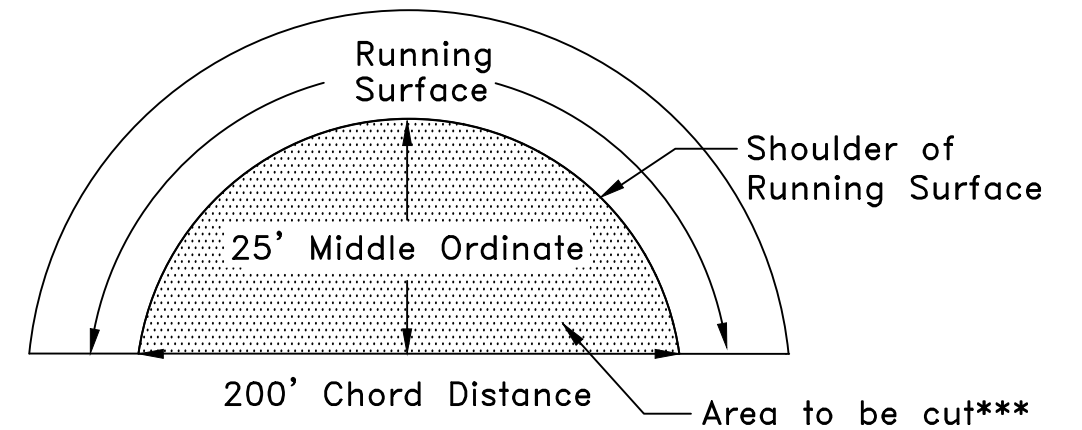
DRAWN JAA SCALE NONE
DATE 01/2025 SHEET 9 OF 70



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

Roadside Brushing – Inside Corner

Sight Distance Diagram




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





U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT – OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS ROADSIDE BRUSHING DETAILS	
PREPARED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DRAWN JAA	SCALE NONE
DATE 01/2025	SHEET 10 OF 70

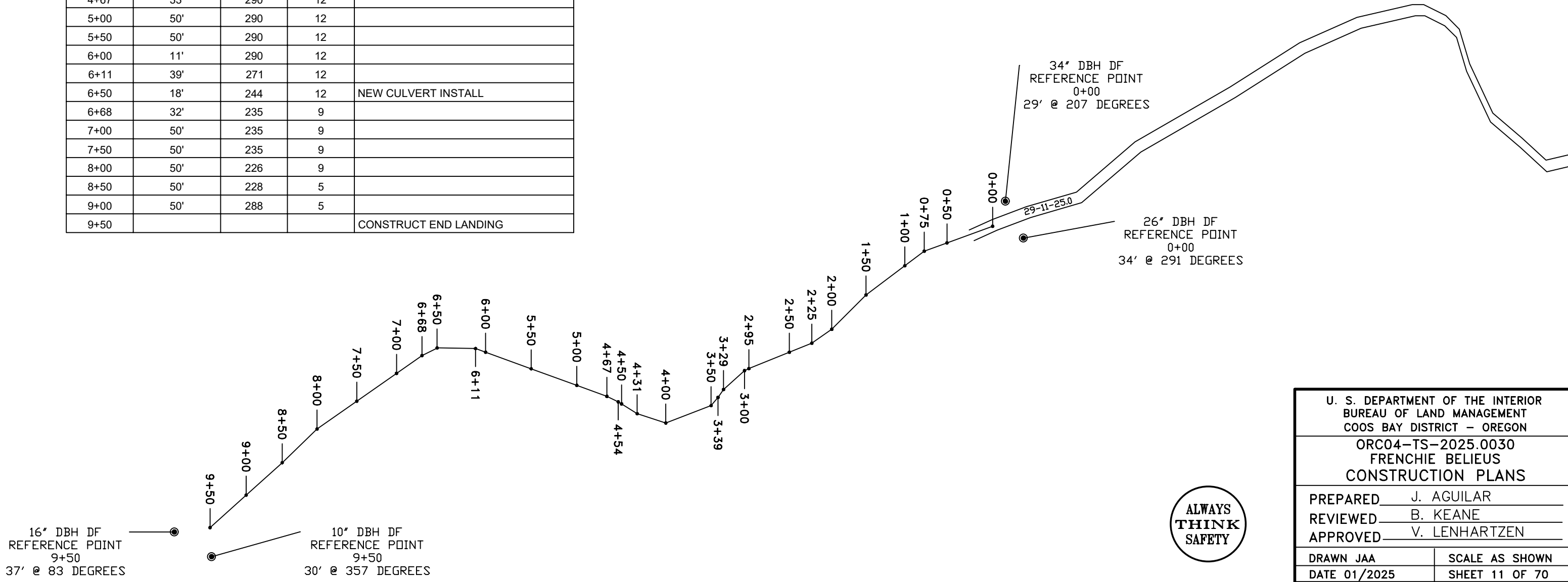
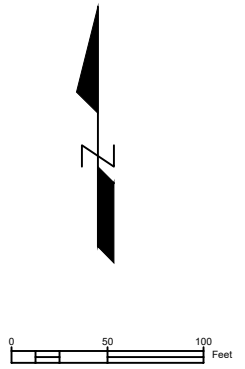
BLM ROAD NO. 29-11-25.2				
STA	HORIZONTAL DISTANCE	AZIMUTH	% GRADE	NOTES
0+00	50'	250	17	SEE CONSTRUCTION DETAIL SHEET
0+50	25'	250	17	
0+75	25'	233	17	
1+00	50"	233	17	
1+50	50'	225	17	APPROX. CONSTRUCT TOL
2+00	25'	235	17	
2+25	25'	248	17	
2+50	45'	248	17	
2+95	5'	245	17	
3+00	29'	228	17	
3+29	10'	215	17	
3+39	11'	220	17	
3+50	50'	249	15	
4+00	31'	288	14	
4+31	19'	302	13	
4+50	4'	302	12	
4+54	13'	296	12	
4+67	33'	290	12	
5+00	50'	290	12	
5+50	50'	290	12	
6+00	11'	290	12	
6+11	39'	271	12	
6+50	18'	244	12	NEW CULVERT INSTALL
6+68	32'	235	9	
7+00	50'	235	9	
7+50	50'	235	9	
8+00	50'	226	9	
8+50	50'	228	5	
9+00	50'	288	5	
9+50				CONSTRUCT END LANDING

LEGEND

EXISTING ROAD 

CONSTRUCTION CENTERLINE 

REFERENCE POINT 



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

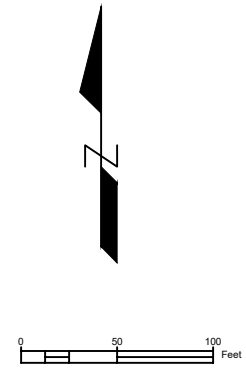
ORC04-TS-2025.0030
FRENCHIE BELIEUS
CONSTRUCTION PLANS

PREPARED J. AGUILAR
REVIEWED B. KEANE
APPROVED V. LENHARTZEN

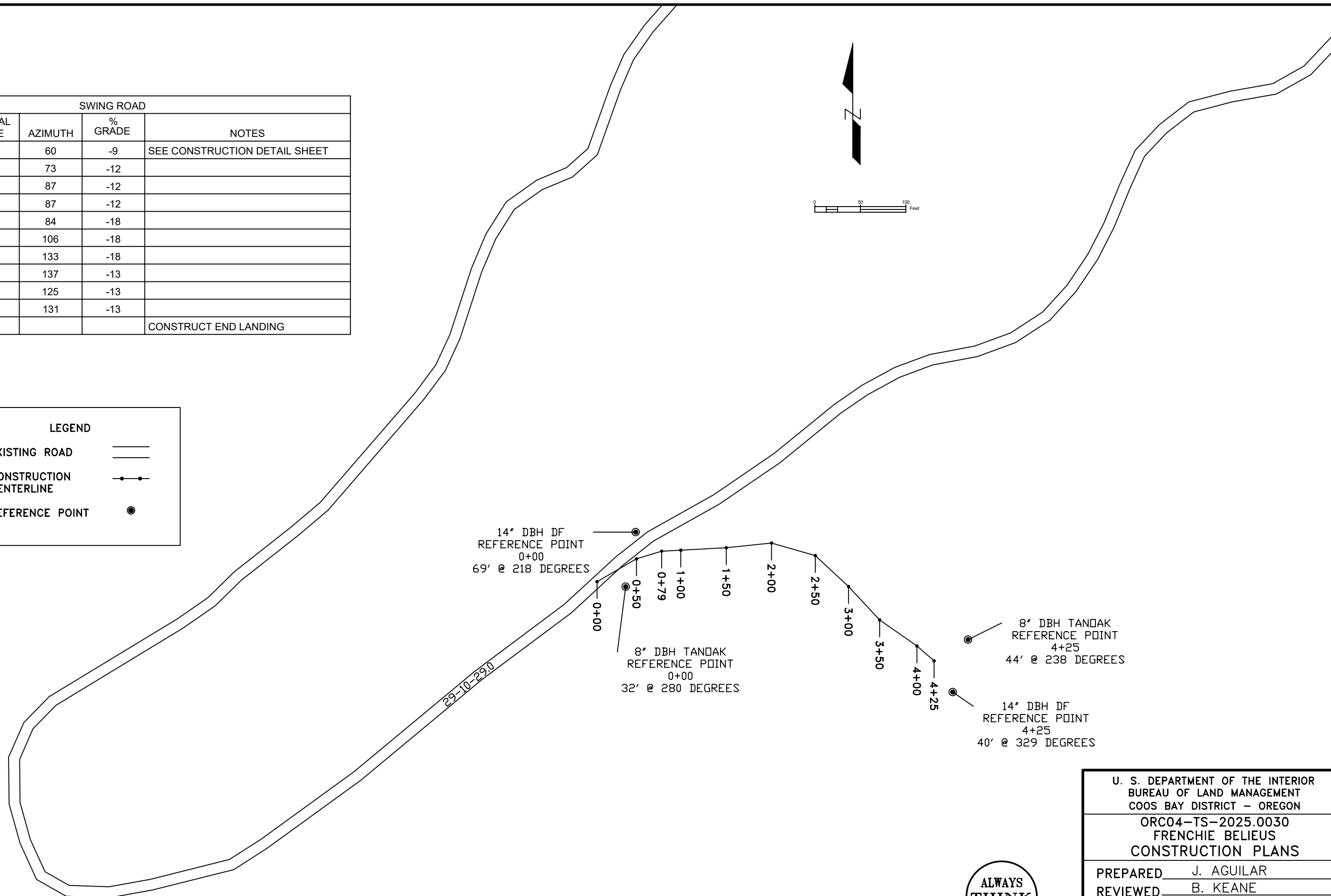
DRAWN JAA	SCALE AS SHOWN
DATE 01/2025	SHEET 11 OF 70



SWING ROAD				
STA	HORIZONTAL DISTANCE	AZIMUTH	% GRADE	NOTES
0+00	50'	60	-9	SEE CONSTRUCTION DETAIL SHEET
0+50	29'	73	-12	
0+79	21'	87	-12	
1+00	50'	87	-12	
1+50	50'	84	-18	
2+00	50'	106	-18	
2+50	50'	133	-18	
3+00	50'	137	-13	
3+50	50'	125	-13	
4+00	25'	131	-13	
4+25				CONSTRUCT END LANDING



LEGEND	
EXISTING ROAD	
CONSTRUCTION CENTERLINE	
REFERENCE POINT	



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS CONSTRUCTION PLANS	
PREPARED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DRAWN JAA	SCALE AS SHOWN
DATE 01/2025	SHEET 12 OF 70

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 90 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.

Steel Gate – Purchaser Furnished and Installed

Purchaser shall furnish and install steel gate. Steel gate shall be installed at location specified in Exhibit D, Road Maintenance Specification, Section 3400. Steel gate and installation shall be in accordance with Steel Gate Details and as directed by Authorized Officer.

General Roadwork Season

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

In-water Work Period for Stream Culverts

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.

Seasonal and Daily Timing Restrictions

Refer to timber sale contract, Section 44 (Special Provisions), Seasonal Restriction Matix (timber sale prospectus), and Exhibit A maps.

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.

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.

RENOVATE BLM ROAD NO. 29-10-9.2 segment A
Milepost 0.00 to 0.30

<u>MP.</u>	<u>Remarks</u>
0.00	<p>Junction with BLM Road No. 29-10-9.1 at MP 0.15.</p> <p>Begin cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, slope protection, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1200, 1400, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.</p> <p>NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with 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 60 CY of material to be removed.</p> <p>NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 5 (with 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.</p> <p>NOTE: From milepost 0.00 to 0.30, install 3" lift of compacted 1.5-0" crushed aggregate surfacing.</p>
0.12	Existing 42" x 34' CMP stream crossing culvert. Ensure road is double ditched for 100' in both directions (ingress / egress). Install ditchouts to outboard ditch if possible. Armor outlet fill slope with 40 cubic yards of class 4 riprap.
0.15	Existing 18" x 30' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
0.18	Renovate existing truck turnout left.
0.22	Existing 24" x 30' CMP stream crossing culvert. Clean culvert's inlet, outlet, and barrel.
0.28	Renovate existing truck turnout left.
0.30	Existing 24" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel. Existing functioning gate. Road segment break. Continue road renovation.

- 2.13 Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 2.45 Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 2.85 Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 3.03 Base course surfacing exposed.
- 3.25 Junction, private spur road left not proposed for timber sale use.
 End of exposed base course surfacing.
- 3.88 Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 4.63 Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 4.76 Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 4.86 Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 4.88 Junction, renovate BLM Road No. 29-10-19.0 right.
 End renovation.

RENOVATE BLM ROAD NO. 29-10-17.2 segment B (Private owned / controlled)
 Milepost 0.00 to 0.67

<u>MP.</u>	<u>Remarks</u>
0.00	Junction with BLM Road No. 29-10-9.2 at MP 1.32 Begin renovation, watering, surfacing, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1200, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.
0.01	Existing stream crossing culvert. Clean culvert's inlet, outlet, and barrel.
0.04	Existing stream crossing culvert. Clean culvert's inlet, outlet, and barrel.
0.08	Renovate existing truck turnout left.
0.14	Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
0.25	Renovate existing truck turnout left.
0.29	Existing stream crossing culvert. Clean culvert's inlet, outlet, and barrel.
0.35	Existing stream crossing. Clean culvert's inlet, outlet, and barrel.
0.40	Existing cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.

shall consist of decking at location designated by Authorized Officer.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 1. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins.

NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 1. 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.

5+00 Approximate property line. Leaving private. Entering BLM.

7+50 Renovate existing truck turnout right.

11+50 Junction, renovate BLM Road No. 29-11-25.0 right.

End renovation.

IMPROVE BLM ROAD NO. 29-10-20.2
 Station 0+00 to 4+50

<u>STA.</u>	<u>Remarks</u>
0+00	Junction with BLM Road No. 29-10-29.0 at milepost 1.15. Begin improvement, clearing & grubbing, excavation & embankment, watering, surfacing, erosion control, and soil stabilization in accordance with Sections 200, 300, 500, 600, 1000, 1700, and 1800, of the Timber Sale Road Specifications, Typical Cross Section Details, and Roads Worklist. NOTE: From station 0+00 to 4+50, install a compacted 6" lift of 6-0" crushed aggregate and cap with a compacted 4" lift of 3-0" crushed aggregate surfacing. NOTE: Ditch both sides of road where necessary. Two ditchouts will be constructed as directed by BLM Authorized Officer.
3+00	Construct 50' diameter roadside landing right. 50 CY of 6-0" crushed aggregate allocated to surface landing to compacted 8" depth.
4+50	Renovate 50' diameter end landing. 50 CY of 6-0" crushed aggregate allocated to surface landing to compacted 8" depth. End improvement.

- 0.11 Remove cut slope failure (estimated 10 CY).
- 0.18 Repair existing 24" x 30' CMP stream crossing w/ disconnected downspout by cutting 1' off of inlet and reattaching downspout. Clean culvert's inlet, outlet, and barrel.
- 0.23 Existing 24" x 30' CMP stream crossing with downspout. Clean culvert's inlet, outlet, and barrel.
- 0.25 Existing 24" x 30' CMP stream crossing. Clean culvert's inlet, outlet, and barrel.
Remove root wad from cut slope.
- 0.28 Existing 24" x 30' CMP stream crossing culvert with downspout. Clean culvert's inlet, outlet, and barrel.
- 0.38 Existing 24" x 30' CMP stream crossing. Clean culvert's inlet, outlet, and barrel.
- 0.43 Repair existing 18" x 24" CMP cross drain culvert by reattaching downspout. Clean culvert's inlet, outlet, and barrel.
- 0.59 Renovate ditch-out right.
- 0.60 Existing roadside landing right to be utilized as waste area.
- 0.61 Junction, road right not proposed for timber sale use.
- 0.74 Renovate ditch-out right.
- 0.85 Construct 50' diameter landing with 100' approach right in accordance with Sections 200, 300, 600, 1000, and 1800 of the Timber Sale Road Specifications. 100 CY 6-0" crushed rock aggregate allocated to surface approach and landing to compacted 8" depth.
- 0.96 Proposed on-road landing location. Construct 20' wide x 40' long adjacent operational area right in accordance with Sections 200, 300, 600, 1000, 1700, and 1800 of the Timber Sale Road Specifications. 30 CY of 6-0" crushed aggregate allocated for surfacing.
- 1.08 Proposed on-road landing location.
- 1.15 Proposed on-road landing location.
Improve BLM Road No. 29-10-20.2 right.
- 1.35 Renovate ditch-out right.
- 1.37 Construct 80' diameter landing with 250' approach left in accordance with Sections 200, 300, 600, 1000, and 1800 of the Timber Sale Road Specifications. 190 CY 6-0" crushed rock aggregate allocated to surface approach and landing to compacted 8" depth.
- 1.48 Existing 18" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.
- 1.52 Remove root wad from cut slope.
- 1.57 Junction, construct swing road right. If necessary, realign existing road centerline 5'-10' left by cutting into existing cut slope. Realignment would assist with construction of the swing 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.

3+00 Renovate ditch-out right.

6+50 Renovate existing truck turnout right.

8+00 Renovate ditch-out right.

11+00 Existing 18" x 30' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.

11+50 Approximate property line.

12+25 Construct BLM Road No. 29-11-25.2.

End Renovation

LANDINGS

Station 9+50, construct 50' diameter end landing.

SOIL STABILIZATION

Apply seed and mulch in accordance with Section 1800.

TRUCK TURNAROUND

None

LANDINGS

Station 4+25 Construct 50' diameter end landing.

SOIL STABILIZATION

Apply seed and mulch in accordance with Section 1800.

TIMBER SALE ROAD SPECIFICATIONS

GENERAL – 100

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:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

Unaged Cloth - Cloth in condition received from the manufacturer or distributor.

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

102a* - Tests Used in These Specifications:

<u>AASHTO T 11</u>	Quantity of rock finer than No. 200 sieve.
<u>AASHTO T 27</u>	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
<u>AASHTO T 89</u>	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
<u>AASHTO T 90</u>	Plastic limits and plasticity index of soil. a.) Plastic limit - lowest water content at which the soil remains plastic. b.) Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
<u>AASHTO T 96</u>	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
<u>AASHTO T 99</u>	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.
<u>AASHTO T 119</u>	Slump of hydraulic cement concrete.
<u>AASHTO T 152</u>	Air content of freshly mixed concrete.
<u>AASHTO T 166</u>	Specific Gravity of compacted Bituminous Mixtures.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

- 103e - Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3 inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller through 6 inches of loose embankment material at a speed of at least 4 miles per hour.

TIMBER SALE ROAD SPECIFICATIONS

CLEARING AND GRUBBING - 200

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

TIMBER SALE ROAD SPECIFICATIONS

EXCAVATION AND EMBANKMENT - 300

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

TIMBER SALE ROAD SPECIFICATIONS

- 306e - The final subgrade including landings, truck turnouts, and truck turnarounds shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations of road or a fraction of as measured along the center line of the constructed road.

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

- 306g - **All fill slopes shall be compacted to 85 percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.**
- 311 - In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 312 - When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.
- 313 - In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

TIMBER SALE ROAD SPECIFICATIONS

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

TIMBER SALE ROAD SPECIFICATIONS

- 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.

TIMBER SALE ROAD SPECIFICATIONS

AGGREGATE BASE COURSE - 1000
CRUSHED ROCK MATERIAL

- *1001 - This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock material on roadbeds and landings approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.

- 1002a - Crushed rock materials may be obtained from a commercial source selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.

- *1003 - Crushed rock material produced from gravel shall have 3 manufactured fractured faces on 75 percent, by weight, of the material retained on the No. 4 sieve.

TIMBER SALE ROAD SPECIFICATIONS

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

TABLE 1007a

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

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

TIMBER SALE ROAD SPECIFICATIONS

AGGREGATE SURFACE COURSE - 1200
CRUSHED ROCK MATERIAL

- *1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.

- 1202a - Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.

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

TIMBER SALE ROAD SPECIFICATIONS

- 1207 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.

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

TABLE 1207a

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

- 1208 - If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

- 1208a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

TIMBER SALE ROAD SPECIFICATIONS

SLOPE PROTECTION - 1400

- *1401 - This work shall consist of furnishing, hauling, and placing stone materials (rip rap) for slope protection structures and energy dissipaters (splash pads) in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross-sections shown on the plans and Roads Worklist. Material not conforming to these specifications will be rejected and shall be removed from the slope protection structure at the purchaser's expense as directed by the Authorized Officer.

- *1402 - Stone material shall consist of hard, durable, angular in shape quarry rock of such quality that it will not disintegrate on exposure to water or weathering and shall be graded in accordance with these specifications.

- 1404 - The material shall be well graded from the smallest to the maximum size specified. Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.

TIMBER SALE ROAD SPECIFICATIONS

- 1405a - Stone materials shall show a durability value of not less than 50 as determined by AASHTO T 210.
- 1405b - Stone materials shall conform to a minimum apparent specific gravity of 2.50 and a maximum absorption of 4.2 percent as determined by AASHTO T 85.
- 1406 - The placement of slope protection stones by the end dumping method is not permitted.
- 1406a - The embankment shall be placed (with excavator) in successive horizontal layers of sufficient depth to contain the maximum size rock present in the material. Spalls and finer fragments of stone other than specified in Subsection 1405 shall be used to chock the larger stones solidly in position and to fill voids between the major stones as laid in the embankment. The exposed face of the embankment shall be reasonably smooth and uniform; material shall be prevented from escaping beyond the toe of the structure.
- *1407 - Determination of the acceptability of the slope protection material gradation will be through visual inspection, and/or physical measurements by the Authorized Officer.
- 1408 - Trenches for slope protection structures shall be excavated to the lines, elevations, and typical diagram shown on the plans. They shall be of sufficient size to permit the placing of structure footing of the full widths and length shown. Trenches shall be approved by the Authorized Officer prior to placement of slope protection material.
- 1408a - Foundation trenches and other required excavation as shown on the plans and Roads Worklist shall be approved prior to placing the slope protection material.
- 1408b - The Purchaser shall excavate unsuitable roadway material as shown on the plans, details, Roads Worklist, or directed by the Authorized Officer prior to the placement of the required rock structures.
- 1409 - Slope protection material shall be placed so as to form the cross sections shown on the plans.
- 1410 - Specified embankment slopes shall be protected and/or stabilized by placement of rock materials to form a slope-protection structure conforming to the construction requirements and details of these specifications.

TIMBER SALE ROAD SPECIFICATIONS

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

TIMBER SALE ROAD SPECIFICATIONS

- 1806a - Additional soil stabilization work consisting of seeding and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

- 1808 - Mulch materials conforming to the requirements of Subsections 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1812.

- 1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.

- 1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

- 1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding will not be permitted.

- 1811 - The Purchaser shall furnish and apply to the areas designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806, grass seed, fertilizer, and mulch material at the following rate of application:

b. Dry Application:

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

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

TIMBER SALE ROAD SPECIFICATIONS

ROADSIDE BRUSHING - 2100

- *2101 - This work shall consist of the removal of vegetation from the road prism - variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, and at designated locations as shown in the plans.
- *2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.
- *2103 - Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at D.B.H.O.B. shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs below the 2 inch area will be severed from the trunk.
- 2103a - Vegetation shall be cut and removed from the roadbed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 2 inches above the ground and running surface. Limbs below the 2 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- 2104 - Trees in excess of 6 inches in diameter at D.B.H.O.B shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 12 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2106 - Vegetation capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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Summary of All Roads and Projects

T.S. Contract Name: Frenchie Belieus Tract No: 2025.0030 Sale Date:
Prepared by: JAA Ph: 5417514397 Print Date: 1/30/2025 7:49:52 AM
Construction: 13.75 sta
Improve: 4.50 sta Renov: 434.01 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing*: 4.1 acres	\$14,587.48
300 Excavation: 4700 cy	\$20,540.41
Haul < 500 ft: 6110 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	\$4,170.44
Culvert: 0.00 lf DownSpout: 0.00 lf	
PolyPipe: 76.00 lf	
500 Renovation:	\$21,731.69
Blading 6.10 mi	
Slide & Slough Removal, Ditch Cleaning: 440.00 cy	
700-1200 Surfacing:	\$78,597.80
Commercial Quarry Name: Bridge 1.5-0" Spot 130.00 LCY	
Commercial Quarry Name: Bridge 1.5-0" Surf 1,496.00 LCY	
Commercial Quarry Name: Bridge 3-0" Surf 93.00 LCY	
Commercial Quarry Name: Bridge 6-0" Base 158.00 LCY	
Commercial Quarry Name: Bridge 1.5-0" - Culv 20.00 LCY	
Commercial Quarry Name: Bridge RR - Class 4 40.00 LCY	
Commercial Quarry Name: Bridge 6-0" Surf 320.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 5.30 acres	\$5,407.14
Includes Small Quantity Factor of 1.28	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing**:	\$6,586.62
Mechanical Brushing: 19.0 acres	
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$5,634.88 Surf. \$0.00.....	\$5,634.88
Quarry Development:	\$0.00
Total: =	\$157,256.47

Notes:

- Quantities shown are estimates only and not pay items.
- Surfacing Quantities are loose cubic yards.
- *If not shown may be included in Section 300.
- **If not shown may be included in Section 200.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-17.2 A 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:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$260.99
Blading 0.11 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.10 acres	\$102.02
Includes Small Quantity Factor of 1.28	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.27 acres	\$77.64
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$16.38 Surf. \$0.00.....	\$16.38
Quarry Development:	\$0.00

Total: \$457.02

Notes:

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

Road Construction Worksheet

Road Number: 29-10-17.2 A 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: STANDARD RENOVATION Blading: $\$939.38/\text{mi} \times 0.11 \text{ mi} = \103.33 Compaction: $\$424.32/\text{mi} \times 0.11 \text{ mi} = \46.68 Clean Culverts: $\$514.62/\text{mi} \times 0.11 \text{ mi} = \56.61 COMPACTION TEST - FINISH GRADE Dump Truck 10 cy .5 hr x $\$108.74/\text{hr} = \54.37	Subtotal:	\$260.99
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 Dry Method with Mulch: $\$700.22/\text{acre} \times 0.10 \text{ acres} = \70.02 Includes Small Quantity Factor of 1.28 + Mulch Cost: $\$320.00/\text{acre} \times 0.10 \text{ acres} = \32.00	Subtotal:	\$102.02
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: $\$287.54/\text{acre} \times 0.27 \text{ acres} = \77.64	Subtotal:	\$77.64
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:		

Road Number: 29-10-17.2 A R Continued

Construction - 0.29% of total Costs = \$16.38
Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$16.38

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$457.02

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-17.2 B R Road Name:

Road Renovation: 0.67 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$1,312.84
Blading 0.67 mi	
700-1200 Surfacing:	\$1,021.20
Quarry Name: Bridge 1.5-0" Spot 30.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.10 acres	\$102.02
Includes Small Quantity Factor of 1.28	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):1.62 acres	\$465.81
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$107.85 Surf. \$0.00.....	\$107.85
Quarry Development:	\$0.00

Total: \$3,009.73

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 29-10-17.2 B 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: STANDARD RENOVATION

Blading: \$939.38/mi x 0.67 mi = \$629.38

Compaction: \$424.32/mi x 0.67 mi = \$284.29

Clean Culverts: \$514.62/mi x 0.67 mi = \$344.80

COMPACTION TEST - FINISH GRADE

Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37

Subtotal: \$1,312.84

Section 700-1200 Surfacing:

Commercial Quarry Name: Bridge 1.5-0" Spot

Comment: MP 0.55 SPOT ROCK SURFACING

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									30 LCY

Rock Volume = 30.00 LCY

Purchase Price / Royalty: \$17.92/LCY x 30.00 LCY = \$537.60

Processing: \$1.22/LCY x 30.00 LCY = \$36.60

Compaction: \$1.41/LCY x 30.00 LCY = \$42.30

Basic Rock Haul cost: \$0.85/LCY x 30.00 LCY = \$25.50

Rock Haul -15% grades: \$1.28/LCY-mi x 30.00 LCY x 3.80 mi= \$145.92

Rock Haul St& Co Roads: \$0.57/LCY-mi x 30.00 LCY x 7.60 mi= \$129.96

Basic Water Haul cost: \$0.83/LCY x 30.00 LCY = \$24.90

Water Haul -15% grades: \$0.18/LCY-mi x 30.00 LCY x 3.80 mi= \$20.52

Water Haul St&Co Roads: \$0.10/LCY-mi x 30.00 LCY x 19.30 mi= \$57.90

Subtotal: \$1,021.20

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Comment: ALL EXPOSED SOILS

Dry Method with Mulch: \$700.22/acre x 0.10 acres = \$70.02

Includes Small Quantity Factor of 1.28

+ Mulch Cost: \$320.00/acre x 0.10 acres = \$32.00

Subtotal: \$102.02

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

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

RoadSide Brushing Light: \$287.54/acre x 1.62 acres = \$465.81

Subtotal: \$465.81

Road Number: 29-10-17.2 B R Continued

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 - 1.91% of total Costs = \$107.85		
Surfacing - 1.33% by rock volume = \$0.00		
	Subtotal:	\$107.85
Quarry Development:		
Based on 1.33% of total rock volume		
	Subtotal:	\$0.00
	Total:	\$3,009.73

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-19.0 R Road Name:

Road Renovation: 0.22 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 1.00 acres	\$3,078.67
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$561.05
Blading 0.44 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.30 acres	\$306.06
Includes Small Quantity Factor of 1.28	
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. \$146.64 Surf. \$0.00.....	\$146.64
Quarry Development:	\$0.00

Total: \$4,092.42

Notes:

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

Road Construction Worksheet

Road Number: 29-10-19.0 R 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: \$1,226.56 x Adjustment Factor: 2.51 x Total Acres: 1 = \$3,078.67

Subtotal: \$3,078.67

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: EXTREME GRADE-SHAPE-DITCH-SIDECAST

Blading: $\$939.38/\text{mi} \times 0.44 \text{ mi} = \413.33

Compaction: $\$424.32/\text{mi} \times 0.22 \text{ mi} = \93.35

COMPACTION TEST - FINISH GRADE

Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37

Subtotal: \$561.05

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

Dry Method with Mulch: $\$700.22/\text{acre} \times 0.30 \text{ acres} = \210.06

Includes Small Quantity Factor of 1.28

+ Mulch Cost: $\$320.00/\text{acre} \times 0.30 \text{ acres} = \96.00

Subtotal: \$306.06

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:

Road Number: 29-10-19.0 R Continued

Subtotal: \$0.00

Mobilization:

Construction - 2.60% of total Costs = \$146.64

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$146.64

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$4,092.42

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-20.2 I Road Name:

Road Improvement: 0.09 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.50 acres	\$1,931.83
300 Excavation:	\$1,595.75
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$8,839.20
Quarry Name: Bridge 3-0" Surf 93.00 LCY	
Quarry Name: Bridge 6-0" Base 158.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.20 acres	\$204.04
Includes Small Quantity Factor of 1.28	
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. \$467.18 Surf. \$0.00.....	\$467.18
Quarry Development:	\$0.00

Total: \$13,038.01

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 29-10-20.2 I Road Name:

Section 200 Clearing and Grubbing:

Clearing - Medium (Clearing): Adjustment Factor (1.67)
 16-30% (Avg Side Slopes): Adjustment Factor (0.1)
 Pile and Burn (Slash): Adjustment Factor (1.28)
 20-40' (Avg Clearing Widths): Adjustment Factor (0.1)
 Total Adjustment Factor: 1.67 + 0.1 + 1.28 + 0.1 = 3.15
 Base Cost/Acre: \$1,226.56 x Adjustment Factor: 3.15 x Total Acres: .5 = \$1,931.83
 Subtotal: \$1,931.83

Section 300 Excavation:

EXC+EMB SUBGRADE+2 LDNG
 Tractor: D8 with rippers 5 hr x \$319.15/hr = \$1,595.75
 Subtotal: \$1,595.75

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: INCLUDED IN SECTIONS 200 & 300
 Subtotal: \$0.00

Section 700-1200 Surfacing:

Commercial Quarry Name: Bridge 3-0" Surf

Comment: 4" LIFT SURFACE COURSE

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#Tos</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
0.09mi	12ft	13.3ft	4in						

Rock Volume = 93.00 LCY
 Purchase Price / Royalty: \$17.50/LCY x 93.00 LCY = \$1,627.50
 Processing: \$1.22/LCY x 93.00 LCY = \$113.46
 Compaction: \$1.41/LCY x 93.00 LCY = \$131.13
 Basic Rock Haul cost: \$0.85/LCY x 93.00 LCY = \$79.05
 Rock Haul -15% grades: \$1.28/LCY-mi x 93.00 LCY x 5.20 mi= \$619.01
 Rock Haul St& Co Roads: \$0.57/LCY-mi x 93.00 LCY x 7.60 mi= \$402.88
 Basic Water Haul cost: \$0.83/LCY x 93.00 LCY = \$77.19
 Water Haul -15% grades: \$0.18/LCY-mi x 93.00 LCY x 5.20 mi= \$87.05
 Water Haul St&Co Roads: \$0.10/LCY-mi x 93.00 LCY x 19.30 mi= \$179.49

Commercial Quarry Name: Bridge 6-0" Base

Comment: 6" LIFT BASE COURSE

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#Tos</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
0.09mi	13.3ft	15.3ft	6in						

Rock Volume = 158.00 LCY
 Purchase Price / Royalty: \$16.10/LCY x 158.00 LCY = \$2,543.80
 Processing: \$1.22/LCY x 158.00 LCY = \$192.76
 Compaction: \$1.41/LCY x 158.00 LCY = \$222.78
 Basic Rock Haul cost: \$0.85/LCY x 158.00 LCY = \$134.30
 Rock Haul -15% grades: \$1.28/LCY-mi x 158.00 LCY x 5.20 mi= \$1,051.65
 Rock Haul St& Co Roads: \$0.57/LCY-mi x 158.00 LCY x 7.60 mi= \$684.46
 Basic Water Haul cost: \$0.83/LCY x 158.00 LCY = \$131.14
 Water Haul -15% grades: \$0.18/LCY-mi x 158.00 LCY x 5.20 mi= \$147.89
 Water Haul St&Co Roads: \$0.10/LCY-mi x 158.00 LCY x 19.30 mi= \$304.94
 COMPACTION TEST- SURF / LIFT
 Dump Truck 10 cy 1 hr x \$108.74/hr = \$108.74

Subtotal: \$8,839.20

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL Dry Method with Mulch: $\$700.22/\text{acre} \times 0.20 \text{ acres} = \140.04 Includes Small Quantity Factor of 1.28 + Mulch Cost: $\$320.00/\text{acre} \times 0.20 \text{ acres} = \64.00	Subtotal:	\$204.04
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 - 8.29% of total Costs = \$467.18 Surfacing - 11.12% by rock volume = \$0.00	Subtotal:	\$467.18
Quarry Development: Based on 11.12% of total rock volume	Subtotal:	\$0.00
	Total:	\$13,038.01

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-29.0 R Road Name: Frenchie Creek Road

Road Renovation: 1.96 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.50 acres	\$1,931.83
300 Excavation:	\$2,288.42
400 Drainage:	\$280.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$11,370.19
Blading 3.92 mi	
Slide & Slough Removal, Ditch Cleaning: 350.00 cy	
700-1200 Surfacing:	\$56,845.14
Quarry Name: Bridge 1.5-0" Spot 100.00 LCY	
Quarry Name: Bridge 1.5-0" Surf 1,192.00 LCY	
Quarry Name: Bridge 6-0" Surf 320.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 2.40 acres	\$2,448.52
Includes Small Quantity Factor of 1.28	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):4.80 acres	\$2,300.35
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$2,878.90 Surf. \$0.00.....	\$2,878.90
Quarry Development:	\$0.00
Total:	\$80,343.34

Notes:

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

Road Construction Worksheet

Road Number: 29-10-29.0 R Road Name: Frenchie Creek Road

Section 200 Clearing and Grubbing:

Clearing - Medium (Clearing): Adjustment Factor (1.67)
 16-30% (Avg Side Slopes): Adjustment Factor (0.1)
 Pile and Burn (Slash): Adjustment Factor (1.28)
 20-40' (Avg Clearing Widths): Adjustment Factor (0.1)
 Total Adjustment Factor: 1.67 + 0.1 + 1.28 + 0.1 = 3.15
 Base Cost/Acre: \$1,226.56 x Adjustment Factor: 3.15 x Total Acres: .5 = \$1,931.83
 Subtotal: \$1,931.83

Section 300 Excavation:

COMPACTION TEST - SUBGRADE
 Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37
 EXC+EMB=2 LDG w/APRCH+1ADJ OP
 Tractor: D8 with rippers 7 hr x \$319.15/hr = \$2,234.05
 Subtotal: \$2,288.42

Section 400 Drainage:

CULVERT REPAIR MP 0.18
 Lump sum 1 EA x \$140.00/EA = \$140.00
 CULVERT REPAIR MP 0.43
 LUMP SUM 1 EA x \$140.00/EA = \$140.00
 Subtotal: \$280.00

Section 500 Renovation:

Comment: EXTREME GRADE-SHAPE-DITCH-BUNCH, FAILURE+DITCH ENDHAUL
 Slide Removal 350.00 cy
 Front End Loader \$117.39/hr x 6.00 hr = \$704.34
 Dump Truck: \$108.74/hr x 6.00 hr = \$652.44
 Blading: \$939.38/mi x 3.92 mi = \$3,682.37
 Scarification: \$1137.42/mi x 1.96 mi = \$2,229.34
 Compaction: \$424.32/mi x 1.96 mi = \$831.67
 Clean Culverts: \$514.62/mi x 1.96 mi = \$1,008.66
 TREAT EXIST. STORM DAMAGE
 LOGGING PROCESSOR / LOG LOADER .5 DAY x \$2,214.00/DAY = \$1,107.00
 MOBILIZATION 1 EA x \$1,100.00/EA = \$1,100.00
 COMPACTION TEST - FINISH GRADE
 Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37
 Subtotal: \$11,370.19

Section 700-1200 Surfacing:

Commercial Quarry Name: Bridge 1.5-0" Spot

Comment: MP 1.37 TO 1.96 - SPOT ROCK SURFACING

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

Rock Volume = 100.00 LCY
 Purchase Price / Royalty: \$17.92/LCY x 100.00 LCY = \$1,792.00
 Processing: \$1.22/LCY x 100.00 LCY = \$122.00
 Compaction: \$1.41/LCY x 100.00 LCY = \$141.00
 Basic Rock Haul cost: \$0.85/LCY x 100.00 LCY = \$85.00
 Rock Haul -15% grades: \$1.28/LCY-mi x 100.00 LCY x 5.70 mi= \$729.60
 Rock Haul St& Co Roads: \$0.57/LCY-mi x 100.00 LCY x 7.60 mi= \$433.20
 Basic Water Haul cost: \$0.83/LCY x 100.00 LCY = \$83.00
 Water Haul -15% grades: \$0.18/LCY-mi x 100.00 LCY x 5.70 mi= \$102.60
 Water Haul St&Co Roads: \$0.10/LCY-mi x 100.00 LCY x 19.30 mi= \$193.00

Commercial Quarry Name: Bridge 1.5-0" Surf

Comment: MP 0.00 TO 1.37 - 3" LIFT SURFACING

Road Number: 29-10-29.0 R Frenchie Creek Road Continued

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
1.37mi	12ft	13ft	3in	7%					

Rock Volume = 1,192.00 LCY
 Purchase Price / Royalty: \$17.92/LCY x 1,192.00 LCY = \$21,360.64
 Processing: \$1.22/LCY x 1,192.00 LCY = \$1,454.24
 Compaction: \$1.41/LCY x 1,192.00 LCY = \$1,680.72
 Basic Rock Haul cost: \$0.85/LCY x 1,192.00 LCY = \$1,013.20
 Rock Haul -15% grades: \$1.28/LCY-mi x 1,192.00 LCY x 4.70 mi= \$7,171.07
 Rock Haul St& Co Roads: \$0.57/LCY-mi x 1,192.00 LCY x 7.60 mi= \$5,163.74
 Basic Water Haul cost: \$0.83/LCY x 1,192.00 LCY = \$989.36
 Water Haul -15% grades: \$0.18/LCY-mi x 1,192.00 LCY x 4.70 mi= \$1,008.43
 Water Haul St&Co Roads: \$0.10/LCY-mi x 1,192.00 LCY x 19.30 mi= \$2,300.56

Commercial Quarry Name: Bridge 6-0" Surf
 Comment: MP 0.85 LANDING w/APPRCH SURFACING

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
0.00mi									100 LCY

Rock Volume = 100.00 LCY
 Purchase Price / Royalty: \$16.10/LCY x 100.00 LCY = \$1,610.00
 Processing: \$1.22/LCY x 100.00 LCY = \$122.00
 Compaction: \$1.41/LCY x 100.00 LCY = \$141.00
 Basic Rock Haul cost: \$0.85/LCY x 100.00 LCY = \$85.00
 Rock Haul -15% grades: \$1.28/LCY-mi x 100.00 LCY x 4.90 mi= \$627.20
 Rock Haul St& Co Roads: \$0.57/LCY-mi x 100.00 LCY x 7.60 mi= \$433.20
 Basic Water Haul cost: \$0.83/LCY x 100.00 LCY = \$83.00
 Water Haul -15% grades: \$0.18/LCY-mi x 100.00 LCY x 4.90 mi= \$88.20
 Water Haul St&Co Roads: \$0.10/LCY-mi x 100.00 LCY x 19.30 mi= \$193.00

Commercial Quarry Name: Bridge 6-0" Surf
 Comment: MP 0.96 ADJACENT OP AREA SURFACING

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									30 LCY

Rock Volume = 30.00 LCY
 Purchase Price / Royalty: \$16.10/LCY x 30.00 LCY = \$483.00
 Processing: \$1.22/LCY x 30.00 LCY = \$36.60
 Compaction: \$1.41/LCY x 30.00 LCY = \$42.30
 Basic Rock Haul cost: \$0.85/LCY x 30.00 LCY = \$25.50
 Rock Haul -15% grades: \$1.28/LCY-mi x 30.00 LCY x 5.00 mi= \$192.00
 Rock Haul St& Co Roads: \$0.57/LCY-mi x 30.00 LCY x 7.60 mi= \$129.96
 Basic Water Haul cost: \$0.83/LCY x 30.00 LCY = \$24.90
 Water Haul -15% grades: \$0.18/LCY-mi x 30.00 LCY x 5.00 mi= \$27.00
 Water Haul St&Co Roads: \$0.10/LCY-mi x 30.00 LCY x 19.30 mi= \$57.90

Commercial Quarry Name: Bridge 6-0" Surf
 Comment: MP 1.37 LANDING w/APPRCH SURFACING

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
0.00mi									190 LCY

Rock Volume = 190.00 LCY
 Purchase Price / Royalty: \$16.10/LCY x 190.00 LCY = \$3,059.00
 Processing: \$1.22/LCY x 190.00 LCY = \$231.80
 Compaction: \$1.41/LCY x 190.00 LCY = \$267.90
 Basic Rock Haul cost: \$0.85/LCY x 190.00 LCY = \$161.50
 Rock Haul -15% grades: \$1.28/LCY-mi x 190.00 LCY x 5.40 mi= \$1,313.28
 Rock Haul St& Co Roads: \$0.57/LCY-mi x 190.00 LCY x 7.60 mi= \$823.08
 Basic Water Haul cost: \$0.83/LCY x 190.00 LCY = \$157.70
 Water Haul -15% grades: \$0.18/LCY-mi x 190.00 LCY x 5.40 mi= \$184.68
 Water Haul St&Co Roads: \$0.10/LCY-mi x 190.00 LCY x 19.30 mi= \$366.70
 COMPACTION TEST- SURF / LIFT
 Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37

Subtotal: \$56,845.14

Section 1300 Geotextiles:

Subtotal: \$0.00

Road Number: 29-10-29.0 R Frenchie Creek Road Continued

Section 1400 Slope Protection:	Subtotal:	\$0.00
Section 1800 Soil Stabilization: Comment: ALL EXPOSED SOIL & WASTE SITES Dry Method with Mulch: \$700.22/acre x 2.40 acres = \$1,680.52 Includes Small Quantity Factor of 1.28 + Mulch Cost: \$320.00/acre x 2.40 acres = \$768.00	Subtotal:	\$2,448.52
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Mechanical Brushing RoadSide Brushing Medium: \$479.24/acre x 4.80 acres = \$2,300.35	Subtotal:	\$2,300.35
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 - 51.09% of total Costs = \$2,878.90 Surfacing - 71.42% by rock volume = \$0.00	Subtotal:	\$2,878.90
Quarry Development: Based on 71.42% of total rock volume	Subtotal:	\$0.00
	Total:	\$80,343.34

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-9.1 R Road Name:

Road Renovation: 0.15 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$2,047.60
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 40.00 lf	
500 Renovation:	\$732.86
Blading 0.15 mi	
Slide & Slough Removal, Ditch Cleaning: 30.00 cy	
700-1200 Surfacing:	\$626.07
Quarry Name: Bridge 1.5-0" - Culv 20.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.20 acres	\$204.04
Includes Small Quantity Factor of 1.28	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.36 acres	\$172.53
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$140.60 Surf. \$0.00.....	\$140.60
Quarry Development:	\$0.00

Total: \$3,923.69

Notes:

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

Road Construction Worksheet

Road Number: 29-10-9.1 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Poly Pipe MP 0.11 NEW XDRN 18 inch 40 lf x \$51.19/lf = \$2,047.60
 Subtotal: \$2,047.60

Section 500 Renovation:

Comment: GRADE-SHAPE-DITCH-BUNCH, DITCH ENDHAUL
 Slide Removal 30.00 cy
 Front End Loader \$117.39/hr x 1.00 hr = \$117.39
 Dump Truck: \$108.74/hr x 1.00 hr = \$108.74
 Blading: \$939.38/mi x 0.15 mi = \$140.91
 Scarification: \$1137.42/mi x 0.15 mi = \$170.61
 Compaction: \$424.32/mi x 0.15 mi = \$63.65
 Clean Culverts: \$514.62/mi x 0.15 mi = \$77.19
 COMPACTION TEST - FINISH GRADE
 Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37
 Subtotal: \$732.86

Section 700-1200 Surfacing:

Commercial Quarry Name: Bridge 1.5-0" - Culv

Comment: CULVERT BEDDING+SIDE+SURFACING

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#Tos</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
									20 LCY
Rock Volume = 20.00 LCY									
Purchase Price / Royalty: \$17.92/LCY x 20.00 LCY = \$358.40									
Processing: \$1.22/LCY x 20.00 LCY = \$24.40									
Compaction: \$1.41/LCY x 20.00 LCY = \$28.20									
Basic Rock Haul cost: \$0.85/LCY x 20.00 LCY = \$17.00									
Rock Haul -15% grades: \$1.28/LCY-mi x 20.00 LCY x 1.91 mi= \$48.90									
Rock Haul St& Co Roads: \$0.57/LCY-mi x 20.00 LCY x 7.64 mi= \$87.10									
Basic Water Haul cost: \$0.83/LCY x 20.00 LCY = \$16.60									
Water Haul -15% grades: \$0.18/LCY-mi x 20.00 LCY x 1.91 mi= \$6.88									
Water Haul St&Co Roads: \$0.10/LCY-mi x 20.00 LCY x 19.30 mi= \$38.60									
									Subtotal: \$626.07

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Comment: ALL EXPOSED SOIL
 Dry Method with Mulch: \$700.22/acre x 0.20 acres = \$140.04
 Includes Small Quantity Factor of 1.28
 + Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00
 Subtotal: \$204.04

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Road Number: 29-10-9.1 R Continued

Mechanical Brushing

RoadSide Brushing Medium: $\$479.24/\text{acre} \times 0.36 \text{ acres} = \172.53

Subtotal: \$172.53

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 - 2.50% of total Costs = \$140.60

Surfacing - 0.89% by rock volume = \$0.00

Subtotal: \$140.60

Quarry Development:

Based on 0.89% of total rock volume

Subtotal: \$0.00

Total: \$3,923.69

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-9.2 A R Road Name:

Road Renovation: 0.30 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$1,562.14
Blading 0.30 mi	
Slide & Slough Removal, Ditch Cleaning: 60.00 cy	
700-1200 Surfacing:	\$11,266.19
Quarry Name: Bridge 1.5-0" Surf 304.00 LCY	
Quarry Name: Bridge RR - Class 4 40.00 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.40 acres	\$408.09
Includes Small Quantity Factor of 1.28	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):0.85 acres	\$407.35
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$507.06 Surf. \$0.00.....	\$507.06
Quarry Development:	\$0.00

Total: \$14,150.83

Notes:

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

Road Construction Worksheet

Road Number: 29-10-9.2 A 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, DITCH ENDHAUL
Slide Removal 60.00 cy
Front End Loader \$117.39/hr x 2.00 hr = \$234.78
Dump Truck: \$108.74/hr x 2.00 hr = \$217.48
Blading: \$939.38/mi x 0.30 mi = \$328.78
Scarification: \$1137.42/mi x 0.30 mi = \$398.10
Compaction: \$424.32/mi x 0.30 mi = \$148.51
Clean Culverts: \$514.62/mi x 0.30 mi = \$180.12
COMPACTION TEST - FINISH GRADE
Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37

Subtotal: \$1,562.14

Section 700-1200 Surfacing:

Commercial Quarry Name: Bridge 1.5-0" Surf

Comment: 3" LIFT SURFACE COURSE

Table with 10 columns: Length, TopW, BotW, Depth, CWid, #TOs, Width, F.W.L, Taper, Other. Row 1: 0.30mi, 12ft, 13ft, 3in, 7%, #TOs, Width, F.W.L, Taper, Other

Rock Volume = 304.00 LCY
Purchase Price / Royalty: \$17.92/LCY x 304.00 LCY = \$5,447.68
Processing: \$1.22/LCY x 304.00 LCY = \$370.88
Compaction: \$1.41/LCY x 304.00 LCY = \$428.64
Basic Rock Haul cost: \$0.85/LCY x 304.00 LCY = \$258.40
Rock Haul -15% grades: \$1.28/LCY-mi x 304.00 LCY x 2.10 mi= \$817.15
Rock Haul St& Co Roads: \$0.57/LCY-mi x 304.00 LCY x 7.60 mi= \$1,316.93
Basic Water Haul cost: \$0.83/LCY x 304.00 LCY = \$252.32
Water Haul -15% grades: \$0.18/LCY-mi x 304.00 LCY x 2.10 mi= \$114.91
Water Haul St&Co Roads: \$0.10/LCY-mi x 304.00 LCY x 19.30 mi= \$586.72

Commercial Quarry Name: Bridge RR - Class 4

Comment: MP 0.12 CULVERT OUTLET ARMORING

Table with 10 columns: Length, TopW, BotW, Depth, CWid, #TOs, Width, F.W.L, Taper, Other. Row 1: Length, TopW, BotW, Depth, CWid, #TOs, Width, F.W.L, Taper, Other 40 LCY

Rock Volume = 40.00 LCY
Purchase Price / Royalty: \$32.69/LCY x 40.00 LCY = \$1,307.60
Basic Rock Haul cost: \$0.85/LCY x 40.00 LCY = \$34.00
Rock Haul -15% grades: \$1.28/LCY-mi x 40.00 LCY x 2.00 mi= \$102.40
Rock Haul St& Co Roads: \$0.57/LCY-mi x 40.00 LCY x 7.64 mi= \$174.19
COMPACTION TEST- SURF / LIFT
Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37

Subtotal: \$11,266.19

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Road Number: 29-10-9.2 A R Continued

Comment: ALL EXPOSED SOIL

Dry Method with Mulch: $\$700.22/\text{acre} \times 0.40 \text{ acres} = \280.09

Includes Small Quantity Factor of 1.28

+ Mulch Cost: $\$320.00/\text{acre} \times 0.40 \text{ acres} = \128.00

Subtotal: \$408.09

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Medium: $\$479.24/\text{acre} \times 0.85 \text{ acres} = \407.35

Subtotal: \$407.35

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 - 9.00% of total Costs = \$507.06

Surfacing - 15.24% by rock volume = \$0.00

Subtotal: \$507.06

Quarry Development:

Based on 15.24% of total rock volume

Subtotal: \$0.00

Total: \$14,150.83

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-10-9.2 B R Road Name:

Road Renovation: 4.58 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.00 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$5,000.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.00 acres	\$1,020.22
Includes Small Quantity Factor of 1.28	
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Mechanical):11.00 acres	\$3,162.94
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$341.28 Surf. \$0.00.....	\$341.28
Quarry Development:	\$0.00
Total:	\$9,524.44

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 29-10-9.2 B 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-WATER-COMPACT-CULV CLEAN GRADE-SHAPE-WATER-COMP-CULV LUMP SUM 1 EA x \$5,000.00/EA = \$5,000.00	Subtotal:	\$5,000.00
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 Dry Method with Mulch: \$700.22/acre x 1.00 acres = \$700.22 Includes Small Quantity Factor of 1.28 + Mulch Cost: \$320.00/acre x 1.00 acres = \$320.00	Subtotal:	\$1,020.22
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing: Mechanical Brushing Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Light: \$287.54/acre x 11.00 acres = \$3,162.94	Subtotal:	\$3,162.94
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 - 6.06% of total Costs = \$341.28 Surfacing - 0.00% by rock volume = \$0.00	Subtotal:	\$341.28

Road Number: 29-10-9.2 B R Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$9,524.44

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-11-25.0 R Road Name:

Road Renovation: 0.23 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.80 acres	\$2,462.93
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$931.63
Blading 0.46 mi	
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.30 acres	\$306.06
Includes Small Quantity Factor of 1.28	
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. \$137.53 Surf. \$0.00.....	\$137.53
Quarry Development:	\$0.00

Total: \$3,838.15

Notes:

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

Road Construction Worksheet

Road Number: 29-11-25.0 R 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: \$1,226.56 x Adjustment Factor: 2.51 x Total Acres: .8 = \$2,462.93
 Subtotal: \$2,462.93

Section 300 Excavation: Subtotal: \$0.00

Section 400 Drainage: Subtotal: \$0.00

Section 500 Renovation:
 Comment: EXTREME GRADE-SHAPE-DITCH, DITCH SIDECAST
 Blading: $\$939.38/\text{mi} \times 0.46 \text{ mi} = \432.11
 Scarification: $\$1137.42/\text{mi} \times 0.23 \text{ mi} = \261.61
 Compaction: $\$424.32/\text{mi} \times 0.23 \text{ mi} = \97.59
 Clean Culverts (ea): $\$85.94/\text{ea} \times 1 \text{ ea} = \85.94
 COMPACTION TEST - FINISH GRADE
 Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37
 Subtotal: \$931.63

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
 Dry Method with Mulch: $\$700.22/\text{acre} \times 0.30 \text{ acres} = \210.06
 Includes Small Quantity Factor of 1.28
 + Mulch Cost: $\$320.00/\text{acre} \times 0.30 \text{ acres} = \96.00
 Subtotal: \$306.06

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

Road Number: 29-11-25.0 R Continued

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.44% of total Costs = \$137.53

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$137.53

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,838.15

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: 29-11-25.2 C Road Name:

Road Construction: 0.18 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.90 acres	\$3,587.69
300 Excavation: Standard cy	\$10,991.91
Haul < 500 ft: 4,030.00 sta-yds	
400 Drainage:	\$1,842.84
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 36.00 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.20 acres	\$204.04
Includes Small Quantity Factor of 1.28	
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. \$617.91 Surf. \$0.00.....	\$617.91
Quarry Development:	\$0.00

Total: \$17,244.39

Notes:

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

Road Construction Worksheet

Road Number: 29-11-25.2 C Road Name:

Section 200 Clearing and Grubbing:

Clearing - Medium (Clearing): Adjustment Factor (1.67)
 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: 1.67 + 0.2 + 1.28 + 0.1 = 3.25
 Base Cost/Acre: \$1,226.56 x Adjustment Factor: 3.25 x Total Acres: .9 = \$3,587.69
 Subtotal: \$3,587.69

Section 300 Excavation:

Comment: SUBGRADE + END LANDING
 Excavation - Common: \$2.69/cy x 3,100.00 cy = \$8,339.00
 Embankment Placement & Compaction 306.f - Common: \$0.40/cy x 3,100.00 cy = \$1,240.00
 Subgrade Compaction: 4 Sta/hr \$35.36/sta. x 9.5 sta = \$335.92
 End Hauling - 100 to 500 ft: \$0.21/sta-yd x 4,030.00 sta-yd = \$846.30
 Blading with ditch: \$18.56/station x 9.50 stations = \$176.32
 COMPACTION TEST - FINISH GRADE
 Dump Truck 10 cy .5 hr x \$108.74/hr = \$54.37
 Subtotal: \$10,991.91

Section 400 Drainage:

Poly Pipe STA 6+50 NEW XDRN 18 inch 36 lf x \$51.19/lf = \$1,842.84
 Subtotal: \$1,842.84

Section 500 Renovation:

Subtotal: \$0.00

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
 Dry Method with Mulch: \$700.22/acre x 0.20 acres = \$140.04
 Includes Small Quantity Factor of 1.28
 + Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00
 Subtotal: \$204.04

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:

Road Number: 29-11-25.2 C Continued

	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
	Subtotal:	\$0.00
Mobilization:		
Construction - 10.97% of total Costs = \$617.91		
Surfacing - 0.00% by rock volume = \$0.00		
	Subtotal:	\$617.91
Quarry Development:		
Based on 0.00% of total rock volume		
	Subtotal:	\$0.00
	Total:	\$17,244.39

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number: SWING ROAD C Road Name:

Road Construction: 0.08 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.40 acres	\$1,594.53
300 Excavation: Standard cy	\$5,664.33
Haul < 500 ft: 2,080.00 sta-yds	
400 Drainage:	\$0.00
Culvert: 0.00 lf	
DownSpout: 0.00 lf	
PolyPipe: 0.00 lf	
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.10 acres	\$102.02
Includes Small Quantity Factor of 1.28	
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. \$273.56 Surf. \$0.00.....	\$273.56
Quarry Development:	\$0.00
Total:	\$7,634.44

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 - Medium (Clearing): Adjustment Factor (1.67)
 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: $1.67 + 0.2 + 1.28 + 0.1 = 3.25$
 Base Cost/Acre: \$1,226.56 x Adjustment Factor: 3.25 x Total Acres: .4 = \$1,594.53
 Subtotal: \$1,594.53

Section 300 Excavation:

Comment: SUBGRADE + END LANDING
 Excavation - Common: $\$2.69/cy \times 1,600.00 \text{ cy} = \$4,304.00$
 Embankment Placement & Compaction 306.f - Common: $\$0.40/cy \times 1,600.00 \text{ cy} = \640.00
 Subgrade Compaction: 4 Sta/hr $\$35.36/sta. \times 4.3 \text{ sta} = \150.28
 End Hauling - 100 to 500 ft: $\$0.21/sta-yd \times 2,080.00 \text{ sta-yd} = \436.80
 Blading with ditch: $\$18.56/station \times 4.25 \text{ stations} = \78.88
 COMPACTION TEST - FINISH GRADE
 Dump Truck 10 cy .5 hr x $\$108.74/hr = \54.37
 Subtotal: \$5,664.33

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

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
 Dry Method with Mulch: $\$700.22/acre \times 0.10 \text{ acres} = \70.02
 Includes Small Quantity Factor of 1.28
 + Mulch Cost: $\$320.00/acre \times 0.10 \text{ acres} = \32.00
 Subtotal: \$102.02

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

Road Number: SWING ROAD C Continued

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 4.85% of total Costs = \$273.56

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$273.56

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$7,634.44

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Frenchie Belieus Sale Date:

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Comment: Initial mobilization + Unit-to-unit equipment roading

Fire Equipment:	1 ea x (1.00 x \$98.00/ea + 6 mi x \$5.43/mi)= \$130.58
Graders-all:	1 ea x (1.00 x \$558.00/ea + 6 mi x \$18.75/mi)= \$670.50
Loaders < 3cy:	1 ea x (1.00 x \$558.00/ea + 6 mi x \$11.74/mi)= \$628.44
Rollers & Comp:	1 ea x (1.00 x \$558.00/ea + 6 mi x \$28.29/mi)= \$727.74
Excavators (Lg):	1 ea x (1.00 x \$1208.00/ea + 6 mi x \$33.94/mi)= \$1,411.64
Tractors >= D8:	1 ea x (1.00 x \$1208.00/ea + 6 mi x \$63.83/mi)= \$1,590.98
Dump Truck<=15cy:	1 ea x (1.00 x \$130.00/ea + 0 mi x \$5.44/mi)= \$130.00
Water Truck:	2 ea x (1.00 x \$138.00/ea + 6 mi x \$5.75/mi)= \$345.00

Subtotal: \$5,634.88

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: Frenchie Belieus Sale Date:

Road Number	Const	Improv	Renov	Decomm	Temp
29-10-17.2 A R			5.81		
29-10-17.2 B R			35.38		
29-10-19.0 R			11.5		
29-10-20.2 I		4.5			
29-10-29.0 R			103.49		
29-10-9.1 R			7.92		
29-10-9.2 A R			15.84		
29-10-9.2 B R			241.82		
29-11-25.0 R			12.25		
29-11-25.2 C	9.5				
SWING ROAD C	4.25				
Total Sta:	<u>13.75</u>	<u>4.50</u>	<u>434.01</u>		

200 Clearing and Grubbing*	Clearing acres
29-10-17.2 A R	0.0
29-10-17.2 B R	0.0
29-10-19.0 R	1.0
29-10-20.2 I	0.5
29-10-29.0 R	0.5
29-10-9.1 R	0.0
29-10-9.2 A R	0.0
29-10-9.2 B R	0.0
29-11-25.0 R	0.8
29-11-25.2 C	0.9
SWING ROAD C	0.4
Totals:	<u>4.10</u>

300 Excavation	Excav LCY.s	Haul sta-yds	Haul yd-mi
29-11-25.2 C	3,100	4,030	0
SWING ROAD C	1,600	2,080	0
Totals:	<u>4,700</u>	<u>6,110</u>	<u>0</u>

COMPACTION TEST - FINISH GRADE	SWING ROAD C	
Dump Truck 10 cy		.5 hr
COMPACTION TEST - FINISH GRADE	29-11-25.2 C	
Dump Truck 10 cy		.5 hr
COMPACTION TEST - SUBGRADE	29-10-29.0 R	
Dump Truck 10 cy		.5 hr
EXC+EMB SUBGRADE+2 LDNG	29-10-20.2 I	
Tractor: D8 with rippers		5 hr
EXC+EMB=2 LDG w/APRCH+1ADJ OP	29-10-29.0 R	
Tractor: D8 with rippers		7 hr

Continuation of Construction Quantities

400 Drainage

Road Number	CMP Culvert	Polypipes	Downspouts
29-10-9.1 R	0 lf	40 lf	0 lf
29-11-25.2 C	0 lf	36 lf	0 lf

Total Drainage: 76 lf

Culvert Qty	Aluminized	Galvanized	Poly Pipe
12 inch	0 lf	0 lf	
18 inch	0 lf	0 lf	76 lf
24 inch	0 lf	0 lf	0 lf
30 inch	0 lf	0 lf	0 lf
36 inch	0 lf	0 lf	0 lf
42 inch	0 lf	0 lf	
48 inch	0 lf	0 lf	

CULVERT REPAIR MP 0.18	29-10-29.0 R		
Lump sum			1 EA
CULVERT REPAIR MP 0.43	29-10-29.0 R		
LUMP SUM			1 EA

500 Renovation

	Blade Miles	Slide cy
29-10-17.2 A R	0.11	0
29-10-17.2 B R	0.67	0
29-10-19.0 R	0.44	0
29-10-29.0 R	3.92	350
29-10-9.1 R	0.15	30
29-10-9.2 A R	0.30	60
29-11-25.0 R	0.46	0

Totals: 6.10 440

COMPACTION TEST - FINISH GRADE	29-11-25.0 R		
Dump Truck 10 cy5 hr
COMPACTION TEST - FINISH GRADE	29-10-29.0 R		
Dump Truck 10 cy5 hr
COMPACTION TEST - FINISH GRADE	29-10-9.2 A R		
Dump Truck 10 cy5 hr
COMPACTION TEST - FINISH GRADE	29-10-9.1 R		
Dump Truck 10 cy5 hr
COMPACTION TEST - FINISH GRADE	29-10-19.0 R		
Dump Truck 10 cy5 hr
COMPACTION TEST - FINISH GRADE	29-10-17.2 A R		
Dump Truck 10 cy5 hr
COMPACTION TEST - FINISH GRADE	29-10-17.2 B R		
Dump Truck 10 cy5 hr
GRADE-SHAPE-WATER-COMP-CULV	29-10-9.2 B R		
LUMP SUM			1 EA
TREAT EXIST. STORM DAMAGE	29-10-29.0 R		
LOGGING PROCESSOR / LOG LOADER5 DAY
MOBILIZATION			1 EA

Continuation of Construction Quantities

Surfacing (Loose Cubic Yards)

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

Quarry Name: Bridge 1.5-0" Spot				
Commercial	Roadway	Turnouts	Other	
29-10-17.2 B R	0	0	30	30
29-10-29.0 R	0	0	100	100
Totals:	<u>0</u>	<u>0</u>	<u>130</u>	<u>130</u>

Quarry Name: Bridge 1.5-0" Surf				
Commercial	Roadway	Turnouts	Other	
29-10-9.2 A R	304	0	0	304
29-10-29.0 R	1,192	0	0	1,192
Totals:	<u>1,496</u>	<u>0</u>	<u>0</u>	<u>1,496</u>

Quarry Name: Bridge 3-0" Surf				
Commercial	Roadway	Turnouts	Other	
29-10-20.2 I	93	0	0	93
Totals:	<u>93</u>	<u>0</u>	<u>0</u>	<u>93</u>

Quarry Name: Bridge 6-0" Base				
Commercial	Roadway	Turnouts	Other	
29-10-20.2 I	158	0	0	158
Totals:	<u>158</u>	<u>0</u>	<u>0</u>	<u>158</u>

Quarry Name: Bridge 1.5-0" - Culv				
Commercial	Roadway	Turnouts	Other	
29-10-9.1 R	0	0	20	20
Totals:	<u>0</u>	<u>0</u>	<u>20</u>	<u>20</u>

Quarry Name: Bridge RR - Class 4				
Commercial	Roadway	Turnouts	Other	
29-10-9.2 A R	0	0	40	40
Totals:	<u>0</u>	<u>0</u>	<u>40</u>	<u>40</u>

Quarry Name: Bridge 6-0" Surf (2x Landing w/Approach + 1x Adj. OP Area)				
Commercial	Roadway	Turnouts	Other	
29-10-29.0 R	0	0	100	100
29-10-29.0 R	0	0	30	30
29-10-29.0 R	0	0	190	190
Totals:	<u>0</u>	<u>0</u>	<u>320</u>	<u>320</u>

COMPACTION TEST- SURF / LIFT	29-10-29.0 R	
Dump Truck 10 cy		.5 hr
COMPACTION TEST- SURF / LIFT	29-10-20.2 I	
Dump Truck 10 cy		1 hr
COMPACTION TEST- SURF / LIFT	29-10-9.2 A R	
Dump Truck 10 cy		.5 hr

Continuation of Construction Quantities

1300 Geotextiles
 Totals: No Quantities

1400 Slope Protection
 Totals: 0 cy
 Totals: 0

1800 Soil stabilization - acres****	Dry W/O Mulch	Dry/with Mulch	Hydro Mulch
Totals:	<u>0.00</u>	<u>5.30</u>	<u>0.00</u>

Small Quantity Factor of 1.28 used

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

1900 Cattleguards
 Totals: No Quantities

2100 RoadSide Brushing	acres
29-10-17.2 A R - Mechanical Brushing	0.3
29-10-17.2 B R - Mechanical Brushing	1.6
29-10-29.0 R - Mechanical Brushing	4.8
29-10-9.1 R - Mechanical Brushing	0.4
29-10-9.2 A R - Mechanical Brushing	0.9
29-10-9.2 B R - Mechanical Brushing	11.0
Totals:	<u>19.0</u>

2300 Engineering	stations
Totals:	<u>0.00</u>

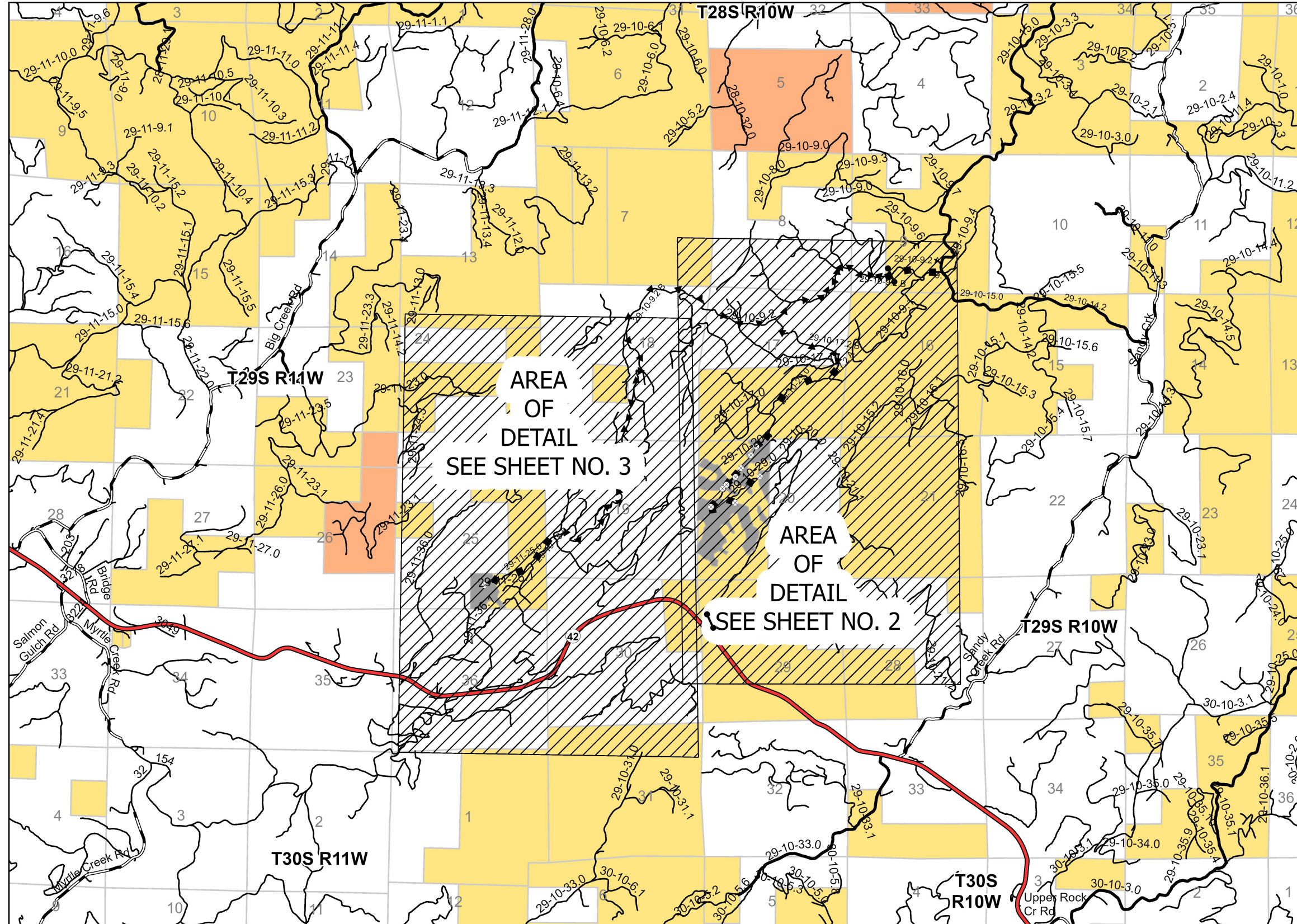
2400 Minor Concrete
 Totals: No Quantities

2500 Gabions
 Totals: No Quantities

8000 Miscellaneous
 Totals: No Quantities

ORC04-TS-2025.0030
 FRENCHIE BELIEUS
 EXHIBIT D

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



SHEET NO.	CONTENTS
1	TITLE SHEET
2-3	WORK LOCATION MAPS
4	ESTIMATE OF QUANTITIES
5	BARRIER & EROSION CONTROL DETAILS
6	STEEL GATE DETAILS
7-13	ROAD MAINTENANCE SPECIFICATIONS

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

**EXHIBIT D
 TITLE SHEET**

PREPARED:	J. AGUILAR
REVIEWED:	B. KEANE
APPROVED:	V. LENHARTZEN

DRAWN: JAA	SCALE: AS SHOWN
DATE 01/2025	SHEET 1 OF 13



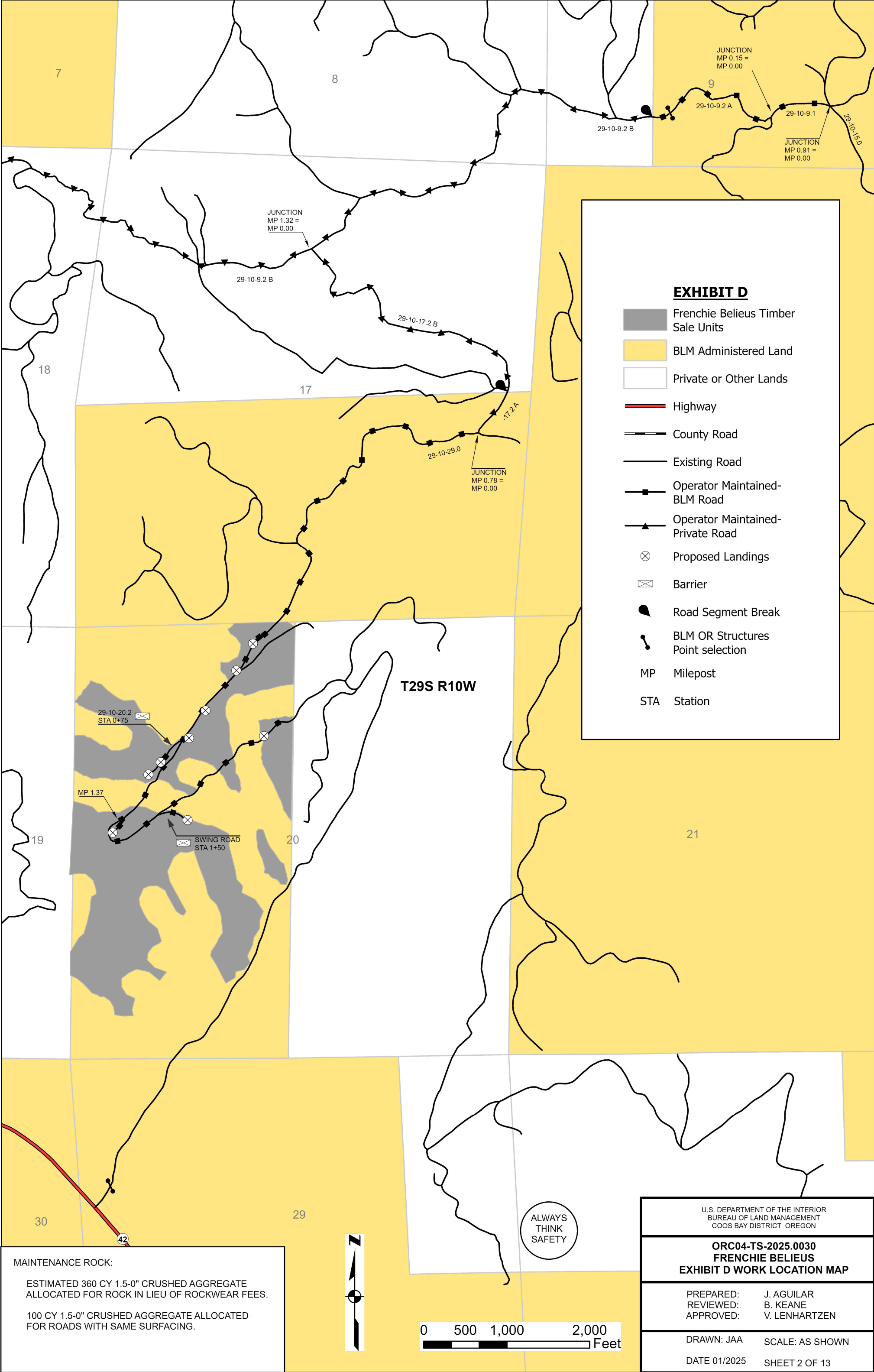
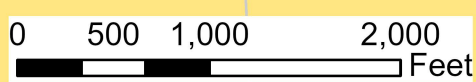


EXHIBIT D

- Frenchie Belieus Timber Sale Units
- BLM Administered Land
- Private or Other Lands
- Highway
- County Road
- Existing Road
- Operator Maintained- BLM Road
- ▲ Operator Maintained- Private Road
- ⊗ Proposed Landings
- ⊠ Barrier
- Road Segment Break
- BLM OR Structures Point selection
- MP Milepost
- STA Station

T29S R10W













MAINTENANCE ROCK:
 ESTIMATED 360 CY 1.5-0" CRUSHED AGGREGATE ALLOCATED FOR ROCK IN LIEU OF ROCKWEAR FEES.
 100 CY 1.5-0" CRUSHED AGGREGATE ALLOCATED FOR ROADS WITH SAME SURFACING.

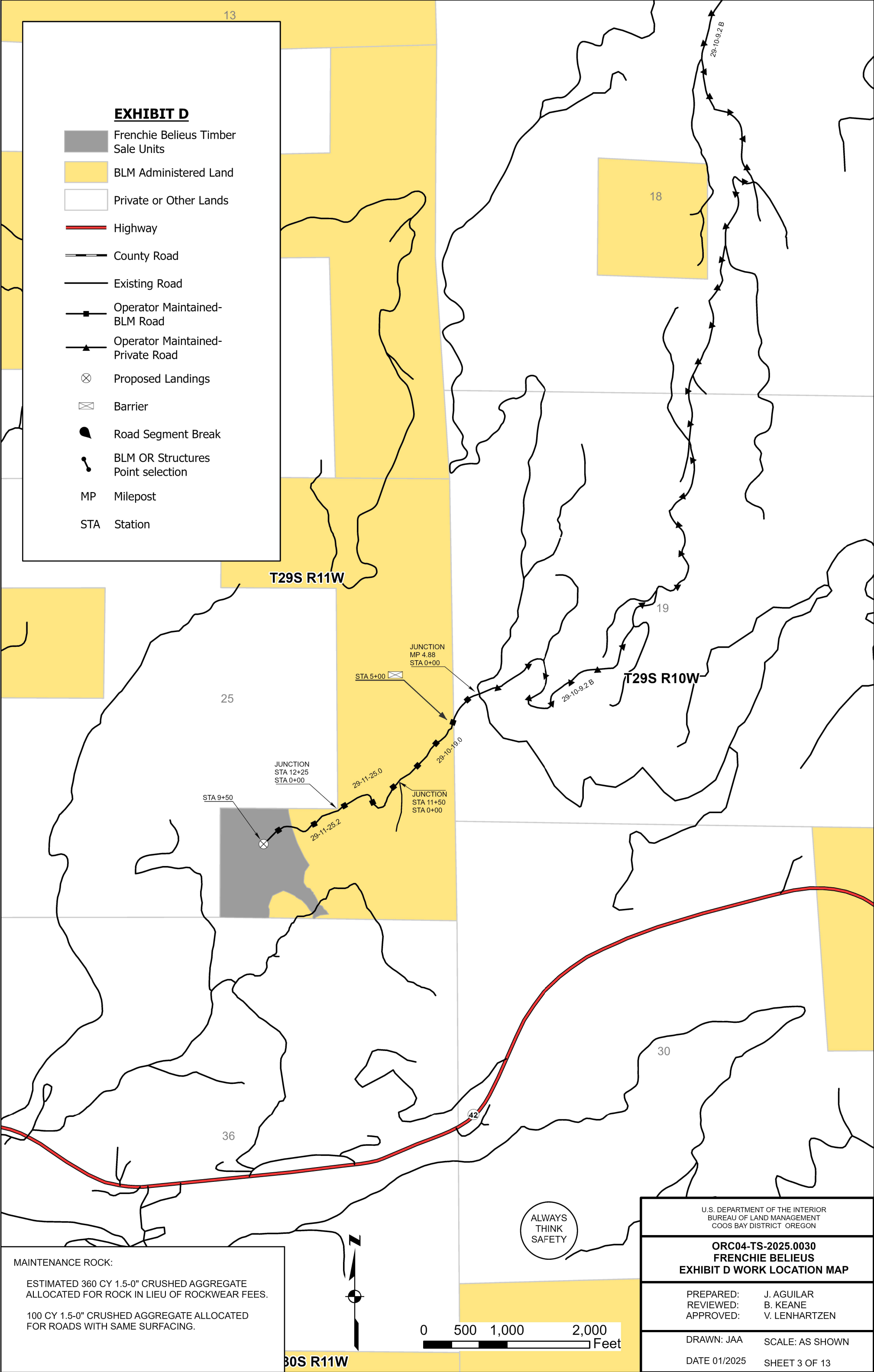


ALWAYS THINK SAFETY

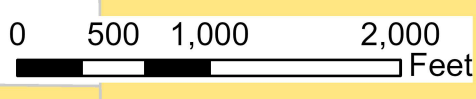
U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS EXHIBIT D WORK LOCATION MAP	
PREPARED:	J. AGUILAR
REVIEWED:	B. KEANE
APPROVED:	V. LENHARTZEN
DRAWN: JAA	SCALE: AS SHOWN
DATE 01/2025	SHEET 2 OF 13

EXHIBIT D

-  Frenchie Belieus Timber Sale Units
-  BLM Administered Land
-  Private or Other Lands
-  Highway
-  County Road
-  Existing Road
-  Operator Maintained-
BLM Road
-  Operator Maintained-
Private Road
-  Proposed Landings
-  Barrier
-  Road Segment Break
-  BLM OR Structures
Point selection
- MP Milepost
- STA Station



MAINTENANCE ROCK:
 ESTIMATED 360 CY 1.5-0" CRUSHED AGGREGATE
 ALLOCATED FOR ROCK IN LIEU OF ROCKWEAR FEES.
 100 CY 1.5-0" CRUSHED AGGREGATE ALLOCATED
 FOR ROADS WITH SAME SURFACING.


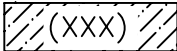


ALWAYS
 THINK
 SAFETY

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS EXHIBIT D WORK LOCATION MAP	
PREPARED:	J. AGUILAR
REVIEWED:	B. KEANE
APPROVED:	V. LENHARTZEN
DRAWN: JAA	SCALE: AS SHOWN
DATE 01/2025	SHEET 3 OF 13

30S R11W

ROAD NUMBER	SURFACING (*1, *2)		OTHER (*1)				
	3-0" MAINT. ROCK (*3, 4)	1.5-0" MAINT. ROCK (*6)	WATER BAR	STEEL GATE BARRIER	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
29-10-9.1							
29-10-9.2		(260)					
29-10-17.2		(100)					
29-10-19.0				1			
29-10-20.2					1		
29-10-29.0							
29-11-25.0							
29-11-25.2							
SWING ROAD					1		
PROJECT TOTALS:		460	25	1	2		2.1

 TREATMENT ALLOCATED TO ROAD.
 ESTIMATED VALUE ALLOCATED.

*NOTE			
*	SECTION	GRADE	SIZE
4	1000	A	3-0"
5	1000	I	6-0"
6	1200	C	1.5-0"
7	1200	E1	0.75-0"
8	1400	CLASS 3	27-8"
9	1400	CLASS 4	33-9"
10	2600	ODOT LEVEL III ASPHALT	1/2" DENSE PG-64-22

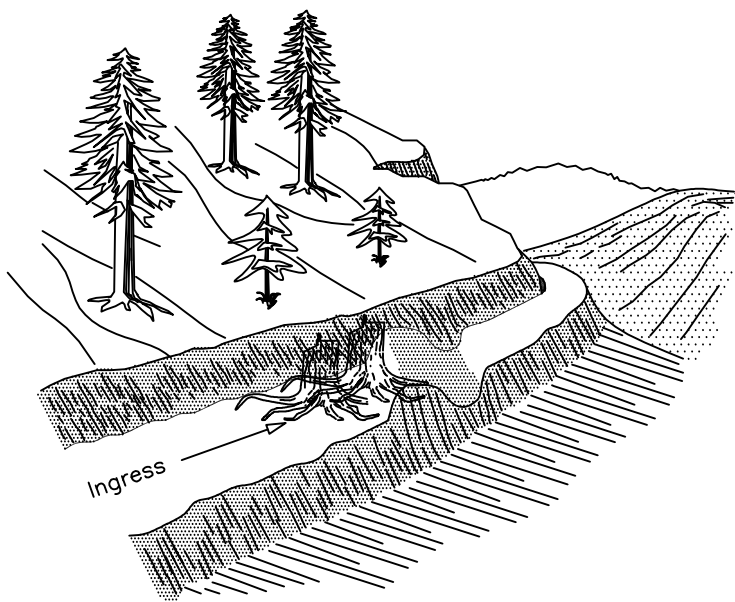
- *1 FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS.
- *2 ALL ROCK QUANTITIES ARE TRUCK MEASUREMENT (LOOSE).
- *3 BASE COURSE ROCK MAY BE ALLOCATED TO PURCHASER SELECT LANDINGS AND ADJACENT OPERATIONAL AREAS APPROVED BY AUTHORIZED OFFICER.

ESTIMATE OF QUANTITIES (*1)

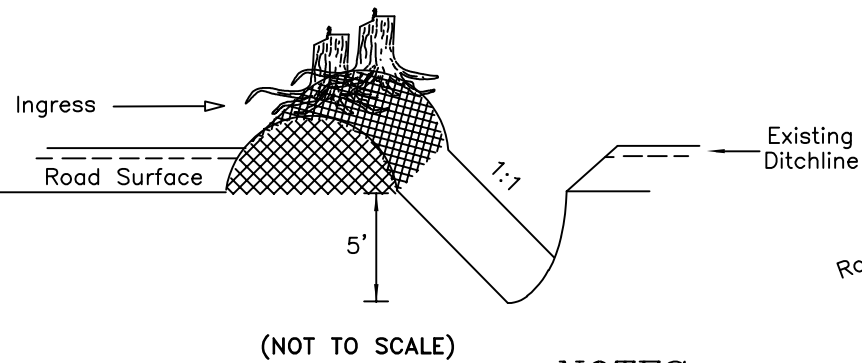


U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS	
EXHIBIT D ESTIMATE OF QUANTITIES	
DESIGNED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DRAWN JAA	SCALE NONE
DATE 01/2025	SHEET 4 OF 13

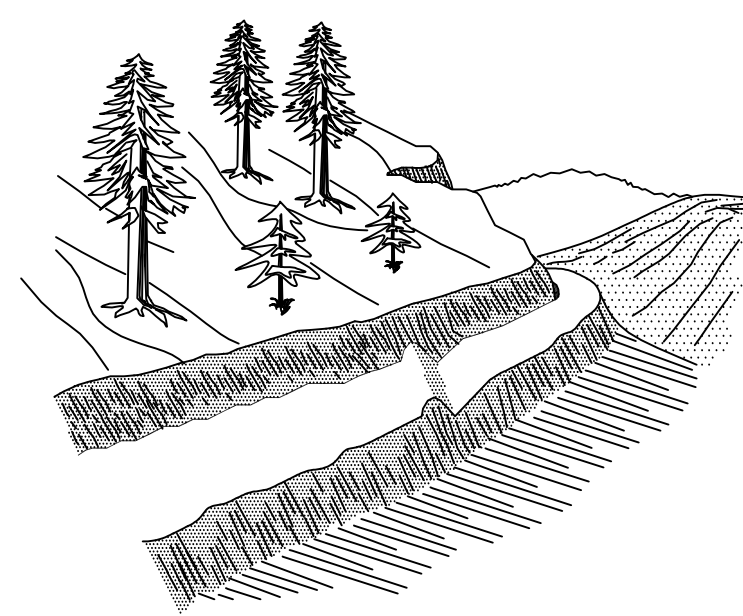
EXHIBIT D



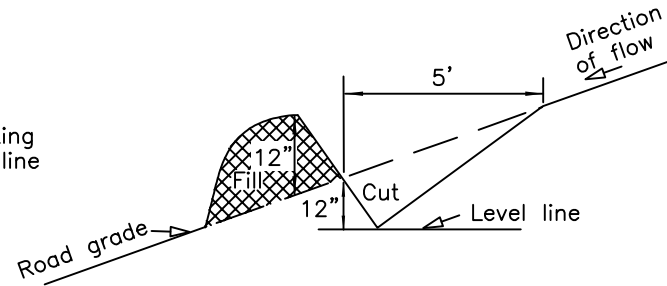
EARTHEN BERM BARRIER



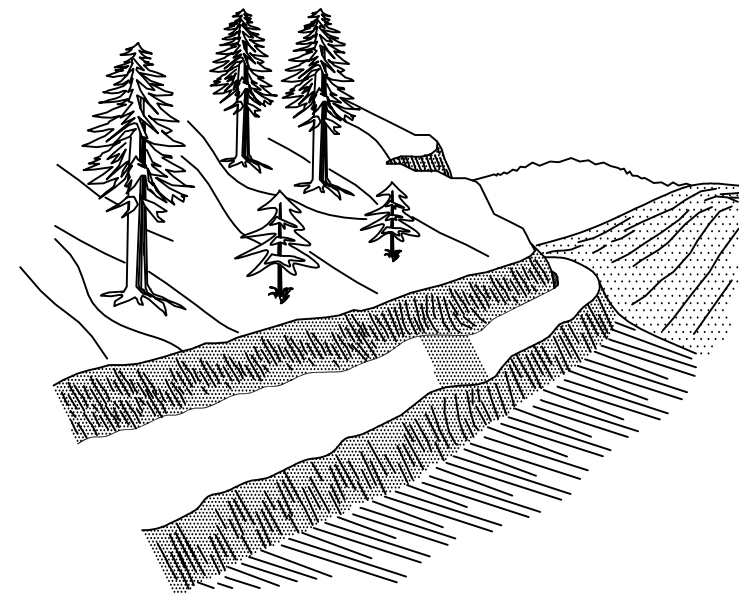
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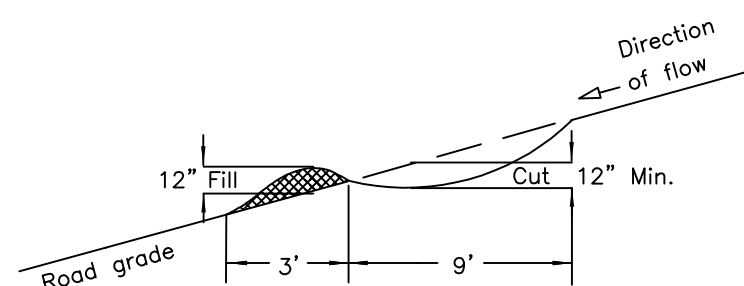
WATER BAR



(NOT TO SCALE)



WATER DIP

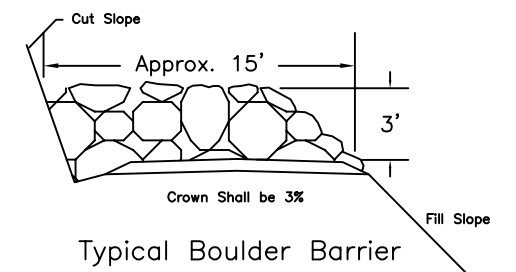


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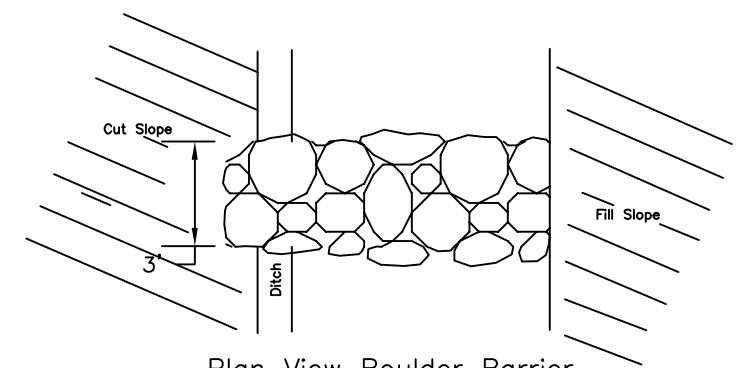
WATER DIP/BAR SPACING

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

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



Typical Boulder Barrier

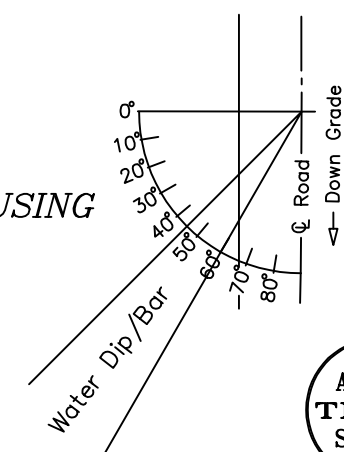


Plan View Boulder Barrier

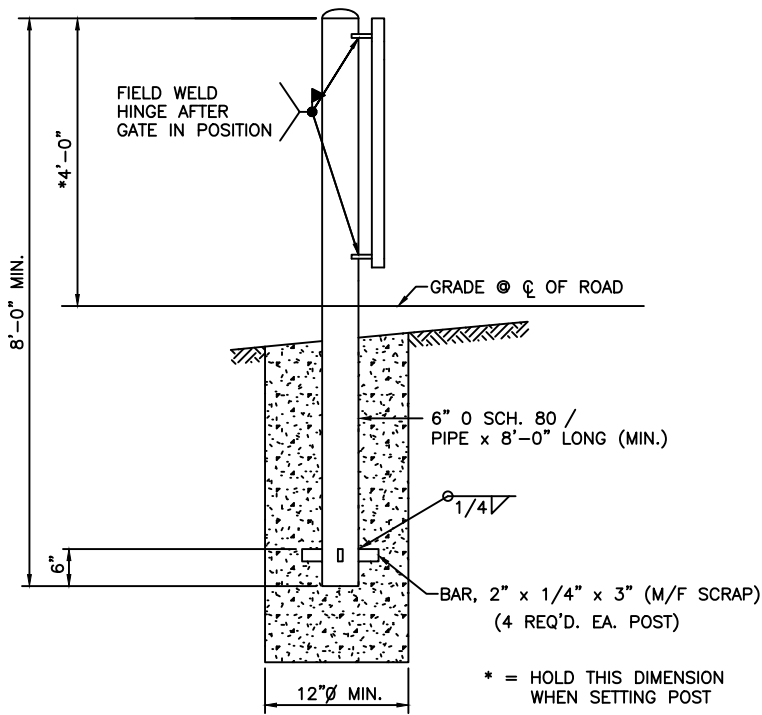
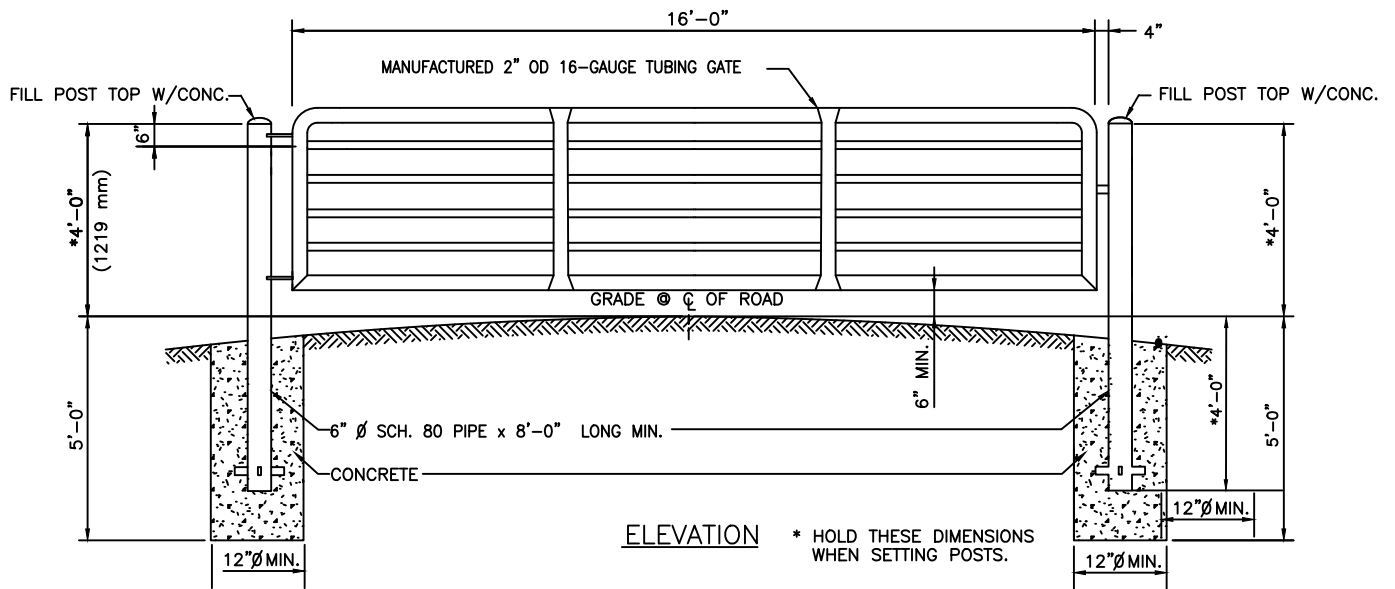
NOTES

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

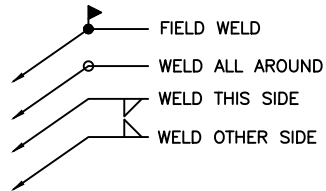
SKEW DIAGRAM



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS	
BARRIER & EROSION CONTROL DETAILS	
DESIGNED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DRAWN JAA	SCALE NONE
DATE 01/2025	SHEET 5 OF 13



WELDING SYMBOLS LEGEND



NOTES:

1. THE EXPOSED SURFACES OF THE CONCRETE SHALL BE CROWNED TO SHED WATER.
2. HINGES AND LOCKING MECHANISM SHALL BE INSTALLED AS SPECIFIED BY GATE MANUFACTURER.
3. PURCHASER SHALL FURNISH AND WELD 24" SEGMENT OF 3/4" CHAIN TO GATE AS ADDITIONAL LOCKING MECHANISM.
4. FIELD WELD HINGES AND LOCKING MECHANISM (CHAIN) AS DIRECTED BY AUTHORIZED OFFICER.

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT - OREGON	
ORC04-TS-2025.0030 FRENCHIE BELIEUS STEEL GATE DETAILS	
PREPARED	J. AGUILAR
REVIEWED	B. KEANE
APPROVED	V. LENHARTZEN
DRAWN JAA	SCALE AS SHOWN
DATE 01/2025	SHEET 6 OF 13

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 **460 CY of 1.5-0"** crushed aggregate surfacing, conforming to the requirements in Section 1200 of Exhibit C of this contract, on the roadway at locations and in the amounts designated by the Authorized Officer.
- This crushed aggregate shall be used to repair surface failures, and areas of depleted surface depth, excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, 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.

29-10-9.1 ~ 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.

29-10-9.2 ~ 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.

29-10-17.2 ~ 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.

29-10-19.0 ~ Upon completion of all logging activities the existing roadway 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, and as directed by the Authorized Officer.

- ~ Purchaser shall furnish and install steel gate. Steel gate shall meet specification found on Steel Gate Details. Installation shall be in accordance with Steel Gate Details. Gate location shall be determined by Authorized Officer.
- 29-10-20.2
- ~ 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.
 - ~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a draw crossing.
 - ~ Utilize 3-0" maintenance rock, in accordance with Section 1000 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, and as directed by 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.
- 29-10-29.0
- ~ 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.
 - ~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a draw crossing.
 - ~ 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, and as directed by the Authorized Officer.
- 29-11-25.0
- ~ Upon completion of all logging activities the existing roadway 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, and as directed by the Authorized Officer.
- 29-11-25.2
- ~ 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.
- ~ 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, and as directed by the Authorized Officer.

- SWING ROAD
- ~ 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.
 - ~ 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, and as directed by 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: Frenchie Belieus
 Sale Date:
 Prep. By : JAA
 Tract No: 2025.0030

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

Purchaser Maintenance Allowances:

(5.2A) Move In	\$2,227.00
(5.2B) Culverts, Catch Basins, Downspouts	\$4,219.88
(5.2C) Grading, Ditching	\$8,078.67
(5.2F) Surface Repair (Aggregate)	\$14,278.28
(5.2G) Other	\$6,700.00
(5.2H) Decommissioning	\$5,023.80
Total Cost =	<u>\$40,527.63</u>

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

Purchaser Operational Maintenance

Move In

Equipment	No Move Units	Cost/ in x	Dist 50 Mi x	Sub-Factor	= total
Motor Grader:	1	1	558	1.00	\$558.00
Back Hoe:	1	1	415	1.00	\$415.00
Loader:			558	0.63	\$0.00
Water Truck:	1	1	138	1.00	\$138.00
Dump Truck:			130	0.63	\$0.00
Excavator:	1	1	558	1.00	\$558.00
Roller:	1	1	558	1.00	\$558.00

(5.2A) Total \$2,227.00

Culvert Maintenance - Including Catch basins and Downpipes

Miles	x Cost/Mi	= Subtotal
8.2	\$514.62	\$4,219.88

(5.2B) Total \$4,219.88

Grading (Includes Ditches and Shoulders)

Miles	x Cost/Mi	x Freq	= Subtotal
Blade w/ Ditch:	8.60		939.38
Blade w/o Ditch:	0.00		568.71
		1	\$8,078.67
		0	\$0.00

(5.2C) Total \$8,078.67

Surface Repair (Aggregate)

Quarry / Source Name: Bridge 1.5-0" In Lieu Rockwear Fee		
Production Cost:	360.0 CY x \$17.92/CY	= \$6,451.20
Haul to Stockpile:		
Grades > 15%	360.0 CY x ((\$2.56/CY x 0.00 Mi) + \$0.85)	= \$0.00
Grades <= 15%	360.0 CY x ((\$1.28/CY x 3.20 Mi) + \$0.85)	= \$1,780.56
State / Co Roads	360.0 CY x ((\$0.57/CY x 7.60 Mi) + \$0.85)	= \$1,865.52
Process with Grader:	360.0 CY x \$1.22/CY	= \$439.20
Compaction:	360.0 CY x \$1.41/CY	= \$507.60
	SubTotal	<u>\$11,044.08</u>

Quarry / Source Name: Bridge 1.5-0" Spot		
Production Cost:	100.0 CY x \$17.92/CY	= \$1,792.00
Haul to Stockpile:		
Grades > 15%	100.0 CY x ((\$2.56/CY x 0.00 Mi) + \$0.85)	= \$0.00
Grades <= 15%	100.0 CY x ((\$1.28/CY x 4.50 Mi) + \$0.85)	= \$661.00
State / Co Roads	100.0 CY x ((\$0.57/CY x 7.60 Mi) + \$0.85)	= \$518.20
Process with Grader:	100.0 CY x \$1.22/CY	= \$122.00
Compaction:	100.0 CY x \$1.41/CY	= \$141.00
	SubTotal	<u>\$3,234.20</u>

(5.2F) Total \$14,278.28

Other

SOIL STABILIZATION - SEC. 1800	Lump Sum	= \$2,500.00
WATER BARS - SEC. 3400	Lump Sum	= \$2,500.00
WATER HAUL - MAINT. ROCK	Lump Sum	= \$1,700.00

(5.2G) Total \$6,700.00

Decommissioning

Other Costs

Road Number	Qty Earthen Barriers	=	Total
29-10-20.2 I	(1x261.9)	=	\$261.90
SWING ROAD C	(1x261.9)	=	\$261.90
	(Other Cost) Total		<u>\$523.80</u>

Time & Equipment

29-10-19.0 R GATE+POSTS+INSTALL+EQUIPMENT+SUPPLIES+LABOR: LUMP SUM @ \$4500.00/LUMP
=\$4,500.00

(5.2H) Decommissioning Total \$5,023.80

EXHIBIT E

Sale Name **Frenchie Belieus**

SALE VOLUME: 5,935 NET MBF 5,935 Sale Number **ORC04-TS-2025.0030**

A. ROAD USE FEES - Payable to Private Company:

COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	USE FEE per MBF	TOTAL FEES
Chinook Silva LLC		29-10-9.2B	1127	free use	\$0.00
Chinook Silva LLC		29-10-17.2A	4808	free use	\$0.00
Chinook Silva LLC		29-10-17.2B	4908	free use	\$0.00
Chinook Silva LLC		29-10-9.2B	5935	free use	\$0.00
TOTAL USE FEE:					\$0.00

B. MAINTENANCE FEES:

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

a. Timber Haul:

Surface Type	ROAD NUMBER	NET MBF	ROAD MILES	ROCKWEAR /MBF/Mile	Subtotal	MAINT+Rock \$/MBF/Mile	Subtotal	TOTAL FEES
BST	29-10-15.0A	5935	0.91	0.00	\$0.00	\$0.82	\$4,428.70	\$4,428.70
BST	29-10-14.2	5935	0.85	0.00	\$0.00	\$0.82	\$4,136.70	\$4,136.70
					1.76	\$0.00	\$8,565.40	\$8,565.40

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

a. Timber Haul:

Surface Type	ROAD NUMBER	NET MBF	ROAD MILES	SURFACE REPLACEMENT /MBF/Mile	TOTAL FEES	
DIRT	29-11-25.2	1127	0.05	\$0.00	\$0.00	
DIRT	29-11-25.0	1127	0.01	\$0.00	\$0.00	
DIRT	29-11-19.0	1127	0.22	\$0.00	\$0.00	
ASC	29-10-29.0	298	0.32	\$0.85	\$81.06	
DIRT	Swing Road	915	0.08	\$0.00	\$0.00	
ASC	29-10-29.0	1213	0.20	\$0.85	\$206.21	
ASC	Landing Approach	1731	0.04	\$0.85	\$58.85	
ASC	29-10-29	2944	0.22	\$0.85	\$550.53	
ASC	29-10-20.2	364	0.03	\$0.85	\$9.28	
ASC	29-10-20.2	897	0.06	\$0.85	\$45.75	
ASC	29-10-29	4053	0.07	\$0.85	\$241.15	
ASC	29-10-29	4223	0.12	\$0.85	\$430.75	
ASC	29-10-29	4350	0.11	\$0.85	\$406.73	
ASC	Landing Approach	458	0.03	\$0.85	\$11.68	
ASC	29-10-29	4808	0.85	\$0.85	\$3,473.78	
ASC	29-10-9.2 A	5935	0.30	\$0.85	\$1,513.43	
ASC	29-10-9.1	5935	0.15	\$0.85	\$756.71	
					2.86	\$7,785.90

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

Surface Type	COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	ROAD MILES	MAINT+Rock \$/MBF/Mile	TOTAL FEES
	Chinook Silva LLC		29-10-9.2B	1127	3.56	\$0.00	\$0.00
	Chinook Silva LLC		29-10-17.2A	4808	0.11	\$0.00	\$0.00
	Chinook Silva LLC		29-10-17.2B	4908	0.67	\$0.00	\$0.00
	Chinook Silva LLC		29-10-9.2B	5935	1.02	\$0.00	\$0.00
					5.36		\$0.00

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX. 8.57 MILES OF ROAD. (SEE EXHIBIT D)

SUMMARY OF ROAD USE & ROAD MAINTENANCE FEES	ROAD USE FEES		ROCKWEAR & MAINTENANCE FEES		MAINTENANCE FEES	
	TOTAL	\$/MBF	TOTAL	\$/MBF	TOTAL	\$/MBF
1. COMPANY-OWNED ROADS:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2. BLM MAINTAINED ROADS:			\$0.00	\$0.00	\$8,565.40	\$1.44
3. BLM OPERATOR-MAINTAINED ROADS:			\$7,785.90	\$1.31	\$0.00	\$0.00
	\$0.00	\$0.00	\$7,785.90	\$1.31	\$8,565.40	\$1.44

MAINTENANCE OBLIGATION PAYABLE TO BLM:	\$16,351.30	\$2.76
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**United States
Department of the Interior
Bureau of Land Management**

Timber Appraisal

Sale Name: Frenchie Belieus	Sale Date: Friday, April 25, 2025
BLM District: Coos Bay DO	Unit of Measure: 16' MBF
Contract #: ORC04-TS-2025.0030	Contract Term: 36 months
Sale Type: Advertised	Contract Mechanism: 5450-003 Lump Sum Sale of Timber and other Wood Products

SBA Set-Aside

Content

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

Prepared By: Blum, Jason - 3/20/2025

Approved By: Kirkland, Travis S - 3/20/2025

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Coos	29S	10W	20	W1/2	Willamette
O&C	Coos	29S	11W	25	L15	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	5,490.0	5,711.0	5,735.0	42,788	883	7,204
Western Hemlock	265.0	280.0	324.0	4,227	479	1,214
Misc Hardwoods	59.0	100.0	101.0	1,008	981	1,103
Grandfir	56.0	58.0	88.0	253	94	48
Port Orford Cedar	41.0	42.0	44.0	487	118	145
Red Alder	24.0	32.0	37.0	360	345	257
Totals	5,935.0	6,223.0	6,329.0	49,123	2,900	9,971

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
132.0	0.0	1.0	133.0	44.6

Logging Costs

Stump to Truck	\$1,055,953.30
Transportation	\$504,511.98
Road Construction	\$157,256.47
Maintenance/Rockwear	\$56,878.93
Road Use	\$0.00
Other Allowances	\$128,062.52
Total:	\$1,902,663.20
Total Logging Cost per MBF:	\$320.58

Utilization Centers

<u>Location</u>	<u>Distance</u>	<u>% of Net Volume</u>
Douglas County	57.3 miles	99%
Rose city Hardwoods	18.1 miles	1%

Profit & Risk

Profit	11%
Risk	2%
Total Profit & Risk	13%

Tract Features

Quadratic Mean DBH	20.7 in
Average GM Log	124 bf
Average Volume per Acre	44.6 mbf
Recovery	94%
<u>Net MBF volume:</u>	
Green	5,935.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	4%
Average Yarding Slope	20%
Average Yarding Distance	250 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	96%
Average Yarding Slope	45%
Average Yarding Distance	571 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	0%
Average Yarding Slope	0%
Average Yarding Distance	0 ft

Cruise

Cruise Completed	January 2025
Cruised By	Stover, Herron, Kirkland, Murphy, Felker, Blum

Cruise Method

VP'ed 133 acres with 232 plots and 189 samples (158 DF, 15 WH, 6 RA, 4 GF, 3 POC, 3). We then 100% cruised the right of way and the landing locations.

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value (\$)
Douglas Fir	7,204	5,490.0	\$657.35	\$85.46	\$320.58	\$0.00	\$251.30	\$1,379,637.00
Western Hemlock	1,214	265.0	\$439.29	\$57.11	\$320.58	\$0.00	\$61.60	\$16,324.00
Misc Hardwoods	1,103	59.0	\$223.06	\$29.00	\$320.58	\$0.00	\$22.40 *	\$1,321.60
Grandfir	48	56.0	\$504.19	\$65.54	\$320.58	\$0.00	\$118.10	\$6,613.60
Port Orford Cedar	145	41.0	\$384.59	\$50.00	\$320.58	\$0.00	\$38.50 *	\$1,578.50
Red Alder	257	24.0	\$444.97	\$57.85	\$320.58	\$0.00	\$66.50	\$1,596.00
Totals	9,971	5,935.0						\$1,407,070.70

* Minimum Stumpage values were used to compute the Appraised Price/MBF (10.00% of Pond Value)

Other Wood Products

Product	Unit of Measure	# of Units	\$/Unit	Appraised Value
Biomass	Green Tons	40	\$0.05	\$2.00
Totals				\$2.00

Total Appraised Value: \$1,407,072.70

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir				87.0%	12.0%	1.0%	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				57.0%	38.0%	5.0%	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill		Camp Run
Misc Hardwoods		26.0%	31.0%	43.0%			

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Grandfir				87.0%	13.0%		

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Port Orford Cedar				71.0%	29.0%		

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill		Camp Run
Red Alder		76.0%	19.0%	5.0%			

Unit: 1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	2,348.0	2,444.0	2,453.0	3,088
Western Hemlock	120.0	127.0	147.0	549
Grandfir	25.0	26.0	40.0	21
Misc Hardwoods	25.0	43.0	44.0	495
Port Orford Cedar	19.0	19.0	20.0	66
Red Alder	10.0	14.0	16.0	112
Totals:	2,547.0	2,673.0	2,720.0	4,331

Net Volume/Acre: 42.5 MBF

Regeneration Harvest	60.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	60.0

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,565.0	1,630.0	1,635.0	2,059
Western Hemlock	80.0	84.0	98.0	366
Misc Hardwoods	17.0	29.0	29.0	330
Grandfir	17.0	17.0	26.0	14
Port Orford Cedar	12.0	13.0	14.0	44
Red Alder	7.0	9.0	11.0	75
Totals:	1,698.0	1,782.0	1,813.0	2,888

Net Volume/Acre: 42.5 MBF

Regeneration Harvest	40.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	40.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	274.0	285.0	286.0	360
Western Hemlock	14.0	15.0	17.0	64
Misc Hardwoods	3.0	5.0	5.0	58
Grandfir	3.0	3.0	5.0	3
Red Alder	2.0	2.0	2.0	13
Port Orford Cedar	2.0	2.0	2.0	8
Totals:	298.0	312.0	317.0	506

Net Volume/Acre: 42.6 MBF

Regeneration Harvest	7.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	7.0

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	978.0	1,018.0	1,022.0	1,287
Western Hemlock	50.0	53.0	61.0	229
Misc Hardwoods	10.0	18.0	18.0	206
Grandfir	10.0	11.0	16.0	9
Port Orford Cedar	8.0	8.0	8.0	27
Red Alder	4.0	6.0	7.0	47
Totals:	1,060.0	1,114.0	1,132.0	1,805

Net Volume/Acre: 42.4 MBF

Regeneration Harvest	25.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	25.0

Unit: RW

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	325.0	334.0	339.0	410
Misc Hardwoods	4.0	5.0	5.0	14
Grandfir	1.0	1.0	1.0	1
Western Hemlock	1.0	1.0	1.0	6
Red Alder	1.0	1.0	1.0	10
Totals:	332.0	342.0	347.0	441

Net Volume/Acre: 332.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	1.0
Total Acres:	1.0

Total Stump To Truck	Net Volume	\$/MBF
\$1,055,953.30	5,935.0	\$177.92

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Large Yarder	GM MBF	6,036.0	\$165.62	\$999,682.32	Tower Yarder, (Large) Log Loader, Processer, 2.0 saws, 10 Loads Per day Fuel \$3.25
Shovel	GM MBF	187.0	\$110.54	\$20,670.98	Shovel, Processer 2.0 saws, 10 Loads Per day Fuel \$3.25
Subtotal				\$1,020,353.30	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Intermediate Support	Total	47.0	\$300.00	\$14,100.00	District C/A 2024
Lift Tree	Total	78.0	\$250.00	\$19,500.00	District C/A 2024
Subtotal				\$33,600.00	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Large Yarder	Total	1.0	\$500.00	\$500.00	seasonal restriction and moves to units 1,2,3
Shovel	Total	1.0	\$500.00	\$500.00	seasonal restriction and moves to units 1,2,3
Loader	Total	1.0	\$500.00	\$500.00	seasonal restriction and moves to units 1,2,3
Processor	Total	1.0	\$500.00	\$500.00	seasonal restriction and moves to units 1,2,3
Subtotal				\$2,000.00	

Total	Net Volume	\$/MBF
\$504,511.98	5,935.0	\$85.01

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Douglas County	57.3	sawlogs	GM MBF	6,191.0	\$81.30	\$503,328.30	99%
Rose city Hardwoods	18.1	Sawlogs	GM MBF	32.0	\$36.99	\$1,183.68	1%

Engineering Allowances

Total	Net Volume	\$/MBF
\$214,135.40	5,935.0	\$36.08

Cost Item	Total Cost
Road Construction:	\$157,256.47
Road Maintenance/Rockwear:	\$56,878.93
Road Use Fees:	\$0.00

Comments:

Road Maintenance/Rockwear = Ex-D \$40,527.63 + Ex-E \$16,351.30 = \$56,878.93 Road Construction = Ex-C \$157,256.47

Total	Net Volume	\$/MBF
\$128,062.52	5,935.0	\$21.58

Environmental Protection

Cost item	Total Cost
Equipment Washing	\$1,300.00
Subtotal	\$1,300.00

Miscellaneous

Cost item	Total Cost
Tree Girdling	\$1,995.00
Subtotal	\$1,995.00

Slash Disposal & Site Prep

Cost item	Total Cost
Landing Pile Cover (All Units)	\$741.12
Landing Pile Burn (All Units)	\$1,387.52
Scatter	\$28,072.88
slash / lop	\$48,321.24
Machine Pile Cover	\$1,994.08
Machine Pile Burn	\$2,229.88
Hand Pile only	\$40,384.00
Landing Pullback	\$1,636.80
Subtotal	\$124,767.52

Comments:

Burning Buy out \$4,335.09

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Name of Bidder
Tract Number ORC04-TS-2025.0030
Sale Name Frenchie Belieus
Sale Notice (dated) 03/27/2025
BLM Office Coos Bay BLM District Office

DEPOSIT AND BID FOR: (Check One):

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

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input type="checkbox"/> Written Bid for Oral Auction Sale
Deadline for accepting sealed bids 10:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Sale commences 10:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
On (date) _____ Place _____	On (date) 04/25/2025 Place Coos Bay BLM

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

Required bid deposit is \$ 140,800.00 and is enclosed in the form of:

cash money order cashier's check certified check bank draft

bid bond of corporate surety on approved list of the United States Treasury guaranteed remittance approved by the authorized officer.

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

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

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

BID SUBMITTED					ORAL BID MADE	
PRODUCT & SPECIES	UNIT of MEASURE	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	PRODUCT VALUE (Quantity X Price)	UNIT PRICE	PRODUCT VALUE (Quantity X Price)
Douglas-fir	MBF	5490	\$	\$	\$	=\$ 0.00
Western Hemlock	MBF	265	\$ 61.60	\$ 16,324.00	\$	=\$ 0.00
Misc. Hardwoods	MBF	59	\$ 22.40	\$ 1,321.60	\$	=\$ 0.00
Grand-fir	MBF	56	\$ 118.10	\$ 6,613.60	\$	=\$ 0.00
Port Orford Cedar	MBF	41	\$ 38.50	\$ 1,578.50	\$	=\$ 0.00
Red alder	MBF	24	\$ 66.50	\$ 1,596.00	\$	=\$ 0.00
Biomass	GT	40	\$ 0.05	\$ 2.00	\$	=\$ 0.00
			\$	\$ 0.00	\$	=\$ 0.00
			\$	\$ 0.00	\$	=\$ 0.00
			\$	\$ 0.00	\$	=\$ 0.00
			\$	\$ 0.00	\$	=\$ 0.00
TOTAL PURCHASE 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 (type or print)
2. Signatures, if firm is a partnership or L.L.C. i. _____ ii. _____	5. Business address, include zip code (type or print)
3. Corporation - organized under the state laws of: Signature of Authorized Corporate Officer: _____ Title: _____	<p><i>(To be completed following oral bidding)</i></p> <p>I HEREBY confirm the above oral bid By (signature): _____</p> <hr/> <p>Date _____</p>

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

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

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

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

NOTICES

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

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

INSTRUCTIONS TO BIDDERS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

16. 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 8 3/4 inches in thickness; (4) Chips, pulp, or pulp products; (5) Veneer or plywood; (6) Poles, posts, or piling cut or treated with preservatives for use as such; (7) Shakes or shingles; (8) Aspen or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp; (9) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 saw logs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.

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

Agency Forest

Sale Name



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

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

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

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

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

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

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

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

Signed _____

Date _____